



2018   
2019

Product Catalog  
ATEN VanCryst™ Professional A/V Solutions

# Simply Better Connections

## Our Vision

“Simply Better Connections” has always been at the heart of the ATEN brand. It means providing innovative solutions for you to make better connections, efficiently and seamlessly, to the information and people that you value. As a result, ATEN connects you to the world, anytime and anywhere, by providing technologies that enable you to share and to care. ATEN makes professional and personal life easier and better connected.

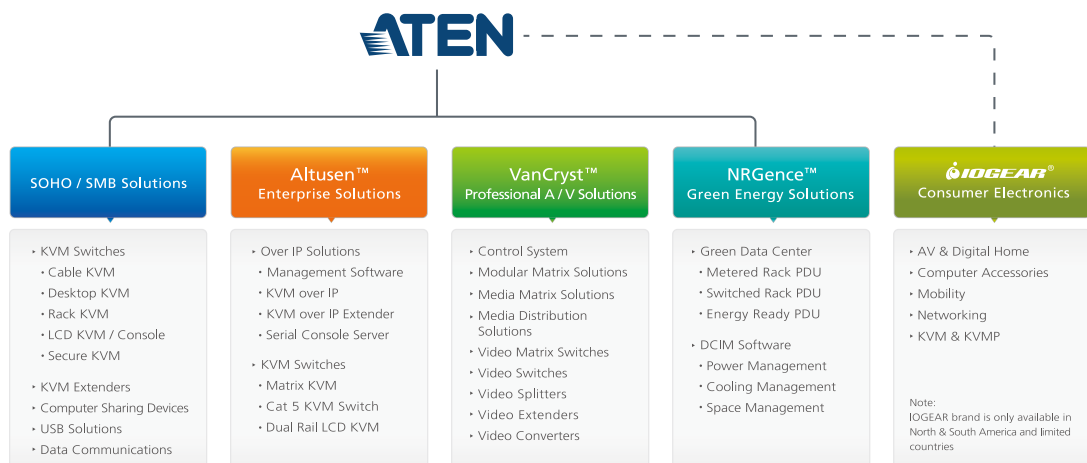
## About ATEN

ATEN International Co., Ltd., established in 1979, specializes in IT connectivity and management solutions that are uniquely positioned at the convergence of KVM and Pro AV.

ATEN’s Altusen™ IT infrastructure access and management solutions offer integrated KVM connectivity and control capabilities for Enterprise customers that facilitate the effective management of IT infrastructures from anywhere in the world. Our ATEN VanCryst™ Professional A/V range leverages our enhanced video and control capabilities and offers signal management and system control components to build a multitude of flexible integrated solutions for all home and professional audio/video-related applications. Our ATEN SOHO/SMB solutions invite you to experience the very latest standards in USB connectivity, mobility and speed while embracing the next generation of 4K-enabled workstation solutions. Finally, our ATEN NRGence™ Green Energy line of intelligent power solutions offers sensor-enabled energy-saving hardware and software for data centers that provide real-time energy management and performance indicators.

Our 38+ years of excellence in IT connective and managemener means that we are at the forefront of the seamless integration of A/V with IT. Whether it’s for a corporate, education, manufacturing, industrial, government, hospitality or retail environment, ATEN shares infinite possibilities through connective technologies. We have 500+ issued international patents and global R&D teams that produce a constant stream of innovative solutions, resulting in a comprehensive portfolio of products available worldwide, all crowned by some of the best technical support and customer service in the industry.

Headquartered in Taiwan, ATEN has grown to include subsidiaries in China, Japan, Korea, Belgium, Australia, the U.S., the U.K., Russia, India, and Turkey – with R&D centers in Taiwan, China, and Canada.



## Our Core Values

- CAN**
- Integrity** with pragmatism as our philosophy
- Caring** with respect as our spirit
- Ambition** with optimism as our attitude
- Novelty** with added-value as our achievement

# Company Profile



CANADA R&D



USA (CA)



USA (NJ)



UK



BELGIUM

- Corporate Headquarters
- Asia-Pacific / Europe / America / Oceania
- R&D / Manufacturing



## Global Sales and Service Network

ATEN has built a global network of sales and engineering professionals to provide our customers with fast, efficient and comprehensive service. Our distribution channels and partners extend worldwide to more than 100 countries.



## ATEN eNews

ATEN eNews is a monthly publication featuring the latest ATEN product developments, marketing and promotional resources, and corporate activities.



### ATEN eService

ATEN eService is a web portal which provides several ATEN online services, including technical support, product registration, and partner services. All services can be accessed with a single ID and password.



### ATEN Partner Center

Authorized distributors can access the ATEN Partner Center to get the latest marketing materials, sales tools, technical documents, product certifications and more. Registered partners receive a monthly newsletter to stay up-to-date with ATEN's latest product news and events. ATEN also provides integrated marketing programs and promotions to assist partners in promoting ATEN products and services.

# ATEN Video Product Landmarks

Year	Landmark	Product Name	Key Technology Advance
1993 > 2006	• Video Splitter	VS104 / VS108	First VGA splitter
	• Video Splitter	VS102	
	• Video Switch	VS201	First VGA switch
	• Video Splitter	VS132	Increased bandwidth to 300 MHz
	• Video Extender	VE120L / VE120R	First VGA over Cat 5 extender
	• Video Splitter	VS92A / VS94A / VS98A	Increased bandwidth to 250 MHz
	• Video Switch	VS881	Added IR remote control
	• Video Switch	VS291 / VS491	
	• Video Switch	VS1601	Added audio
	• Video Switch	VS231 / VS431	First HDTV A/V switch
2007	• Video Splitter	VS0116	Added audio
	• Video Matrix Switch	VS0202 / VS0204	First VGA matrix switch
	• DVI Switch	VS261 / VS461	First DVI switch
2008	• HDMI Switch	VS481A	First HDMI switch
	• DVI Splitter	VS162 / VS164	First DVI splitter
	• HDMI Splitter	VS182 / VS184	First HDMI splitter
	• Media Distribution Solution	VS1504 / VS1508 + VB552	First complete high resolution, long distance VGA digital signage solution with serial RS-232 and audio support
	• HDMI Extender	VE800	First HDMI extender
2009	• Video Splitter	VS132A / VS134A / VS138A	Increased bandwidth to 450 MHz; increased resolution to 2048 x 1536
	• Audio / Video Extender	VE200	First VGA with audio and serial extender added
	• Video Splitter	VS92A / VS94A / VS98A	Increased bandwidth to 350 MHz
	• DVI Extender	VE066	First mini DVI extender
2010	• HDMI Switch	VS0801H	
	• HDMI Splitter	VS0108H	
	• HDMI Matrix Switch	VM0404H	First HDMI matrix switch
	• Media Matrix Switch	VM0808T	First VGA-over-Cat 5 + audio matrix switch
2011	• Audio/Video Extender	VE500	VGA + balanced audio + Deskew extender
	• Media Distribution Solution	VS1204T / VS1208T + VE170R / RQ	Complete high resolution, long distance VGA digital signage solution with audio support
	• Video Switch	VS0801	8-port VGA Switch + Audio
	• HDMI Media Distribution Solution	VS1804T / VS1808T + VE800R + VB802	First complete long distance HDMI digital signage solution
	• VGA to HDMI Converter	VC180	
	• HDMI Repeater Plus Audio De-embedder	VC880	
	• Dual View HDMI Switch	VS482	HDMI switch with ARC (Audio Return Channel) function
• Mini Cat 5 A/V Extender	VE022		
• DVI Extender with Audio	VE600A		
• Mini DisplayPort Adapter	VC920 / VC960 / VC980		

Year	Landmark	Product Name	Key Technology Advance
2012	<ul style="list-style-type: none"> <li>Media Matrix Solutions</li> <li>HDMI Matrix Switch</li> <li>Video Matrix Switch + Audio</li> <li>VGA Switch with Audio</li> <li>DVI Dual Link Splitter with Audio</li> <li>VGA Splitter</li> <li>HDMI Extender over single Cat 5 with Dual Display</li> <li>Universal A/V to HDMI Switch with Scaler</li> </ul>	VM0808T / VM1616T + VE500 / VE300 VM0808H VM0808 VS0201 / VS0401 VS172 / VS174 VS0102 / VS0104 / VS0108 VE814 VC1080	First video extender to support 4K  First universal switch to support scaler functionality
2013	<ul style="list-style-type: none"> <li>HDMI Media Distribution Solution</li> <li>8 x 8 HDMI Matrix Switch with Scaler</li> <li>Video Extender with Cascade</li> <li>VGA/DVI/HDMI Over Cat 5 Extender Wall Plate</li> </ul>	VS1814T / VS1818T + VE812R VM5808H VE172R VE156 / VE606 / VE806	Implemented HDBaseT solution  First matrix switch to support Seamless Switch™ functionality Supports up to 10 Levels  First extender with wall plate design
2014	<ul style="list-style-type: none"> <li>Modular Matrix Solution Series</li> <li>3G / HD / SD-SDI Splitter</li> <li>HDMI Active Optical Cable</li> </ul>	VM1600 + VM7604 / VM8604 + VM7804 / VM8804 VS146 VE872 / VE873	First Modular Matrix Switch solution with Seamless Switch™ technology, ideal for video wall integration  First SDI video splitter  An active optical cable with exclusive ATEN AOC+™ technology
2015	<ul style="list-style-type: none"> <li>ATEN Control System</li> <li>Serial Expansion Box</li> <li>4 x 4 / 9 x 9 HDMI HDBaseT-Lite Matrix Switch</li> <li>12-Port DP Video Wall Media Player</li> </ul>	VK2100 / VK6000 / App VK224 VM3404H / VM3909H VS1912	First control system First expansion box for ATEN Control System First HDBaseT-Lite matrix switch  First media player
2016	<ul style="list-style-type: none"> <li>Expansion Box</li> <li>Modular Matrix Series</li> <li>DisplayPort Splitter</li> <li>DisplayPort Extender</li> </ul>	VK236 / VK248 VM3200 VS192 / VS194 VE901	First DisplayPort Splitter First DisplayPort Extender
2017	<ul style="list-style-type: none"> <li>True 4K HDMI Splitter and Booster</li> <li>HDMI over IP Extender</li> <li>Presentation Switch</li> </ul>	VS182B / VS184B VB800 VE8900 / VE8950 VP1920	First Splitter and Booster supports up to True 4K First Video over IP Extender First ATEN Presentation Switch



## ATEN Professional A/V Technologies

### ▶ Seamless Switch™

ATEN Seamless Switch™ technology features instantaneous video switching to deliver Full HD video powered by an exclusive seamless engine implemented at each output port. This high-performance engine processes A/V signals by executing EDID and HDCP handshakes simultaneously at both source and display ends, scaling inputs for the best output resolution while setting the output clock timing and using a frame buffer to retain input signal information for the fastest output. This innovative processing of high-speed signals contributes to continuous video streams, real-time switching and stable signal transmission.

### ▶ Video Wall Integration with Scaler

A unique Scaler utilizing ATEN FPGA technology is built into ATEN's Seamless Switch™ Series to unify various video input signals and render optimum output resolutions on displays with uncompromised precision. Through an intuitive web GUI video wall profiles can be created with custom screen layouts for a wide range of pro-A/V applications. Integrating a video wall processor and matrix switching capability, these products simplify the installation process and contribute to cost-effective management.

### ▶ AOC+™ (Active Optical Cable Plus)

AOC+™ is a technology that converts input signals into fiber optic signals between connectors over long distances. Using the EMI-free fiber optic cable as the medium between connectors to transmit signals, AOC+™ supports 3D and 4K resolutions in high bandwidth transmission over long distances. AOC+™ is fully compliant with HDMI standards and offers pure HDMI integration in high-speed transmission without sacrificing compatibility with standard electrical interfaces.

### ▶ 4K Support

The next generation of image quality for high definition video, 4K delivers four times as much detail as 1080p Full HD resolutions. ATEN offers a comprehensive portfolio of 4K and True 4K Pro A/V solutions that provide high-performance signal extension, splitting, routing and distribution to deliver the ultimate immersive visual experience with exceptional clarity. Identify the right products for your performance requirements by looking for the ATEN 4K and True 4K logos.

Note: Supported 4K resolutions include UHD (3840x2160) and DCI (4096x2160), with refresh rates at 30 Hz (4:4:4) and 60 Hz (4:2:0).



### ▶ HDBaseT™ Technology

HDBaseT™ is a connectivity standard for whole-home and commercial distribution of uncompressed HD multimedia content. The cornerstone of HDBaseT™ technology is that it combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 5e/6a cable. HDBaseT™ is optimized for professional A/V installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters. ATEN's HDBaseT products are compatible with HDBaseT-certified projectors or displays manufactured by EPSON, NEC, Panasonic, Sony and many more.

### ▶ ATEN Exclusive Video Compensation technology

ATEN's patented video compensation technology permits video signals to be transmitted over long distances more accurately, improving upon the previous design by minimizing inaccuracy from 10 m to only 1 m. This technology not only improves the brightness but also achieves a higher skew tolerance for our video extender products.

### ▶ Deskew

ATEN's automatic and manual delay line synchronizing functions correct the color phase and time errors that occur when R/G/B video signals are sent long distances over Cat 5e/6 cables. ATEN's Deskew technology enables you to manually tune the R/G/B signals to ensure stable, high quality video in any extended video installation.

### ▶ EDID Expert™

ATEN offers an extensive portfolio of pro-A/V products with selectable EDID modes to fulfill the requirements of different applications. In most cases where multiple video sources and displays or long-distance transmissions are demanded, the ATEN EDID Expert™ technology offers applicable EDID modes for selection that optimize the output capability throughout the installation for faster and very smooth video performance.

*(See more details about ATEN EDID modes on the next page.)*





## The Distinguished Technologies of VanCryst™ Products

### ▶ ATEN EDID Modes

The EDID Expert offers several EDID modes for selection, including **Default**, **Port 1**, **Auto**, **Remix**, **Learn**, and **Customized** modes, and each is defined as follows:

- **Default:** This mode applies ATEN's default EDID data to all video sources by default when the system is powered on.
- **Port 1:** This mode applies the EDID data read from port 1 to all video sources. The system will enforce Default EDID data to all sources if port 1 is not occupied.
- **Auto:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will automatically re-generate a new EDID whenever a device is plugged in.
- **Remix:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Learn:** This mode applies the EDID data of a specific display to all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Customized:** This mode allows user-defined EDID configurations for optimum output.

### ▶ Supported Video Resolutions in Default Mode

Supported video resolutions in Default EDID mode may vary upon the type of interface connected:

#### HDMI

640x480 @ 60 Hz	1920x1080 @ 60 Hz
640x480 @ 67 Hz	1920x1200 @ 60 Hz
640x480 @ 72 Hz	3840x2160p @ 60 Hz
640x480 @ 75 Hz	3840x2160p @ 50 Hz
800x600 @ 56 Hz	3840x2160p @ 30 Hz
800x600 @ 60 Hz	3840x2160p @ 25 Hz
800x600 @ 72 Hz	3840x2160p @ 24 Hz
800x600 @ 75 Hz	4096x2160p @ 60 Hz
1024x768 @ 60 Hz	4096x2160p @ 50 Hz
1024x768 @ 70 Hz	4096x2160p @ 30 Hz
1024x768 @ 75 Hz	4096x2160p @ 25 Hz
1280x720 @ 60 Hz (Native)	4096x2160p @ 24 Hz
1280x800 @ 60 Hz	480p
1280x1024 @ 60 Hz	576p
1280x1024 @ 75 Hz	720p 50Hz
1366x768 @ 60 Hz	720p 60Hz
1400x900 @ 60 Hz	1080i 50Hz
1440x1050 @ 60 Hz	1080i 60Hz
1600x1200 @ 60 Hz	1080p 60Hz
1680x1050 @ 60 Hz	

Note: From firmware version v1.0.078

**DVI**

640x480 @ 60 Hz	1280x800 @ 60 Hz
640x480 @ 67 Hz	1280x1024 @ 60 Hz
640x480 @ 72 Hz	1280x1024 @ 75 Hz
640x480 @ 75 Hz	1366x768 @ 60 Hz
800x600 @ 56 Hz	1400x900 @ 60 Hz
800x600 @ 60 Hz	1440x1050 @ 60 Hz
800x600 @ 72 Hz	1600x1200 @ 60 Hz
800x600 @ 75 Hz	1680x1050 @ 60 Hz
1024x768 @ 60 Hz	1920x1080 @ 60 Hz (Native)
1024x768 @ 70 Hz	1920x1200 @ 60 Hz
1024x768 @ 75 Hz	2560x1600 @ 60 Hz
1280x720 @ 60 Hz	

Note: From firmware version v1.0.075

**VGA**

640x480 @ 60 Hz	1152x870 @ 75 Hz
640x480 @ 67 Hz	1280x800 @ 60 Hz
640x480 @ 72 Hz	1280x1024 @ 60 Hz
640x480 @ 75 Hz	1280x1024 @ 75 Hz
800x600 @ 56 Hz	1366x768 @ 60 Hz
800x600 @ 60 Hz	1400x900 @ 60 Hz
800x600 @ 72 Hz	1440x1050 @ 60 Hz
800x600 @ 75 Hz	1600x1200 @ 60 Hz
832x624 @ 75 Hz	1680x1050 @ 60 Hz
1024x768 @ 60 Hz (Native)	1920x1080 @ 60 Hz
1024x768 @ 70 Hz	1920x1200 @ 60 Hz
1024x768 @ 75 Hz	

# Why Choose ATEN VanCryst™ Professional A/V Solutions?

## 40 Years of Experience

ATEN has been at the forefront of the data communication and connectivity industries since 1979 and has been an international leader in the entry- to mid-level KVM switch market for nearly 40 years. Our ATEN Professional A/V Solutions have developed alongside our KVM expertise and now we are leveraging these enhanced video and control capabilities to expand further into this technology-intensive field. From our first video switch in 1993 to today's cutting-edge Modular Matrix Switch, 4K over IP Extender and a series of 4K/True 4K devices, we have been continually creating, developing and expanding our video products range. Given ATEN's experience and expertise in video-related technologies, it simply makes sense to source your ATEN Professional A/V Solutions from us.

## Flexible, Integrated Solutions

ATEN Professional A/V Solutions give you crystal clear images from all vantage points – at home, in the office, and in commercial, industrial, information and entertainment environments. We have a full range of components that can be leveraged in different ways to fulfill the needs of various industries. From switches and splitters to extenders and converters – our range of video products provide you with a multitude of flexible, integrated solutions for all video-related applications. From installers looking for components to specialized providers looking for total video solutions, there is an ATEN product to meet all your professional A/V needs. Why not let our vision become your advantage?

## Quality Engineering

At ATEN, we employ engineers who are experts in their fields and provide them with an environment where they can thrive and give wings to their ideas. In return, our teams of resourceful and talented R&D professionals supply us with a continuous array of hi-tech video innovations that we are proud to supply to our customers. In addition to top quality engineering, every component is carefully selected and rigorously tested throughout the design and production process to ensure that ATEN only supplies video products of the highest quality where you can get the reliability and performance you demand.



### Total Customer Satisfaction

Customer satisfaction has and always will be the number one priority at ATEN. To ensure this, excellence is pursued at every stage. We provide a constant stream of new products with innovative technologies. We can be relied upon for the highest quality manufacturing and for timely deliveries. We have a wealth of dedicated and talented sales service personnel, backed up by experienced technicians, who provide unparalleled customer support. All of this adds up to total customer satisfaction. We have a proven track-record of superlative after-sales and technical support for customers, re-sellers and partners across the board. There is no need to settle for less.

### Exceptional Price Performance

One final reason to choose ATEN Professional A/V Solutions is the exceptional performance they offer at considerably lower prices than the majority of the competition. ATEN prices might not be the very lowest on the market, but they certainly offer the best price-to-value ratio in terms of quality, performance, and after-sales support. Dollar-for-dollar, ATEN Professional A/V Solutions outperform the competition. And the benefits of our know-how and high-tech automated manufacturing process are passed onto our customers who, in turn, are able to be competitive in their own markets. Get more for your money and reap the rewards with ATEN Professional A/V Solutions.

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<b>Media Distribution Solution Series</b>	4-3	4/8-Port HDMI HDBaseT Splitter (HDBaseT Class A)	VS1814T / VS1818T
	4-5	HDMI HDBaseT-Lite Receiver (4K@40m)(HDBaseT Class B)	VE801R
	4-6	HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A)	VE811R
	4-7	HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A)	VE812R
	4-8	4/8-Port HDMI Over Cat 5 Splitter	VS1804T / VS1808T
	4-9	HDMI Cat 5 Repeater (1080p@40m)	VB802
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	4-11	4/8-Port VGA/Audio/RS-232 Cat 5 Splitter	VS1504T / VS1508T
	4-12	VGA/Audio/RS-232 Cat 5 Receiver with Dual Output (1280 x 1024@200m)	VE200R
	4-13	4/8-Port VGA/Audio Cat 5 Splitter	VS1204T / VS1208T
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<b>Video Matrix Switches</b>	5-3	4 x 4 / 9 x 9 HDMI HDBaseT-Lite Matrix Switch	VM3404H / VM3909H
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	5-8	4 x 4 / 8 x 8 True 4K HDMI Matrix Switch	VM0404HB / VM0808HB
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	5-10	2 x 2 4K HDMI Matrix Switch	VM0202H
	5-11	4 x 4 / 8 x 8 DVI Matrix Switch with Scaler	VM5404D / VM5808D
	5-12	4 x 4 / 8 x 8 VGA/Audio Matrix Switch	VM0404 / VM0808
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	6-4	4-Port True 4K HDMI switch	VS481c	
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	6-7	8-Port True 4K HDMI Switch	VS0801HB	
	6-8	8-Port HDMI Switch	VS0801H	
	6-9	4-Port HDMI Switch with Dual Output	VS482	
	6-11	2/4-Port DVI/Audio Switch	VS261 / VS461	
	6-12	2/4-Port VGA/Audio Switch	VS0201 / VS0401	
	6-13	8-Port VGA/Audio Switch with Auto Switching	VS0801A	
	6-14	2-Port VGA Switch Wall Plate	VS201	
	6-15	2/4-Port VGA Switch	VS291 / VS491	
	6-16	8-Port VGA Switch with Auto Switching	VS881	
	<b>Video Splitters</b>	7-3	12-Port DP Video Wall Media Player	VS1912
		7-5	2/4-Port True 4K HDMI Splitter	VS182B / VS184B
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7-13		16-Port VGA/Audio Splitter (250MHz)	VS0116	
7-14		2/4/8-Port VGA Splitter (450MHz)	VS132A / VS134A / VS138A	
7-15		2/4/8-Port VGA Splitter (350MHz)	VS92A / VS94A / VS98A	
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	8-39	VGA Cat 5 Extender (1280 x 1024@150m)	VE150A
	8-40	VGA/Audio Cat 5 Extender (1024 x 768@300m)	VE170 / VE170Q
	8-41	VGA/Audio/RS-232 Cat 5 Extender with Dual Output (1280 x 1024@200m)	VE200
	8-42	True 4K HDMI Booster (4K@20m; 1080p@40m)	VB800
	8-43	DVI Booster (1920 x 1200@30m)	VE560
	8-44	VGA Booster (1280 x 1024@70m)	VB100
8-45	Video Extender Rack Mount Kit	VE-RMK 1U / 2U / 3U	
<b>Video Converters</b>	9-3	HDMI to 3G-SDI/Audio Converter	VC840
	9-4	HDMI to VGA/Audio Converter with Scaler	VC812
	9-5	HDMI to VGA Adapter	VC810
	9-6	3G-SDI to HDMI/Audio Converter	VC480
	9-7	VGA/Audio to HDMI Converter with Scaler	VC182
	9-8	VGA/Audio to HDMI Converter	VC180
	9-9	VGA to DVI Converter	VC160A
	9-10	Mini DisplayPort / DisplayPort to 4K HDMI Active Adapter	VC981 / VC986
	9-11	DisplayPort to VGA/DVI/HDMI Adapter	VC925 / VC965 / VC985
	9-12	Mini DisplayPort to VGA/DVI/HDMI Adapter	VC920 / VC960 / VC980
	9-13	HDMI Repeater Plus Audio De-embedder	VC880
	9-15	VGA/DVI/HDMI EDID Emulator	VC010 / VC060 / VC080
	9-16	VGA EDID Emulator	2A-130G
<b>Multi-View KVMP™ Switch</b>	10-1	4-Port USB DVI Multi-View KVMP™ Switch	CM1164
<b>Cables</b>	11-1	305M HDBaseT SF/UTP Cat 6 Cable	2L-2910
	11-3	305M Low Skew Cat 5e Cable	2L-2801
	11-5	High Speed HDMI Cable with Ethernet	2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H
	11-6	Cables	
<b>Accessories</b>	12-1	LockPro™ – HDMI Cable Lock	2X-EA12
	12-2	Accessories Table	

## Products

At the frontline of AV / IP convergence, ATEN's VanCryst™ professional A/V products provide the components to build flexible, integrated solutions for video-related applications.

With support for all current video interfaces, extensive audio support, and the latest in cutting-edge A/V control, ATEN VanCryst™ professional A/V solutions always deliver the ultimate visual experience. Whatever your digital performance requirements, seamlessly transition to the highest resolutions and future-proof your video installation with ATEN VanCryst™ professional A/V solutions.

Identify the right products for your performance requirements

- ATEN Control System
- Presentation Switch Series
- Modular Matrix Solution Series
- Media Distribution Solution Series
- Video Matrix Switches
- Video Switches
- Video Splitters
- Video Extenders / Video Boosters
- Video Converters
- Multi-View KVMP Switches
- Cables



# ATEN Control System

The ATEN Control System is a standard Ethernet-based management system that connects all the hardware devices in a room or large facility to provide centralized control directly and effortlessly from a mobile device and tablet computer.

The ATEN Control System can easily deploy into an existing installation and integrate seamlessly with ATEN Pro-A/V products, A/V equipment, lighting systems, air conditioning, motion sensors, power switches and much more.

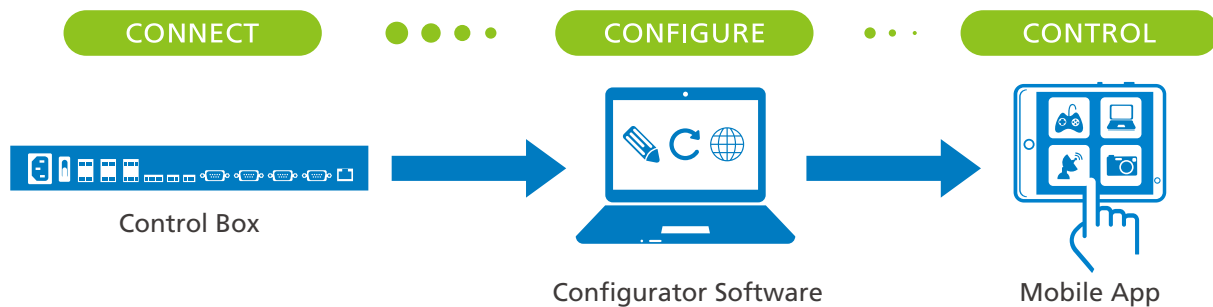
The ATEN Control System is perfectly applicable in meeting rooms, conference centers, boardrooms, classrooms or any room that requires collaboration of a variety of hardware devices through a streamlined management with optimum efficiency and performance.



## How to Deploy the ATEN Control System?

No matter how large the room or how complicated the hardware, deploying the ATEN Control System can be completed in 3 easy steps:

- CONNECT all hardware to the Control Box.
- CONFIGURE system settings with the Configurator software.
- CONTROL the hardware from a tablet computer via the mobile App.



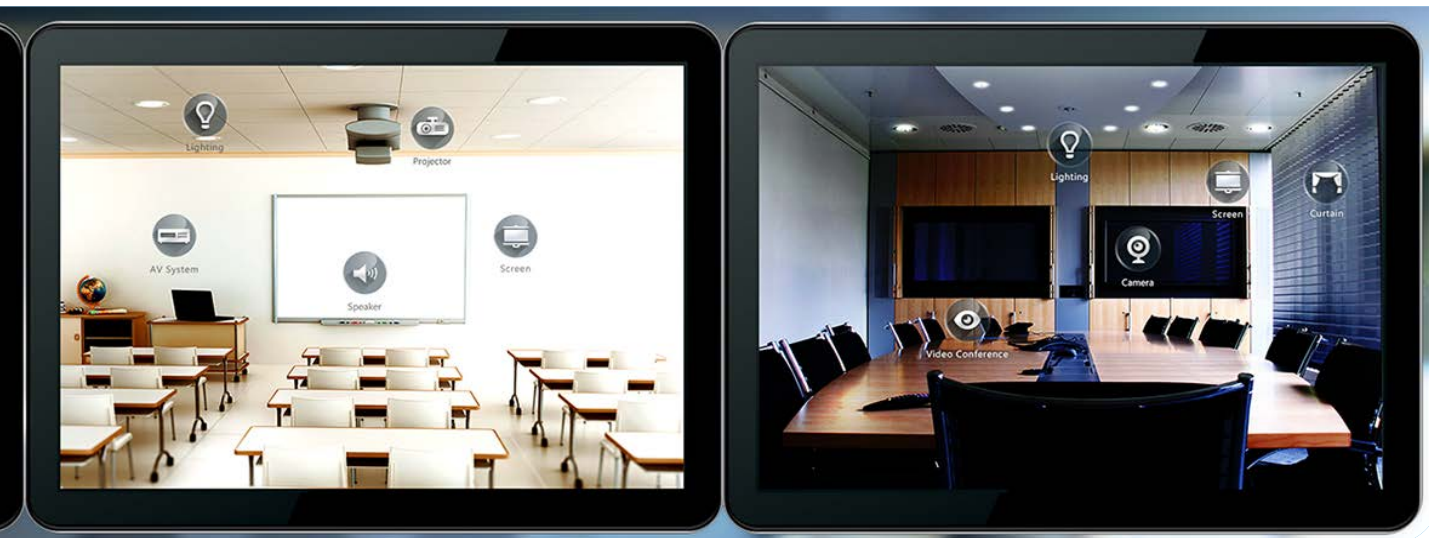
## Recommended Products

Control Box	VK2100	VK1100
Serial	6	2
IR / Serial	4	2
Relay	4	4
Digital I/O	4	N/A
Ethernet	•	•
USB	•	•
DC 12V Power Supply	2A	1A
IR Learning	•	•
Max. Devices Connected via Ethernet	25	25
Max. No. of Connections* (Viewers & Keypad)	10	10
Size	1U	1/2 Rack Wide

Note: \*Contact your local sales representative if you require more than 10 connections.

Expansion Box	VK224	VK236	VK248
Interface	Serial	IR/RS232	Relay
Number of Ports	4	6	8
POE	•	•	•
Max. No. of Expansion Boxes per Control Box	8	8	8

Keypad	VK108US	VK112EU
Type	US, 1 Gang	EU, 2 Gang
No. of Buttons	4-8	6-12
Layout Combinations	14	125
Power Supply	DC 5V or PoE	DC 5V or PoE
Max. No. of Keypads per Control Box	8	8



- **Intelligent Control**

The ATEN Control system makes the interactions between your devices smarter. Pre-programmed actions/triggers can provide a fully automated series of advanced operations, so your devices respond to each other intelligently, making your whole solution smarter and smoother.

- **Optimized Performance**

The ATEN Control System has optimized the communication protocols that not only maintain near-zero response times but also feature encryption for extra protection.

- **Simplified Setup**

No matter how large the room or how complicated the hardware, the ATEN Control System can be deployed in 3 easy steps: Connect all hardware, Configure system settings and Control via mobile app. Through an intuitive and straightforward GUI, the process for setting up the control pattern for every room is simple and customizable, and does not require any previous programming knowledge.

- **Effortless Expandability**

With a range of expansion boxes available, the ATEN Control System installation can grow to accommodate additional Serial, Relay and IR devices. Furthermore, the ATEN library comprises 10,000+ device drivers and can also grow by adding new devices to the existing database, making it expandable and easily manageable, whatever the size or scope of the installation.

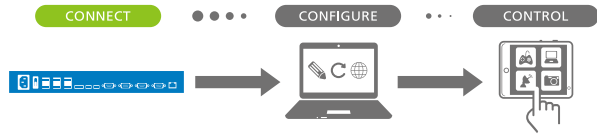
- **User-centered Convenience**

An advanced, single-software solution creates an intuitive control interface for any mobile device, while specific needs are conveniently tailorable by selecting from an extensive library of action options and design elements to customize the control panel. In addition, the ATEN Control System provides various support services, including device driver downloads, database generation and upgrade tools, to help system integrators build-up easy-to-control environments with less effort.

- **On-the-Go Control**

Intuitive System control can start with one room and scale up to multiple rooms in the same area or across regions. Toggling between profiles on an iOS, Android or Windows mobile devices facilitates control of different rooms with simple point-n-tap operations. In addition, multiple mobile devices can be authorized with access to control the same room or multiple rooms, providing you with flexible enhanced mobility and complete security.

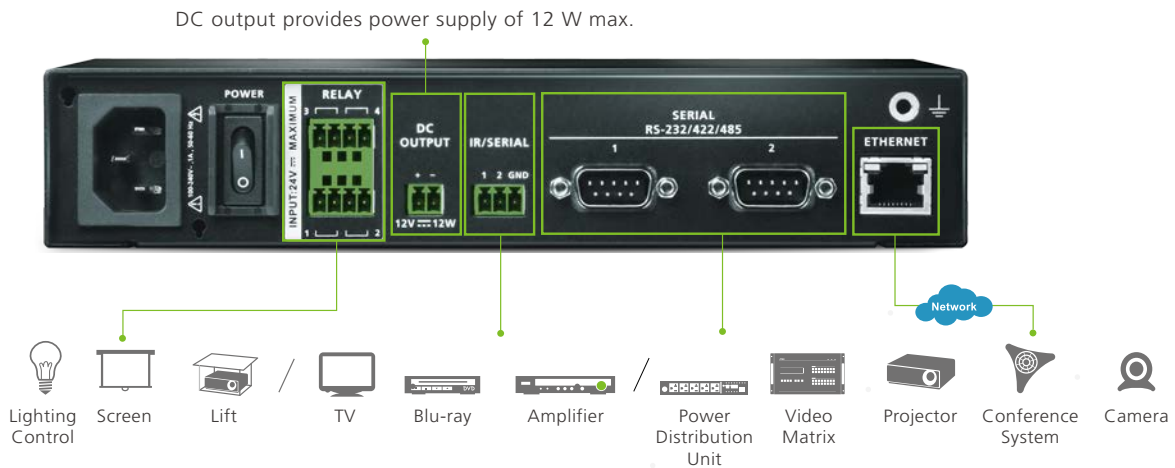
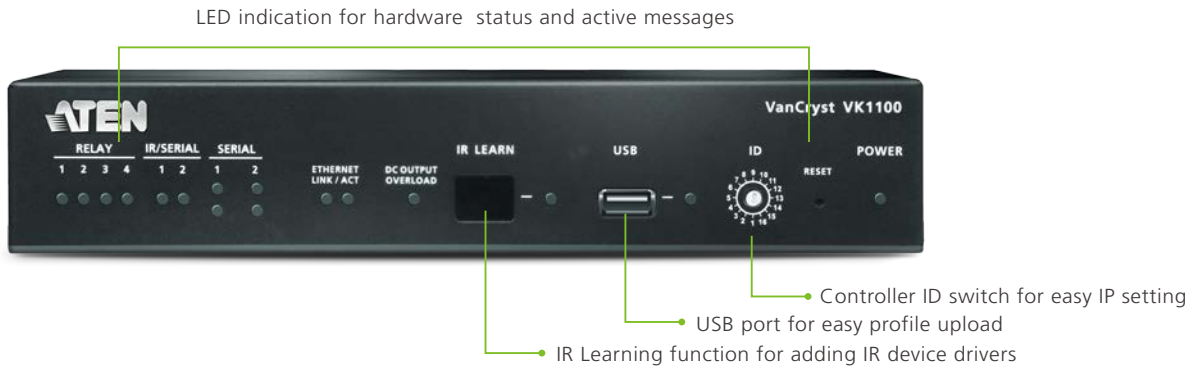
# VK1100 Compact Control Box



## Features

- Supports various interfaces:
  - 2 x Serial ports
  - 2 x IR / RS-232 ports
  - 4 x Relay channels
  - 1 x Ethernet port
- Supports project file backup\*
- 12 VDC output for power supply connection
- 1 x USB port for easy profile upload
- IR Learning function for adding IR device drivers
- Easily configure system settings via web GUI
- LED indication for hardware status and active messages
- Supports SSH communication for data monitoring\*\*

Note: \*Each ATEN Control Box is capable of backing up one project file.  
 \*\*The SSH protocol can be used for monitoring the receiving/transmission data of the Control Box.



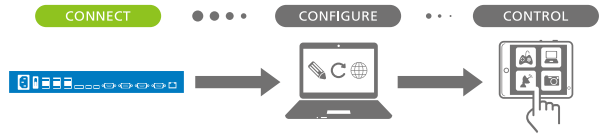
## Specifications

Function	VK1100
<b>Interfaces</b>	
Serial	<ul style="list-style-type: none"> <li>• 2 x Programmable Bi-directional RS-232/422/485 Ports (2 x DB9 Male Connectors, configurable via pin assignments);</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd;</li> <li>– Flow Control: None (default) RTS/CTS</li> </ul>
IR/Serial	<ul style="list-style-type: none"> <li>• 2 x Programmable IR / Uni-directional RS-232 Ports (1 x 3-Pole Terminal Block Connector);</li> </ul> <p><b>IR:</b></p> <ul style="list-style-type: none"> <li>– Carrier Frequency: 10KHz~455KHz;</li> </ul> <p><b>Serial:</b></p> <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul>
Relay	<ul style="list-style-type: none"> <li>• 4 x Relay Channel (2 x 4-Pole Terminal Block Connectors);</li> <li>• Normally open, isolated relays;</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>
VDC	<ul style="list-style-type: none"> <li>• 1 x 12 VDC Output Port (1 x 2-Pole Terminal Block Connector);</li> <li>• Power Supply: 12 VDC, 1A Max</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0</li> </ul>
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Power	1 x On/Off Switch
<b>IR Learning</b>	1 x IR Receiver LED
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>USB</b>	1 x USB Type A
<b>Power</b>	
Consumption	20 W
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
<b>Environmental</b>	
Operating Temperature	0° – 50°C
Storage Temperature	-20° – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	1.19 kg (2.26 lb)
Dimensions (L x W x H)	21.50 x 16.23 x 4.18 cm (8.46 x 6.39 x 1.65 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x Power Cord; 4x Terminal Blocks

## Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	12-2
Single Rack Mount Kit	2X-031G	12-2
4-Port Serial Expansion Box	VK224	1-7
6-Port IR/Serial Expansion Box	VK236	1-8
8-Channel Relay Expansion Box	VK248	1-9
8-button Keypad (US, 1 Gang)	VK108US	1-13
12-button Keypad (EU, 2 Gang)	VK112EU	1-14
DB9-F to RJ45-F Adaptor	SA0141	Altusen 7-9
RJ45-F to DB9-M Adaptor	SA0145	Altusen 7-9

# VK2100 Control Box



1  
ATEN Control System



## Features

- Supports various interfaces:
  - 6 x Serial ports
  - 4 x IR / RS-232 ports
  - 4 x Relay channels
  - 4 x I/O channels
  - 1 x Ethernet port
- Supports project file backup\*
- 4 x 12 VDC outputs for power supply connections
- 1 x USB port for easy profile upload
- IR Learning function for adding IR device drivers
- Easily configure system settings via web GUI
- LED indication for hardware status and active messages
- Supports SSH communication for data monitoring\*\*
- Rack-mountable (1U)

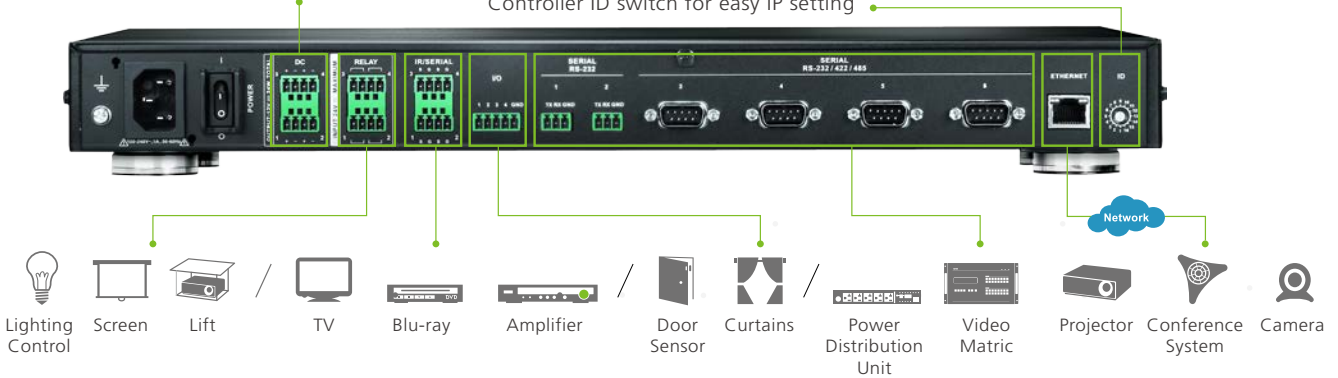
Note: \*Each ATEN Control Box is capable of backing up one project file.  
 \*\*The SSH protocol can be used for monitoring the receiving/transmission data of the Control.

LED indication for hardware status and active messages



4 DC outputs provide power supply of 24 W max.

Controller ID switch for easy IP setting



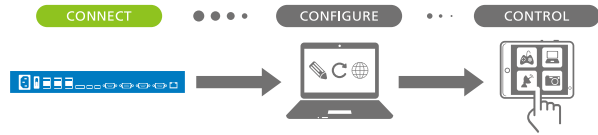
## Specifications

Function	VK2100
<b>Interfaces</b>	
Serial	<ul style="list-style-type: none"> <li>• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments);               <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd;</li> <li>– Flow Control: None (default) RTS/CTS</li> </ul> </li> <li>• 2 x Bi-directional RS-232 Ports (2 x 3-Pole Terminal Block Connectors);               <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), even or odd</li> </ul> </li> </ul>
IR/Serial	<ul style="list-style-type: none"> <li>• 4 x Programmable IR / Uni-directional RS-232 Ports (2 x 4-Pole Terminal Block Connectors);               <ul style="list-style-type: none"> <li>IR: TTL level (0 to 5 V)</li> <li>– Carrier Frequency: 10KHz~455KHz;</li> <li>Serial: Uni-directional RS-232 (+ - 5 V)</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul> </li> </ul>
I/O	<ul style="list-style-type: none"> <li>• 4 x Programmable Digital Input / Output Channels (1 x 5-Pole Terminal Block Connector);               <ul style="list-style-type: none"> <li>Digital Output: 250 mA sink from 12 VDC</li> <li>Digital Input:                   <ul style="list-style-type: none"> <li>– VDC Mode</li> <li>Input Voltage Range: 0 to 24 VDC; Programmable Range: 1 to 24 VDC;</li> <li>– Dry Contact Mode</li> <li>Pull-up 2k ohms to + 12 VDC</li> </ul> </li> </ul> </li> </ul>
Relay	<ul style="list-style-type: none"> <li>• 4 x Relay Channels (2 x 4-Pole Terminal Block Connector);</li> <li>• Normally open, isolated Relays;</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>
VDC	<ul style="list-style-type: none"> <li>• 4 x 12 VDC Output Ports (2 x 4-Pole Terminal Block Connectors);</li> <li>• Power Supply: 12 VDC, 2A Max (shared by 4 ports)</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:               <ul style="list-style-type: none"> <li>IP: 192.168.0.60; Subnet Mask: 255.255.255.0</li> </ul> </li> </ul>
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Power	1 x On/Off Switch
<b>IR Learning</b>	1 x IR Receiver LED
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>USB</b>	1 x USB Type A
<b>Power</b>	
Consumption	40 Watt
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
<b>Environmental</b>	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.64 kg ( 5.81 lb )
Dimensions (L x W x H)	43.72 x 16.32 x 4.40 cm (17.21 x 6.43 x 1.73 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 9x Terminal Blocks; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	12-2
4-Port Serial Expansion Box	VK224	1-7
6-Port IR/Serial Expansion Box	VK236	1-8
8-Channel Relay Expansion Box	VK248	1-9
8-button Keypad (US, 1 Gang)	VK108US	1-13
12-button Keypad (US, 1 Gang)	VK112EU	1-14
DB9-F to RJ45-F Adaptor	SA0141	Altusen 7-9
RJ45-F to DB9-M Adaptor	SA0145	Altusen 7-9

# VK224 4-Port Serial Expansion Box



Front



Rear



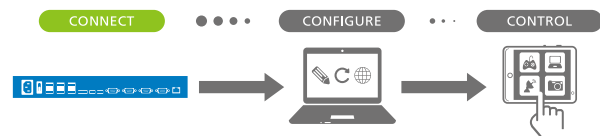
## Features

- Provides 4 bi-directional RS-232/422/485 serial ports to expand the ATEN Control System
- Up to eight VK224 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK224 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

## Specifications

Function	VK224																		
<b>Interfaces</b>																			
Serial	<ul style="list-style-type: none"> <li>• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments);                             <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd;</li> <li>– Flow Control: None (default) RTS/CTS</li> </ul> </li> </ul> <table border="1"> <thead> <tr> <th>RS-232</th> <th>RS-422</th> <th>RS-485</th> </tr> </thead> <tbody> <tr> <td>Pin2: RX</td> <td>Pin 1:RX-</td> <td>Pin3:D+</td> </tr> <tr> <td>Pin3: TX</td> <td>Pin 2: RX+</td> <td>Pin 4:D-</td> </tr> <tr> <td>Pin 5: GND</td> <td>Pin 3: TX+</td> <td></td> </tr> <tr> <td>Pin 7: RTS</td> <td>Pin 4: TX-</td> <td></td> </tr> <tr> <td>Pin 8: CTS</td> <td>Pin 5: GND</td> <td></td> </tr> </tbody> </table>	RS-232	RS-422	RS-485	Pin2: RX	Pin 1:RX-	Pin3:D+	Pin3: TX	Pin 2: RX+	Pin 4:D-	Pin 5: GND	Pin 3: TX+		Pin 7: RTS	Pin 4: TX-		Pin 8: CTS	Pin 5: GND	
RS-232	RS-422	RS-485																	
Pin2: RX	Pin 1:RX-	Pin3:D+																	
Pin3: TX	Pin 2: RX+	Pin 4:D-																	
Pin 5: GND	Pin 3: TX+																		
Pin 7: RTS	Pin 4: TX-																		
Pin 8: CTS	Pin 5: GND																		
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0</li> </ul>																		
<b>Switches</b>																			
Controller ID	1 x 16-segment Switch																		
Expander ID	1 x 8-segment Switch																		
<b>Reset Button</b>	1 x Semi-recessed Pushbutton																		
<b>USB</b>	1 x USB Type A (Firmware upgrade only)																		
<b>Power</b>																			
Consumption	5 VDC, 7.5 W (adapter) ; 48 VDC, 9.5 W (PoE, PoE 802.3 AF/AT compatibility)																		
<b>Environmental</b>																			
Operating Temperature	0 – 50°C																		
Storage Temperature	-20 – 60°C																		
Humidity	0 - 80% RH, Non-Condensing																		
<b>Physical Properties</b>																			
Housing	Metal																		
Weight	0.45 kg ( 0.99 lb )																		
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)																		
<b>Carton Lot</b>	5 pcs																		
<b>Included Accessories</b>	1x Power Adapter; 1x Mounting Kit																		

## VK236 6-Port IR/Serial Expansion Box



Front



Rear



### Features

- Provides 6 IR / RS-232 ports to expand the ATEN Control System
- Up to eight VK236 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK236 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

1

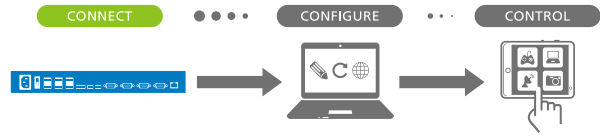
ATEN Control System

### Specifications

Function	VK236
<b>Interfaces</b>	
Serial	<ul style="list-style-type: none"> <li>• 6 x Programmable IR / Uni-directional RS-232 Ports</li> <li>6 x 2-Pole Terminal Block Connectors</li> <li>IR: TTL level (0 to 5 V)                             <ul style="list-style-type: none"> <li>– Carrier Frequency: 10KHz~455KHz;</li> </ul> </li> <li>Serial: Uni-directional RS-232 ( + - 5 V)                             <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul> </li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:                             <ul style="list-style-type: none"> <li>IP: 192.168.0.60</li> <li>Subnet Mask: 255.255.255.0</li> </ul> </li> </ul>
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>USB</b>	1 x USB Type A (Firmware upgrade only)
<b>Power</b>	
Consumption	5VDC, 8W (adapter); 48 VDC, 10.5W (PoE, PoE 802.3 AF/AT compatibility)
<b>Environmental</b>	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.45 kg ( 0.99 lb )
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 6x Terminal Blocks; 1x Mounting Kit



# VK248 8-Channel Relay Expansion Box



Front



Rear



## Features

- Provides 8 relay channels to expand the ATEN Control System
- Up to eight VK248 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK248 with a controller to instantly configure the network settings
- Provides DC power to power an AC relay module or other device
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB or Web interface

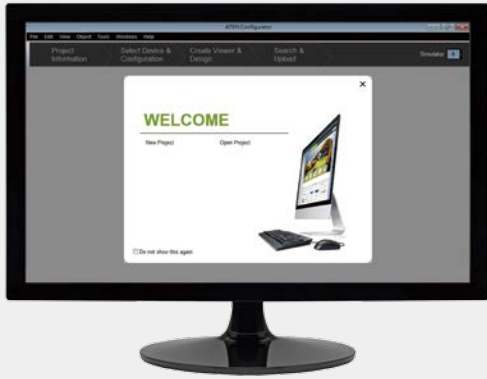
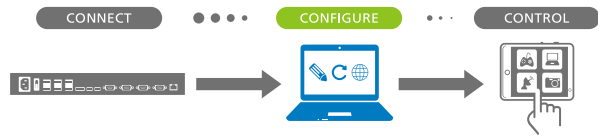
## Specifications

Function	VK248
<b>Interfaces</b>	
Relay	<ul style="list-style-type: none"> <li>• 8 normally open relays (8 x 2-pole terminal blocks)</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0</li> </ul>
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>USB</b>	1 x USB Type A (Firmware upgrade only)
<b>Power</b>	
Consumption	5 VDC, 10 W (Adapter); 48 VDC, 13 W (PoE, PoE 802.3 AF/AT compatibility)
Output	12 VDC, 300 mA
<b>Environmental</b>	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.65 kg ( 1.43 lb )
Dimensions (L x W x H)	20.00 x 7.58 x 4.20 cm (7.87 x 2.98 x 1.65 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 9x Terminal Blocks; 1x Mounting Kit

Expandable Solution > with VK2100 Control Box and Expansion Boxes (VK224+VK236+VK248+VK10805)



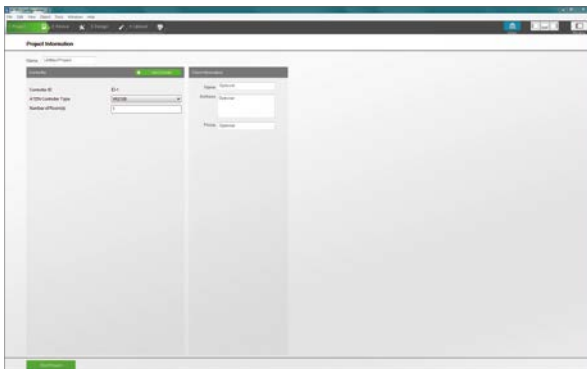
# Configurator Software



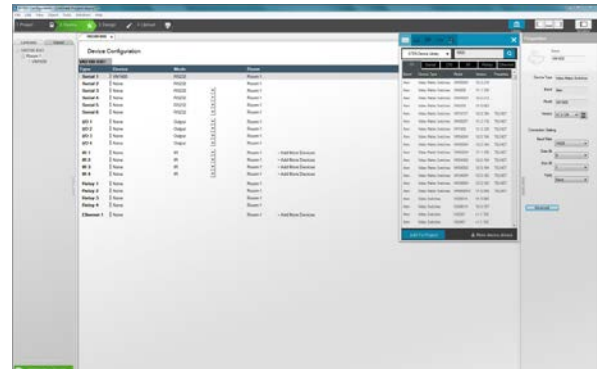
## Features

- Simple profile configuration setup via intuitive GUI
- Customizable GUI design and control operations
- Built-in Database Generator Software to create and manage device drivers
- Built-in ATEN Library comprising 10,000+ device drivers and complete ATEN Pro A/V product drivers
- Test tool to verify commands in action before uploading the profile to the Control Box
- Simulator to simulate and review the customized GUI before uploading the profile to the Control Box
- Built-in ATEN graphic templates for easy GUI design

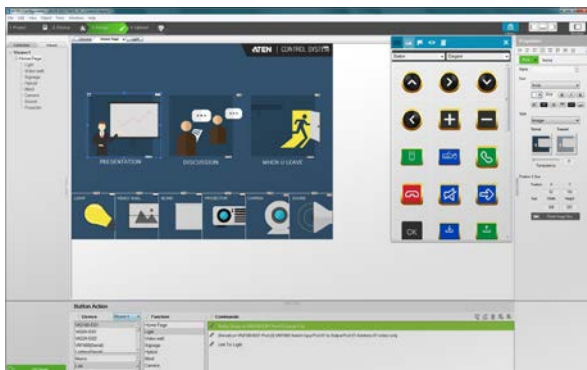
### 1 Start Project



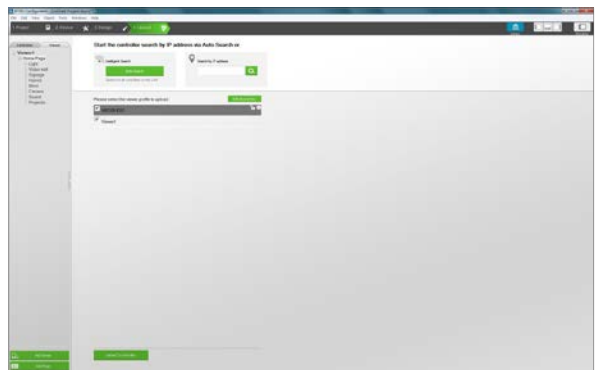
### 2 Configure Device

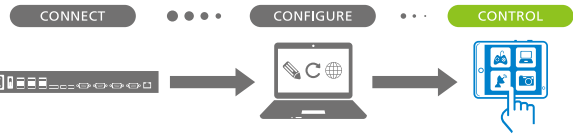


### 3 Create Viewer



### 4 Upload Profile

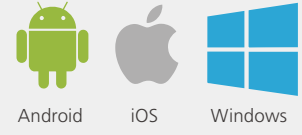




## Mobile App



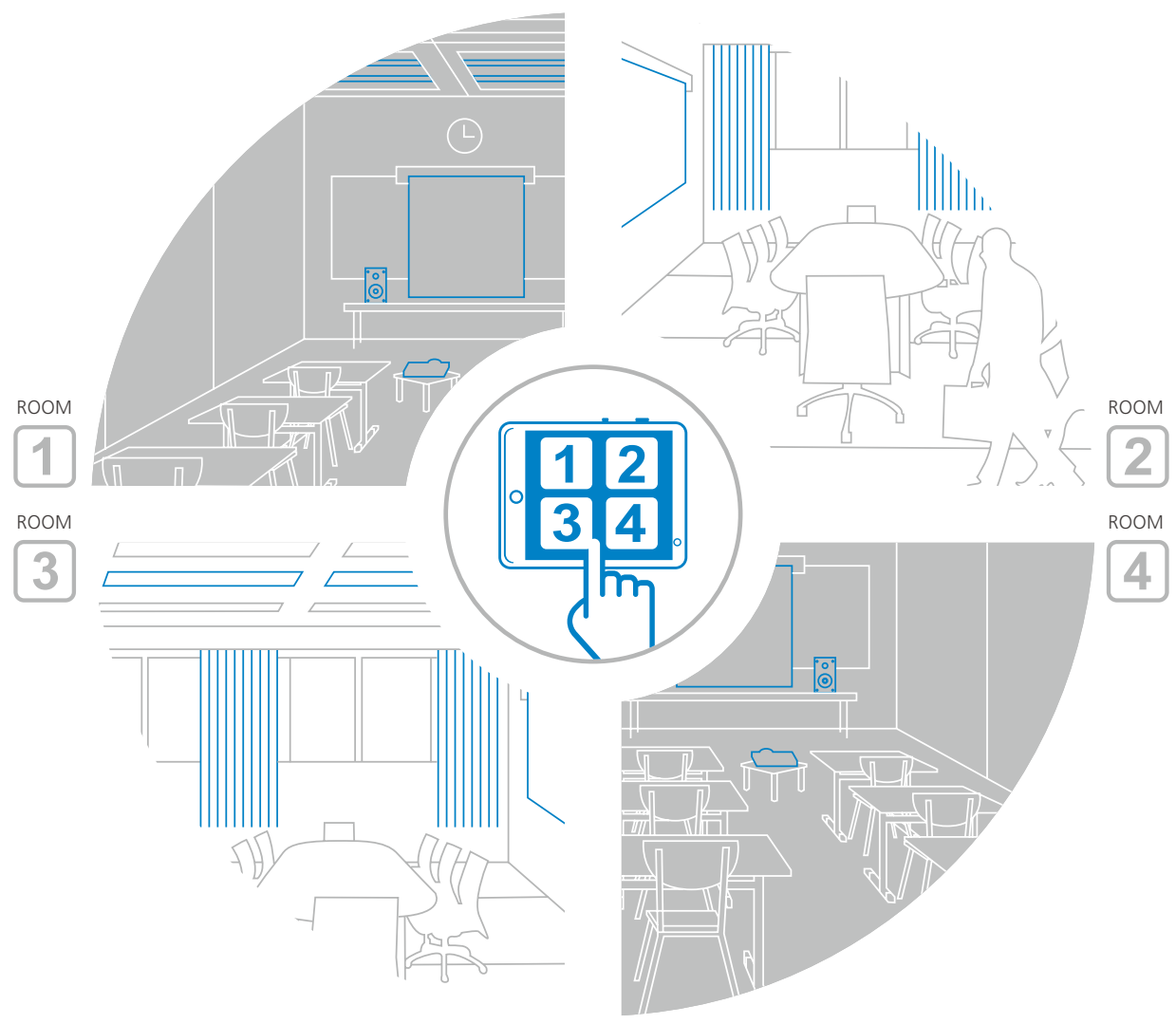
### ATEN Control System Mobile App



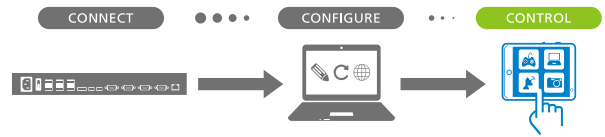
### Features

- Allows administrators to centrally control multiple rooms via different profiles on a single mobile device
- Restricted user access to profiles via password authentication
- Synchronization of system controls amongst multiple mobile devices

## Multi-Room Control > Central Administration



# VK108US 8-Button Keypad (US, 1 Gang)



## Front w / Faceplate



Front



Side



Rear



## Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box
- Versatile modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies with Power over Ethernet (PoE) and DC power
- Button engraving service

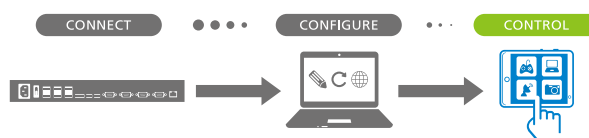
## Specifications

Function	VK108US
<b>Interfaces</b>	
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0</li> </ul>
Keypad Layout	4~8 buttons customizable in 14 keypad layouts
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>Power</b>	
Consumption	5 VDC, 1.25 W (adapter) ; 48VDC, 1.58 W (PoE, PoE 802.3 AF/AT compatibility)
<b>Environmental</b>	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	0.13 kg (0.29 lb)
Dimensions (L x W x H)	11.63 x 7.06 x 3.89 cm (4.58 x 2.78 x 1.53 in.)
Faceplate Dimensions (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Button Pack; 1x Terminal Block; 1x Faceplate

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	11-1
Low Skew Cat 5e Cable	2L-2801	11-3

## VK112EU 12-Button Keypad (EU, 2 Gang)



Front



Rear



Side



### Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box
- Versatile modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies with Power over Ethernet (PoE) and DC power
- Button engraving service

1

ATEN Control System

## Specifications

Function	VK112EU
<b>Interfaces</b>	
Ethernet	<ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ICMP, TCP/IP, DHCP, HTTPS</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0</li> </ul>
Keypad Layout	6~12 buttons customizable in 125 keypad layouts
<b>Switches</b>	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
<b>Reset Button</b>	1 x Semi-recessed Pushbutton
<b>Power</b>	
Consumption	5 VDC, 1.25 W (adapter) ; 48VDC, 1.58 W (PoE, PoE 802.3 AF/AT compatibility)
<b>Environmental</b>	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	0.14 kg (0.30 lb)
Dimensions (L x W x H)	83.20 x 14.76 x 3.87 cm (32.76 x 5.81 x 1.52 lb)
Faceplate Dimensions (L x W x H)	86.20 x 15.12 x 0.92 cm (33.94 x 5.95 x 0.36 lb)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Button Pack; 1x Terminal Block; 1x Faceplate

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	11-1
Low Skew Cat 5e Cable	2L-2801	11-3

# Presentation Switch Series

Efficient meetings demand efficient systems. What attendees are looking for is to walk into a meeting space, connect their laptops and get down to business.

ATEN Presentation Switches merge independent digital, analog, HDBaseT and streaming signals into one enclosure and enable signal transmission from multiple sources to multiple outputs. ATEN Presentation Switches are designed to eliminate the need for complex control. Users can quickly identify and switch to target content through an intuitive preview interface, while the auto switching function conveniently detects and automatically switches to a new source as soon as it is connected.

ATEN Presentation Switches are designed to simplify system integration and eliminate clutter and operation complexity in any sized commercial environment, such as meeting rooms, board rooms, classrooms, training rooms or other presentation settings. All models can be mounted in a rack or lectern, or installed under a table or desk for easy and trouble-free integration.



Model	VP1920	VP2730
Max Resolutions	HDMI/DP: Up to 4K@60Hz (4:2:0); 4K@30Hz (4:4:4) VGA/Analog: Up to 1920 x 1200@60Hz	HDMI/DP: Up to 1080p@60Hz VGA/Analog: Up to 1920 x 1200@60Hz
HDCP	HDCP 1.4	HDCP 1.4
<b>Inputs</b>		
HDMI	6	5
DisplayPort	1	1
VGA	1	1
Component/Composite	1	N/A
<b>Outputs</b>		
HDMI	2	2
HDBaseT	N/A	1
<b>Features</b>		
Keyboard/Mouse PC Control	•	N/A
Streaming In/Out	N/A	•
Seamless Switch	Fast Switching	•
Scaling	N/A	•
Preview	•	•
Picture in Picture (PIP)	•	N/A
Multiview	N/A	•
Auto Switching	•	•
Audio embedding/de-embedding	•	•



### **Streaming In/Out Facilitates Distance-free Collaboration**

ATEN Presentation Switches not only allow streaming video content in to facilitate sharing and collaboration, but also out to broadcast selected video content to multiple remote locations at high quality resolutions without distance limitations. This can enhance interaction in brainstorming, global team meeting and group study environments.

More so, the host side has the capability to centrally control all presentations and decide which content is displayed. This is especially suitable for educational environments, allowing instructors to have complete control of the classroom display.

- **Built-in Keyboard/Mouse Control for PCs**

By integrating keyboard and mouse PC control, the VP1920 can connect up to two PCs and do more than any other presentation switch in almost any environment. For example:

1. Initiate meetings with ease: Start a simple meeting with just a single flash drive. Use a set of keyboard/mouse to access the files and present, edit or whatever you want via the VP1920.
2. Fluid, professional presentations: Use one set of keyboard/mouse to prepare the next broadcasting content on one output display while another is still doing the presentation.
3. Interactive education: Connect an eboard and access the content including PowerPoint presentations, videos, e-learning or distance learning for an interactive learning experience in the classroom

- **Smooth and Seamlessly Switching**

ATEN Presentation Switches output continuous video content, perform real-time switching and ensure stable signal transmissions. They are capable of seamlessly switching among input sources.

- **Auto Switching and Detection**

Automatically detects and switches to a new source as soon as it is connected for time-saving and convenience in busy multi-source, multi-user environments such as conference rooms.

- **Various Display Modes**

Have a productive meeting in a professional style by effortlessly switching among sources and different display modes, such as PIP (Picture in Picture) Mode, Matrix Mode, Mirror Mode or Multiviewer.

Note: The features highlighted above are not available in all products. Please refer to each product page for more details.



# VP1920 9 x 2 Presentation Switch **PRO**



Presentation Switch Series

Front



Rear

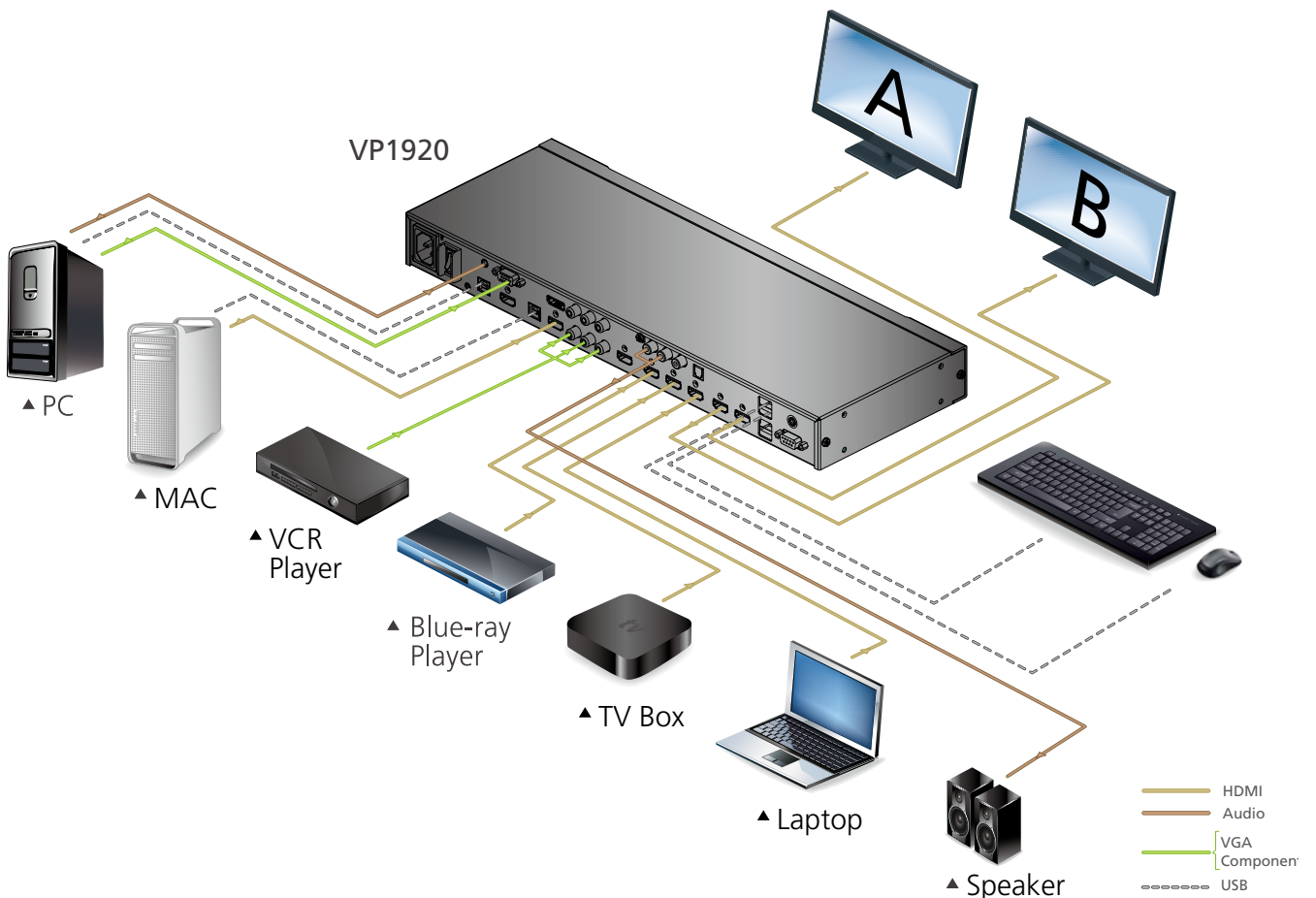


## Features

- 9 input sources (3 HDMI ports and 3 combo ports each with 2 interfaces) for selection and 2 HDMI output displays
- 3 combo ports with auto switching (HDMI/VGA; HDMI/DisplayPort; HDMI/AV/YPbPr)
- Multiple control via front-panel pushbuttons, RS-232, OSD, and IR remote
- Superior video quality up to 4K @ 60Hz (4:2:0) / 4K @ 30Hz (4:4:4) (HDMI/DP)
- USB keyboard/mouse ports enable control over connected computers
- 2-port USB 2.0 hub built-in - each port can be independently designated to a computer source to connect USB devices
- Independent switching of the keyboard/mouse, USB peripherals, and audio focus
- **EDID Expert™** - automatically selects the optimum EDID settings for smooth power-up, high-quality display and the best video resolution across connected devices
- **Source preview** - quickly identify and switch to the target content
- **Selectable display modes (Matrix, Mirror, or PiP) for fast switching among sources**
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compliant
- VGA port supports universal analog input formats (RGBHV/RGBs/ YCbCr/YPbPr)
- HDMI/DP audio signals can be extracted to digital/analog signals for optical, coaxial, or stereo audio output
- Supports stand-by mode for power saving and fast waking up
- Rack-mountable (1U design)



## Setup > VP1920



## Specifications

Function	VP1920
<b>Video Input</b>	
Interfaces	6 x HDMI Type A Female (Black) 1 x DP Female (Black) 1 x HDB-15 Female (Blue) 1 x Component (3 x RCA Female, Blue/Green/Red) 1 x Composite (1 x RCA Female, Yellow)
<b>Video Output</b>	
Interfaces	2 x HDMI Type A Female (Black)
Max. Distance	Up to 15 m
<b>Video</b>	
Compliance	HDMI (3D, Deep Color, 4K); HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	HDMI/DP: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) VGA/Analog: Up to 1920x1200 @ 60Hz
<b>Audio</b>	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green) Composite/Component Audio: 2 x RCA Female (Red/White)
Output	Optical Audio: 1 x Toslink (Black) Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (Red/White)
<b>Connectors</b>	
Computers	2 x USB Type B Female (White)
Console Ports	Keyboard/Mouse: 2 x USB Type A Female (White) Device: 2 x USB Type A Female (White)
<b>Control</b>	
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
<b>EDID Settings</b>	EDID Mode: Default / Port 1 / Remix
<b>Power</b>	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	120VAC, 7.3W; 230VAC, 7.3W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.36 kg (5.20 lb)
Dimensions (L x W x H)	43.72 x 16.36 x 4.40 cm (17.21 x 6.44 x 1.73 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Receiver; 1x IR Remote Control; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
DisplayPort Cable*	2L-7D02DP (1.8 m)	11-6
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
IR Remote Control	2XRT-0109G	12-2
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2

\*Cables with different lengths are available, please refer to 11-5 and 11-6.

# VP2730 7 x 3 Presentation Switch **PRO**



RS-232 Control

IR Remote Control

EDID

Scaler

Seamless Switch

Auto Switching

RGB

Streaming

Source Preview

2

Presentation Switch Series

Front



Rear

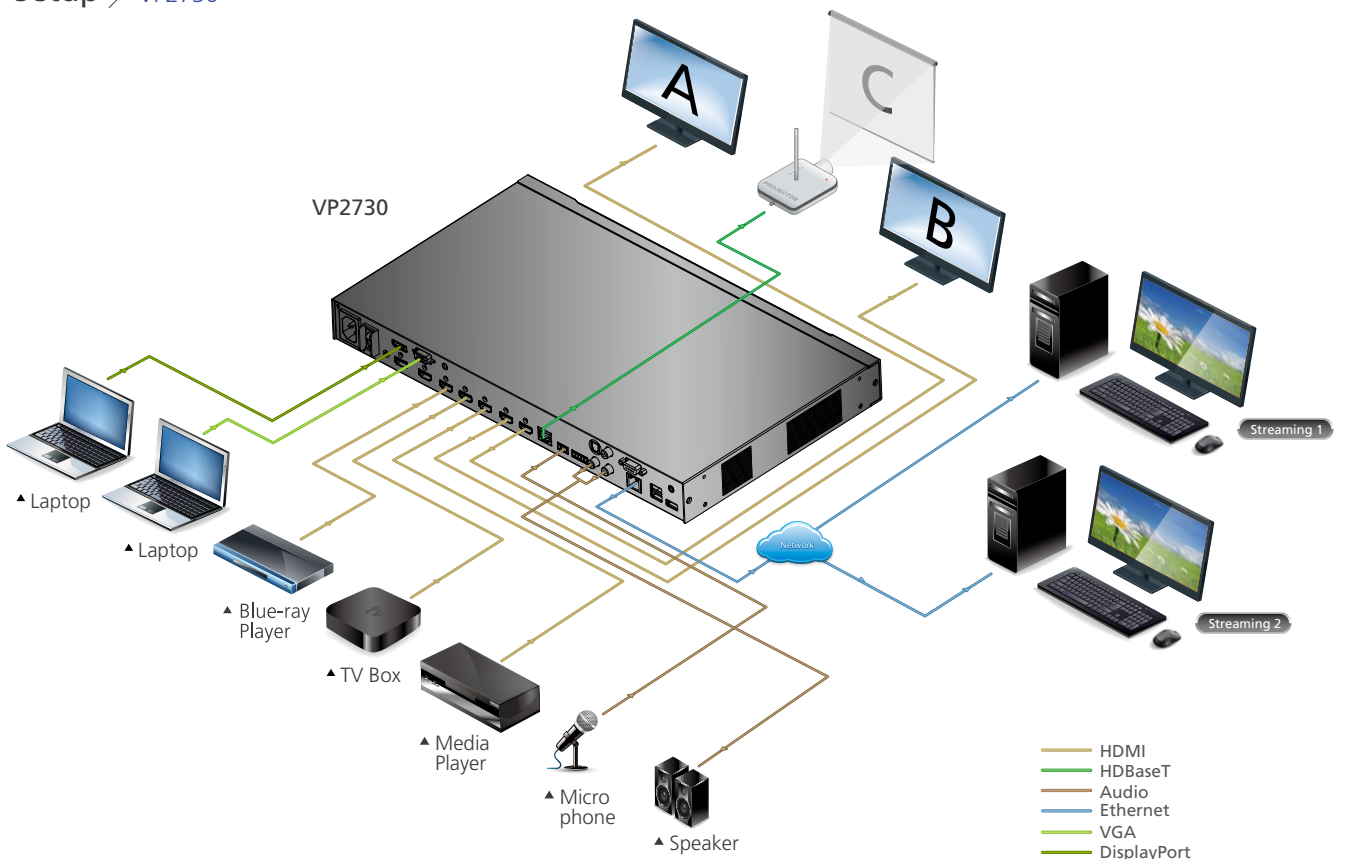


## Features

- 7 input sources (3 HDMI ports and 2 combo ports each with 2 interfaces) for selection and 3 output displays
- 2 combo ports with auto switching (HDMI/DisplayPort; HDMI/VGA)
- Multiple control via front-panel pushbuttons, OSD, RS-232, IR remote, and Ethernet (Telnet/WebRTC)
- **Friendly OSD for easy setup and adjustment**
- Superior video quality up to 1080p @ 60 Hz (HDMI/DP) / 1920 x 1200 @ 60 Hz (VGA/Analog)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time video switching and distribution
- **Go Live** – broadcasts HD video streaming to multiple remote locations
- **Streaming in** – allows remote locations to stream in videos for distance-free sharing
- **Scaler** – optimize output video resolutions
- **EDID Expert™** – automatically selects the optimum EDID settings for smooth power-up, high-quality display and the best video resolution across connected devices
- **Multiview** – source preview and selectable display modes with up to 6 sources shown in one screen
- VGA port supports universal analog input formats (RGBHV/RGBs/YCbCr/YPbPr)
- HDMI/DP audio signals can be extracted to digital/analog audio; Mic/Line audio can be embedded to HDMI signals
- Multi-format digital/analog audio output (coaxial, TOSLINK, and RCA) up to 5.1 channel (for sources in by-pass mode only)
- Firmware upgrade or image capture through USB ports
- Supports stand-by mode for power saving and fast waking up
- Rack-mountable (1U design)

A/V In HDMI	A/V Out HDMI	Video In DP	Video In HDB-15
A/V Out HDBaseT	Audio In Microphone	Audio In Balanced	Audio In Stereo
Audio Out Toslink	Audio Out RCA	Audio Out Coaxial	Stereo Audio

## Setup > VP2730



## Specifications

Function	VP2730
<b>Video Input</b>	
Interfaces	5 x HDMI Type A Female (Black) 1 x DP Female (Black) 1 x HDB-15 Female (Blue)
<b>Video Output</b>	
Interfaces	2 x HDMI Type A Female (Black) HDBaseT: 1 x RJ-45 Female (Silver)
Max. Distance	HDMI: Up to 15m HDBaseT: Up to 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat 6)
<b>Video</b>	
Compliance	HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	HDMI/DP: Up to 1080p @ 60Hz VGA/Analog: Up to 1920 x 1200 @ 60Hz
<b>Audio</b>	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green) Balance Audio: 1 x Captive Screw Connector, 5-pole Microphone: 1 x Captive Screw Connector, 3-pole
Output	Optical Audio: 1 x Toslink (Black) Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White/Red)
<b>Connectors</b>	
Console Ports	USB 2.0: 2 x USB Type A Female (White) USB 3.0: 1 x USB Type A Female (Blue)
<b>Control</b>	
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
<b>EDID Settings</b>	EDID Mode: Default / Port 1 / Remix
<b>Power</b>	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	TBD
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	3.70 kg (8.15 lb)
Dimensions (L x W x H)	43.24 x 26.28 x 4.40 cm (17.02 x 10.35 x 1.73 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Receiver; 1x IR Remote Control; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
DisplayPort Cable*	2L-7D02DP (1.8 m)	11-6
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
IR Remote Control	2XRT-0110G	12-2
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2
HDBaseT Cat 6 Cable	2L-2910	11-1

\*Cables with different lengths are available, please refer to 11-5 and 11-6.

# Modular Matrix Solution Series

- VM1600 / VM3200 - Modular Matrix Switch
- VM7514 / VM8514 - HDBaseT Input / Output Board
- VM7404 - 3G-SDI Input Board
- VM7104 - VGA Input Board
- VM7814 / VM8814 - 4K HDMI Input / Output Board
- VM7804 / VM8804 - HDMI Input / Output Board
- VM7604 / VM8604 - DVI Input / Output Board

The ATEN Modular Matrix Solution Series comprises the VM1600/VM3200 Modular Matrix Switch in tandem with a range of hot-swappable I/O boards. The solution offers real-time control and advanced access to manage 16/32 video sources and 16/32 displays simultaneously, through modular I/O boards in a single chassis. Empowered by ATEN Seamless Switch™ technology, the VM1600/VM3200 video matrix switches incorporate a speed-progressive video switching function and a unique scaler that integrates seamlessly with video wall systems.

The ATEN Modular Matrix Solution is easily expandable and ideal for large-scale A/V applications such as broadcasting stations, traffic and transportation-related control rooms, emergency service centers, and any application that requires customizable, high-speed AV signal routing.

Boasting a sophisticated and intuitive design to deliver the best audio/visual distribution and control, reliability and lowest maintenance costs, the solution also incorporates ATEN's Red Dot Award-winning GUI that can be accessed from anywhere over a network or the internet. Configuring a video wall or digital signage installation has never been easier.



Combination	Matrix Switch	VM1600 / VM3200					
	Input Board	VM7514	VM7814	VM7804	VM7604	VM7104	VM7404
	Output Board	VM8514	VM8814	VM8804	VM8604		
Interface		HDBaseT (RJ-45)	HDMI	HDMI	DVI	VGA	3G-SDI (BNC)
Max Video Resolution		4K@60 Hz (4:2:0); 4K@30 Hz (4:4:4)***	4K@60Hz (4:2:0);	1920 x 1080	1920 x 1200	1920 x 1200	SD: 625i (PAL) / 525i (NTSC) HD / 3G: Up to 1920 x 1080
Max Distance	Input	100 m***	5 m	5 m	5 m	1.8m	SD: 300 m HD: 150 m 3G: 100 m
	Output		15 m	15 m		N/A	
Audio		N/A	.*	.*	.*	.*	.*
Scaler Support		VM8514 + VE805R**	VM8814	VM8804	VM8604	N/A	N/A
Seamless Switch		VM8514 + VE805R**	VM8814	VM8804	VM8604	N/A	N/A
Video Wall		VM8514 + VE805R**	VM8814	VM8804	VM8604	N/A	N/A

Note : \* HDMI audio signals can be extracted to stereo audio. Stereo audio can be embedded to HDMI audio.

\*\* For the VM8514, the Seamless Switch™, scaler and video wall functions are only available when used with the VE805R/VE816R.

\*\*\* Supported resolution and distance may vary depending on which HDBaseT extender is used.



- **Modular Convenience**

The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make repair and replacement easier than ever, without any interruption to services.

- **Expandability**

The system is fully expandable with modular I/O boards that provide plug-n-play connectivity with an extensive line of analog and digital A/V equipment that offers great flexibility for customization and future-proofing.

- **Seamless Switch™**

ATEN Seamless Switch™ technology is powered by an exclusive seamless engine that features instantaneous video switching and 4K video. This high-performance engine processes A/V signals by executing EDID and HDCP handshakes simultaneously for both the source and display – scaling all inputs for the best output resolution. By setting the output clock timing and using a frame buffer to retain input signal information, you're always guaranteed the fastest output possible.

- **Video Wall Integration with Scaler**

A unique scaler utilizing ATEN FPGA technology is built in to the Modular Matrix Solution Series to unify various video input signals and render optimum output resolutions on displays with uncompromised precision.

- **Award-winning Web GUI**

Through a simple point-and-click web interface, you can preview the video sources in real-time and setup video wall easily with up to 64 profiles. A calendar-based scheduling function also allows you to queue and play connection profiles via a calendar view for a specific amount of time, reducing human operation costs and saving time.

- **HDBaseT™ Technology**

HDBaseT™ is a connectivity standard for home and commercial distribution of uncompressed HD multimedia content. The cornerstone of HDBaseT™ technology is that it combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 6/6a cable. HDBaseT™ is optimized for professional A/V installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters. ATEN's HDBaseT products are compatible with HDBaseT-certified projectors or displays manufactured by EPSON, NEC, Panasonic, Sony and many more.

- **Audio Separation**

The modular matrix switch provides the capability to separate audio signals from their corresponding video signals, including both HDMI-extracted audio and embedded stereo audio. This allows the audio and video signals from one source device to be switched and sent out to different destinations.

Note: 1. The features highlighted above are not available in all products. Please refer to each product page for more details.  
2. Product information is subject to change without prior notice.

# VM1600 16 x 16 Modular Matrix Switch



reddot award 2015  
winner interface design

RS-232/485/422  
Control

EDID

FPGA  
Design

Front



Rear



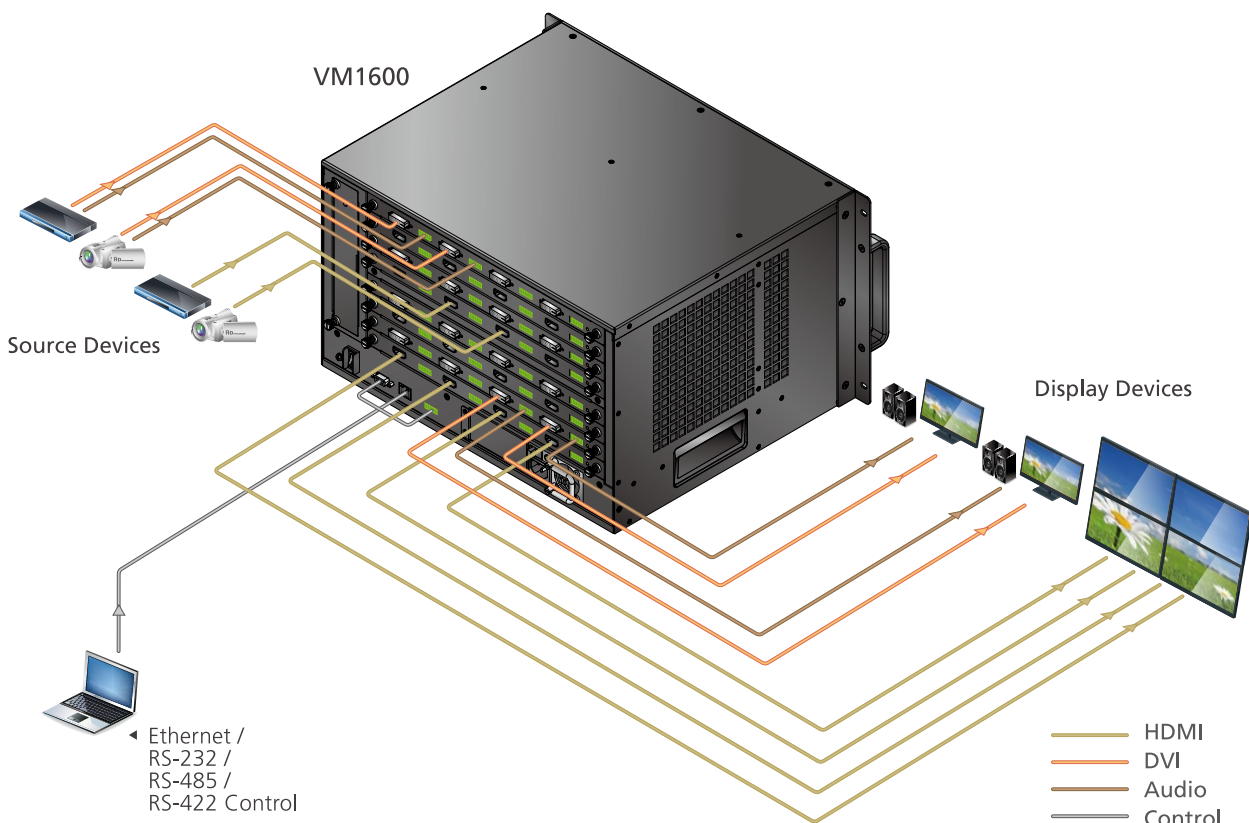
\*The I/O boards need to be purchased separately.

## Features

- 16 x 16 I/O connections via 4 x 4 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422, and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)\*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Hot-swappable design for easy integration of I/O boards, fan module, and power supplies
- Rack-mountable (6U design)

Note: \*The availability of these features depends on which I/O board is inserted.

## Setup > VM1600 + VM7804 / VM8804 + VM7604 / VM8604



## Specifications

Function	VM1600
<b>Board Input</b>	4 x Slots
<b>Board Output</b>	4 x Slots
<b>Video</b>	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per lane)
<b>Audio</b>	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Serial Control Pin Configurations:</b> Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd <b>Baud Rate and Protocol:</b> Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
<b>EDID Settings</b>	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
<b>Power</b>	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	378W (Max.) *A power module can be purchased for power redundancy.
<b>Fan</b>	Airflow: 60 cfm Operating Voltage: 10.8 - 13.8 VDC Operating Temp: -10 - 70°C
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	17.00 kg ( 37.44 lb )
Dimensions (L x W x H)	48.22 x 39.90 x 26.59 cm (18.98 x 15.71 x 10.47 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x Terminal Block connector; 1x Fan Module (pluggable); 1x Power Module (pluggable)

### Required I/O Board

Description	Part No. / Spec.	Page No.
HDBaseT Input / Output Board	VM7514 / VM8514	3-7
4K HDMI Input / Output Board	VM7814 / VM8814	3-9
HDMI Input / Output Board	VM7804 / VM8804	3-10
DVI Input / Output Board	VM7604 / VM8604	3-11
3G-SDI Input Board	VM7404	3-12
VGA Input Board	VM7104	3-13

### Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-026G (Short)	42-70 cm
2X-027G (Long)	68-105 cm

### Optional Accessories

VM1600 Power Module	VM-PWR400	VM1600 Fan Module	VM-FAN60
Input voltage	100 – 240 VAC	Airflow	60 cfm
Power Capacity	Max. Load 378W	Operating Voltage	10.8 - 13.8 VDC
Operating Temperature	0 - 40 °C	Operating Temperature	-10 - 70 °C



# VM3200 32 x 32 Modular Matrix Switch



RS-232/485/422 Control

EDID

FPGA Design

Streaming

Front



Rear



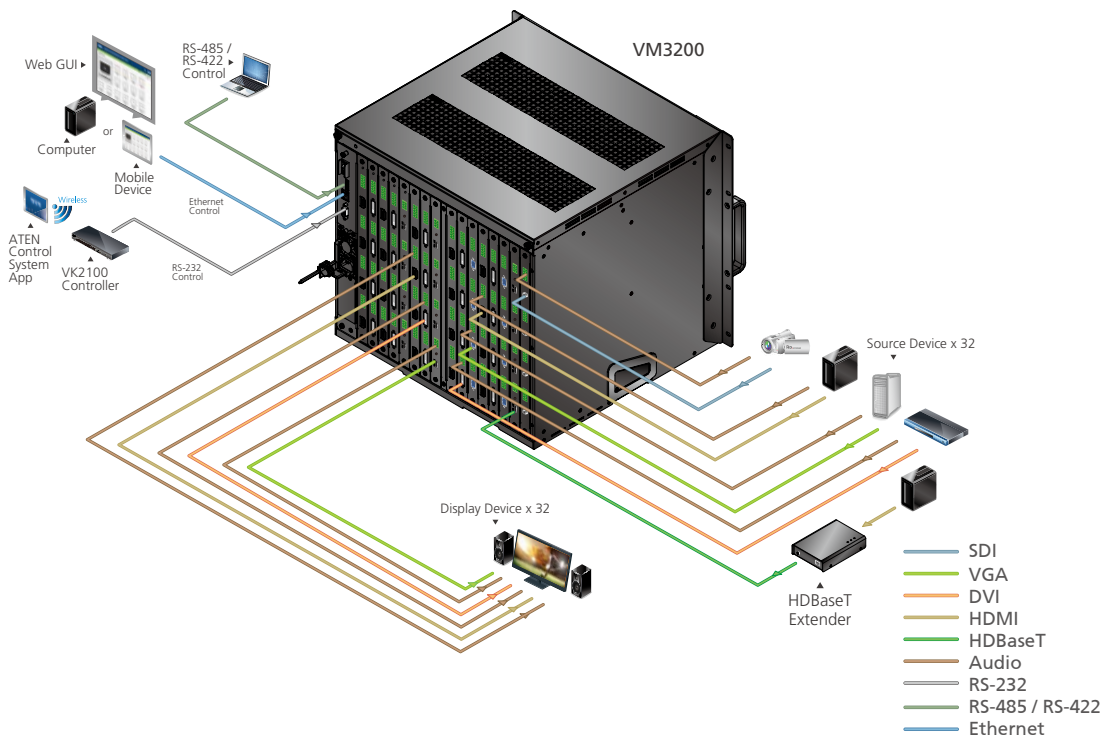
\*The I/O boards need to be purchased separately.

## Features

- 32 x 32 I/O connections via 8 x 8 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422 and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)\*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Live Streaming** – supports single source live streaming via web GUI for convenient evaluation of display output
- **Content and Layout Preview** – displays thumbnails of source media in web GUI, simplifying profile configuration
- **Calendar-based scheduling** – Calendar-based scheduling
- Hot-swappable design for I/O boards, fan module, and power supplies
- Firmware upgradeable via web
- Rack-mountable (9U design)

Note: \*The availability of these features depends on which I/O board is inserted.

## Setup > VM3200 + VM7814 / VM8814 + VM7514 / VM8514 VM7604 / VM8604 + VM7104 + VM7404



## Specifications

Function	VM3200
<b>Board Input</b>	8 x Slots
<b>Board Output</b>	8 x Slots
<b>Video</b>	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per Lane)
<b>Audio</b>	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Serial Control Pin Configurations:</b> Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd <b>Baud Rate and Protocol:</b> Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
<b>EDID Settings</b>	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
<b>Power</b>	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	800W *A power module can be purchased for power redundancy.
<b>Fan</b>	Airflow: 55.2 cfm Operating Voltage: 10.2 - 12 VDC Operating Temp: -10 - 60°C
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	18.20 kg (40.09 lb)
Dimensions (L x W x H)	48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x Terminal Block connector; 1x Fan Module (pluggable); 1x Power Module (pluggable)

### Required I/O Board

Description	Part No. / Spec.	Page No.
HDBaseT Input / Output Board	VM7514 / VM8514	3-7
4K HDMI Input / Output Board	VM7814 / VM8814	3-9
HDMI Input / Output Board	VM7804 / VM8804	3-10
DVI Input / Output Board	VM7604 / VM8604	3-11
3G-SDI Input Board	VM7404	3-12
VGA Input Board	VM7104	3-13

### Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-034G (Short)	41 to 72 cm
2X-035G (Long)	68 to 108 cm

### Optional Accessories

<b>Video Matrix Power Module</b>	<b>VM-PWR800</b>	<b>Video Matrix Fan Module</b>	<b>VM-FAN556</b>
Input voltage	100 – 240 VAC	Airflow	55.2 cfm
Power Capacity	Max. Load 800W	Operating Voltage	10.2 – 12 VDC
Operating Temperature	0 - 40 °C	Operating Temperature	-10 – 60 °C

**VM7514** 4-Port HDBaseT Input Board  
**VM8514** 4-Port HDBaseT Output Board



VM7514



VM8514



**Features**

- Compatible with the VM1600 / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality up to 4K
- Long-distance transmission up to 100m
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other devices
- **HDBaseT Connectivity** – extends 4 HDBaseT connections over a long distance via single Cat 6/6a cable / 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8514)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8514)\*
- **Bi-directional IR channel** – full range IR transmission (30~56 KHz) is processed one direction at a time

Note: \*For the VM8514, the Seamless Switch™ and video wall functions are only available when used with the VE805R and VE816R.

**VM7514 Compatible Table**

Compatible Transmitter	Max. Distance	IR	RS-232 Channel	4K
VE2812T	100m	•	•	•
VE1812T	100m	•	•	•
VE801T	70m**	N/A	N/A	•
VE802T	70m**	•	•	•
VE811T	100m	N/A	N/A	•
VE812T	100m	N/A	N/A	•
VE814AT	100m	•	•	•
VE601T (DVI)	70m**	N/A	N/A	N/A
VE901T (DisplayPort)	70m**	N/A	N/A	•

**VM8514 Compatible Table**

Compatible Receiver	Max. Distance	IR	RS-232 Channel	4K	Seamless Switch™	Video Wall
VE1812R	100m	•	•	•	N/A	N/A
VE801R	70m**	N/A	N/A	•	N/A	N/A
VE802R	70m**	•	•	•	N/A	N/A
VE811R	100m	N/A	N/A	•	N/A	N/A
VE805R (with Scaler)	70m**	•	•	N/A	•	•
VE812R	100m	N/A	N/A	•	N/A	N/A
VE814AR	100m	•	•	•	N/A	N/A
VE816R (with Scaler)	100m	•	•	•	•	•
VE601R (DVI)	70m**	N/A	N/A	N/A	N/A	N/A
VE901R (DisplayPort)	70m**	N/A	N/A	•	N/A	N/A

\*\*A Cat 6a cable is required to extend the distance up to 70 meters.

## Specifications

Function	VM7514 / VM8514
<b>Video Input</b>	
Interfaces	VM7514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
<b>Video Output</b>	
Interfaces	VM8514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDBaseT, HDCP 1.4 compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	100 m (Cat 6a)*
<b>Control Channel</b>	
RS-232	4 x Captive Screw Connectors, 3 pole
IR	4 x Mini Stereo Jack Female (Black)
<b>Power</b>	
Consumption	VM7514: 24.5W; VM8514: 12.2W
<b>Environmental</b>	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	VM7514: 0.64 kg (1.14 lb); VM8514: 0.97 kg (2.14 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors; 1x IR Transmitter; 1x IR Receiver

Note: \*We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	11-1
HDBaseT Receiver	VE1812R, VE801R, VE802R, VE805R, VE811R, VE812R, VE814AR, VE816R, VE601R, VE901R	8-9, 8-15, 8-15, 8-16, 8-8, 8-11, 8-13, 8-7, 8-34, 8-14
HDBaseT Transmitter	VE2812T, VE1812T, VE801T, VE802T, VE811T, VE812T, VE814AT, VE601T, VE901T	8-10, 8-9, 8-15, 8-15, 8-8, 8-11, 8-13, 8-34, 8-14

# VM7814 4-Port 4K HDMI Input Board VM8814 4-Port 4K HDMI Output Board with Scaler



## VM7814



## VM8814



## Features

- Compatible with the VM1600 / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080); 4K2K@60 (4:2:0)
- Audio-enabled, HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions (VM8814)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8814)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8814)\*
- HDMI (3D, Deep Color); HDCP 2.2 Compatible
- **Cable Quality Tester** – examines the HDMI cable quality
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- **Frame Sync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8814)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

## Specifications

Function	VM7814 / VM8814
<b>Video Input</b>	
Interfaces	VM7814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
<b>Video Output</b>	
Interfaces	VM8814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
<b>Video</b>	
Max. Data Rate	10.2 Gpbs (3.4 Gpbs Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced/unbalanced.
<b>Power</b>	
Consumption	VM7814: 4.45W; VM8814: 20W
<b>Environmental</b>	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	VM7814: 0.56 kg (1.23 lb); VM8814: 0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors; 4x HDMI LockPro

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

# VM7804 4-Port HDMI Input Board

# VM8804 4-Port HDMI Output Board with Scaler



VM7804



VM8804



## Features

- Compatible with the VM1600 / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080)
- Audio-enabled, HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8804)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8804)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8804)\*
- HDMI (3D, Deep Color); HDCP 1.4 Compatible
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

## Specifications

Function	VM7804 / VM8804
<b>Video Input</b>	
Interfaces	VM7804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
<b>Video Output</b>	
Interfaces	VM8804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1920 x 1080
<b>Audio</b>	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced/unbalanced.
<b>Power</b>	
Consumption	VM7804: 7W; VM8804: 23.13W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

# VM7604 4-Port DVI Input Board

# VM8604 4-Port DVI Output Board with Scaler



## VM7604



## VM8604



## Features

- Compatible with the VM1600 / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8604)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8604)
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8604)
- HDCP 1.4 Compatible
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- Built-in EDID wizard – provides an easy way to customized EDID settings
- Audio-enabled, HDMI audio (VM7804/VM7814) can be extracted to VM8604; VM7604's stereo audio can be embedded to HDMI audio (VM8804/VM8814)

## Specifications

Function	VM7604 / VM8604
<b>Video Input</b>	
Interfaces	VM7604: 4 x DVI-D Female (White)
Impedance	100 Ω
<b>Video Output</b>	
Interfaces	VM8604: 4 x DVI-D Female (White)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200
Max. Distance	5 m
<b>Audio</b>	
Input	4 x Captive Screw Connector, 5 Pole *Audio signal type: stereo, balanced/unbalanced.
Output	
<b>Power</b>	
Consumption	VM7604: 10.62W; VM8604: 20.10W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.55 kg ( 1.21 lb )
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## Optional Accessories

Description	Part No. / Spec.	Page No.
DVI-D Cable*	2L-7D03DD (3 m)	11-6

\*Cables with different lengths are available, please refer to 11-6.

# VM7404 4-Port 3G-SDI Input Board



## Features

- Connects up to 4 SDI inputs
- Compatible with the VM1600 / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Support SD-SDI, HD-SDI and 3G-SDI formats
- Audio-enabled, stereo audio can be embedded to HDMI audio (VM8804/VM8814)

Note: When used with output boards with scaler, Seamless Switch™, scaler and video wall functions can be activated.

## Specifications

Function	VM7404
<b>Video Input</b>	
Interfaces	4 x BNC Female
Impedance	75 Ω
<b>Video</b>	
Supported Resolutions	PAL/50 PAL and NTSC/59.94 720p 25, 29.97, 30,50,59.94, 60 1080i 50, 59.94, 60 1080PsF 25, 29.97,30 1080p 23.98, 24, 25, 29.97, 30,50,59.94, 60
Max. Data Rate	2.97 Gpbs
Max. Distance	100m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
<b>SDI Formats</b>	3G-SDI, SMPTE-259,292,424, 425 Level A & B-DL
<b>Audio Inputs</b>	
Interfaces	4 x Captive Screw Connectors, 5 pole * Audio signal type: stereo, balanced/unbalanced.
<b>Power</b>	
Consumption	16.0 W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Weight	0.60 kg (1.32 lb)
Housing	Metal
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).



# VM7104 4-Port VGA Input Board



## Features

- Connects up to 4 VGA or Component inputs
- Compatible with the VM1600 / VM3200 ; mix and match with modular I/O boards of any type for optimum flexibility
- Supports RGBHV / RGBS / YPbPr / YCbCr input signals
- Audio-enabled, stereo audio can be embedded to HDMI audio (VM8804/VM8814)

## Specifications

Function	VM7104
<b>Video Input</b>	
Interfaces	4 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	1.8 m
<b>Audio Inputs</b>	
Interfaces	4 x Captive Screw Connectors, 5 pole * Audio signal type: stereo, balanced/unbalanced.
<b>Power</b>	
Consumption	7.1 W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.56 kg ( 1.23 lb )
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
<b>Carton Lot</b>	2 pcs
<b>Included Accessories</b>	4x Terminal Block Connectors

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

# Media Distribution Solution Series

ATEN's Media Distribution Solutions (MDS) are a cost effective way to send high quality HDMI content over a Cat 5e cable to multiple displays from a single input source. There are four solutions available: **HDMI Standard MDS**, **HDMI Advanced MDS**, **VGA Advanced MDS** and **VGA Standard Plus MDS**.

Flexible and scalable, these solutions give you the freedom to set up any kind of high quality video display customized for various applications from retail media to public information systems.



4

Media Distribution Solution Series

Solution		HDMI Advanced			HDMI Standard	
Combination	Splitter	VS1814T / VS1818T			VS1804T / VS1808T	
	Repeater					VB802
	Receiver	VE812R	VE801R	VE811R	VE800AR	VE800AR
A/V Output (Splitter)		4 / 8			4 / 8	
Max Resolution		Up to 4K@60Hz (4:2:0)			Up to 1080i/1080p	
Audio Enabled		• (HDMI)			• (HDMI)	
Maximum Distance		100 m	70 m	100 m	60 m	300 m
Serial RS-232 Support		• (control)			•	
4K Support		•			•	
Group Screen On / Off		• (RS-232 Commands)			•	
Picture Adjustment		Auto			Auto	
					EQ Switch	

Solution		VGA Advanced		VGA Standard		
Combination	Splitter	VS1504T / VS1508T		VS1204T / VS1208T		
	Repeater		VB552			
	Receiver	VE200R	VE200R	VE170R	VE170RQ	VE172R
A/V Output (Splitter)		4 / 8		4 / 8		
Max Resolution		Up to 1920 x 1200@60Hz		Up to 1920 x 1200@60Hz		
Audio Enabled		• (Stereo)		• (Mono)		
Maximum Distance		150 m	450 m	150 m	300 m	150 m
Serial RS-232 Support		• (channel)		•		
Group Screen On / Off		• (Pushbutton)		•		
Dual A/V Output		•		•		
Picture Adjustment		Pushbutton / IR Handset		Knob		



- **Single Source to Multiple Displays**

These devices take the input from a single AV source and send it to multiple destinations, so that several target devices can reproduce the same video content simultaneously. You can cascade these devices to three levels to achieve even greater media coverage with your installation.

- **Superior Video Quality**

Outstanding video output is achieved through the incorporation of several features – including picture adjustment, EDID mode selection, and ATEN's patented Deskew Technology that automatically corrects display errors that can occur when video is transmitted over long distances. The result is clear, sharp and optimized video in real-time.

- **Cost-Effective Dual AV Output**

To reduce unnecessary hardware purchases, the solutions support dual audio/video output in which two display devices can be connected directly to a receiver.

- **Convenient Local Management**

Convenient monitoring of the video being sent to each display is achieved through support for local AV output. If a problem occurs, administrators can take steps to remedy the situation in a timely manner.

- **Control System Integration**

The built-in RS-232 serial port allows you to effortlessly integrate your own control system and customize the control process according to your needs. Serial RS-232 support also gives you the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, and kiosk touch screens – as part of the installation.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

## VS1814T / VS1818T 4/8-Port HDMI HDBaseT Splitter (HDBaseT Class A) **PRO**

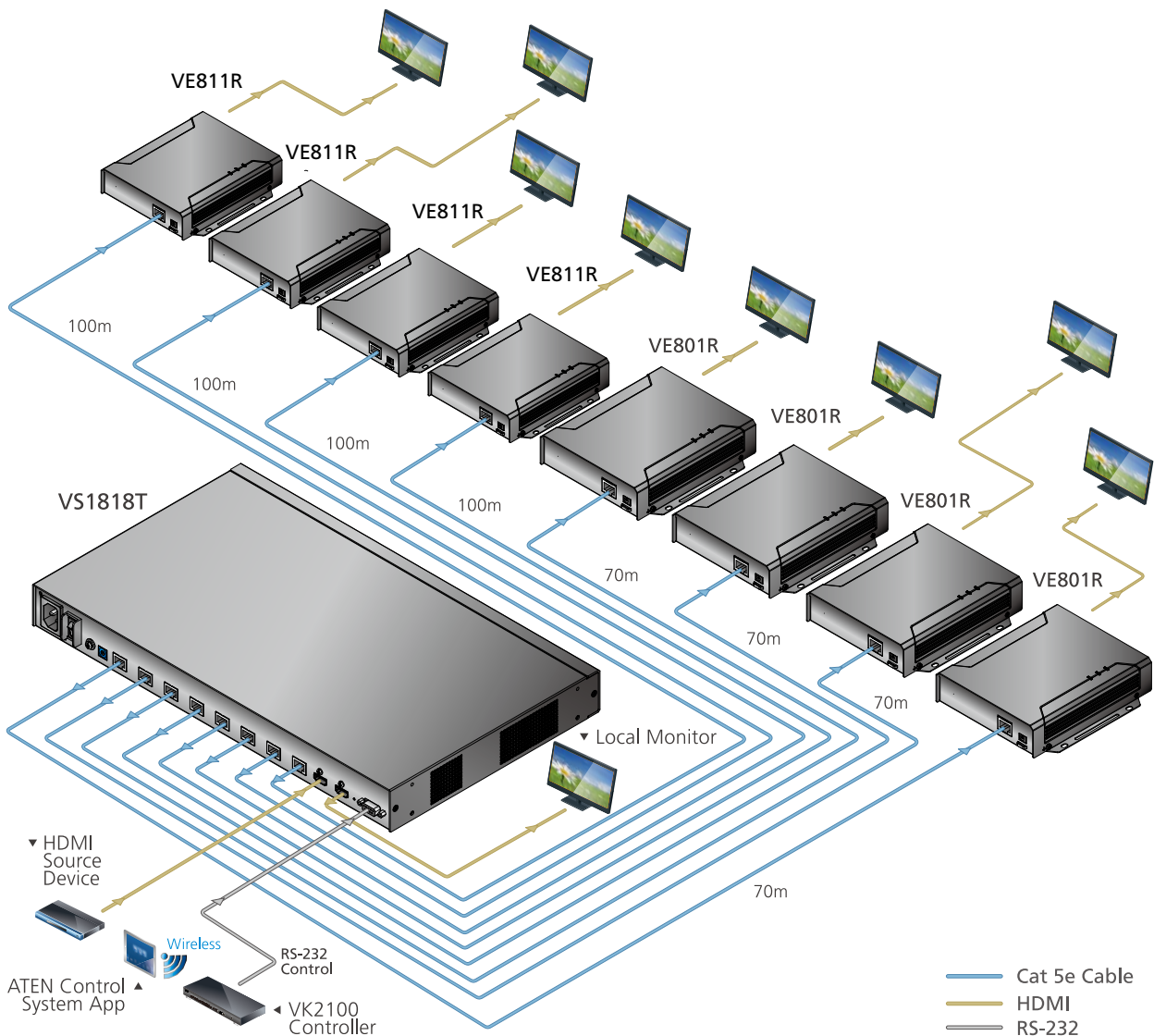


### Features

- **HDBaseT Connectivity** – connects 1 HDMI input to 4/8 HDMI outputs over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- System management via RS-232 connections
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- A local HDMI port to connect an extra HDMI display
- Rack-mountable

4

### Setup > VS1818T + VE811R + VE801R



Media Distribution Solution Series

## Specifications

Function	VS1814T	VS1818T
<b>Video Input</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 8 x RJ-45 Female
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)
Max. Distance	Up to 100 m (Depends on connected receiver)	Up to 100 m (Depends on connected receiver)
<b>Audio</b>		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	<b>Connector:</b> 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>EDID Settings</b>	EDID Mode: Default / Port 1 / Auto / Learn	EDID Mode: Default / Port 1 / Auto / Learn
<b>Power</b>		
Connectors	1 x 3-Prong AC Socket (Black)	1 x 3-Prong AC Socket (Black)
Consumption	120 VAC, 20W; 230 VAC, 23W	120 VAC, 33W; 230 VAC, 35W
<b>Environmental</b>		
Operating Temperature	0-50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	3.47 kg ( 7.64 lb )	3.58 kg ( 7.89 lb )
Dimensions (L x W x H)	43.72 x 26.11 x 4.40 cm (17.21 x 10.28 x 1.73 in.)	43.72 x 26.11 x 4.40 cm (17.21 x 10.28 x 1.73 in.)
<b>Carton Lot</b>	1 pcs	1 pcs
<b>Included Accessories</b>	1x Power Cord; 1x Mounting Kit	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
HDMI HDBaseT-Lite Receiver	VE801R	8-15
HDMI HDBaseT-Standard Receiver	VE812R	8-15
HDMI HDBaseT Receiver	VE811R	4-6

\*Cables with different lengths are available, please refer to 11-5.

# VE801R HDMI HDBaseT-Lite Receiver (4K@40m)(HDBaseT Class B) 70 m PRO



## Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology

## Specifications

Function	VE801R
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack (Black) with locking
Consumption	DC5V, 4.23W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.25 kg ( 0.55 lb )
Dimensions (L x W x H) with bracket	9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

# VE811R HDMI HDBaseT Receiver (4K@100m)(HDBaseT Class A) 100 m PRO



Front



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI connection up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Plug and play
- Rack-Mountable

## Specifications

Function	VE811R
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black)
<b>Connectors</b>	
Unit To Unit	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)
<b>Switches</b>	
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
<b>Power</b>	
Connectors	1 x DC Jack (Black) with locking
Consumption	DC 5V, 3.9W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.17 kg ( 0.37 lb )
Dimensions (L x W x H) with bracket	8.64 x 7.30 x 2.47 cm (3.40 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
Carton Lot	5 pcs
<b>Included Accessories</b>	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

# VE812R HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A) 100 m PRO



Front



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

## Specifications

Function	VE812R
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 4.5W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.41 kg ( 0.9 lb )
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.



## VS1804T / VS1808T 4/8-Port HDMI Cat 5 Splitter **PRO**



Front

VS1804T



VS1808T

Rear

VS1804T



VS1808T

### Features

- Connects 1 HDMI input to 4/8 HDMI outputs via single Cat 5e cable\*
- System management via RS-232 connections
- A local HDMI port to connect an extra HDMI display
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Rack-mountable

\*If you need to use EDID Bypass and / or HDCP authentication, connect another Cat 5e cable between the VS1804T/1808T and VE800AR.

### Specifications

Function	VS1804T	VS1808T
<b>Video Input</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p (Depends on connected receiver)	Up to 1080p (Depends on connected receiver)
Max. Distance	Up to 60 m (Depends on connected receiver)	Up to 60 m (Depends on connected receiver)
<b>Audio</b>		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>EDID Settings</b>	EDID Mode: Default / Port 1 / Learn	EDID Mode: Default / Port 1 / Learn
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x DC Jack (Black)
Consumption	5.3 VDC, 8W	5.3 VDC, 13W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	2.10 kg ( 4.63 lb )	2.15 kg ( 4.74 lb )
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
<b>Carton Lot</b>	3 pcs	3 pcs
<b>Included Accessories</b>	1 x Power Adapter, 1x Mounting Kit	

### Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
HDMI Repeater	VB802	4-9
HDMI Receiver	VE800AR	4-10

\*Cables with different lengths are available, please refer to 11-5.

# VB802 HDMI Cat 5 Repeater (1080p@40m) 60 m PRO



Front



Rear



## Features

- Extends HDMI signals via two Cat 5e cables
- A local HDMI port to connect an extra HDMI display
- Supports 8-segment equalization adjustment for optimum display quality
- Cascadable to 5 levels\*
- Firmware upgradable
- Rack-mountable

Note: \*Signal quality depends on cable. It is recommended you use STP Cat 5e cable or ATEN low skew cable.

## Specifications

Function	VB802
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black) 2 x RJ-45 Female
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack (Black)
Consumption	5.3 VDC, 5.3W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.25 kg ( 0.55 lb )
Dimensions (L x W x H)	12.30 x 9.04 x 2.26 cm (4.84 x 3.56 x 0.89 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

\*Cables with different lengths are available, please refer to 11-5.

# VE800AR HDMI Cat 5 Receiver (1080p@40m) 60 m PRO



Front



Rear



## Features

- Extends an HDMI output via single Cat 5e cable\*
- Supports 8-segment equalization adjustment for optimum display quality
- Rack-mountable

Note: \*A second Cat 5e cable is required if EDID Bypass and / or HDCP authentication needs to be enabled.

## Specifications

Function	VE800AR
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack (Black)
Consumption	5 VDC, 0.75W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.16 kg ( 0.35 lb )
Dimensions (L x W x H)	9.00 x 5.50 x 2.30 cm (3.54 x 2.17 x 0.91 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

\*Cables with different lengths are available, please refer to 11-5.

## VS1504T / VS1508T 4/8-Port VGA/Audio/RS-232 Cat 5 Splitter **PRO**



Front

VS1504T



VS1508T

Rear

VS1504T



### Features

- Connects 1 VGA input to 4/8 VGA outputs via Cat 5e cables
- Supports On/Off control over grouped screens via pushbutton
- System management via RS-232 connections
- **Adjustable Gain Control** – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality

### Specifications

Function	VS1504T	VS1508T
<b>Video Input</b>		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue) - Local Output 4 x RJ-45 Female	1 x HDB-15 Female (Blue) - Local Output 8 x RJ-45 Female
Impedance	75 Ω	75 Ω
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@60Hz@30m; 1280 x 1024@60Hz@150m	Up to 1920 x 1200@60Hz@30m; 1280 x 1024@60Hz@150m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black); 1 x DB-9 Male (Black)	<b>Connector:</b> 1 x DB-9 Female (Black); 1 x DB-9 Male (Black)
<b>EDID Settings</b>	EDID Mode: Default / Port 1 / Learn	EDID Mode: Default / Port 1 / Learn
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x DC Jack (Black)
Consumption	5.3 VDC, 4.7W	5.3 VDC, 6.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.75 kg ( 1.65 lb )	0.76 kg ( 1.65 lb )
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1 x VGA / Audio Cable; 1 x Power Adapter	

### Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
Audio / Video Receiver	VE200R	8-41
VGA EDID Emulator	2A-130G	9-16

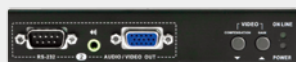
# VE200R VGA/Audio/RS-232 Cat 5 Receiver with Dual Output (1280 x 1024@200m)

150 m

PRO



Front



Rear



## Features

- Extends a VGA output via a Cat 5e cable
- Dual AV output
- Bi-directional RS-232 channel transmits signals over a Cat 5e cable to control a display or other device
- IR channel for screen On/Off control and video adjustment at remote site
- **Adjustable Gain Control** – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality
- Rack-mountable

## Specifications

Function	VE200R
<b>Video Input</b>	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1600 x 1200@150m
<b>Audio</b>	
Output	2 x Mini Stereo Jack Female (Green)
<b>Control</b>	
RS-232	2 x DB-9 Male (Black)
<b>Power</b>	
Connectors	1 x DC Jack (Black)
Consumption	5.3 VDC, 3.9W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.35 kg ( 0.77 lb )
Dimensions (L x W x H)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x VGA/Audio Cable; 1x Power Adapter; 1x Infrared Remote Control; 1x Infrared Receiver; 1x Infrared Receiver Holder; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
VGA EDID Emulator	2A-130G	9-16
IR Remote Control	2XRT-0301G	12-2

VS1204T / VS1208T 4/8-Port VGA/Audio Cat 5 Splitter **PRO**



Front VS1204T



VS1208T

Rear VS1204T



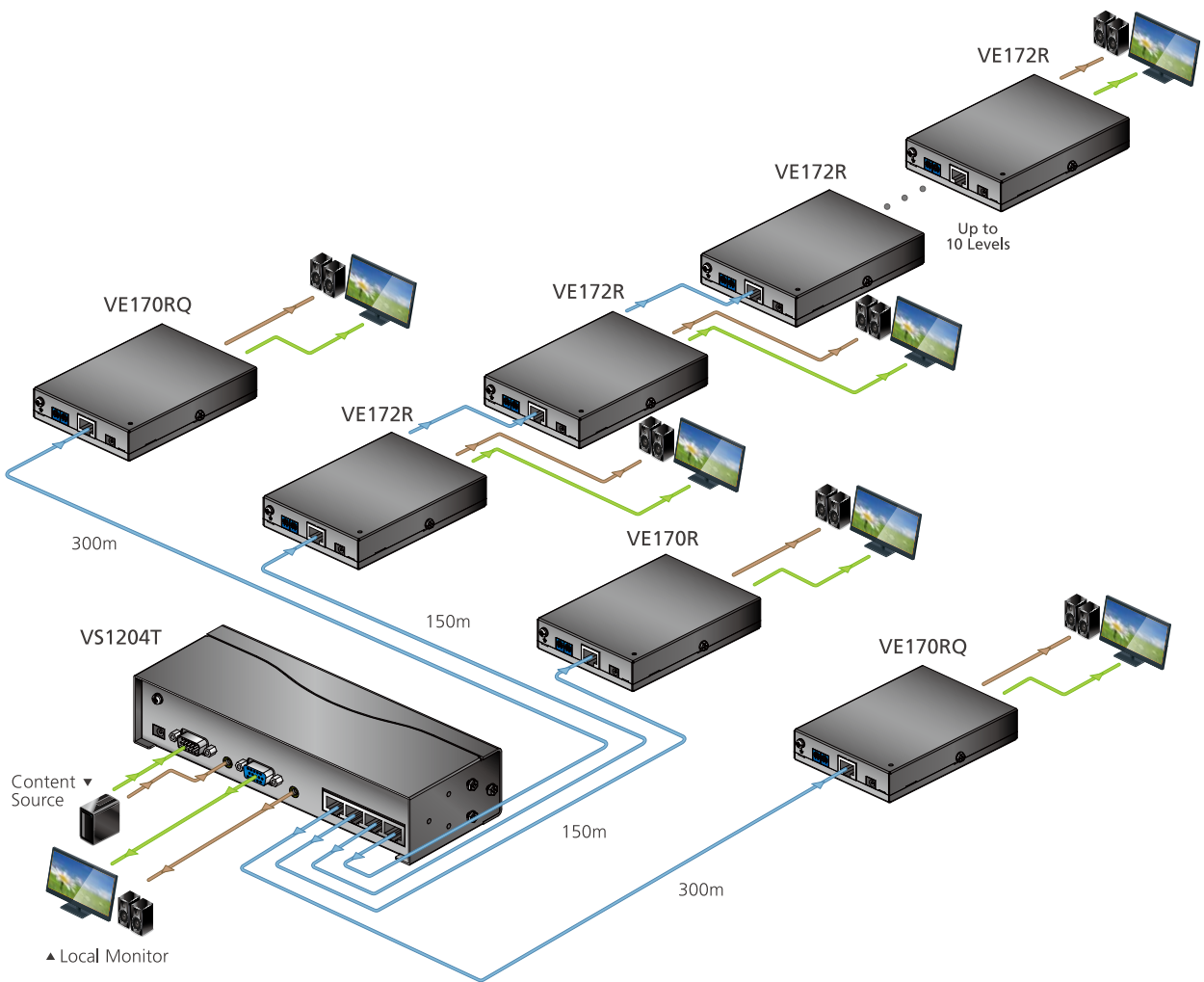
VS1208T



Features

- Connects 1 VGA input to 4/8 VGA outputs via Cat 5e cables
- A local VGA port to connect an extra VGA display
- Rack-mountable

Setup > VS1204T + VE172R + VE170R + VE170RQ



— Cat 5e Cable  
 — VGA  
 — Audio

## Specifications

Function	VS1204T	VS1208T
<b>Video Input</b>		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 $\Omega$	75 $\Omega$
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue) - Local Output 4 x RJ-45 Female	1 x HDB-15 Female (Blue) - Local Output 8 x RJ-45 Female
Impedance	75 $\Omega$	75 $\Omega$
<b>Video</b>		
Max. Bandwidth	225 MHz	225 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@60Hz@150m; 1280 x 1024@60Hz@300m	Up to 1920 x 1200@60Hz@150m; 1280 x 1024@60Hz@300m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x DC Jack (Black)
Consumption	5.3 VDC, 1.33W	5.3 VDC, 1.64W
<b>Environmental</b>		
Operating Temperature	0-50°C	0-50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.59 kg ( 1.3 lb )	0.64 kg ( 1.41 lb )
Dimensions (L x W x H)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit	

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
VGA / Audio Cable	2L-2402A (2 m)	11-6
VGA EDID Emulator	2A-130G	9-16
A/V Over Cat 5 Receiver with Cascade	VE172R	4-15
A/V Over Cat 5 Receiver	VE170R / VE170RQ	4-16

# VE172R VGA/Audio Cat 5 Receiver with Cascade (1280 x 1024@150m) 150 m



Front



Rear



## Features

- Connects a transmitter and a receiver via a Cat 5e cable
- A local VGA port to connect an extra VGA display
- Cascadable up to 10 levels\*
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Note: \* Signal quality depends on cable. It is recommended you use STP Cat 5e cables or ATEN low skew cable.

## Specifications

Function	VE172R
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m
<b>Audio</b>	
Output	1 x Mini Stereo Jack Female (Green)
<b>Power</b>	
Connectors	1 x DC Jack (Black)
Consumption	5.3 VDC, 2.3W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.24 kg ( 0.53 lb )
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
VGA EDID Emulator	2A-130G	9-16



**VE170R** VGA/Audio Cat 5 Receiver (1024 x 768@300m) **300 m** **PRO**  
**VE170RQ** VGA/Audio Cat 5 Receiver with Deskew (1280 x 1024@300m)



(VE170RQ)

Front



Rear



VE170R

VE170RQ

### Features

- Connects a transmitter and a receiver via Cat 5e cable
- Supports one local and one remote VGA display
- **Deskew** (VE170RQ) – automatically synchronizes the time delay of RGB signals to compensate for distance
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

### Specifications

Function	VE170R	VE170RQ
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1600 x 1200@150m; 1024 x 768@300m	Up to 1920 x 1200@150m; 1280 x 1024@300m
<b>Audio</b>		
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x DC Jack (Black)
Consumption	5.3 VDC, 3.66W	5.3 VDC, 4.82W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.24 kg ( 0.53 lb )	0.24 kg ( 0.53 lb )
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1 x Power Adapter; 1x Mounting Kit	

### Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
VGA EDID Emulator	2A-130G	9-16

# Video Matrix Switches

ATEN video matrix switches route and amplify A/V signals from multiple sources to multiple destinations, allowing you to extend your installation up to 70 m while maintaining excellent video quality. Front panel pushbuttons allow you to select the video input to video output connections. They can also be cascaded with ATEN video splitters for even more displays. ATEN video matrix switches are ideal for applications that require information from multiple source devices to be delivered to multiple screens and/or projectors – in locations such as corporates or service centers.



5

Video Matrix Switches

- **Seamless Switch™ Technology**

The Video Matrix Switches have a built-in Scaler in FPGA design that can unify video formats and provide continuous video streams, real-time switching and stable signal transmission. Implementation of this design allows TMDS signals to be re-arranged when transmitting high-speed data and provides much smoother digital signals over long distances.

- **FPGA Design Benefits**

Implementation of the FPGA design allows TMDS signals to be rearranged when transmitting high-speed data. This is used by the digital video interfaces, as well as other digital communication interfaces. Consequently, this benefit leads to smoother digital signal transmission over longer distances.

- **Effortless Control of Multiple Sources to Multiple Outputs**

Video Matrix Switches offer an easy and affordable way to route multiple audio/video sources to multiple audio/video targets (speakers and displays). Each input can be directed to any or all outputs via pushbuttons on the front panel – giving you ultimate flexibility and control in any multimedia installation.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding AV experience when working with modern multimedia applications.

- **Perfect Video-Wall Integration with Scaler**

The Video Matrix Switches is equipped with video wall and scaler functionalities that ensure all input sources are processed. The scaler also guarantees that all video content is delivered across all screens with no delays or signal loss. The video wall functionality allows you to customize display layouts using the intuitive web GUI which has won the Red Dot Interface Design award. Through a profile setup multiple screens can be configured to form one large display in various physical layouts, to see "what you want, how you want it".

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

## Features at a Glance

Model	VM3404H	VM3909H	VM6404H	VM6809H
Interface	HDMI / HDBaseT	HDMI / HDBaseT	HDMI	HDMI
Inputs to Outputs	4 to 4	9 to 9	4 to 4	8 to 9
Max Video Resolution	4K@60Hz (4:2:0); 4K@30Hz (4:4:4)	4K@60Hz (4:2:0); 4K@30Hz (4:4:4)	4K@60 Hz (4:2:0); 4K@30Hz (4:4:4)	4K@60 Hz (4:2:0); 4K@30Hz (4:4:4)
Audio	• (HDMI)	• (HDMI)	• (HDMI)	•
RS-232 Control	•	•	•	•
IR Remote Control	•	•	•	N/A
HDCP	HDCP 1.4	HDCP 1.4	HDCP 2.2	HDCP 2.2
Seamless Switch	•*	•*	•	•
Scaler	•*	•*	•	•
Video Wall	•*	•*	•	•
Web GUI	•	•	•	•
EDID Expert	•	•	•	•

Note: \*The availability of these features depends on which receiver is used.

Model	VM5404H	VM5808H	VM51616H	VM5404D	VM5808D
Interface	HDMI	HDMI	HDMI	DVI	DVI
Inputs to Outputs	4 to 4	8 to 8	16 to 16	4 to 4	8 to 8
Max Video Resolution	1080p	1080p	1080p	1920 x 1200	1920 x 1200
Audio	• (HDMI)	• (HDMI)	•	N/A	N/A
RS-232 Control	•	•	•	•	•
IR Remote Control	•	•	N/A	•	•
HDCP	HDCP 1.4	HDCP 1.4	HDCP 1.4	HDCP 1.4	HDCP 1.4
Seamless Switch	•	•	•	•	•
Scaler	•	•	•	•	•
Video Wall	•	•	•	•	•
Web GUI	•	•	•	•	•
EDID Expert	•	•	•	•	•

Model	VM0404HB	VM0808HB	VM0404HA	VM0808HA	VM0202H
Interface	HDMI	HDMI	HDMI	HDMI	HDMI
Inputs to Outputs	4 to 4	8 to 8	4 to 4	8 to 8	2 to 2
Max Video Resolution	4K@60 Hz (4:4:4)	4K@60 Hz (4:4:4)	4K@60 Hz (4:2:0); 4K@30Hz (4:4:4)	4K@60 Hz (4:2:0); 4K@30Hz (4:4:4)	4K@60 Hz (4:2:0); 4K@30Hz (4:4:4)
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Control	•	•	•	•	•
IR Remote Control	•	•	•	•	•
Ethernet Control	•	•	•	•	N/A
HDCP	HDCP 2.2	HDCP 2.2	HDCP 1.4	HDCP 2.2	HDCP 1.4
Seamless Switch	N/A	N/A	N/A	N/A	N/A
Scaler	N/A	N/A	N/A	N/A	N/A
Video Wall	N/A	N/A	N/A	N/A	N/A
Web GUI	•	•	N/A	•	N/A
EDID Expert	•	•	•	•	•

Model	VM0404	VM0808	VS0202
Interface	VGA	VGA	VGA
Inputs to Outputs	4 to 4	8 to 8	2 to 2
Max Video Resolution	1920 x 1200	1920 x 1200	1920 x 1200
Audio	•	•	•
RS-232 Control	•	•	N/A
IR Remote Control	•	•	N/A
Seamless Switch	N/A	N/A	N/A
Scaler	N/A	N/A	N/A
Video Wall	N/A	N/A	N/A
Web GUI	N/A	N/A	N/A
EDID Expert	•	•	N/A

**VM3404H** 4 x 4 HDMI HDBaseT-Lite Matrix Switch  
**VM3909H** 9 x 9 HDMI HDBaseT-Lite Matrix Switch



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PRO



**Features**

- Supports 4 / 9 HDMI inputs and mirrored 4 / 9 HDMI and HDBaseT outputs
- **HDBaseT Connectivity** – connects HDMI sources and displays over a long distance via one Cat 6/6a cable\*\*
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission
- **Power over HDBaseT (POH)** – supplies power over a long distance from the switch to a receiver over a single Cat 6/6a cable
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **Bi-directional IR channel** for IR signal control; full range IR transmission (30~60 KHz) is processed one direction at a time
- **ESD protection** for HDMI
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet (Telnet / Web GUI) connections
- Rack-mountable (VM3404H / VM3909H: 1U / 2U Design)

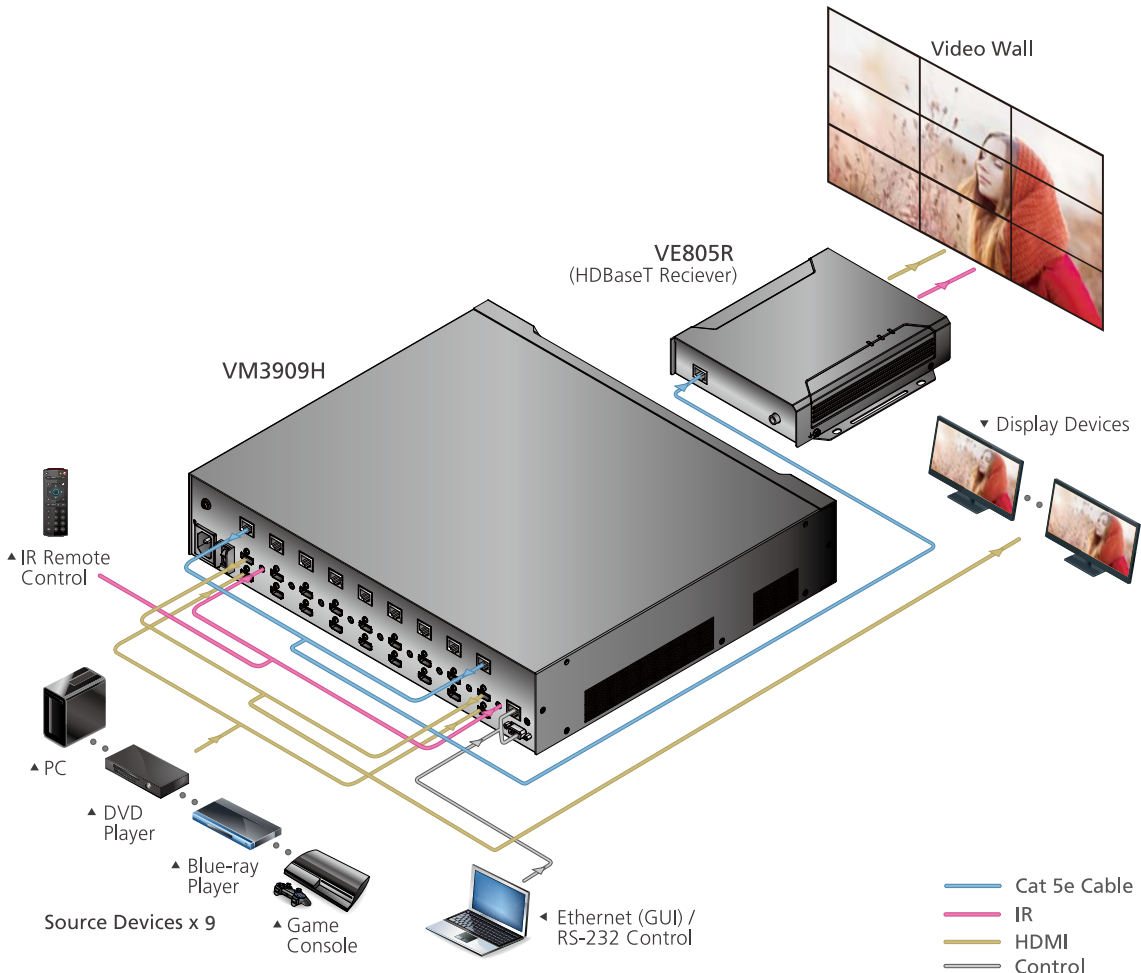
Note: \*The Seamless Switch™, Video Wall and POH features are only available when used the compatible receiver.

\*\*The VM3404H / VM3909H can provide up to 15.4 W@54 VDC of power per port and 35W / 75W of total power; please ensure that the power consumption of the devices connected to the VM3404H / VM3909H does not exceed this limit.

5

Video Matrix Switches

Setup > VM3404H / VM3909H



## Specifications

Function	VM3404H	VM3909H
<b>Video Input</b>		
Interfaces	4 x HDMI Type A Female (Black)	9 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x HDMI Type A Female (Black); 4 x RJ-45 Female	9 x HDMI Type A Female (Black) ; 9 x RJ-45 Female
Impedance	100 Ω	100 Ω
Max. Distance	HDMI: up to 15 m HDBaseT (Class B): 4K up to 35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p up to 60 m (Cat 5e/6) / 70 m (Cat 6a)	
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible Consumer Electronic Control (CEC) HDBaseT Compatible	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 70 m (Cat 6a)	
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	4 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	9 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
Ethernet	1 x RJ-45 Female	1 x RJ-45 Female
<b>EDID Settings</b>	EDID Mode: Default / Port1 / Remix / Customized	
<b>Power</b>		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	110 VAC, 42.90W ; 220 VAC,41.58W (w/o PoE)	110 VAC, 77.44 W ; 220 VAC, 75.24 W (w/o PoE)
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	5.62 kg (12.38 lb)	7.33 kg (16.15 lb)
Dimensions (L x W x H)	43.24 x 38.23 x 4.40 cm (17.02 x 15.05 x 1.73 in.)	43.24 x 38.23 x 8.80 cm (17.02 x 15.05 x 3.46 in.)
<b>Carton Lot</b>	1 pc	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 5-14	

## Compatible Receivers

Model	Max. Distance	IR	4K	Seamless Switch™	Video Wall	POH	Dual View
VE801R	70m*	N/A	•	N/A	N/A	N/A	N/A
VE802R	70m*	•	•	N/A	N/A	•	N/A
VE805R (with Scaler)	70m*	•	N/A	•	•	N/A	N/A
VE816R (with Scaler)	70m*	•	•	•	•	N/A	N/A
VE814AR	70m*	•	•	N/A	N/A	N/A	•
VE601R (DVI)	70m*	N/A	N/A	N/A	N/A	N/A	N/A
VE901R	70m*	N/A	•	N/A	N/A	N/A	N/A

\* A Cat 6a cable is required to extend the distance up to 70 meters.

**VM6404H** 4 x 4 4K HDMI Matrix Switch with Scaler  
**VM6809H** 8 x 9 4K HDMI Matrix Switch with Scaler



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**Features**

- 4 x 4 or 8 x 9 HDMI I/O connections
- Supports 4K@60Hz, HDMI 2.0 and HDCP 2.2
- Multiple Control Methods – system management via front-panel pushbuttons, IR (VM6404H), RS-232, and Ethernet connections
- **4K Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Audio-enabled, HDMI audio can be extracted to stereo audio (VM6809H)
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

**Specifications**

Function	VM6404H	VM6809H
<b>Video Input</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x HDMI Type A Female (Black)	9 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.40 Gbps per lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 15 m	
<b>Audio</b>		
Output	N/A	1 x Mini Stereo Jack Female (Green)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black); <b>Baud Rate:</b> 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	N/A
Ethernet	1 x RJ-45 Female	
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port 1 / Remix / Customized (EDID Wizard Support)	
<b>Power</b>		
Connectors	1 x 3-prong AC Socket	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A	100-240 VAC; 50-60Hz; 1.0A
Consumption	120VAC, 47.6W; 230VAC, 47.5W	120VAC, 79.5W; 230VAC, 78.1W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	4.72 kg (10.4 lb)	7.05 kg (15.42 lb)
Dimensions (L x W x H)	43.24 x 30.73 x 4.40 cm (17.02 x 12.1 x 1.73 in.)	43.24 x 45.03 x 4.40 cm (17.02 x 17.73 x 1.73 in.)
<b>Carton Lot</b>	1 pc	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Remote Control (VM6404H); 1x IR Receiver (VM6404H); 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 5-14	

# VM51616H 16 x 16 HDMI Matrix Switch with Scaler



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Front



Rear



## Features

- 16 x 16 HDMI I/O connections
- Multiple Control Methods – system management via front panel pushbuttons, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **Local HDMI output that allows multiple preview of 16 video sources**
- Audio-enabled, HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby True HD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (2U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

## Specifications

Function	VM51616H
<b>Video Input</b>	
Interfaces	16 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
<b>Video Output</b>	
Interfaces	16 x HDMI Type A Female (Black) (Array Mode): 1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
<b>Audio</b>	
Output	1 x Mini Stereo Jack Female (Green)
<b>Control</b>	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Ethernet	1 x RJ-45 Female
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port1 / Remix / Customized (EDID Wizard support)
<b>Power</b>	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A
Consumption	120VAC, 125W; 230VAC, 122W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	7.86 kg (17.33 lb)
Dimensions (L x W x H)	43.24 x 38.18 x 8.80 cm (17.23 x 15.03 x 3.46 in.)
<b>Carton Lot</b>	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x Mounting Kit
<b>Optional Accessories</b>	Please refer to 5-14

**VM5404H** 4 x 4 HDMI Matrix Switch with Scaler  
**VM5808H** 8 x 8 HDMI Matrix Switch with Scaler



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**Features**

- 4 x 4 or 8 x 8 HDMI I/O connections
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Supports Dolby True HD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: \*if Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

**Specifications**

Function	VM5404H	VM5808H
<b>Video Input</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
Max. Pixel Clock	225 MHz	
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 1080p	
Max. Distance	Up to 15 m	
<b>Control</b>		
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
<b>EDID Settings</b>	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)	
<b>Power</b>		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	120 VAC, 36.6W; 230 VAC, 37.5W	120 VAC, 60W; 230 VAC, 62W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	4.10 kg (9.03 lb)	4.03 kg (8.88 lb)
Dimensions (L x W x H)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
<b>Carton Lot</b>	1 pc	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 5-14	



**VM0404HB** 4 x 4 True 4K HDMI Matrix Switch  
**VM0808HB** 8 x 8 True 4K HDMI Matrix Switch



reddot award 2015  
winner interface design

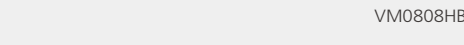
**PRO**



Front



VM0404HB

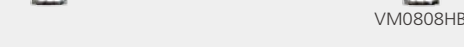


VM0808HB

Rear



VM0404HB



VM0808HB

**Features**

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports true 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Ethernet connections
- Intuitive web GUI control and management
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Signaling rates up to 6 Gbits for flawless true 4K output
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- Power on Detection to automatically switch the power-failed source to the next powered source
- **ESD protection** for HDMI
- Rack Mountable (1U design)

**Specifications**

Function	VM0404HB	VM0808HB
<b>Video Input</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
<b>Video Output</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	18 Gbps (6 Gbps Per Lane)	
Max. Pixel Clock	600 MHz	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black); <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port 1 / Remix / Customized (EDID Wizard Support)	
<b>Power</b>		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	TBD	TBD
Consumption	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	2.47 kg (5.45 lb)	3.99 kg (8.80 lb)
Dimensions (L x W x H)	43.72 x 16.28 x 4.40 cm (17.21 x 6.41 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.3 x 1.73 in.)
<b>Carton Lot</b>	3 pcs	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 5-14	

**VM0404HA** 4 x 4 4K HDMI Matrix Switch  
**VM0808HA** 8 x 8 4K HDMI Matrix Switch

**PRO**



A/V In  
HDMI



A/V Out  
HDMI

RS-232  
Control



IR Remote  
Control

EDID

HDCP 2.2



**Features**

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports 4K resolutions up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 control
- Intuitive web GUI control via Ethernet connections (VM0808HA)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Supports Dolby True HD and DTS HD Master audio
- Signaling rates up to 3.4 Gbits for flawless 4K output
- HDMI (3D, Deep Color, 4K) and HDCP 1.4/2.2 (VM0404HA/VM0808HA) compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- **ESD protection** for HDMI
- Rack Mountable (1U design)

**Specifications**

Function	VM0404HA	VM0808HA
<b>Video Input</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDCP 1.4 Compatible	HDCP 2.2 Compatible
	HDMI (3D, 4K, Deep Color); Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 15 m	
<b>Control</b>		
USB	1 x Micro USB for F/W upgrade	N/A
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black); <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	N/A	1 x RJ-45 Female
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port1 / Remix	<b>EDID Mode:</b> Default / Port 1 / Remix / Customized (EDID Wizard Support)
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x 3-Prong AC Socket
Maximum Input Power Rating	5 VDC, 10.58W	120 VAC, 24W; 230 VAC, 24.4W
Consumption	N/A	100-240 VAC; 50-60 Hz; 1.0A
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	2.02 kg (4.45 lb)	3.86 kg (8.5 lb)
Dimensions (L x W x H)	43.72 x 16.29 x 4.40 cm (17.21 x 6.41 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
<b>Carton Lot</b>	3 pcs	1 pc
<b>Included Accessories</b>	1x Power Adapter (VM0404HA); 1x Power Cord (VM0808HA); 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 5-14	

# VM0202H 2 x 2 4K HDMI Matrix Switch **PRO**



Front



Rear



## Features

- 2 x 2 HDMI I/O connection
- Supports 4K resolutions up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)
- Supports computer and video resolutions up to 4K resolution
- Configuration and control via front-panel pushbuttons, IR remote, and RS-232
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- HDMI (3D, Deep Color, 4k); HDCP 1.4 Compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- **ESD protection** for HDMI
- Rack-mountable (1U design)

## Specifications

Function	VM0202H
<b>Video Input</b>	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
<b>Video</b>	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, 4K, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
<b>Control</b>	
USB	1 x Micro USB for FW upgrade
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black); <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port1 / Remix
<b>Power</b>	
Connectors	1 x DC Jack (Black)
Consumption	5VDC; 4.3W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	20.00 x 7.60 x 4.20 cm (7.87 x 2.99 x 1.65 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit
<b>Optional Accessories</b>	Please refer to 5-14

**VM5404D** 4 x 4 DVI Matrix Switch with Scaler  
**VM5808D** 8 x 8 DVI Matrix Switch with Scaler



red dot award 2015  
winner interface design

PRO



**Features**

- 4 x 4 or 8 x 8 DVI I/O connections
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232, and Ethernet connections
- Intuitive configuration via web-based GUI
- Extends IR transmission via IR extension cable
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Rack-mountable (1U design)

**Specifications**

Function	VM5404D	VM5808D
<b>Video Input</b>		
Interfaces	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
Max. Pixel Clock	225 MHz	
Compliance	HDCP 1.4 Compatible	
Max. Resolution	Up to 1920 x 1200	
Max. Distance	Up to 5m	
<b>Control</b>		
RS-232	Connector: 1 x DB-9 Female (Black); Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female (Black)	
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port 1/ Remix / Customized	
<b>Power</b>		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240VAC; 50-60Hz; 1.0A	100-240VAC; 50-60Hz; 1.0A
Consumption	120VAC, 34.1W; 230VAC, 34.4W	120VAC, 56.4W; 230VAC, 55.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	3.50 kg (7.71 lb)	4.25 kg (9.36 lb)
Dimensions (L x W x H)	43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.)	43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.)
<b>Carton Lot</b>	1 pc	1 pc
<b>Included Accessories</b>	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	

**Optional Accessories**

Description	Part No. / Spec.	Page No.
DVI-D cable*	2L-7D03DD (3 m)	11-6
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2
IR Remote Control	2XRT-0106G	12-2

\*Cables with different lengths are available, please refer to 11-6.

## VM0404 4 x 4 VGA/Audio Matrix Switch

## VM0808 8 x 8 VGA/Audio Matrix Switch

PRO



### Features

- 4 x 4 or 8 x 8 VGA I/O connections with audio
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 connections
- Superior video quality – up to 1920 x 1440; VGA, SVGA, SXGA, UXGA, and WUXGA (1920 x 1200)
- Supports up to 500 MHz (VM0808) 300 MHz (VM0404) bandwidth for high performance video
- Independent switching of audio and video sources
- Power-on Detection – switches to the next powered-on source when one source is powered off (VM0808)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Rack-mountable (1U design)

### Specifications

Function	VM0404	VM0808
<b>Video Input</b>		
Interfaces	4 x HDB-15 Male (Blue)	8 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	30 m	30 m
<b>Video</b>		
Max. Bandwidth	300 MHz	500 MHz
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 30 m	Up to 30 m
<b>Audio</b>		
Input	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Output		
<b>Control</b>		
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
EDID Settings	EDID Mode: Mode: Default / Port1 / Remix / Auto	
<b>Power</b>		
Connectors	1 x DC Jack (Black)	1 x 3-Prong AC Socket
Consumption	5.3 VDC, 2.7W	120 VAC, 7W; 230 VAC, 8W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.87 kg (1.92 lb)	2.48 kg (5.46 lb)
Dimensions (L x W x H)	26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)	43.72 x 16.78 x 4.40 cm (17.21 x 6.61 x 1.73 in.)
Carton Lot	5 pcs	1 pc
Included Accessories	VM0404: 1x Power Adapter VM0808: 1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	11-6
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2
IR Remote Control	2XRT-0106G	12-2
Mounting Kit (for VM0404)	2X-020G	12-2

# VS0202 2 x 2 VGA/Audio Matrix Switch



Front



Rear



## Features

- 2 x 2 VGA I/O connections with audio
- Each output can toggle between 2 inputs via front-panel pushbuttons
- Audio enabled
- Duplicate and enhance video signals to up to 30 m (max.)
- Expandable: Cascade to ATEN's video splitters to support hundreds of video displays
- Video Bandwidth up to 200 MHz

## Specifications

Function	VS0202
<b>Video Input</b>	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	200 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	Up to 30 m
<b>Audio</b>	
Input	2 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 2.39W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.47 kg ( 1.04 lb )
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x VGA/Audio Cable (1.8m); 1x Power Adapter

## Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	11-6

## Optional Accessories

### VM3404H / VM3909H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
HDBaseT Cat 6 Cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2
Full Range IR Receiver (30-56 KHz) for channel	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56 KHz)	2XRT-0004G	12-2
IR Remote Control (for VM3404H Only)	2XRT-0106G	12-2

### VM6404H / VM6809H / VM5404H / VM5808H / VM0404HB / VM0808HB / VM0404HA / VM0808HA

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
IR Remote Control	2XRT-0106G	12-2
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2

### VM51616H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

### VM0202H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Remote Control	2XRT-0101G	12-2
IR Receiver Cable (38 KHz)	2XRT-0003G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# Video Switches

ATEN video switches allow you to conveniently display the video output of 1 to multiple high resolution computer or source devices on a single monitor. All models offer easy source selection via pushbuttons, RS-232 or IR remote control, meaning you never have to reach behind the monitor. With support for the full range of video standards and many models with audio functionality, ATEN video switches are the perfect choice for meeting rooms, laboratories, research centers, information management centers and home theater applications.



- **Quick and Easy Port Selection**

The switches offer multiple methods to quickly and easily select the desired media source device among multiple sources: with pushbuttons located on the device and with an IR remote control. Use of the remote control lets you select source devices without having to get up and move to the switch to perform the selection with the pushbuttons.

- **Flexible Deployment**

By combining the switch with an external IR receiver you can locate it close to the media source. This provides greater video quality by keeping the cable distance shorter, while allowing you to control the media selection from a more comfortable location.

- **Outstanding Multimedia Support**

Audio signals from the source devices are transmitted together with the video – eliminating the need for a separate audio installation for each source and delivering an outstanding A/V experience when working with modern multimedia applications.

- **Control System Integration**

The built-in RS-232 serial port and IR allows you to effortlessly integrate ATEN Control System or your own control system and customize the control process according to your needs. RS-232 and IR support also gives you the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, kiosk touch screens and more – as part of the installation

- **Auto Switching**

ATEN video switches have the Auto Switching function which enables the switch to automatically switch between a selected port with priority settings when the source device is connected.

There are two types of priority settings that be configured with Auto Switching. Auto: switch which places the priority on a particular port and Next Switch Priority which places the priority on the next port with a new source connected to it. Aten's video switches come complete with the auto switching function.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.





## Specifications at a Glance

Model	VS381	VS481A	VS481B	VS481C	VS0801H	VS0801HB
Interface	HDMI	HDMI	HDMI	HDMI	HDMI	HDMI
Inputs to Outputs	3 to 1	4 to 1	4 to 1	4 to 1	8 to 1	8 to 1
Max Video Resolution	1080p	1080p	4K@60 Hz (4:2:0); 4K@30 Hz (4:4:4)	4K@60 Hz (4:4:4)	1080p	4 K @ 6 0 H z (4:4:4)
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
HDCP	HDCP 1.4	HDCP 1.4	HDCP 2.2	HDCP 2.2	(HDMI)	HDCP 2.2
Auto Switch	N/A	N/A	•	•	•	•
Power-on Detection	N/A	•	N/A	•	N/A	•
RS-232 Control	N/A	•	•	•	•	•
IR Remote Control	•	•	•	•	•	•

Model	VS482	VS261	VS461	VS0201	VS0401
Interface	HDMI	DVI	DVI	VGA	VGA
Inputs to Outputs	4 to 2	2 to 1	4 to 1	2 to 1	4 to 1
Max Video Resolution	1080p	1920 x 1200	1920 x 1200	1920 x 1440	1920 x 1440
Audio	• (HDMI)	•	•	•	•
HDCP	HDCP 1.4	HDCP 1.4	HDCP 1.4	N/A	N/A
Auto Switch	•	N/A	N/A	•	•
Power-on Detection	N/A	•	•	N/A	N/A
RS-232 Control	•	N/A	N/A	•	•
IR Remote Control	•	•	•	• (Optional)	• (Optional)

Model	VS0801A	VS201	VS291	VS491	VS881
Interface	VGA	VGA	VGA	VGA	VGA
Inputs to Outputs	8 to 1	2 to 1	2 to 1	4 to 1	8 to 1
Max Video Resolution	1920 x 1440	1920 x 1440	1920 x 1440	1920 x 1440	1920 x 1440
Audio	•	N/A	N/A	N/A	N/A
Auto Switch	•	•	N/A	N/A	•
RS-232 Control	•	N/A	N/A	N/A	N/A
IR Remote Control	•	N/A	N/A	N/A	•

# VS381 3-Port HDMI Switch



Front



Rear



## Features

- 3 x 1 HDMI I/O connections
- Video switching between input sources via front-panel pushbuttons / IR remote control
- Front-Panel LED indication of port and power status

## Specifications

Function	VS381
<b>Video Input</b>	
Interfaces	3 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
<b>Audio</b>	
Input	3 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
IR	1 x Mini Stereo Jack Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 3W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	0.07 kg ( 0.15 lb )
Dimensions (L x W x H)	9.60 x 5.12 x 2.24 cm (3.78 x 2.02 x 0.88 in.)
<b>Carton Lot</b>	40 pcs
<b>Included Accessories</b>	1x IR Remote Control

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

# VS481c 4-Port True 4K HDMI Switch **PRO**



Front



Rear



## Features

- 4 x 1 HDMI I/O connections
- HDCP 2.2 compatible, and supports 4K video switching
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch among different input sources via front- panel pushbuttons / IR remote control / RS-232 serial device
- LED indication of power status and source devices
- Plug-and-play

## Specifications

Function	VS481C
<b>Video Input</b>	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8m @ 4K60 (4:4:4)
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8m @ 4K60 (4:4:4)
<b>Video</b>	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
<b>Audio</b>	
Input	4 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate &amp; Protocol:</b> Baud Rate: 19200 / Data Bits: 8 / Stop Bits: 1 / Parity: NO / Flow Control: NO
IR	1 x Mini Stereo Jack Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 5W
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.47 kg (1.03 lb)
Dimensions (L x W x H)	20.00 x 8.21 x 2.50 cm ( 7.87 x 3.23 x 0.98 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x IR Remote Control Unit; 1x HDMI Cable

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Receiver Cable	2XRT-0003G	12-2
IR Remote Control	2XRT-0101G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# VS481B 4-Port 4K HDMI Switch **PRO**



Front



Rear



## Features

- 4 x 1 HDMI I/O connections
- HDCP 2.2 compatible, and supports 4K video switching
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch among different input sources via front- panel pushbuttons / IR remote control / RS-232 serial device
- Extends IR transmission via IR extension cable

## Specifications

Function	VS481B
<b>Video Input</b>	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
<b>Video</b>	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	Up to 15 m
<b>Audio</b>	
Input	4 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
<b>Power</b>	
Connectors	Connector: 1 x DC Jack Consumption: 5 VDC, 5W
Consumption	5 VDC, 5W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.48 kg ( 1.06 lb )
Dimensions (L x W x H)	20.00 x 8.25 x 2.50 cm (7.87 x 3.25 x 0.98 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1x HDMI Cable; 1x IR Remote Control; 1x Power Adapter

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Receiver Cable	2XRT-0003G	12-2
IR Remote Control	2XRT-0101G	12-2

\*Cables with different lengths are available, please refer to 11-5.

## VS481A 4-Port HDMI Switch



Front



Rear



### Features

- 4 x 1 HDMI I/O connections
- Video switching between input sources via front-panel pushbuttons / IR remote control / RS-232 serial device
- **Power-on Detection** – switches to the next powered-on source when one source is powered off

### Specifications

Function	VS481A
<b>Video Input</b>	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
<b>Audio</b>	
Input	4 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 2.4W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.47 kg ( 1.04 lb )
Dimensions (L x W x H)	20.00 x 8.27 x 2.50 cm (7.87 x 3.26 x 0.98 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1x HDMI Cable; 1x IR Remote Control Unit; 1x Power Adapter

### Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Remote Control	2XRT-0101G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# VS0801HB 8 Port True 4K HDMI Switch



Front



Rear



## Features

- 8 x 1 HDMI I/O connections
- Supports True 4K video resolution
- Video Switching via front panel pushbuttons / IR remote control / RS-232 serial device
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- HDCP 2.2 compatible
- LED indication of power status and source devices
- Plug-and-play
- Rack-mountable

## Specifications

Function	VS0801HB
<b>Video Input</b>	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	Up to 3 m
<b>Audio</b>	
Input	8 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 14.84W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.14 kg (4.72 lb)
Dimensions (L x W x H)	43.72 x 15.83 x 4.40 cm (17.21 x 6.23 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x IR Remote Control Unit; 1x IR Receiver Cable; 1x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Remote Control	2XRT-0007G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# VS0801H 8-Port HDMI Switch **PRO**



Front



Rear



## Features

- 8 x 1 HDMI I/O connections
- Video switching via IR remote control / RS-232 serial device
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Rack-mountable

## Specifications

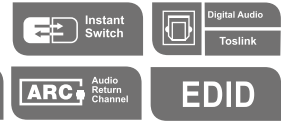
Function	VS0801H
<b>Video Input</b>	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
<b>Audio</b>	
Input	8 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 3.71W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	1.75 kg ( 3.85 lb )
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x IR Remote Control Unit; 1x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Remote Control	2XRT-0007G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# VS482 4-Port HDMI Switch with Dual Output **PRO**



Front



Rear



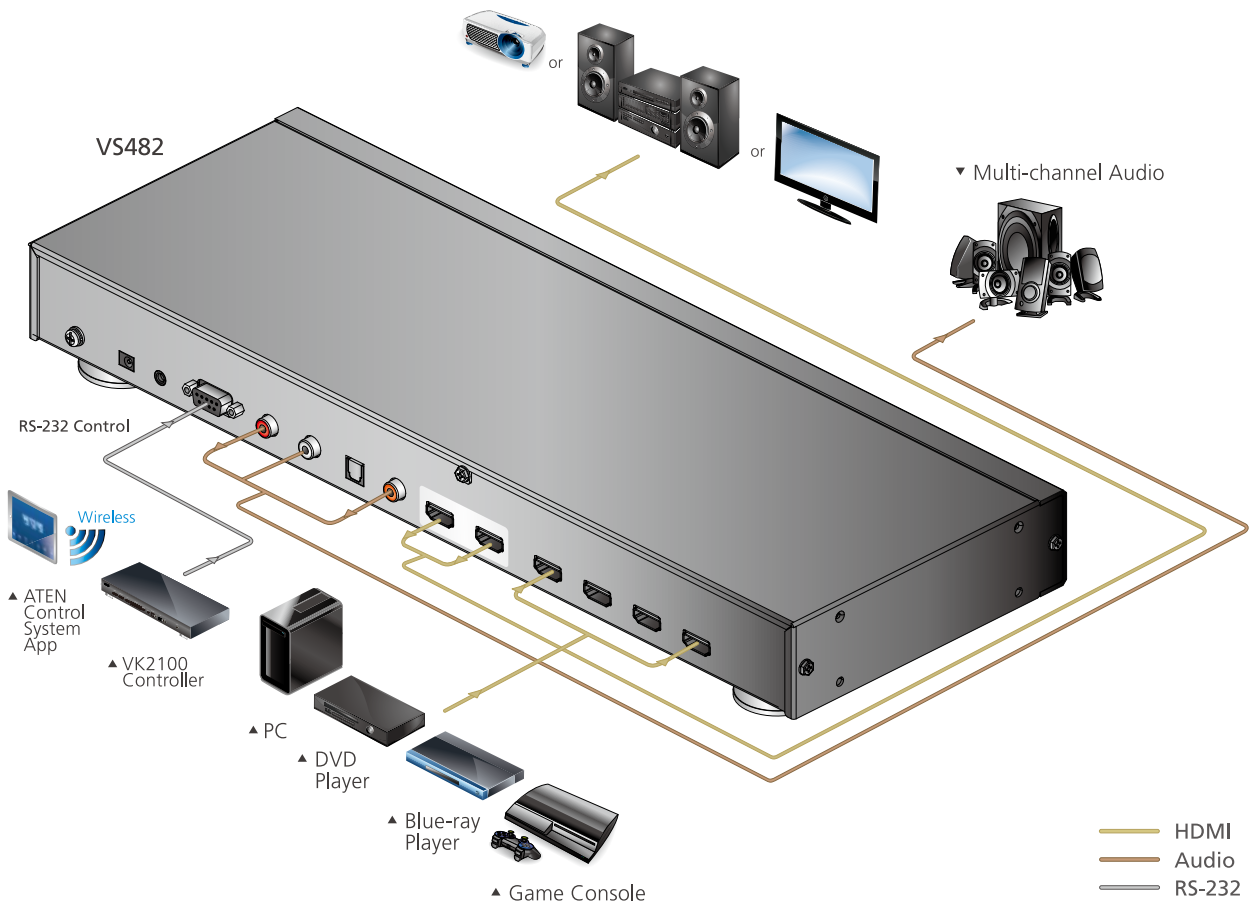
## Features

- 4 x 2 HDMI I/O connections
- **Instant Switching** – instant switch among different input sources via front- panel pushbuttons / IR remote control / RS-232 serial device
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **On-Screen Display (OSD)** for system configuration settings and information display
- **Audio Return Channel (ARC) function** – audio from an HDMI source can be sent to an audio/video receiver by connecting an HDMI cable to the ARC port
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Extends IR transmission via IR extension cable
- Rack-mountable

## Setup > VS482

6

Video Switches





## Specifications

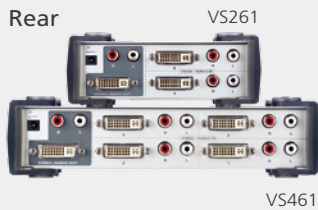
Function	VS482
<b>Video Input</b>	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 $\Omega$
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 $\Omega$
Max. Distance	15 m
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Audio Return Channel, Deep Color) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
<b>Audio</b>	
Input	4 x HDMI Type A Female (Black)
Output	Analog: 2 x RCA (Red / White) Digital: 1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
<b>EDID Settings</b>	EDID Mode: Default / Port1 / Auto
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 6.95W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.17 kg ( 4.78 lb )
Dimensions (L x W x H)	43.72 x 15.86 x 4.40 cm (17.21 x 6.24 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x IR Remote Control Unit; 1x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
IR Receiver Cable	2XRT-0003G	12-2
IR Remote Control	2XRT-0010G	12-2

\*Cables with different lengths are available, please refer to 11-5.

## VS261 / VS461 2/4-Port DVI/Audio Switch



### Features

- 2 x 1 or 4 x 1 DVI I/O connections
- Video switching via front-panel pushbuttons / IR remote control
- **Power-on Detection** – switches to the next powered-on source when one source is powered off

### Specifications

Function	VS261	VS461
<b>Video Input</b>		
Interfaces	2 x DVI-I Female (White)	4 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	5 m	5 m
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5 m	Up to 5 m
<b>Audio</b>		
Input	4 x Stereo RCA Jack Female (Red/White)	8 x Stereo RCA Jack Female (Red/White)
Output	2 x Stereo RCA Jack Female (Red/White)	2 x Stereo RCA Jack Female (Red/White)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 1.91W	5.3 VDC, 4.93 W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.50 kg ( 1.1 lb )	0.75 kg ( 1.65 lb )
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
<b>Carton Lot</b>	10 pcs	10 pcs
<b>Included Accessories</b>	1x IR Remote Control Unit; 1x Power Adapter	

### Optional Accessories

Description	Part No. / Spec.	Page No.
IR Remote Control	2XRT-0101G	12-2

## VS0201 / VS0401 2/4-Port VGA/Audio Switch



(Optional)



### Features

- 2 x 1 or 4 x 1 VGA I/O connections
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Video switching via front-panel pushbuttons / IR remote control / RS-232 serial device
- Extends IR transmission via IR extension cable

### Specifications

Function	VS0201	VS0401
<b>Video Input</b>		
Interfaces	2 x HDB-15 Male (Blue)	4 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	30 m	30 m
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
<b>Audio</b>		
Input	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 0.55W	5.3 VDC, 0.55W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.45 kg ( 0.99 lb )	0.66 kg ( 1.45 lb )
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Power Adapter	

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	11-6
IR Receiver Cable	2XRT-0003G	12-2
IR Remote Control	2XRT-0101G	12-2
Mounting Kit (VS0401)	2X-020G	12-2

# VS0801A 8-Port VGA/Audio Switch with Auto Switching



Front



Rear



## Features

- 8 x 1 VGA I/O connections
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- An optional **Port-Switching VGA cable** featuring a port-switching button can be installed between the switch and a source device for video switching
- Video switching via front-panel pushbuttons / IR remote control / RS-232 serial device / port-switching cable
- Front-Panel LED indication of power and port status
- Rack-mountable

## Specifications

Function	VS0801A
<b>Video Input</b>	
Interfaces	8 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
<b>Audio</b>	
Input	8 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)
<b>Control</b>	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 1.01W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.10 kg ( 4.63 lb )
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
Port Switching VGA Cable	2L-5202B / 2L-5203B / 2L-5205B	12-2
IR Remote Control	2XRT-0007G	12-2

## VS201 2-Port VGA Switch Wall Plate



### Features

- 2 x 1 VGA I/O connections
- Compact design with convenient topside connection—lays flat on a desktop or mounts on a wall
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting via a slide switch when a source is connected to the port

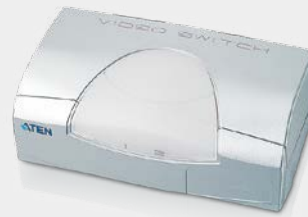
### Specifications

Function	VS201
<b>Video Input</b>	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	30 m
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 0.32W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.20 kg ( 0.44 lb )
Dimensions (L x W x H)	10.36 x 7.90 x 2.79 cm (4.08 x 3.11 x 1.1 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power Adapter

## VS291 / VS491 2/4-Port VGA Switch



Rear



### Features

- 2 x 1 or 4 x 1 VGA I/O connections
- Video switching via the topside pushbutton

## Specifications

Function	VS291	VS491
<b>Video Input</b>		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	10 m	10 m
<b>Video</b>		
Max. Data Rate	150 MHz	150 MHz
Max. Pixel Clock	Up to 1920 x 1440	Up to 1920 x 1440
Compliance	Up to 10 m	Up to 10 m
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	9 VDC, 0.9W	9 VDC, 1.35W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic / Metal	Plastic / Metal
Weight	0.15 kg ( 0.33 lb )	0.18 kg ( 0.4 lb )
Dimensions (L x W x H)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power Adapter	

## VS881 8-Port VGA Switch with Auto Switching



### Features

- 8 x 1 VGA I/O connections
- Video switching via pushbuttons / IR remote control
- Extra-thin IR handset design for easy storage under the unit
- **Automatic Switch Mode** – switches to the first active port detected

### Specifications

Function	VS881
<b>Video Input</b>	
Interfaces	8 x HDB-15 Male (Blue)
Impedance	75 $\Omega$
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 $\Omega$
Max. Distance	10 m
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 10 m
<b>Control</b>	
IR	1 x Mini Stereo Jack Female (Black)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 4.5W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	0.45 kg ( 0.99 lb )
Dimensions (L x W x H)	17.35 x 19.13 x 4.50 cm (6.83 x 7.53 x 1.77 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x IR Remote Control Unit; 1x Infrared Receiver; 1x VGA Cable; 1x Power Adapter

### Optional Accessories

Description	Part No. / Spec.	Page No.
IR Remote Control	2XRT-0007G	12-2

# Video Splitters

ATEN video splitters not only duplicate a single video source to multiple outputs but also boost the signal so it can be sent over longer distances without degradation. Multiple splitters can be cascaded up to three levels to provide a high number of displays in multiple locations. Models with audio functionality are available. ATEN video splitters are ideal for public broadcasting, computer stores, classrooms, training facilities and digital signage applications.



- **Cost Effective Expansion**

Video splitters easily and economically transmit the signals from a single A/V source to multiple output devices so that all the connected monitors display the same content simultaneously. If an application calls for more displays, its installation can be expanded by cascading additional units via port connections on the splitter.

- **High Bandwidth – Crisp Output**

With ultra-high bandwidth support, images appear crisp, clear and true on each of the target displays.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding A/V experience when working with modern multimedia applications.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.





## Specifications at a Glance

Model	VS1912	VS192	VS194	VS182B	VS184B	VS182A	VS184A	VS0108HA	VS0108HB
Interface	DisplayPort	DisplayPort	DisplayPort	HDMI	HDMI	HDMI	HDMI	HDMI	HDMI
Inputs to Outputs	1 to 12	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 8	1 to 8
Max Video Resolution	1920 x 1080	4K@60Hz		4K @ 60Hz (4:4:4)		4K@60 Hz (4:2:0)			4K @ 60Hz (4:4:4)
Audio	•	N/A	N/A	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
Max Pixel Clock	340MHz	N/A	N/A	600 Mhz	600 Mhz	340MHz	340MHz	340MHz	600 Mhz

Model	VS172	VS174	VS162	VS164	VS146
Interface	DVI	DVI	DVI	DVI	SDI
Inputs to Outputs	1 to 2	1 to 4	1 to 2	1 to 4	1 to 6
Max Video Resolution	2560 x 1600		1920 x 1200		1080p@60Hz
Audio	•	•	•	•	•
Max Pixel Clock	225MHz	225MHz	225MHz	225MHz	148.5 MHz

Model	VS0102	VS0104	VS0108	VS0116	VS132A	VS134A	VS138A
Interface	VGA	VGA	VGA	VGA	VGA	VGA	VGA
Inputs to Outputs	1 to 2	1 to 4	1 to 8	1 to 16	1 to 2	1 to 4	1 to 8
Max Video Resolution	1920 x 1440			1920 x 1440	2048 x 1536		
Audio	•	•	•	•			
Max Bandwidth	450 MHz	450 MHz	450 MHz	250 MHz	450MHz	450MHz	450MHz

Model	VS92A	VS94A	VS98A	VS132	VS102	VS82	VS84	VS88
Interface	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
Inputs to Outputs	1 to 2	1 to 4	1 to 8	1 to 2	1 to 2	1 to 2	1 to 4	1 to 8
Max Video Resolution	1920 x 1440			1920 x 1440	1920 x 1440	1920 x 1440		
Max Bandwidth	350MHz	350MHz	350 MHz	350MHz	250MHz	250MHz	250MHz	200 MHz

# VS1912 12-Port DP Video Wall Media Player



## Features

- PC-based player for digital signage and video wall applications
- Allows video walls of up to 12 displays
- **Supports creative, asymmetric layouts\***
- **Advanced Video Wall – Pictures and videos can be resized, layered (including Picture in Picture), spanned across multiple screens and rotated at 90° intervals.**
- Widgets display video, image, flash media, webpage, text, banner, clock, RSS or RTSP
- Flexible scheduling and profiles for easy management of connections

\*Asymmetric layouts can be formed using displays at right angles only (i.e. portrait and landscape orientations).

\*\* An RS-232 Splitter is required if you need to control more than two serial devices.

\*\*\* The VS1912 does not support HDCP.

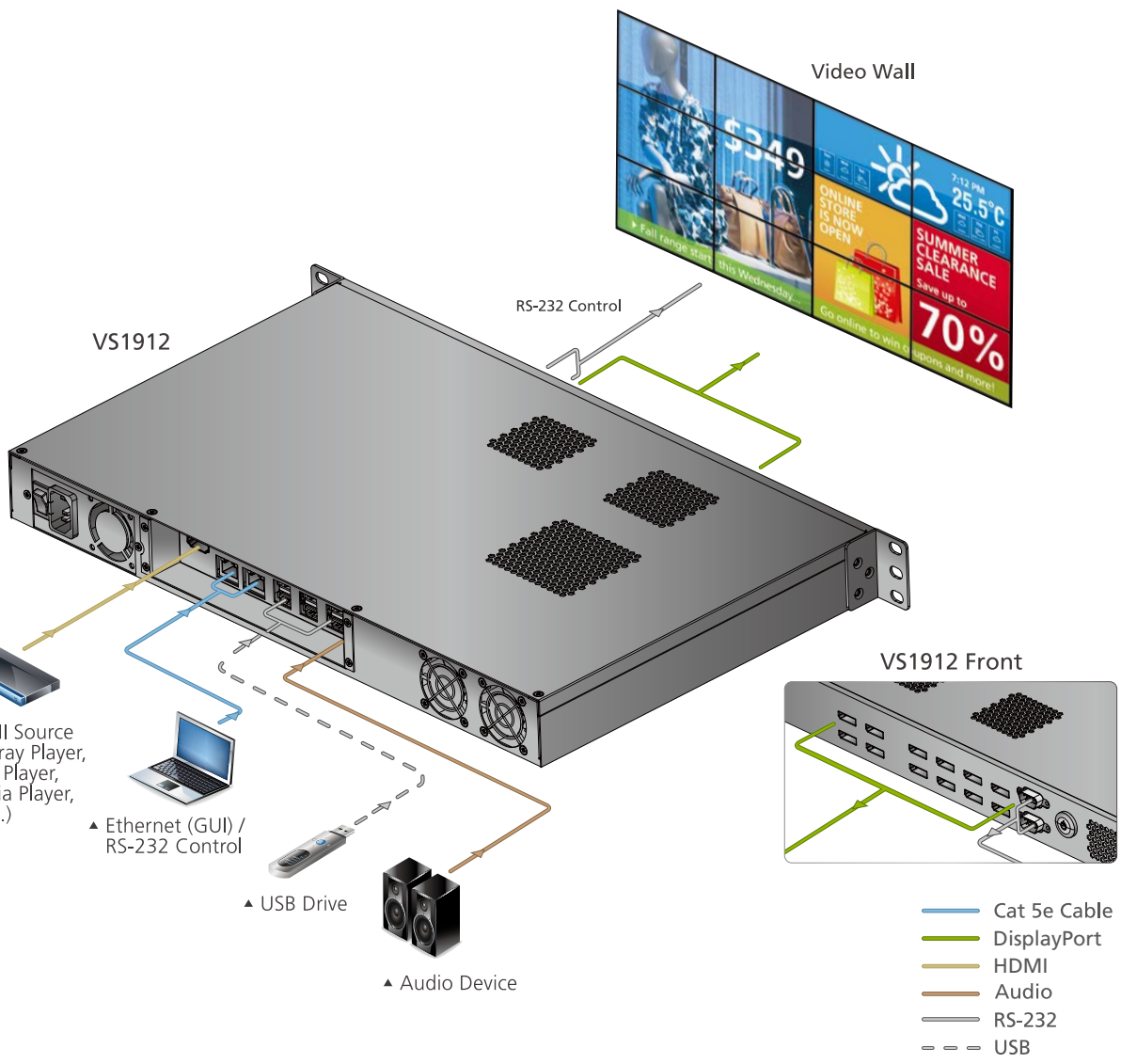
Front



Rear



## Setup > VS1912



7

Video Splitters

## Specifications

Function	VS1912
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female
<b>Video Output</b>	
Interfaces	12 x DisplayPort 1.1 Female
<b>Video</b>	
Max. Data Rate	8.64 Gbps (2.7 Gbps per lane)
Max. Pixel Clock	340 MHz (with DP to DVI active adapter)
Compliance	HDMI (3D, Deep Color) DisplayPort 1.1
<b>Audio</b>	
Output	1 x 3.5 mm Stereo Jack Female
<b>Control</b>	
RS-232	<b>Connector:</b> 2 x DB-9 Female (Black) <b>Baud Rate and Protocol:</b> Baud Rate: 38400~19200, Hardware & Software Flow Control *RS-232 functionality is pending and will be available with future firmware upgrades
Ethernet	2 x RJ-45 Female
<b>USB</b>	2 x USB 3.0 Female 4 x USB 2.0 Female
<b>Power</b>	
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 3A
Consumption	120 VAC, 400W; 230 VAC, 400W
Connectors	1 x 3-prong AC Socket
<b>Fan</b>	Airflow: 28.8 cfm (max. in free air) Operating voltage: 6.0 ~ 12.0 VDC Operating temp: -10 ~ 65 °C
<b>Storage Capacity</b>	64GB mSATA
<b>System Memory</b>	8GB DDR3
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	4.22 kg ( 9.3 lb )
Dimensions (L x W x H)	43.00 x 27.00 x 4.40 cm (16.93 x 10.63 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	12x DisplayPort to DVI Adapters; 1x Power Cord; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
DisplayPort Cable*	2L-7D02DP (2 m)	11-6
DisplayPort to VGA Adapter	VC925	9-11
DisplayPort to HDMI Adapter	VC985	9-11
DisplayPort to 4K HDMI Active Adapter	VC986	9-10

\*Cables with different lengths are available, please refer to 11-5 and 11-6.

# VS182B / VS184B 2/4-Port True 4K HDMI Splitter



## Features

- Connects 1 HDMI input to 2/4 HDMI outputs
- **Supports True 4K resolutions**
- EDID Expert™ selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different displays
- HDCP 2.2 compliant

## Specifications

Function	VS182B	VS184B
<b>Video Input</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8m / 4K@60Hz (4:4:4)	1.8m / 4K@60Hz (4:4:4)
<b>Video Output</b>		
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8m / 4K@60Hz (4:4:4) 15m / 1920 x 1200	1.8m / 4K@60Hz (4:4:4) 15m / 1920 x 1200
<b>Video</b>		
Max. Data Rate	18 Gbps ( 6 Gbps Per Lane)	18Gbps ( 6 Gbps Per Lane)
Max. Pixel Clock	600 MHz	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible	HDMI (3D, Deep Color, 4K); HDCP Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
<b>Audio</b>		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 4.25W	5 VDC, 4.84W
<b>Environmental</b>		
Operating Temperature	0 - 40 °C	0 - 40 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.32 kg ( 0.7 lb )	0.48 kg ( 1.06 lb )
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power adapter; 1x HDMI cable	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

# VS0108HB 8-Port True 4K HDMI Splitter



Front



Rear



## Features

- Connects 1 HDMI Input to 8 HDMI outputs
- **Supports True 4K resolutions**
- HDCP 2.2 compatible, and supports True 4K video resolution
- System management via RS-232 connections
- LED indication of power status and source devices
- **EDID Expert™**– Selects optimum EDID settings for smooth power-up, high quality display and use of the best resolution across different screens

## Specifications

Function	VS0108HB
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8m / 4K@60Hz (4:4:4)
<b>Video Output</b>	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	1.8m / 4K@60Hz (4:4:4)
<b>Audio</b>	
Input	1 x HDMI Type A Female (Black)
Output	8 x HDMI Type A Female (Black)
<b>Control</b>	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>EDID Settings</b>	EDID Mode: Port 1 / Default / Auto / Switch
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5VDC, 20W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	1.75kg ( 3.85lb )
Dimensions (L x W x H)	43.70 x 19.98 x 4.4 cm (17.2 x 6.29 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x Power adapter; 1x mounting kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

# VS182A / VS184A / VS0108HA 2/4/8-Port 4K HDMI Splitter



(VS0108HA)

## Front



## Features

- Connects 1 HDMI input to 2/4/8 HDMI outputs
- System management via RS-232 connections (VS0108HA)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens (VS0108HA)
- Rack-mountable (VS0108HA)

## Rear



## Specifications

Function	VS182A	VS184A	VS0108HA
<b>Video Input</b>			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
<b>Video Output</b>			
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
<b>Video</b>			
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m	Up to 15 m	Up to 15 m
<b>Audio</b>			
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
<b>Control</b>			
RS-232 (VS0108HA)	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No		
EDID Settings (VS0108HA)	EDID Mode: Default / Port 1 / Auto		
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 2.0W	5.3 VDC, 4.6W	5 VDC, 14.84W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Metal	Metal	Metal
Weight	0.31 kg ( 0.68 lb )	0.47 kg ( 1.04 lb )	1.74 kg ( 3.83 lb )
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	3 pcs
Included Accessories	1x HDMI Cable (VS182A/VS184A); 1x Power adapter; 1x Mounting Kit (VS0108HA)		

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.

## VS192 / VS194 2/4-Port 4K DisplayPort Splitter



Front



VS192

VS194

Rear



VS192

VS194

### Features

- Connects 1 DisplayPort input to 2/4 DisplayPort outputs
- **Supports 4K resolutions** and DisplayPort 1.2
- Supports SST (Single Stream Transport) and MST (Multiple Stream Transport) Modes:  
**SST Mode:** Duplicate a single video source on 2/4 displays with a maximum resolution of 4K on each monitor  
**MST Mode:** Extend a video source across 2/4 displays with a 4K resolution

**Requirement:**

The maximum supported video resolution and number of monitors is dependent the graphics card you are using. Check the specifications of the graphics card to determine its capabilities.

### Specifications

Function	VS192	VS194
<b>Video Input</b>		
Interfaces	1 x DisplayPort Female (Black)	1 x DisplayPort Female (Black)
<b>Video Output</b>		
Interfaces	2 x DisplayPort Female (Black)	4 x DisplayPort Female (Black)
<b>Video</b>		
Compliance	DP 1.2a; HDCP 1.3	DP 1.2a; HDCP 1.3
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz
Max. Data Rate	21.6 Gbps (5.4 Gbps per lane)	21.6 Gbps (5.4 Gbps per lane)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 1.185W	5 VDC, 3.36W
<b>Environmental</b>		
Operating Temperature	0 - 40 °C	0 - 40 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.30 kg ( 0.66 lb )	0.33 kg ( 0.73 lb )
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power adapter	

### Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (2 m)	11-6
DisplayPort to VGA Adapter	VC925	9-11
DisplayPort to HDMI Adapter	VC985	9-11

\*Cables with different lengths are available, please refer to 11-5.

# VS172 / VS174 2/4-Port DVI Dual Link/Audio Splitter **PRO**



Front



Rear



## Features

- Connects 1 DVI input to 2/4 DVI outputs
- System management via RS-232 connections
- **RS-232 Chain Control** – uses RS-232 commands to control cascaded devices via a DVI cable
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- The VS172/174 does not support HDCP

## Specifications

Function	VS172	VS174
<b>Video Input</b>		
Interfaces	1 x DVI-D Female (White)	1 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	13.5 Gbps (2.25 Gbps Per Lane)	13.5 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolution	Up to 2560 x 1600	Up to 2560 x 1600
Max. Distance	Up to 5 m	Up to 5 m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	<b>Connector:</b> 1 x DB-9 Female (Black) <b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Port 1 / Auto	<b>EDID Mode:</b> Default / Port 1 / Auto
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 3.1W	5.3 VDC, 5.6W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.68 kg ( 1.5 lb )	0.73 kg ( 1.61 lb )
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power adapter	

Note: HDCP is not supported

## Optional Accessories

Description	Part No. / Spec.	Page No.
Dual Link DVI Cable*	2L-7D03DD (3 m)	11-6
DVI Cable with Audio	2L-7D02V	11-6

\*Cables with different lengths are available, please refer to 11-6.



## VS162 / VS164 2/4-Port DVI/Audio Splitter



Front



VS162

VS164

Rear



VS162

VS164

### Features

- Connects 1 DVI input to 2/4 DVI outputs
- **DDC/CI support** – allows color, brightness, contrast and other adjustments via GUI for DDC/CI enabled LCD monitors
- Fully compliant with DVI-digital and DVI-analog

### Specifications

Function	VS162	VS164
<b>Video Input</b>		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
<b>Video Output</b>		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5 m	Up to 5 m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 2.4W	5.3 VDC, 4.0W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.62 kg ( 1.37 lb )	0.72 kg ( 1.59 lb )
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Power adapter	

### Optional Accessories

Description	Part No. / Spec.	Page No.
DVI Cable with Audio	2L-7D02V	11-6

# VS146 6-Port 3G-SDI Splitter



## Features

- Connects 1 SDI input to 6 SDI outputs
- Re-clocking SDI signals for cascading and thus longer transmission
- Automatic detection of 3G/HD/SD-SDI signals
- Passes all ancillary data
- Power connector lock for secure communication

## Specifications

Function	VS146
<b>Video Input</b>	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	6 x BNC (Gold)
Impedance	75 Ω
<b>Video</b>	
Max. Data Rate	2.97 Gbps
Supported Resolutions	NTSC@59.96 Hz, PAL@50 Hz 720p@50/59.94/60 Hz 1080i@50/59.94/60 Hz 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90 m (3G-SDI); 150 m (HD-SDI); 300 m (SD-SDI)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 10W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.32 kg ( 0.7 lb )
Dimensions (L x W x H)	10.80 x 13.90 x 2.80 cm (4.25 x 5.47 x 1.1 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power adapter

# VS0102 / VS0104 / VS0108 2/4/8-Port VGA/Audio Splitter (450MHz)

**PRO**



## Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- System management via RS-232 connections
- [RS-232 Chain Control](#) – uses RS-232 commands to control cascaded devices via VGA cable
- [EDID Expert™](#) – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Rack-mountable (VS0108)

## Specifications

Function	VS0102	VS0104	VS0108
<b>Video Input</b>			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
<b>Video Output</b>			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
<b>Video</b>			
Max. Bandwidth	450 MHz	450 MHz	450 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
<b>Audio</b>			
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
<b>Control</b>			
RS-232	1 x DB-9 Female (Black)		
<b>EDID Settings</b>			
	EDID Mode: Default / Port 1 / Auto		
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 0.8W	5.3 VDC, 1.2W	5.3 VDC, 2.3W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Metal	Metal	Metal
Weight	0.46 kg ( 1.01 lb )	0.68 kg ( 1.5 lb )	0.87 kg ( 1.92 lb )
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)	26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)
<b>Carton Lot</b>	10 pcs	10 pcs	10 pcs
<b>Included Accessories</b>	1x Power adapter		

## Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	11-6
Mounting Kit ( VS0108 )	2X-020G	12-2
VGA EDID Emulator	2A-130G	9-16

# VS0116 16-Port VGA/Audio Splitter (250MHz) **PRO**



## Front



## Features

- Connects 1 VGA input to 16 VGA outputs
- Rack-mountable

## Rear



## Specifications

Function	VS0116
<b>Video Input</b>	
Interfaces	1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	16 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	250 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
<b>Audio</b>	
Input	1 x Mini Stereo Jack Female (Green)
Output	16 x Mini Stereo Jack Female (Green)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 3.3W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.80 kg ( 6.17 lb )
Dimensions (L x W x H)	43.72 x 15.81 x 4.40 cm (17.21 x 6.22 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	1x VGA/Audio Cable; 1x Power Adapter; 1x Mounting Kit

## Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	11-6
VGA EDID Emulator	2A-130G	9-16

## VS132A / VS134A / VS138A 2/4/8-Port VGA Splitter (450MHz)



Front



Rear



### Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- A built-in 1.5 GHz amplifier that maintains video system with excellent fidelity

### Specifications

Function	VS132A	VS134A	VS138A
<b>Video Input</b>			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
<b>Video Output</b>			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
<b>Video</b>			
Max. Bandwidth	450 MHz	450 MHz	450 MHz
Max. Resolution	Up to 2048 x 1536	Up to 2048 x 1536	Up to 2048 x 1536
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 0.78W	5 VDC, 0.95W	5 VDC, 2.25W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Metal	Metal	Metal
Weight	0.42 kg ( 0.93 lb )	0.61 kg ( 1.34 lb )	0.69 kg ( 1.52 lb )
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
<b>Carton Lot</b>	20 pcs	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power adapter		

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	9-16

## VS92A / VS94A / VS98A 2/4/8-Port VGA Splitter (350MHz)



Rear



### Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Supports VGA, XGA, SVGA, UXGA, WUXGA and multi-sync monitors

### Specifications

Function	VS92A	VS94A	VS98A
<b>Video Input</b>			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
<b>Video Output</b>			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
<b>Video</b>			
Max. Bandwidth	350 MHz	350 MHz	350 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	9 VDC, 1.24W	9 VDC, 2.03W	9 VDC, 5.5W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Metal	Metal	Metal
Weight	0.42 kg ( 0.93 lb )	0.61 kg ( 1.34 lb )	0.69 kg ( 1.52 lb )
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
<b>Carton Lot</b>	20 pcs	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power adapter		

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	9-16

## VS132 2-Port VGA Splitter Wall Plate (350MHz)



### Features

- Connects 1 VGA input to 2 VGA outputs
- LED indication of power and signal status
- Compact design with convenient topside connection – lays flat on a desktop or mounts on a wall

### Specifications

Function	VS132
<b>Video Input</b>	
Interfaces	1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	350 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 65 m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 0.48W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.19 kg ( 0.42 lb )
Dimensions (L x W x H)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power adapter

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	9-16

## VS102 2-Port VGA Splitter Wall Plate (250MHz)



### Features

- Connects 1 VGA input to 2 VGA outputs
- LED indication of power and signal status
- Compact design with convenient topside connection – lays flat on a desktop or mounts on a wall

### Specifications

Function	VS102
<b>Video Input</b>	
Interfaces	1 x HDB-15 Male (Blue)
Impedance	75 $\Omega$
Max. Distance	1.8 m
<b>Video Output</b>	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 $\Omega$
<b>Video</b>	
Max. Bandwidth	250 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 65 m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	9 VDC, 1.89W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.19 kg ( 0.42 lb )
Dimensions (L x W x H)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power adapter

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	9-16



## VS82 / VS84 / VS88 2/4/8-Port VGA Splitter Wall Plate (Plastic) (250MHz)



### Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Supports VGA, XGA, SVGA, UXGA, WUXGA and multi-sync monitors
- Compact design with convenient topside connection – lays flat on a desktop or mounts on a wall

### Specifications

Function	VS82	VS84	VS88
<b>Video Input</b>			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
<b>Video Output</b>			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
<b>Video</b>			
Max. Bandwidth	250 MHz	250 MHz	250 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	9 VDC, 1.35W	9 VDC, 2.25W	9 VDC, 2.5W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Plastic	Plastic	Plastic
Weight	0.14 kg ( 0.31 lb )	0.15 kg ( 0.33 lb )	0.22 kg ( 0.48 lb )
Dimensions (L x W x H)	8.76 x 11.46 x 3.33 cm (3.45 x 4.51 x 1.31 in.)	8.84 x 11.88 x 3.33 cm (3.48 x 4.68 x 1.31 in.)	9.79 x 15.59 x 3.33 cm (3.85 x 6.14 x 1.31 in.)
<b>Carton Lot</b>	20 pcs	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x VGA Cable		

### Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	9-16

# Video Extenders, Video Boosters

ATEN Video Extenders use Cat 5e or fiber cables to allow you to extend the distance between the source device and displays in your video installations by up to 300 m or 20 km, making them ideal for applications where remote video displays are required. Video Extenders allow you to place computers or source devices in a secure location, or where they are protected from harsh environments, or simply when the display device needs to be at a distance from the source. ATEN's Video Booster allows you to extend the video transmission range up to twice the original distance, while the video synchronizer compensates for video signal delays and video color bleeding.



- **Video over IP Solution**

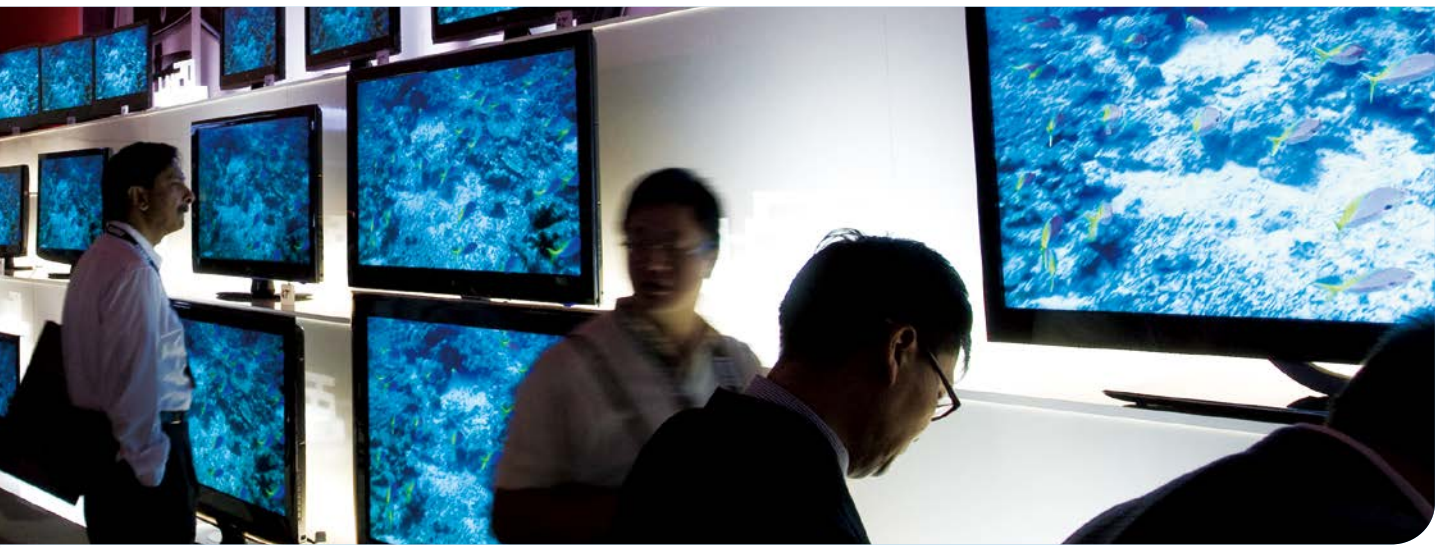
ATEN Video over IP Extenders deliver visually lossless high-quality video with ultra-low latency over a standard Gigabit network. Leveraging existing IT infrastructure, they feature a user-friendly design with Web GUI and ID Display and support a wide array of video-related applications including extending, splitting, matrix switching, video walls and daisy chaining. ATEN Video over IP Extenders remove distance and input/output limitations, offering flexible, scalable solutions that are also tailor-made for systems integrators to make over IP AV system implementation easy and simple - no additional server PCs, software or extensive IT experience are required. ATEN Video over IP Extenders are ideal for all video over IP environments, such as trade shows, airports, university campuses, conference centers, and shopping centers.

- **Optimum Video Quality**

ATEN's patented Deskew Technology automatically synchronizes the time delay of RGB signals and corrects the color phase and timing errors that occur over long distances to provide clear, sharp, optimized video to the remote displays.

- **HDBaseT™ Technology**

HDBaseT™ is a connectivity standard for home and commercial distribution of uncompressed HD multimedia content. The corner stone of HDBaseT™ technology is that it combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through as single Cat 5e / 6a cable. HDBaseT™ is optimized for professional A/V installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters. ATEN's HDBaseT products are compatible with HDBaseT-certified projectors or displays manufactured by EPSON, NEC, Panasonic, Sony and many more.



- **AOC+™ (Active Optical Cable Plus)**

AOC+™ is a technology that converts input signals into fiber optic signals between connectors over long distances. Using the EMI-free fiber optic cable as the medium between connectors to transmit signals, AOC+™ supports 3D and 4K resolutions in high bandwidth transmission over long distances. AOC+™ is fully compliant with HDMI standards and offers pure HDMI integration in high-speed transmission without sacrificing compatibility with standard electrical interfaces.

- **ExtremeUSB® Technology**

ATEN's VE813 extender supports ExtremeUSB® technology for extending transparent USB 2.0 signals over long distances of up to 100 meters. ExtremeUSB® support not only allows for peripheral sharing but also provides touch panel control and file transfer functionality for a wider range of applications.

- **WHDI Standard**

ATEN's wireless extenders are compatible with the Wireless Home Digital Interface (WHDI) standard, which allows them to send uncompressed Full HD video with very low latency (< 1 millisecond) over 5GHz proprietary wireless channels. They also support Dynamic Frequency Selection (DFS), allowing the extenders to operate within the U-NII Worldwide radio band. Operating within this regulated and less commonly used range greatly reduces Wi-Fi signal interference and improves transmission quality and stability.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.  
2.Product information is subject to change without prior notice.

## Specifications at a glance

	Over IP Extender			
Model	VE8900T	VE8900R	VE8950T	VE8950R
Interface	HDMI			
Max Resolution / Distance	1080p@100m	1080p@100m	4K@100m	4K@100m
Audio	• (HDMI) • Stereo	• (HDMI) • Stereo	• (HDMI) • Stereo	• (HDMI) • Stereo
IR Channel	•	•	•	•
RS-232 Channel	•	•	•	•
USB Channel	•	•	•	•
Scaler	N/A	•	N/A	•

	HDBaseT (Class A)						
Model	VE811	VE812	VE813A	VE814A	VE816R	VE1812	VE2812T
Interface	HDMI / HDBaseT						
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 3	1 to 1	1 to 1	2 Inputs
Max Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m; 1920x1200@100m
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI) • Stereo
IR Channel	N/A	N/A	N/A	•	•	•	•
RS-232 Channel	N/A	N/A	N/A	•	•	•	•
Ethernet	N/A	N/A	N/A	•	N/A	N/A	N/A
USB Channel	N/A	N/A	•	N/A	N/A	N/A	N/A
POH	N/A	N/A	N/A	N/A	N/A	•	N/A
Scaler	N/A	N/A	N/A	N/A	•	N/A	N/A

	HDBaseT (Class B)				
Model	VE801	VE802	VE805R	VE601	VE901
Interface	HDMI / HDBaseT			DVI / HDBaseT	DisplayPort / HDBaseT
Inputs to Outputs	1 to 1			1 to 1	1 to 1
Max Resolution / Distance	4K@40m; 1080p@70m	4K@40m; 1080p@70m	1080p @70m	1920 x 1200@40m; 1080p@70m	4K@40m; 1080p@70m
Audio	• (HDMI)	• (HDMI)	• (HDMI)	N/A	• (DisplayPort)
IR Channel	N/A	•	•	N/A	N/A
RS-232 Channel	N/A	•	•	N/A	N/A
Ethernet	N/A	N/A	N/A	N/A	N/A
USB Channel	N/A	N/A	N/A	N/A	N/A
POH	N/A	•	N/A	N/A	N/A
Scaler	N/A	N/A	•	N/A	N/A

	Optics			
Model	VE7832 / VE7833 / VE7834 / VE7835	VE883	VE882	VE892
Interface	HDMI / AOC + Fiber	HDMI / Optical Fiber		
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1
Max Resolution / Distance	True 4K@ 15m; True 4K@ 30m True 4K@ 60m; True 4K@ 100m	4K@300m (MM); 4K@10km (SM)	1080p@600m	1080p@20km
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
IR Channel	N/A	•	•	•
RS-232 Channel	N/A	•	•	•
Ethernet	N/A	•	N/A	N/A
USB Channel	N/A	•	N/A	N/A

	Wireless			
Model	VE819	VE809	VE829	VE849
Interface	HDMI / Wireless			
Inputs to Outputs	1 to 1	2 to 1	5 to 2	2 to 5
Max Resolution / Distance	1080p@10m	1080p@30m		
Audio	• (HDMI)			
IR Channel	N/A	•	•	•
USB Channel	N/A	N/A	USB HID	N/A

	Wall Plate (US)			Wall Plate (MK)		
Model	VE806	VE606	VE156	VE807	VE607	VE157
Interface	HDMI / Cat (x)	DVI / Cat (x)	VGA / Cat (x)	HDMI / Cat (x)	DVI / Cat (x)	VGA / Cat (x)
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Max Resolution / Distance	1080p@40m; 1080i@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@30m; 1280 x 1024@150m	1080p@40m; 1080i@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@30m; 1280 x 1024@150m
Audio	• (HDMI / Stereo)	• (Stereo)	• (Stereo)	• (HDMI / Stereo)	• (Stereo)	• (Stereo)
IR Channel	N/A	N/A	N/A	N/A	N/A	N/A
RS-232 Channel	N/A	N/A	N/A	N/A	N/A	N/A

	Equalizer					
Model	VE800A	VE803	VE810	VE066	VE600A	VE602
Interface	HDMI / Cat (x)			DVI / Cat (x)		
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1		
Max Resolution / Distance	1080p@40m; 1080i@60m			1920 x 1200 @20m	1080p @40m; 1080i @60m	Dual link: 2560 x 1600@40m Single Link: 1920 x 1200@40m; 1280 x 1024@60m
Audio	• (HDMI)			N/A	• (Stereo)	• (Stereo)
IR Channel	N/A	N/A	•	N/A	N/A	N/A
USB Channel	N/A	•	N/A	N/A	N/A	N/A

	Equalizer				
Model	VE022	VE150A	VE170	VE170Q	VE200
Interface	VGA / Cat (x)				
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 2
Max Resolution / Distance	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1024 x 768@300m	1920 x 1200@150m; 1280 x 1024@300m	1920 x 1200@30m; 1280 x 1024@200m
Audio	•	N/A	•	N/A	•
RS-232 Channel	N/A	N/A	N/A	N/A	•

	Booster		
Model	VE560	VB100	VB800
Interface	DVI / Cat (x)	HDMI	HDMI /
Inputs to Outputs	1 to 1	1 to 1	1 to 1
Max Resolution / Distance	1920 x 1200@30m; 1280 x 1024@50m	Up to 4K@60 Hz (4:4:4) / 40 m	Up to 4K@60 Hz (4:4:4) / 40 m

# VE8900T / VE8900R VE8950T / VE8950R

HDMI over IP Transmitter / Receiver (1080p@100 m)  
4K HDMI over IP Transmitter / Receiver (4K@100 m)



Front (VE8950)

Rear (VE8950)

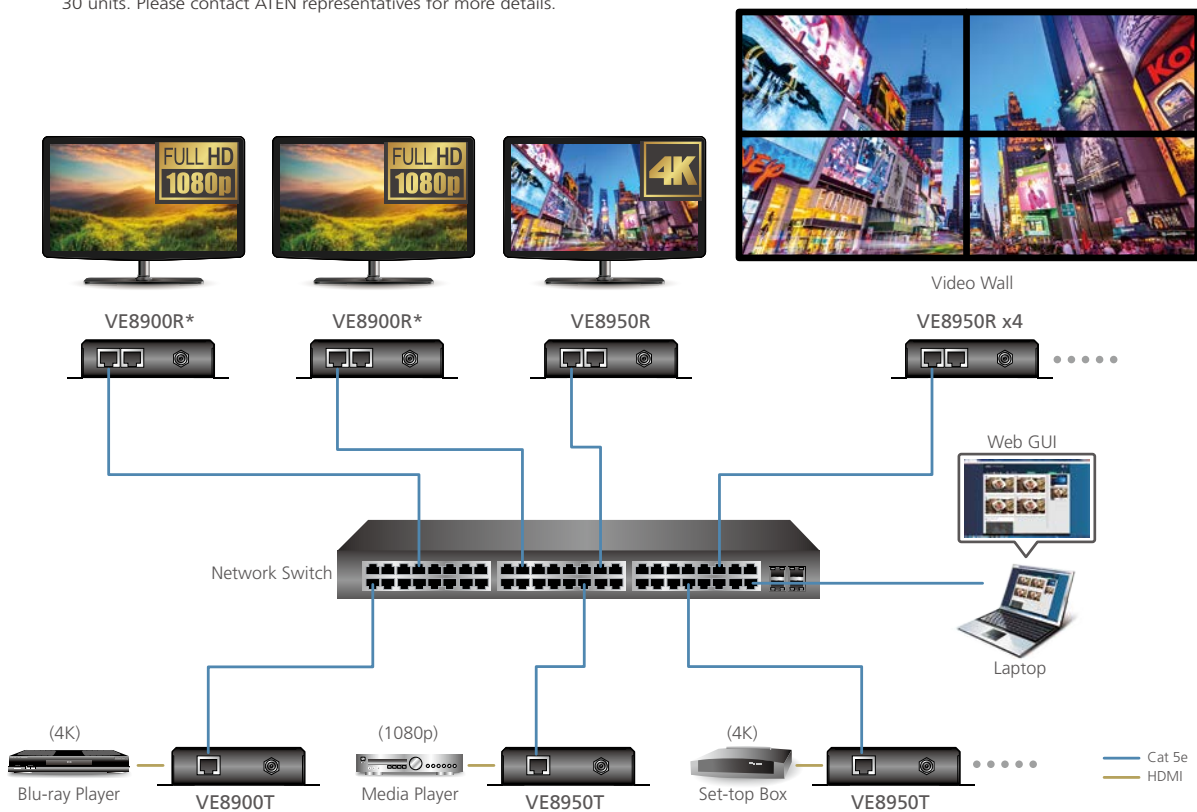
## Features

- Delivers visually lossless high-quality video up to 1080p @ 60 Hz (VE8900) / 4K @ 30 Hz 4:4:4 (VE8950)
- Ensures stunning quality video using ATEN advanced video lossless compression technology
- Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via LAN without distance limitations
- Offers multi-functionality in extender, splitter, matrix switch, video wall and daisy chain applications
- Mix and match the latest 4K displays and 1080p screens. The built-in scaler automatically scales incoming video signals to match the maximum resolution of the connected display devices\*
- No additional server PCs, control boxes, or software/drivers are needed
- Connects multiple displays through a single port to utilize every port of the network switch and maximize their value\*\*
- Easily switches layout profiles, preview and drag-and-drop video sources via the intuitive web GUI
- For VE8900T/8950T – separate audio signal can be embedded into the HDMI stream
- For VE8900R/8950R – audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Multiple control methods – the system can be managed via Ethernet or top-panel pushbuttons

## Setup > VE8900 / VE8950

Note: \* VE8900R supports up to 1080p. Downscaling from 4K to 1080p is not available on this model.

\*\*Depending on your network architecture, we recommend daisy chaining up to 30 units. Please contact ATEN representatives for more details.



## Specifications

Function	VE8900R	VE8950R	VE8900T	VE8950T
<b>Video Input</b>				
Interfaces	N/A		1 x HDMI Type A Female (Black)	
Impedance	N/A		100 Ω	
Max. Distance	N/A		1.8 m	
<b>Video Output</b>				
Interfaces	1 x HDMI Type A Female (Black)		N/A	
Impedance	100 Ω		N/A	
<b>Video</b>				
Max. Data Rate	Average: 150 ~ 500Mbps		Average: 150 ~ 500Mbps	
Compliance	HDMI HDCP Compatible	HDMI (4K) HDCP Compatible	HDMI HDCP Compatible	HDMI (4K) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@100m (Cat 5e/6, point to point)	Up to 4K@100m (Cat 5e/6, point to point) <b>*4K supported:</b> 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 1080p@100m (Cat 5e/6, point to point)	Up to 4K@100m (Cat 5e/6, point to point) <b>*4K supported:</b> 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>				
Input	N/A		1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)		N/A	
<b>Connectors</b>				
Unit To Unit	2 x RJ-45 Female		1 x RJ-45 Female	
<b>Control</b>				
IR	1 x Mini Stereo Jack Female (Black)		1 x Mini Stereo Jack Female (Black)	
RS-232	<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control		<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	
USB	2 x USB Type A Female (Black)		1 x USB Type B Female (White)	
<b>Power</b>				
Connectors	1 x DC Jack (Black) with locking		1 x DC Jack (Black) with locking	
Consumption	DC 5V, 4.2W (without USB peripheral device loading)	DC 5V, 4.6W (without USB peripheral device loading)	DC 5V, 3.2W	DC 5V, 3.3W
<b>Environmental</b>				
Operating Temperature	0 - 40°C		0 - 40°C	
Storage Temperature	-20 - 60°C		-20 - 60°C	
Humidity	0 - 80% RH, Non-Condensing		0 - 80% RH, Non-Condensing	
<b>Physical Properties</b>				
Housing	Metal		Metal	
Weight	0.49 kg (1.08 lb)		0.50 kg (1.10 lb)	
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.20 in.)		14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.20 in.)	
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.14 in.)		13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.14 in.)	
<b>Carton Lot</b>	5 pcs		5 pcs	
<b>Included Accessories</b>	1x RS-232 Terminal Block; 1x Power Adapter			

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

\*Cables with different lengths are available, please refer to 11-5.

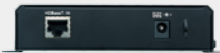
# VE816R 4K HDMI HDBaseT Receiver with Scaler (4K@100m)



Front



Rear



## Features

- **HDBaseT Long Reach Mode** – activated by RS-232 commands, the Long Reach Mode extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- **Scaler** – scales videos of different resolutions to their optimal output for display
- **Video Wall** – features video wall profiles that allows for custom screen layouts via an intuitive web GUI<sup>1</sup>
- **Seamless Switch™** – close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions<sup>1</sup>
- Bi-directional RS-232 channel – allows for control using serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – IR transmission is processed one direction at a time<sup>2</sup>
- Cable Quality Tester – examines the category cable quality through signal level detection from HDBaseT Matrix Switches / output board to the VE816R.
- Frame Sync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Rack-mountable

Note: 1.The Seamless Switch™ and video wall functions are available when the VE816R is used with ATEN HDBaseT Matrix.  
2.Supports full-frequency IR signals from 30 KHz to 56 KHz.

## Specifications

Functions	VE816R
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 10 m
<b>Video</b>	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color,4K); HDCP Compatible; HDBaseT Compatible
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Connectors</b>	
Unit To Unit	1 x RJ-45 Female
<b>Control</b>	
IR Channel	1 x Mini Stereo Jack Female (Black);
RS-232 Channel	1 x Terminal Block, 3 pole (Green)
<b>Power</b>	
Connectors	1 x DC Jack (Silver)
Consumption	DC 5V, 9.5W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.67 kg (1.48 lb)
Dimensions (L x W x H) with bracket	16.80 x 14.69 x 3.00 cm (6.61 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x IR Transmitter; 1x IR Receiver; 1x Terminal Block; 1x Power Adapter
<b>Optional Accessories</b>	Please refer to 8-46

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.



# VE811 HDMI HDBaseT Extender (4K@100m)



## Features

- **HDBaseT Connectivity** – extends an HDMI connection up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- HDMI (3D, Deep Color, 4K)
- HDCP 2.2 compatible
- Consumer Electronic Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- Built-in 8KV/ 15 KV ESD protection
- Wide screen format
- Plug and play
- Rack Mountable

## Specifications

Function	VE811R	VE811T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Switches</b>		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
<b>Power</b>		
Connectors	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Consumption	DC 5V, 3.9W	DC 5V, 3.8W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.17 kg ( 0.37 lb )	0.16 kg ( 0.35 lb )
Dimensions (L x W x H) with bracket	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapter	
<b>Optional Accessories</b>	Please refer to 8-46	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE1812 HDMI HDBaseT Extender with POH (4K@100m)



## Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via one Cat 5e / 6 / 6a cable
- Supports HDBaseT Long Reach Mode – Up to a maximum range of 150 meters @ 1080p
- 4k x 2k HDMI transmission distance up to 100m over Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during highquality video transmission using HDBaseT technology
- POH (Power over HDBaseT) – supplies power from Transmitter to Receiver over a long distance via one Cat 5e / 6 / 6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – Two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Rack mountable

## Specifications

Function	VE1812R	VE1812T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Switches</b>		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
<b>Power</b>		
Connectors	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Consumption	DC 5V, 6.4W	DC 5V, 4.3W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.45 kg ( 0.99 lb )	0.47 kg ( 1.04 lb )
Dimensions (L x W x H) with bracket	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x RS-232 Terminal Blocks	
<b>Optional Accessories</b>	Please refer to 8-46	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE2812T HDMI + VGA HDBaseT Transmitter (4K@100m)



## Features

- Extends HDMI or VGA signals over a single Cat 5e/6a cable
- HDMI (3D, Deep color, 4K); HDCP compatible
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- **Auto Switch Mode** – allows the VE2812T automatically switches to a newly plugged-in source
- Bi-directional RS-232 channel transmits signals
- Compatible Receivers – VE1812R, VE811R, VE814AR, VE801R, VE802R, VE601R, VE901R, or future ATEN HDBaseT Receivers
- Plug-and-play
- Rack mountable

## Specifications

Function	VE2812T
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100 Ω; HDB-15 (VGA): 75 Ω
Max. Distance	1.8 m
<b>Video</b>	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>	
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)
<b>Connectors</b>	
Unit To Unit	1 x RJ-45 Female
<b>Control</b>	
RS-232	<b>Connector:</b> 1 x Terminal Block, 3 pole <b>Baud Rate:</b> 19200, <b>Data Bits:</b> 8, <b>Stop Bits:</b> 1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
<b>Switches</b>	
Video Input Port Selection	1 x Push Button - HDMI, VGA and AUTO
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
<b>Power</b>	
Connectors	1 x DC Jack (Black) with locking
Consumption	DC 5V, 3W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.47 kg ( 1.04 lb )
Dimensions (L x W x H) with bracket	14.32 x 12.30 x 3.00 cm ( 5.64 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm ( 5.35 x 3.98 x 1.14 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x RS-232 Terminal Block; 1x Power Adapter
<b>Optional Accessories</b>	Please refer to 8-46

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE812 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

## Specifications

Function	VE812R	VE812T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 4.5W	5.3 VDC, 1.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.41 kg ( 0.9 lb )	0.40 kg ( 0.88 lb )
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 8-46	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE813A HDMI/USB HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



Front



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **ExtremeUSB®** – supports USB 2.0 high speed connections to provide touch panel control and file transfer functionality
- **USB 2.0 Support** – connects devices such as a keyboard, mouse, flash drive, printer, touch panel, USB 1.1 web camera and other USB devices that require moderate amounts of bandwidth
- **Rack-mountable**

## Specifications

Function	VE813AR	VE813AT
<b>Video Input</b>		
Interfaces	-	1 x HDMI Type A Female (Black)
Impedance	-	100 Ω
Max. Distance	-	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	-
Impedance	100 Ω	-
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	-	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	-
<b>Control</b>		
USB Channel	3 x USB Type A Female Transfer Rate: USB 2.0 (Up to 30 Mbps)	1 x USB Type B Female Transfer Rate: USB 2.0 (Up to 30 Mbps)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 5.75W Note: For the VE813AR, power consumption will be 13.25W when all 3 USB connectors are occupied.	5 VDC, 5.75W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.62 kg ( 1.37 lb )	0.61 kg ( 1.34 lb )
Dimensions (L x W x H)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x HDMI Cable; 1 USB Cable; 2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 8-46	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE814A HDMI HDBaseT Extender with Dual Output

(4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – Extends HDMI signals to one local and two remote displays up to 100 m via over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **ATEN EDID Technology** – features ATEN default and Port 1 EDID from the display connected to the transmitter (VE814AT)
- Bi-directional RS-232 channel transmits signals
- Two IR channels for IR signal transmission
- Allows Ethernet communication with the Ethernet pass-through port
- Rack-mountable

## Specifications

Function	VE814AR	VE814AT
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	2 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	2 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Connectors</b>		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
<b>Control</b>		
RS-232	<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	<b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	2 x Mini Stereo Jack Female (Black)	2 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female	1 x RJ-45 Female
<b>Switches</b>		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
<b>Power</b>		
Connectors	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Consumption	DC 5V, 7.9W	DC 5V, 5.1W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.47 kg ( 1.04 lb )	0.45 kg ( 0.99 lb )
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x IR Transmitter Cable; 1x IR Receiver Cable; 2x RS-232 Terminal Blocks; 2 Power Adapters	
<b>Optional Accessories</b>	Please refer to 8-46	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE901 DisplayPort HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B) 70 m



## Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via single 5e / 6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- DisplayPort receiver provides 3.3V/500mA of output power
- Rack-mountable

Front



Rear



## Specifications

Function	VE901R	VE901T
<b>Video Input</b>		
Interfaces	N/A	1 x DisplayPort Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.5 m
<b>Video Output</b>		
Interfaces	1 x DisplayPort Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	DisplayPort (Deep Color, 4K) HDCP Compatible	DisplayPort (Deep Color, 4K) HDCP Compatible
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x DisplayPort Female (Black)
Output	1 x DisplayPort Female (Black)	N/A
<b>Control</b>		
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Consumption	DC 5V, 7.95W	DC 5V, 3.13W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.27 kg ( 0.59 lb )	0.24 kg ( 0.53 lb )
Dimensions (L x W x H)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters	
<b>Optional Accessories</b>	Please refer to 8-47	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

**VE801** HDMI HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B)  
**VE802** HDMI HDBaseT-Lite Extender with POH (4K@40m) (HDBaseT Class B)

70 m



**Features**

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **POH (Power over HDBaseT)** – supplies power over a long distance via single Cat 6/6a cable (VE802)
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device (VE802)
- **Bi-directional IR channel** for IR signal control; IR transmission is processed one direction at a time (VE802)
- Rack-mountable

**Specifications**

Function	VE801R / VE802R	VE801T / VE802T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Control</b>		
RS-232	VE802R: <b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	VE802T: <b>Connector:</b> 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	VE802R: 1 x Mini Stereo Jack Female (Black)	VE802T: 1 x Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Consumption	VE801R: DC 5V, 4.23W VE802R: DC 5V, 4W	VE801T: DC 5V, 1.85W VE802T: DC 5V, 3.6W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	VE801R: 40 - 85% RH, Non-Condensing VE802R: 0 - 80% RH, Non-Condensing	VE801T: 40 - 85% RH, Non-Condensing VE802T: 0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	VE801R: 0.25 kg ( 0.55 lb ) VE802R: 0.46 kg ( 1.01 lb )	VE801T: 0.24 kg ( 0.53 lb ) VE802T: 0.44 kg ( 0.97 lb )
Dimensions (L x W x H) with bracket	VE801R: 9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.) VE802R: 14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	VE801T: 9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.) VE802T: 14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	VE801R: 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.) VE802R: 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	VE801T: 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.) VE802T: 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	VE801: 2x Power Adapters VE802: 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x Terminal Blocks	
Optional Accessories	Please refer to 8-47	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.



# VE805R HDMI HDBaseT-Lite Receiver with Scaler (1080p@70m) (HDBaseT Class B)



Front



Rear



## Features

- **HDBaseT Connectivity** – extends 4 x 4 HDBaseT connections over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Scaler** – features a video scaling function to integrate a video wall seamlessly with various output video formats\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device\*\*

Note: \*Seamless Switch™, scaler and video wall functions are only available when the VE805R is used with the VM8514 and VM3404H / VM3909H. If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

\*\* Bi-directional RS-232 Channel only available when VE805R is working with VM8514

## Specifications

Function	VE805R
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	6.75 Gbps (2.25 Gbps per lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible HDBaseT Compatible
Max. Resolutions / Distance	Up to 1080p @60m (Cat 5e/6); 70m (Cat 6a)
<b>Control</b>	
RS-232	1 x Captive Screw Connector, 3 Pole
IR	1 x Mini Stereo Jack Female (Black)
<b>Connectors</b>	
Unit To Unit	1 x RJ-45 Female
<b>Switches</b>	
Firmware Upgrade	1 x Slide Switch
<b>Power</b>	
Connectors	1 x DC Jack (Sliver)
Consumption	5 VDC, 9.5W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.81 kg ( 1.78 lb )
Dimensions (L x W x H)	17.74 x 16.92 x 4.20 cm(6.98 x 6.66 x 1.65 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 1x Terminal Block
<b>Optional Accessories</b>	Please refer to 8-47

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE7832 / VE7833 / VE7834 / VE7835

# True 4K HDMI 2.0 Active Optical Cable



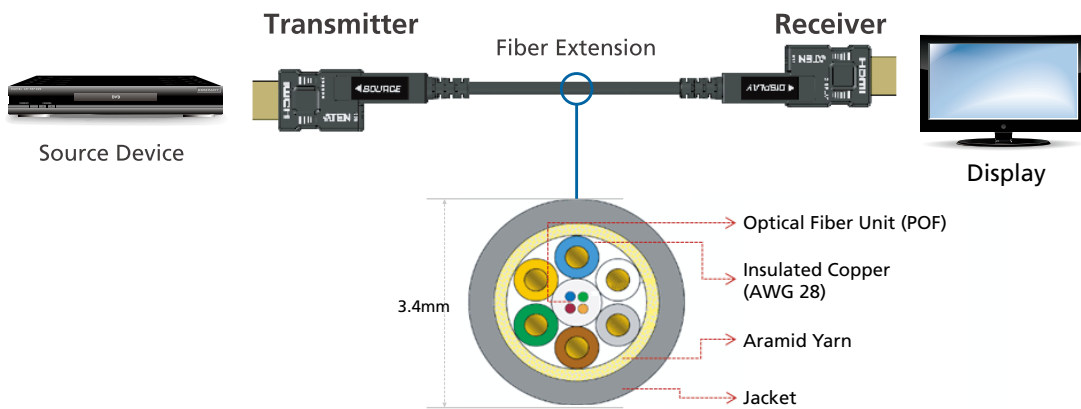
15 m (VE7832)	30 m (VE7833)
60 m (VE7834)	100 m (VE7835)



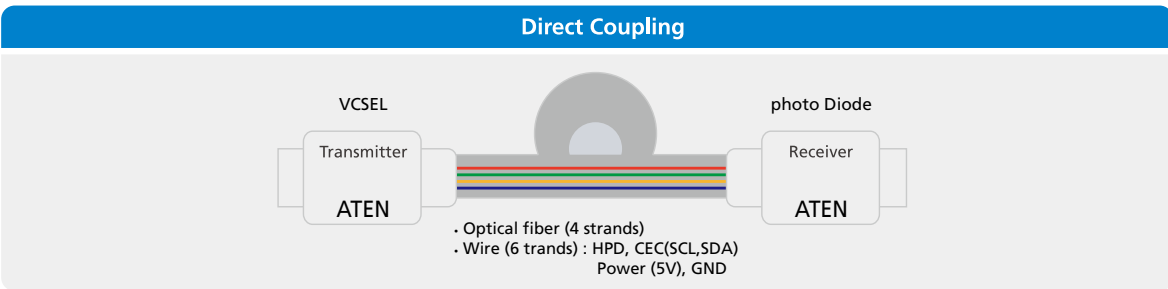
## Features

- Support resolution up to 4K 60Hz, 3D & Deep color
- Pluggable gender for easy installation
- Extends True 4K signals up to 100 m
- High data transfer rate of 18 Gbps
- Robust design – 500 N pulling strength & compression load resistance
- Additional power source is available via Micro USB cable
- Multi channel audio - Dolby TrueHD and DTS-HD
- HDMI compliance – EDID, CEC, HDCP 2.2

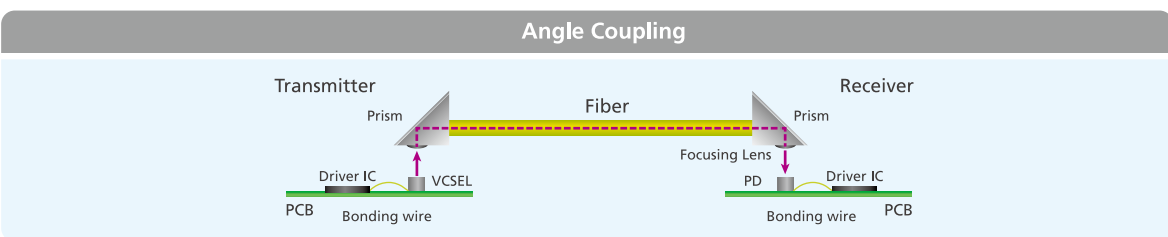
## Setup > VE7832 / V7833 / VE7834 / VE7835



### AOC+™



### Traditional



## Specifications

Function	VE7832/7833/7834/7835
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Male Connector (Black) 1 x HDMI Type D Male (Black)
Impedance	100 $\Omega$
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Male Connector (Black) 1 x HDMI Type D Male (Black)
Impedance	100 $\Omega$
<b>Video</b>	
Max. Data Rate	18 Gbps
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC) EDID
Max. Resolutions / Distance	VE7832: up to True 4K@15m VE7833: up to True 4K@30m VE7834: up to True 4K@60m VE7835: up to True 4K@100m
<b>Audio</b>	
Input	1 x HDMI Type A Male Connector (Black) 1 x HDMI Type D Male (Black)
Output	1 x HDMI Type A Male Connector (Black) 1 x HDMI Type D Male (Black)
<b>Power</b>	
Connectors	1 x Micro USB
Consumption	5 VDC, 0.63W
<b>Environmental</b>	
Operating Temperature	0-50°C
Storage Temperature	-30 - 70°C
Humidity	0 - 85% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	ABS
Weight	15m: 0.28kg ( 0.62 lb ) 30m: 0.5kg ( 1.10 lb ) 60m: 1kg ( 2.20 lb ) 100m: 1.64kg ( 3.62 lb )
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1 Wiring Tool; 2 Screws; 1 Micro USB to USB Cable

# VE883 4K HDMI Optical Extender (4K@300m (MM) / 10km (SM))

Audio Channel



Front



Rear



## Features

- Extends HDMI video, stereo audio, IR control, and RS-232 control signals over duplex fiber optic cables
- Duplex optical fiber cables to connect the transmitter and receiver units
- HDCP 2.2 compatible
- Supports 4K signals up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Bi-directional IR channel for IR signal transmission; full-range IR transmission (30 - 56 KHz) is processed one direction at a time
- Bi-directional RS-232 channel transmits signals over optic cable to control a display or other device
- Supports USB 2.0 up to 25M Byte/s or 200M Bit/s
- Supports 10M/100M/1G Ethernet channel
- Rack-mountable

## Specifications

Function	VE883R	VE883T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 5 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	Up to 10 m	N/A
<b>Video</b>		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
Max. Resolution	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)
Max. Distance	1 x SFP Module (*Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)	1 x SFP Module (*Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)
<b>Audio</b>		
Input	N/A	1 x Terminal Block, 5 pole (Green)
Output	1 x Terminal Block, 5 pole (Green)	N/A
<b>Connectors</b>		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Firmware Upgrade	1 x Micro USB (Type B) Female (Black)	1 x Micro USB (Type B) Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack with locking	1 x DC Jack with locking
Consumption	DC 5 V, 6.77W	DC 5 V, 7.05W
<b>Control</b>		
USB Channel	1 x USB Type A Female (White)	1 x USB Type B Female (White)
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
Ethernet Channel	1 x RJ45 Female	1 x RJ45 Female
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.64 kg ( 1.41 lb )	0.64 kg ( 1.41 lb )
Dimensions (L x W x H) with bracket	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters; 2x Terminal Block 3 Pole; 2x Terminal Block 5 Pole; 1x IR Receiver; 1x IR Emitter; 1x USB Cable; 2 xHDMI LockPro; 2x SFP Modules	
<b>Optional Accessories</b>	Please refer to 8-47	

Note: 1. For VE883K1: It is recommended that you use multi-mode fibers that conform to IEC 11801 (OM3) specifications. For VE883K2: It is recommended that you use single-mode fibers that conform to IEC 11801 (OS1), IEC 60793-2-50 B1.1 or ITU-T G.652.B specifications.  
2. Depending on your chosen model for the optical extender (VE883K1 or VE883K2), an SFP module of different transmission capability is equipped to add compatibility with single/multi mode fiber. VE883K1: optical extender with 10 Gbps/300m SFP Duplex Multi Mode Transceiver / VE883K2: optical extender with 10 Gbps/10 km SFP Duplex Single Mode Transceiver.

**VE882** HDMI Optical Extender (1080p@600m)  
**VE892** HDMI Optical Extender (1080p@20km)

600 m (VE882) 20 km (VE892)

**PRO**



Front



**Features**

- Extends an HDMI / IR / RS-232 connection via one optical fiber cable
- Connects the local and remote units via one optical fiber cable
- Bi-directional RS-232 channel transmits signals over optical fiber cable to control a display or other device
- **Bi-directional IR channel** for IR signal control; full range IR transmission (30~56 KHz) is processed one direction at a time
- Hot-pluggable
- Rack-mountable

Rear (VE882)



Rear (VE892)



**Specifications**

Function	VE882R / VE892R	VE882T / VE892T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolution	Up to 1080p	Up to 1080p
Max. Distance	VE882R: 1 x SFP Module (*Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) fiber VE892R: 1 x SFP Module (*Note) 20km @ Single mode (SM) fiber	VE882T: 1 x SFP Module (*Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) fiber VE892T: 1 x SFP Module (*Note) 20km @ Single mode (SM) fiber
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	VE882R: DC 5.3 V, 5.6W; VE892R: DC 5.3 V, 5.1W	VE882T: DC 5.3 V, 5.6W; VE892T: DC 5.3 V, 5.1W
<b>Control</b>		
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.44 kg ( 0.97 lb )	0.44 kg ( 0.97 lb )
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x IR Transmitter; 1x IR Receiver; 1x Mounting Kit; 2x Power Adapters	
<b>Optional Accessories</b>	Please refer to 8-47	

Note: 1. Operating distance is approximate. A typical maximum distance may vary depending on factors such as fiber type, bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.  
 2. It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.  
 3. The VE882 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.

# VE819 HDMI Dongle Wireless Extender (1080p@10m) 10 m



## Features

- Connects 1 HDMI input to 1 HDMI output via wireless extension up to 10 m\*
- IR remote control switches connection between multiple HDMI dongle transmitters
- WHDI™ Technology - Low latency <1ms
  - Uncompressed video transmission
- Extends signals up to 10 m, up to 7 m with superior image quality
- Plug and play

Note: \*Distance may vary depending on the actual environment; solid objects such as steel, concrete or brick may cause interference and shorten the transmission distances.

## Specifications

Function	VE819R	VE819T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Male (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	N/A
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p / 60Hz@10m (Line of Sight)	Up to 1080p / 60Hz@10m (Line of Sight)
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Male (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Control</b>		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	N/A
<b>Power</b>		
Connectors	1 x Mini USB Jack	1 x Mini USB Jack
Consumption	5 VDC, 7.5W (Mini USB)	5 VDC (Mini USB)
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.13 kg ( 0.29 lb )	0.03 kg ( 0.07 lb )
Dimensions (L x W x H)	9.50 x 9.50 x 3.33 cm (3.74 x 3.74 x 1.31 in.)	3.00 x 7.03 x 1.75 cm (1.18 x 2.77 x 0.69 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Mini USB to USB Cable; 2x Mini USB Power Adapters; 1x HDMI Cable; 1x Remote Control Unit with 2 AAA Batteries; 1x IR Receiver cable	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

# VE809 HDMI Wireless Extender (1080p@30m) 30 m



## Features

- Connects 2 HDMI inputs to 2 HDMI outputs (1 local + 1 remote) via wireless extension
- Transmits video content from Blu-ray DVD player, HD cable box or other HDMI devices wirelessly
- A built-in IR receiver for remote control of input devices
- WHDI™ technology – Low latency < 1ms  
– Uncompressed video transmission
- Plug and play

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

## Specifications

Function	VE809R	VE809T
<b>Video Input</b>		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m	Up to 1080p@30m
<b>Audio</b>		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Control</b>		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack (Mini USB)	1 x DC Jack
Consumption	5 VDC, 7.5W (Mini USB)	5 VDC, 10W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.33 kg ( 0.73 lb )	0.21 kg
Dimensions (L x W x H)	9.50 x 9.50 x 3.15 cm (3.74 x 3.74 x 1.24 in.)	18.20 x 9.65 x 3.15 cm (7.17 x 3.8 x 1.24 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x IR Remote Control; 1x IR Blaster Cable; 1x HDMI Cable ; 1x Mini USB; Power Adapter (VE809R); 1x Power Adapter (VE809T); 2x AAA Batteries	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

**VE829** 5x2 HDMI Wireless Extender (1080p@30m) 30 m

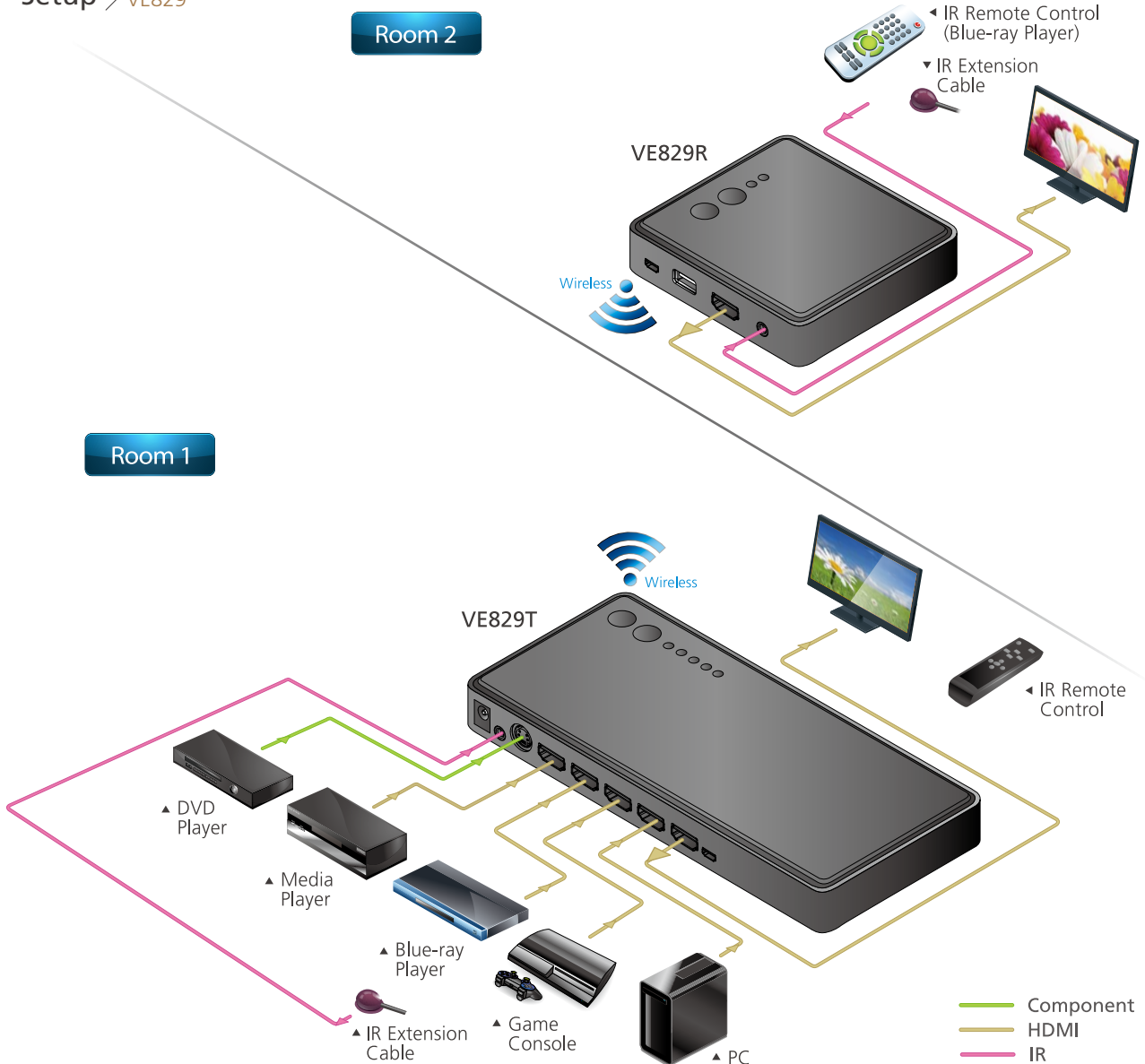


**Features**

- 5 x 2 Matrix - allows you to switch and independently select any of 5 sources (4 x HDMI connectors, 1 x component connector) between 2 HDTVs
- USB HID ports on the transmitter and receiver units enable wireless keyboard connectivity for control over connected computer
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology – Low latency < 1ms  
– Uncompressed video transmission
- 2 HDMI output displays – different source contents can be displayed at the two displays (one at the local side and the other at the remote side)

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

**Setup** > VE829





## Specifications

Function	VE829R	VE829T
<b>Video Input</b>		
Interfaces	N/A	4 x HDMI Type A Female (Black) 1 x Component Video Female (Blue/Green/Red)
Impedance	N/A	(HDMI)
Max. Distance	N/A	(HDMI)
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 $\Omega$	100 $\Omega$
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D) HDCP Compatible	HDMI (3D) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m	Up to 1080p@30m
<b>Audio</b>		
Input	N/A	4 x HDMI Type A Female (Black) 1 x Component Audio Female (Red/White)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Control</b>		
IR	1 x 2.5mm Jack Female (Black)	1 x 2.5mm Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack (Mini USB)	1 x DC Jack
Consumption	5 VDC, 6.7W (Mini USB)	5 VDC, 9.5W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.41 kg ( 0.9 lb )	0.30 kg ( 0.66 lb )
Dimensions (L x W x H)	9.50 x 9.50 x 3.55 cm (3.74 x 3.74 x 1.40 in.)	23.40 x 6.65 x 3.25 cm (9.21 x 2.62 x 1.28 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Remote Controls with batteries; 1x Component Adapter Cable; 1x IR Blaster Cable (VE829T); 1x IR Sensor Extender Cable (VE829R); 2x Power Adapters; 1x HDMI Cable	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

# VE849 Multicast HDMI Wireless Extender (1080p@30m) 30 m



Front



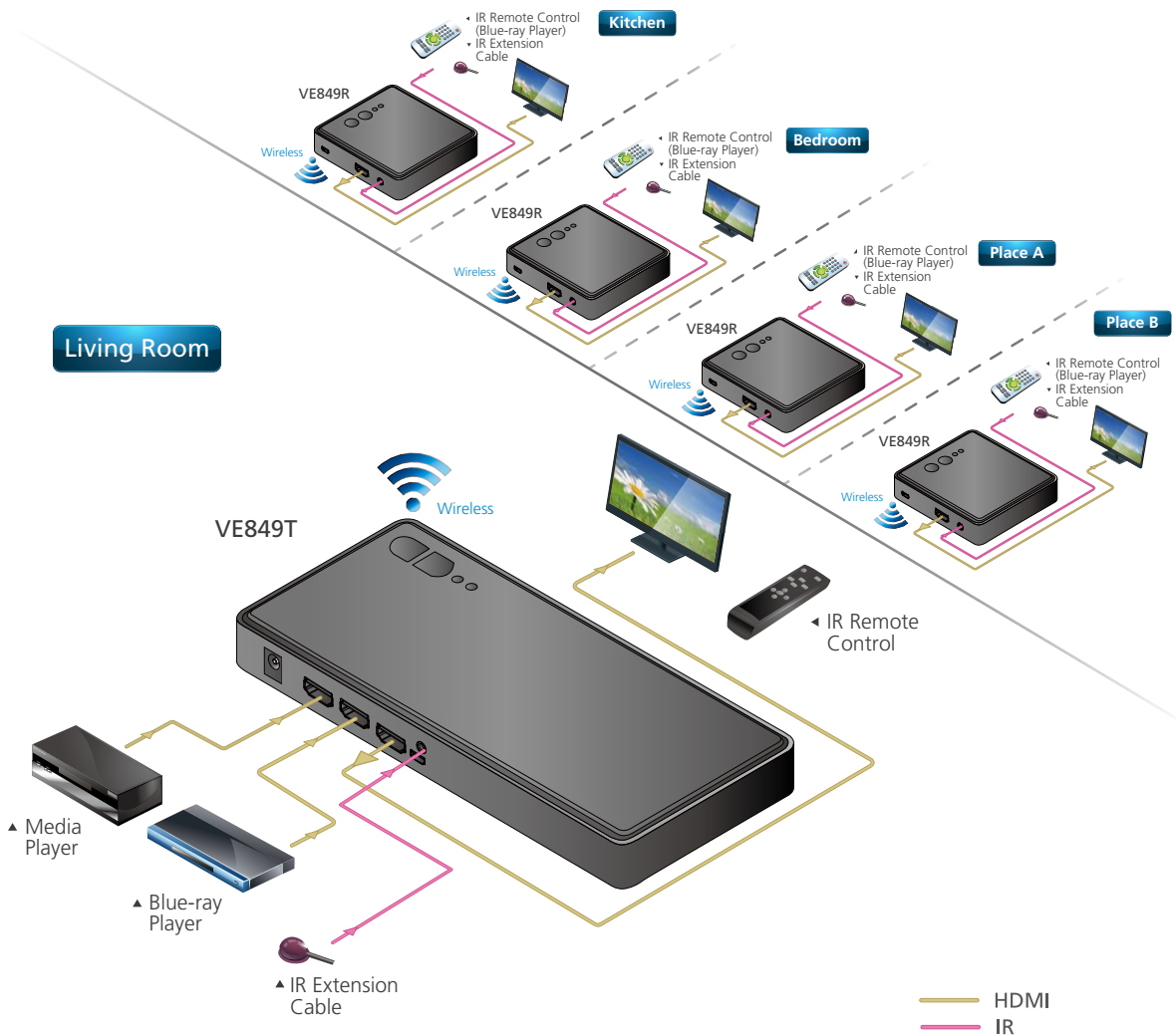
Rear



## Features

- Connects 2 HDMI inputs to 5 HDMI outputs (1 local + 4 remote) via wireless extension up to 30m\*
- **Multicast signal** – 1 transmitter streams HDMI transmissions up to 4 receivers simultaneously
- Built-in IR receiver with IR blaster cable allows control of source devices from the remote side
- WHDI™ Technology - Low latency <1ms  
- Uncompressed video transmission

Note: Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distances.



## Specifications

Function	VE849R	VE849T
<b>Video Input</b>		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 $\Omega$
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 $\Omega$	100 $\Omega$
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D) HDCP Compatible	HDMI (3D) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m	Up to 1080p@30m
<b>Audio</b>		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Control</b>		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack (Mini USB)	1 x DC Jack
Consumption	5 VDC, 7.5W (Mini USB)	5 VDC, 10W
<b>Environmental</b>		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.13 kg ( 0.29 lb )	0.21 kg ( 0.46 lb )
Dimensions (L x W x H)	9.50 x 9.50 x 3.50 cm (3.74 x 3.74 x 1.38 in.)	18.00 x 9.50 x 3.00 cm (7.09 x 3.74 x 1.18 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	VE849T: 1x IR Remote Control with 2 AAA Batteries; 1x IR Blaster Cable; 1x Power Adapter VE849R: 1x Mini USB Power Adapter; 1x IR Receiver Cable; 1x HDMI Cable	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

# VE800A HDMI Cat 5 Extender (1080p@40m) 60 m



Front



Rear



## Features

- Extends an HDMI connection via single Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable is required to connect between two VE800A units if EDID Bypass and/or HDCP authentication needs to be enabled.

## Specifications

Function	VE800AR	VE800AT
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 0.75W	5 VDC, 1W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.16 kg ( 0.35 lb )	0.16 kg ( 0.35 lb )
Dimensions (L x W x H)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters; 1x Mounting Kit	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

\*Cables with different lengths are available, please refer to 11-5.

# VE803 HDMI/USB Cat 5 Extender (1080p@40m) 60 m



## Features

- Extends an HDMI connection via Cat 5e cable
- **Supports Transparent USB connectivity** to all USB 2.0 full speed devices, such as a touch panel
- Transmitter unit can be powered on via USB
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID
- Rack-mountable

## Specifications

Function	VE803R	VE803T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Control</b>		
USB	1 x USB Type A Female	1 x USB Type B Female
<b>EDID Settings</b>		
	EDID Mode: Default	EDID Mode: Default
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 3.9W	5 VDC, 1W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.16 kg ( 0.35 lb )	0.16 kg ( 0.35 lb )
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
<b>Carton Lot</b>		
	5 pcs	5 pcs
<b>Included Accessories</b>		
	1x Power Adapter; 1x USB Cable; 1x Mounting Kit	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

\*Cables with different lengths are available, please refer to 11-5.

# VE810 HDMI/IR Cat 5 Extender (1080p@40m)

60 m



(VE810R)



Front



Rear



## Features

- Extends an HDMI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Compatible for use with all ATEN HDMI switches and splitters
- The remote unit can be powered on from the local unit via a Cat 5e cable
- [Bi-directional IR channel](#) for IR signal control; IR transmission is processed one direction at a time
- Rack-mountable

## Specifications

Function	VE810L	VE810R
<b>Video Input</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	1.8 m	N/A
<b>Video Output</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
<b>Audio</b>		
Input	1 x HDMI Type A Female (Black)	N/A
Output	N/A	1 x HDMI Type A Female (Black)
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Control</b>		
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 1.52W	5 VDC, 1.35W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.16 kg ( 0.35 lb )	0.16 kg ( 0.35 lb )
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power Adapter (Local Unit); 1x Mounting Kit; 1x IR Receiver; 1x IR Transmitter	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
IR Receiver Cable	2XRT-0003G	12-2

\*Cables with different lengths are available, please refer to 11-5.

# VE806 / VE807 HDMI/Audio Cat 5 Extender with US / MK Wall Plate (1080p@40m)



60 m PRO

Front



R

VE806R



T

VE806T



VE806



VE807

Rear



R

VE806R



T

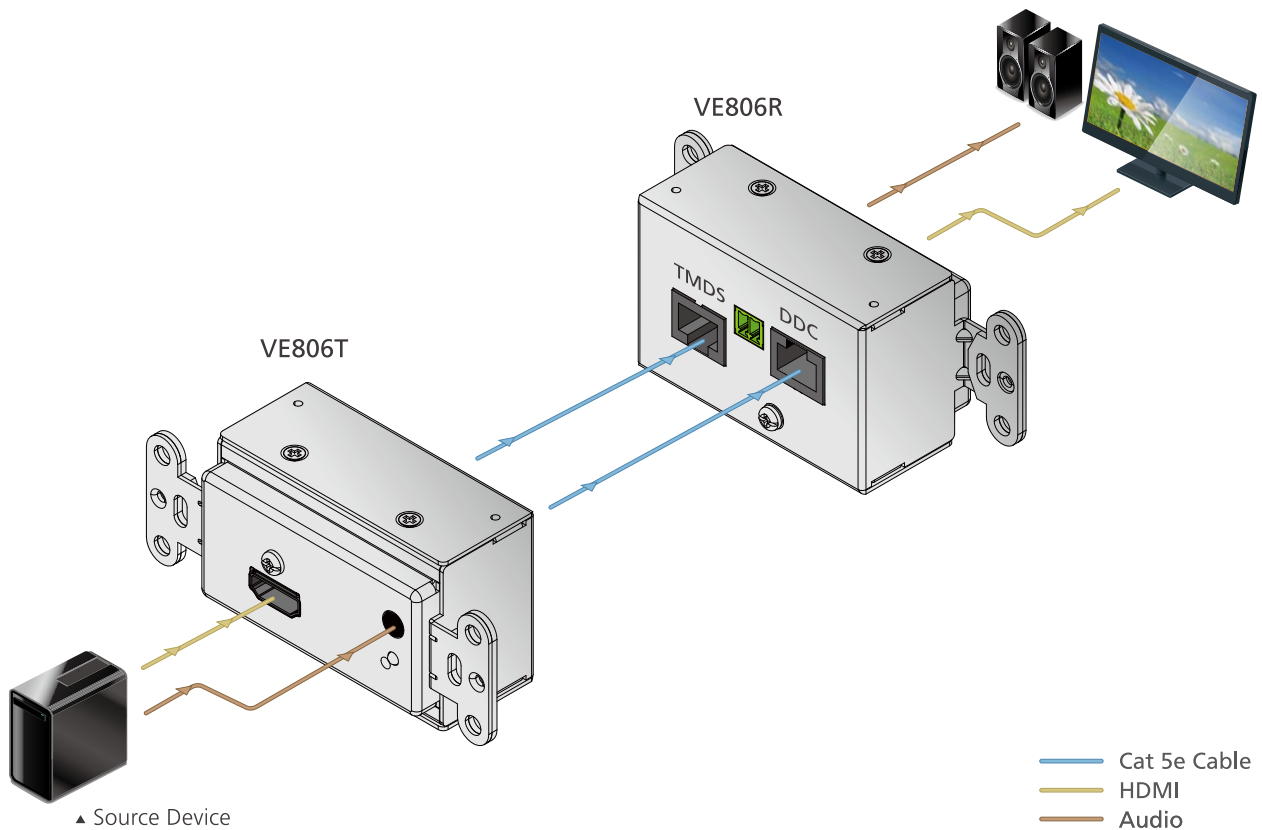
VE806T

## Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power\*
- Superior video quality up to 1080p @60 Hz (40 m) and 1080i @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
- VE806: Decora type design for US
- VE807: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

## Setup > VE806T + VE806R



## Specifications

Function	VE806R / 807R	VE806T / 807T
<b>Video Input</b>		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
<b>Audio</b>		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Power</b>		
Connectors	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Consumption	9 VDC, 2.9W	9 VDC, 2.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	VE806R: 0.17 kg ( 0.37 lb ) VE807R: 0.18 kg ( 0.4 lb )	VE806T: 0.17 kg ( 0.37 lb ) VE807T: 0.18 kg ( 0.4 lb )
Dimensions (L x W x H)	VE806R: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807R: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)	VE806T: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807T: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)
Faceplate Dimension (L x W x H)	VE807R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE807T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Terminal Block (VE806/VE807); 1x Power Adapter (VE806/VE807); 2x MK Type Wall Plate Covers (VE807); 8x Screw Covers (VE807); 1x Screw kit (VE807)	

## Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

\*Cables with different lengths are available, please refer to 11-5.



# VE606 / VE607 DVI/Audio Cat 5 Extender with US / MK Wall Plate (1920 x 1200@40m)



60 m PRO

Front



R

VE606R



T

VE606T



VE606



VE607

Rear



R

VE606R



T

VE606T

## Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power\*
- Uses a second Cat 5e cable for dual link signals
- Superior video quality up to 1080p @ 60 Hz (40 m) and 1080i @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
- VE606: Decora type design for US
- VE607: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

## Specifications

Function	VE606R / 607R	VE606T / 607T
<b>Video Input</b>		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
<b>Video Output</b>		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1920 x 1200@40m; 1280 x 1024@60m	Up to 1920 x 1200@40m; 1280 x 1024@60m
<b>Audio</b>		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Power</b>		
Connectors	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Consumption	9 VDC, 2.9W	9 VDC, 2.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.18 kg ( 0.4 lb )	0.18 kg ( 0.4 lb )
Dimensions (L x W x H)	VE606R: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607R: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)	VE606T: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607T: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)
Faceplate Dimension (L x W x H)	VE607R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE607T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE606/VE607); 1x Power Adapter (VE606/VE607); 2x MK Type Wall Plate Covers (VE607); 8x Screw Covers (VE607); 1x Screw kit (VE607)	
Optional Accessories	Please refer to 8-47	

# VE156 / VE157 VGA/Audio Cat 5 Extender with US / MK Wall Plate (1280 x 1024 @150 m)



150 m PRO

## Front



VE156R

VE156T



VE156

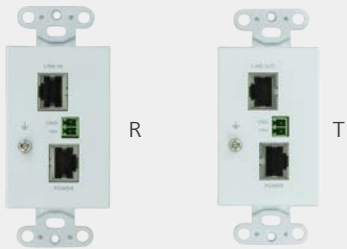
VE157

## Features

- Uses two Cat 5e/6 cables to connect the local and remote units - one to transmit video and audio; the other to supply power\*
- Superior video quality up to 1920 x 1200 @ 60 Hz (30 m) and 1280 x 1024 @ 60 Hz (150 m)
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Wall-mountable  
VE156: Decora type design for US  
VE157: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e cable connection is required to remotely power on either the transmitter or receiver.

## Rear



VE156R

VE156T

## Specifications

Function	VE156R / 157R	VE156T / 157T
<b>Video Input</b>		
Interfaces	N/A	1 x HDB-15 Female (Blue)
Impedance	N/A	100 Ω
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
<b>Audio</b>		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Connectors</b>		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
<b>Power</b>		
Connectors	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Consumption	9 VDC, 3.2W	9 VDC, 3.2W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.18 kg ( 0.4 lb )	0.18 kg ( 0.4 lb )
Dimensions (L x W x H)	VE156R: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157R: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)	VE156T: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157T: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)
Faceplate Dimension (L x W x H)	VE157R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE157T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x Terminal Block (VE156/VE157); 1x Power Adapter (VE156/VE157); 2x MK Type Wall Plate Covers (VE157); 8x Screw Covers (VE157); 1x Screw kit (VE157)	
<b>Optional Accessories</b>	Please refer to 8-47	

# VE601 DVI HDBaseT-Lite Extender (1080p@70m) (HDBaseT Class B) 70 m



## Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via a single Ethernet cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

## Specifications

Function	VE601R	VE601T
<b>Video Input</b>		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
<b>Video Output</b>		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	DVI (3D, Deep Color) HDCP compatible	DVI (3D, Deep Color) HDCP compatible
Max. Resolutions / Distance	Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p@60 m (Cat 5e/6) / 70 m (Cat 6a)	Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p@60 m (Cat 5e/6) / 70 m (Cat 6a)
<b>Power</b>		
Connectors	1 x DC Jack with locking	1 x DC Jack with locking
Consumption	5 VDC, 4.23 W	5 VDC, 1.85 W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.25 kg ( 0.55 lb )	0.25 kg ( 0.55 lb )
Dimensions (L x W x H)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters	
<b>Optional Accessories</b>	Please refer to 8-48	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE066 Mini DVI Cat 5 Extender (1920 x 1200@15m) 15 m



## Features

- Extends a DVI connection via Cat 5e cable
- Compatible for use with all ATEN DVI switches and splitters
- **Smart Video Display** – image quality is optimized based on available resolution of the output device
- Compact size ideal for limited space installation
- Hot-pluggable

## Specifications

Function	VE066R	VE066T
<b>Video Input</b>		
Interfaces	N/A	1 x DVI-D Male (Gold)
Impedance	N/A	100 Ω
<b>Video Output</b>		
Interfaces	1 x DVI-D Male (Gold)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	4.95 Gbps (1.65 Gbps Per Lane)	4.95 Gbps (1.65 Gbps Per Lane)
Max. Pixel Clock	165 MHz	165 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1080P@15m; 1080i@20m	Up to 1080P@15m; 1080i@20m
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.05 kg ( 0.11 lb )	0.05 kg ( 0.11 lb )
Dimensions (L x W x H)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)
<b>Carton Lot</b>	20 pcs	20 pcs

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

# VE600A DVI/Audio Extender (1920 x 1200@40m) 60 m PRO



## Features

- Extends a DVI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Supports A/V transmission over single Cat 5e cable with built-in ATEN EDID and patented video technology\*
- Rack-mountable

Note: \*A second Cat 5e cable connection (DDC) is required to remotely power on either the transmitter or receiver and also to bypass EDID & HDCP signals.



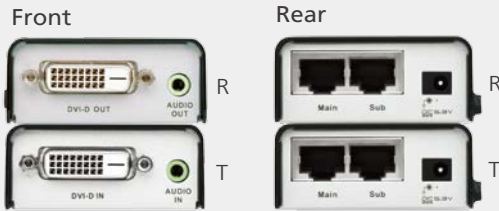
## Specifications

Function	VE600AL	VE600AR
<b>Video Input</b>		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Max. Distance	1.8 m	N/A
<b>Video Output</b>		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	N/A	1 x Mini Stereo Jack Female (Green)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 2.05W	5.3 VDC, 1.45W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.17 kg ( 0.37 lb )	0.17 kg ( 0.37 lb )
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	2x Power Adapters; 1x Mounting Kit	

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
DVI Cable with Audio	2L-7D02V	11-6

# VE602 DVI Dual Link/Audio Cat 5 Extender (2560 x 1600@40m) 60 m PRO



## Features

- Extends a DVI connection via Cat 5e cable
- Uses a second Cat 5e cable for dual link signals
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID and learning of the EDID from the display connected to the Transmitter (VE602T)
- Rack-mountable

\*The VE602 does not support HDCP

## Specifications

Function	VE602R	VE602T
<b>Video Input</b>		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
<b>Video</b>		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolutions / Distance	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m
<b>Audio</b>		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 0.9W	5.3 VDC, 1.1W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.18 kg ( 0.4 lb )	0.18 kg ( 0.4 lb )
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	2x Power Adapters; 1x Mounting Kit	

Note: HDCP is not supported

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
DVI Cable with Audio	2L-7D02V	11-6
Dual Link DVI Cable*	2L-7D03DD (3 m)	11-6

\*Cables with different lengths are available, please refer to 11-6.

## VE022 Mini VGA/Audio Cat 5 Extender (1280 x 1024@150m) 150 m



### Features

- Extends a VGA connection via Cat 5e cable
- Convenient docking interface for mounting on the display device
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable



### Specifications

Function	VE022R	VE022T
<b>Video Input</b>		
Interfaces	N/A	1 x HDB-15 Male (Black)
Impedance	N/A	75 Ω
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	75 Ω	N/A
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
<b>Audio</b>		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 0.88W	5 VDC, 0.44W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.05 kg ( 0.11 lb )	0.05 kg ( 0.11 lb )
Dimensions (L x W x H)	6.42 x 3.53 x 2.06 cm (2.53 x 1.39 x 0.81 in.)	7.35 x 3.53 x 2.06 cm (2.89 x 1.39 x 0.81 in.)
<b>Carton Lot</b>	20 pcs	20 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x VGA Cable; 1x Audio Cable ; 1x Dock Mount kit; 1x USB to DC Power Cord	

### Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1

# VE150A VGA Cat 5 Extender (1280 x 1024@150m) 150 m



Front



Rear



## Features

- Extends a VGA connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable
- Rack-mountable

## Specifications

Function	VE150AR	VE150AT
<b>Video Input</b>		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	75 Ω	N/A
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 1.2W	5.3 VDC, 1.0W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.24 kg ( 0.53 lb )	0.24 kg ( 0.53 lb )
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	2x Power Adapters; 1x VGA Cable; 1x Mounting Kit	

## Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 Cable	2L-2910	11-1
VGA EDID Emulator	2A-130G	9-16



# VE170 / VE170Q VGA/Audio Cat 5 Extender (1024 x 768@300m)

300 m

PRO



## Front



## Rear



## Features

- Extends a VGA connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable
- Deskew Function (VE170RQ) – allows you to synchronize the time delay of RGB signals to compensate for distance

Note: Package option 1: VE170 (VE170T + VE170R)  
 Package option 2: VE170Q (VE170T + VE170RQ)

## Specifications

Function	VE170R / VE170RQ	VE170T
<b>Video Input</b>		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	VE170R: Up to 1920 x 1200@30m; 1024 x 768@300m VE170RQ: Up to 1920 x 1200@150m; 1280 x 1024@300m	UUp to 1920 x 1200@30m; 1024 x 768@300m
<b>Audio</b>		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	VE170R: 5.3 VDC, 3.66W VE170RQ: 5.3 VDC, 4.82W	5.3 VDC, 2.66W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.24 kg ( 0.53 lb )	0.24 kg ( 0.53 lb )
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x VGA/Audio Cable; 2x Power Adapters; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 8-48	

# VE200 VGA/Audio/RS-232 Cat 5 Extender with Dual Output (1280 x 1024@200m)

200 m

PRO



(VE200R)

Front



Rear



## Features

- Extends a VGA connection via Cat 5e cable
- Bi-directional RS-232 channel transmits signals over Cat 5e cable to control a display or other device
- Supports one local and two remote displays
- An IR channel for screen On/Off control and video adjustment at remote site
- **Adjustable Gain Control** – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality
- Rack-mountable

## Specifications

Function	VE200L	VE200R
<b>Video Input</b>		
Interfaces	VE200L: 1 x HDB-15 Male (Blue)	N/A
Impedance	75 Ω	N/A
Max. Distance	1.8 m	N/A
<b>Video Output</b>		
Interfaces	1 x HDB-15 Female (Blue)	2 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
<b>Video</b>		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@200m	Up to 1920 x 1200@30m; 1280 x 1024@200m
<b>Audio</b>		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	1 x Mini Stereo Jack Female (Green)	2 x Mini Stereo Jack Female (Green)
<b>Control</b>		
RS-232	1 x DB-9 Female (Black), 1 x DB-9 Male (Black)	2 x DB-9 Male (Black)
IR(VE200R)	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
<b>Power</b>		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC, 2W	5.3 VDC, 3.9W
<b>Environmental</b>		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
<b>Physical Properties</b>		
Housing	Metal	Metal
Weight	0.35 kg ( 0.77 lb )	0.35 kg ( 0.77 lb )
Dimensions (L x W x H)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)
<b>Carton Lot</b>	5 pcs	5 pcs
<b>Included Accessories</b>	1x VGA/Audio Cable; 2x Power Adapters; 1x Infrared Remote Control Handset; 1x Infrared Receiver; 1x Infrared Receiver Holder; 1x Mounting Kit	
<b>Optional Accessories</b>	Please refer to 8-48	

## VB800 True 4K HDMI Booster (4K@20m; 1080p@40m)



Front



Rear



### Features

- Amplifies and transmits signals from an HDMI input to an HDMI output
- **Supports True 4K resolutions** and HDMI 2.0
- LED indication of source device status
- **Cascadable up to 10 levels with distances at 4K resolutions\***
- Plug-and-play – No software to install
- Rack-mountable

Note: \* The first, fourth, seventh and tenth level devices need to be connected to a power source.

### Specifications

Function	VB800
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
<b>Video</b>	
Max. Bandwidth	600 MHz
Max. Data Rate	18Gpbs(6 Gbps Per Lane)
Compliance	HDMI, HDCP 2.2 Compatible
Max. Resolutions / Distance	Up to 4Kx2K@60 Hz (4:4:4)/10m; 1080p@60Hz/20m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5VDC , [4K2K 60Hz] Power Consumption: 0.99W [1080p 60Hz] Power Consumption: 0.66W
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.09 kg ( 0.21 lb )
Dimensions (L x W x H)	4.90 x 5.60 x 1.70 cm (1.93 x 2.2 x 0.67 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Mounting Kit

### Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5

\*Cables with different lengths are available, please refer to 11-5.

## VE560 DVI Booster (1920 x 1200@30m) 50 m



### Features

- Extends a DVI connection over a long distance
- Easy connection to different digital video devices (e.g. STB, LCD monitor, projector, LCD TVs)
- Rack-mountable

Front



Rear



## Specifications

Function	VE560
<b>Video Input</b>	
Interfaces	1 x DVI-D Female (White)
<b>Video Output</b>	
Interfaces	1 x DVI-D Female (White)
<b>Video</b>	
Max. Data Rate	4.95 Gbps (1.65 Gbps Per Lane)
Max. Pixel Clock	165 MHz
Compliance	HDCP Compatible
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@50m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 1W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.16 kg ( 0.35 lb )
Dimensions (L x W x H) with bracket	9.30 x 5.50 x 2.40 cm (3.66 x 2.17 x 0.94 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Mounting Kit

## VB100 VGA Booster (1280 x 1024@70m) 70 m



Front



Rear



Side



### Features

- Amplifies and transmits signals from a VGA input to a VGA output
- LED indication of source device status
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable

### Specifications

Function	VB100
<b>Video Input</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video</b>	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@70m
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 0.9W
<b>Environmental</b>	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.06 kg ( 0.13 lb )
Dimensions (L x W x H) with bracket	3.53 x 6.88 x 2.06 cm (1.39 x 2.71 x 0.81 in.)
<b>Carton Lot</b>	10 pcs
<b>Included Accessories</b>	1x Power Adapter

Note: Please use the power adapter included in the package if VB100 cannot be powered via the source device. Respective length of both VGA cables can vary, but the total length of both cables cannot exceed 70 meters.

# Video Extender Rack Mount Kit VE-RMK1U / VE-RMK2U / VE-RMK3U

ATEN's Video Extender Rack Mount Kit offers a range of flexible mounting solutions for installing ATEN video extenders and KVM extenders in a rack. You can choose from three VE-RMK rack mount kits (1U to 3U) to match the extender type you are installing which allows for a well-organized and easy-to-maintain setup.



VE-RMK1U



## Features

- Standard 1U, 2U and 3U designs fit into rack space neatly
- Fixed stand allows extenders to be safely installed on the rack
- Allows easy cabling and maintenance
- Provides flexible rack mounting for 1 to 12 extenders

VE-RMK2U



VE-RMK3U



Product Name	Compatible Products
<p>VE-RMK1U</p>	<p>VE800A,VE803,VE810,VE600A,VE602,VE560,CE100,VE601,VE801,VE901,VE811,VB802,VE150A,VE170,VE172R,VE802,CE700A,CE250A,VS182A,CS72D,CS72E,VE882,VE892,VE812,UC2322/2324/4852/4854,VE1812,VE2812T,VE8900,VE8950,VS182B,KE6900ST,VS192,VS194,VE814A,CE350,CE370,CE600,CE602,CE604,CS74D,CS74E,VC880,CE750,CE750A,CE770,CE800B,CN8000,VS481A,VS481B,CE624,CE610A,CS724KM,VE883,VE816R,VS481C,VS184B</p>
<p>VE-RMK2U</p>	<p>VE800A,VE803,VE810,VE600A,VE602,VE560,CE100</p>
<p>VE-RMK3U</p>	<p>VE800A,VE803,VE810,VE600A,VE602,VE560,CE100,VE601,VE801,VE901</p>

## Optional Accessories

### VE816R

Description	Part No. / Spec.	Page No.
HDMI Cable	2L-7D02H-1 (2m), 2L-7D03H (3m), 2L-7D05H (5m), 2L-7D10H (10m),	11-5
Cat 6 Cable	2L-2910	11-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

### VE811

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

### VE1812

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

### VE2812T

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Port Switching VGA Cable	2L-5202B	12-2

### VE812

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

### VE813A

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

### VE814A

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

\*Cables with different lengths are available, please refer to 11-5.

## VE901

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (1.8m)	11-6
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
DisplayPort to VGA Adapter	VC925	9-11
DisplayPort to 4K HDMI Active Adapter	VC986	9-10

## VE801 / VE802

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz) (VE802)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz) (VE802)	2XRT-0004G	12-2

## VE805R

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
Cat 6 cable	2L-2910	11-1
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

## VE883

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	12-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	12-2

## VE882 / VE892

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	11-5
LockPro™ (HDMI Cable Lock)	2X-EA12	12-1

## VE606 / VE607

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
DVI Cable with Audio	2L-7D02V	11-6

## VE156 / VE157

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
VGA/Audio Cable	2L-2402A	11-6

\*Cables with different lengths are available, please refer to 11-5 & 11-6.



## VE601

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1

## VE170 / VE170Q

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
VGA / Audio Cable	2L-2402A	11-6
VGA EDID Emulator	2A-130G	9-16

## VE200

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	11-3
Cat 6 cable	2L-2910	11-1
VGA / Audio Cable	2L-2402A	11-6
VGA EDID Emulator	2A-130G	9-16
IR Remote control	2XRT-0301G	12-2

\*Cables with different lengths are available, please refer to 11-5.



# Video Converters

ATEN Video Converters allow you to connect a video source device to the display device of your choice, equipped with different video interfaces. We provide simple single port-to-port converters which enable you to connect VGA based devices to DVI / HDMI digital displays, and universal interface products which integrate multiple device inputs into a single box for easy converting of various analog-to-digital audio/video signals. With built-in easy-to-use features, this series makes converting connections simple.



- **Major Video Interface Support**

Our products incorporate all current video interfaces including; VGA, DVI, SDI, Mini DisplayPort and HDMI, while meeting the strict requirements needed for high quality signal conversions.

- **Compact Design**

Compact designs allow a neat and tidy workspace and trouble-free installation - solutions that think of you.

- **Easy Installation**

Flexible convenient installation – with no software or configuration required. Simply make the hardware connections and enjoy the experience.

- **Outstanding Multimedia**

With high-quality video, the integrated audio component delivers an outstanding AVV experience when working with modern multimedia applications and equipment.

- **Audio Extraction**

ATEN's additional audio de-embedder function extracts and converts audio signals from the HDMI input. This means you can choose between analog stereo via RCA connectors and digital audio via optical or coaxial connections for additional methods to produce high quality audio output.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.  
2.Product information is subject to change without prior notice.



### Specifications at a Glance

Model	VC840	VC812	VC810	VC480	VC182	VC180	VC160A
Input	HDMI	HDMI	HDMI	SDI	VGA	VGA	VGA
Outputs	SDI	VGA	VGA	HDMI	HDMI	HDMI	DVI
Max Video Resolution	1080p	1920 x 1200	1920 x 1200	1080p	1080p	1080p	1920 x 1200
Audio	•	• (HDMI)	N/A	•	• (HDMI)	•	N/A
Scaler	N/A	•	N/A	N/A	•	N/A	N/A

Model	VC920	VC960	VC980	VC981
Input	Mini DisplayPort	Mini DisplayPort	Mini DisplayPort	Mini DisplayPort
Outputs	VGA	DVI	HDMI	HDMI
Max Video Resolution	1920 x 1200	1920 x 1200	1920 x 1200	3840 x 2160
Audio	N/A	N/A	• (HDMI)	• (HDMI)

Model	VC925	VC965	VC985	VC986
Input	DisplayPort	DisplayPort	DisplayPort	DisplayPort
Outputs	VGA	DVI	HDMI	HDMI
Max Video Resolution	1920 x 1200	1920 x 1200	1920 x 1200	3840 x 2160
Audio	N/A	N/A	• (HDMI)	• (HDMI)

Model	VC010	VC060	VC080	VC880
Interface	VGA	DVI	HDMI	HDMI
Max Video Resolution	1080p; 1920 x 1200	1080p; 1920 x 1200	4K@60 Hz (4:2:0); 4K@30 Hz (4:4:4)	HDMI
Audio	N/A	N/A	• (HDMI)	1920 x 1080
RS-232	•	•	•	• (HDMI)

# VC840 HDMI to 3G-SDI/Audio Converter



## Features

- Converts HDMI input signals to a 3G/HD/SD-SDI output
- Automatic detection of input video signals
- Offers 2 low-jitter SDI outputs for dual display
- Supports 8 audio channels @48 KHz rate
- Re-clocking SDI signals for cascading and thus longer transmission
- Power connector lock for secure communications
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens

## Specifications

Function	VC840
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video Output</b>	
Interfaces	2 x BNC (Gold)
Impedance	75 Ω
<b>Video</b>	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
<b>Audio</b>	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
<b>SDI Formats</b>	
	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
<b>EDID Settings</b>	
	EDID Mode: Learn
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 3.5W
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.29 kg ( 0.64 lb )
Dimensions (L x W x H)	12.20 x 10.70 x 3.04 cm (4.8 x 4.21 x 1.2 in.)
<b>Carton Lot</b>	
	5 pcs
<b>Included Accessories</b>	
	1x Power Adapter

# VC812 HDMI to VGA/Audio Converter with Scaler **PRO**



## Features

- Converts HDMI input signals to a VGA output
  - Automatic detection of input video signals
  - Device configurations using a utility tool via mini USB port connection
  - **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
  - Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
  - **Integrated superior video noise reduction**
  - **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement
  - **Built-in OSD Function** – for video and system configurations via pushbuttons
  - **De-interlace Function** – for smooth video playback quality
- \*The VC812 does not support HDCP

## Specifications

Function	VC812
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
<b>Video</b>	
Max. Data Rate	165 MHz
Max. Pixel Clock	Up to 1920 x 1200
Supported Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
<b>Audio</b>	
Output	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 10W
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.29 kg ( 0.64 lb )
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Software CD

# VC810 HDMI to VGA Adapter



Front



Rear



## Features

- Converts HDMI input signals to a VGA output
- Compact and portable size

## Specifications

Function	VC810
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Male (Black)
Impedance	100 Ω
<b>Video Output</b>	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
<b>Video</b>	
Max. Pixel Clock	200 MHz
Max. Resolution	Up to 1920 x 1200
<b>Environmental</b>	
Operating Temperature	0 - 60 °C
Storage Temperature	-10 - 70 °C
Humidity	40 - 85% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	0.01 kg ( 0.02 lb )
Dimensions (L x W x H)	4.55 x 2.30 x 1.48 cm (1.79 x 0.91 x 0.58 in.)
<b>Carton Lot</b>	40 pcs

# VC480 3G-SDI to HDMI/Audio Converter



## Features

- Converts 3G/HD/SD-SDI input signals to an HDMI output
- Automatic detection of input video signals
- Buffered loop-through output provides extended monitoring
- Re-clocking SDI signals for cascading thus longer transmission
- Power connector lock for secure communications
- Supports 8 audio channels @48 KHz rate

## Specifications

Function	VC480
<b>Video Input</b>	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black); 1 x BNC (Gold)
Impedance	100 Ω
<b>Video</b>	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
<b>Audio</b>	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
<b>SDI Formats</b>	
	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 10W
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.29 kg ( 0.64 lb )
Dimensions (L x W x H)	12.30 x 10.87 x 3.05 cm (4.84 x 4.28 x 1.2 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter

## VC182 VGA/Audio to HDMI Converter with Scaler



### Features

- Converts VGA input signals to an HDMI output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- **Integrated superior video noise reduction**
- **De-interlace Function** – for smooth video playback quality
- **Built-in OSD Function** – for video and system configurations
- **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement

### Specifications

Function	VC182
<b>Video Input</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
Scaler Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
<b>Audio</b>	
Input	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5 VDC, 5W
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.31 kg ( 0.68 lb )
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
<b>Carton Lot</b>	5 pcs
<b>Included Accessories</b>	1x Power Adapter; 1x Software CD



# VC180 VGA/Audio to HDMI Converter



Front



Rear



## Features

- Converts VGA input signals to an HDMI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- Compact design and light-weighted
- **Screen Position Button** – saves screen position settings for each output resolution

## Specifications

Function	VC180
<b>Video Input</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
<b>Video</b>	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
<b>Audio</b>	
Input	1 x Mini Stereo Jack Female (Green)
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 3.2W
<b>Environmental</b>	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.15 kg ( 0.33 lb )
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power Adapter

## VC160A VGA to DVI Converter



Front



### Features

- Converts VGA input signals to a DVI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- **Screen Position Button** – saves screen position settings for each output resolution

### Specifications

Function	VC160A
<b>Video Input</b>	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 $\Omega$
<b>Video Output</b>	
Interfaces	1 x DVI-D Female (White)
Impedance	100 $\Omega$
<b>Video</b>	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1920 x 1200
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 2.8W
<b>Environmental</b>	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.15 kg ( 0.33 lb )
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power Adapter

# VC981 / VC986 Mini DisplayPort / DisplayPort to 4K HDMI Active Adapter



VC981



VC986



## Features

- Supports VGA, SVGA, XGA, SXGA, UXGA, 1080p and resolutions up to 4K UHD
- Active adapter – features an advanced chip which ensures stable video signal conversion even when the video source does not support dual-mode DisplayPort (DP++)\*
- Supports Eyefinity (multi-screen setups)
- Audio supported
- No software or driver installation required
- DisplayPort 1.2 compliance

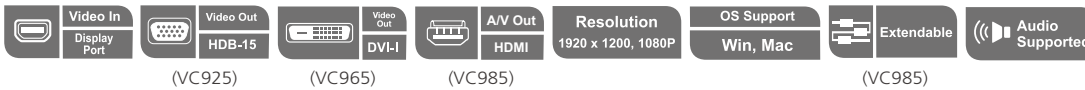
\*Dual-mode DisplayPort (DP++) can directly process the signal from DisplayPort to HDMI or DVI signals. Devices supporting DP++ will display this logo.



## Specifications

Function	VC981	VC986
<b>Video Input</b>		
Interfaces	1 Mini DisplayPort Male (White)	1 x DisplayPort Male (White)
<b>Video Output</b>		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Video</b>		
Max. Pixel Clock	297 MHz	297 MHz
Max. Resolution	3840 x 2160@30Hz, 1920 x 1200@60Hz.	3840x2160@30Hz, 1920 x 1200@60Hz.
Compliance	DP1.2a, HDMI(3D, Deep Color, 4K), HDCP 1.3	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3
<b>Audio</b>		
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
<b>Environmental</b>		
Operating Temperature	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>		
Housing	Plastic	Plastic
Weight	0.04 kg ( 0.09 lb )	0.04 kg ( 0.09 lb )
Dimensions (L x W x H)	17.50 x 4.50 x 1.50 cm (6.89 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
<b>Carton Lot</b>	40 pcs	40 pcs

**VC925** DisplayPort to VGA Adapter  
**VC965** DisplayPort to DVI Adapter  
**VC985** DisplayPort to HDMI Adapter



VC925



VC965



VC985



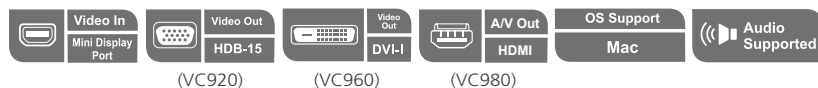
**Features**

- Supports VGA, SVGA, XGA, SXGA, UXGA and resolutions up to 1920x1200 (PC) / 1080p (HDTV)
- Audio Supported (VC985 Only)
- No software or driver installation required
- DisplayPort 1.2a compliant

**Specifications**

Function	VC925	VC965	VC985
<b>Video Input</b>			
Interfaces	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)
<b>Video Output</b>			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I* Female (White) *Only support digital signal transmission.	1 x HDMI Type A Female (Black)
<b>Video</b>			
Max. Pixel Clock	165 MHz	165 MHz	165MHz
Max. Resolution	1920x1200@60Hz(PC)/ 1080p(HDTV)	1920 x 1080@60HZ	1920 x 1080@60HZ
Compliance	DP 1.2a	DP 1.2a, DVI 1.1	DP 1.2a, HDMI 1.3
<b>Audio</b>			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg ( 0.1 lb )	0.04 kg ( 0.11 lb )	0.04 kg ( 0.09 lb )
Dimensions (L x W x H)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
<b>Carton Lot</b>	40 pcs	40 pcs	40 pcs

**VC920** Mini DisplayPort to VGA Adapter  
**VC960** Mini DisplayPort to DVI Adapter  
**VC980** Mini DisplayPort to HDMI Adapter



VC920



VC960



VC980



### Features

- Converts mini DisplayPort input signals to a VGA / DVI / HDMI output
- Supported devices: MacBook, MacBook Pro, MacBook Air, Mac mini and Mac Pro
- Audio enabled (VC980)

### Specifications

Function	VC920	VC960	VC980
<b>Video Input</b>			
Interfaces	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)
<b>Video Output</b>			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)* *VC960 Only supports digital signal transmission.	1 x HDMI Type A Female (Black)
<b>Video</b>			
Max. Pixel Clock	165 MHz	165 MHz	165 MHz
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200	Up to 1920 x 1200
Compliance	DP 1.2a	DP 1.2a, DVI 1.1	DP 1.2a, HDMI 1.3
<b>Audio</b>			
Output	N/A	N/A	1 x HDMI Type A Female Black
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg ( 0.09 lb )	0.05 kg ( 0.11 lb )	0.03 kg ( 0.07 lb )
Dimensions (L x W x H)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	19.00 x 2.10 x 1.11 cm (7.48 x 0.83 x 0.44 in.)
<b>Carton Lot</b>	40 pcs	40 pcs	40 pcs

# VC880 HDMI Repeater Plus Audio De-embedder **PRO**



Front



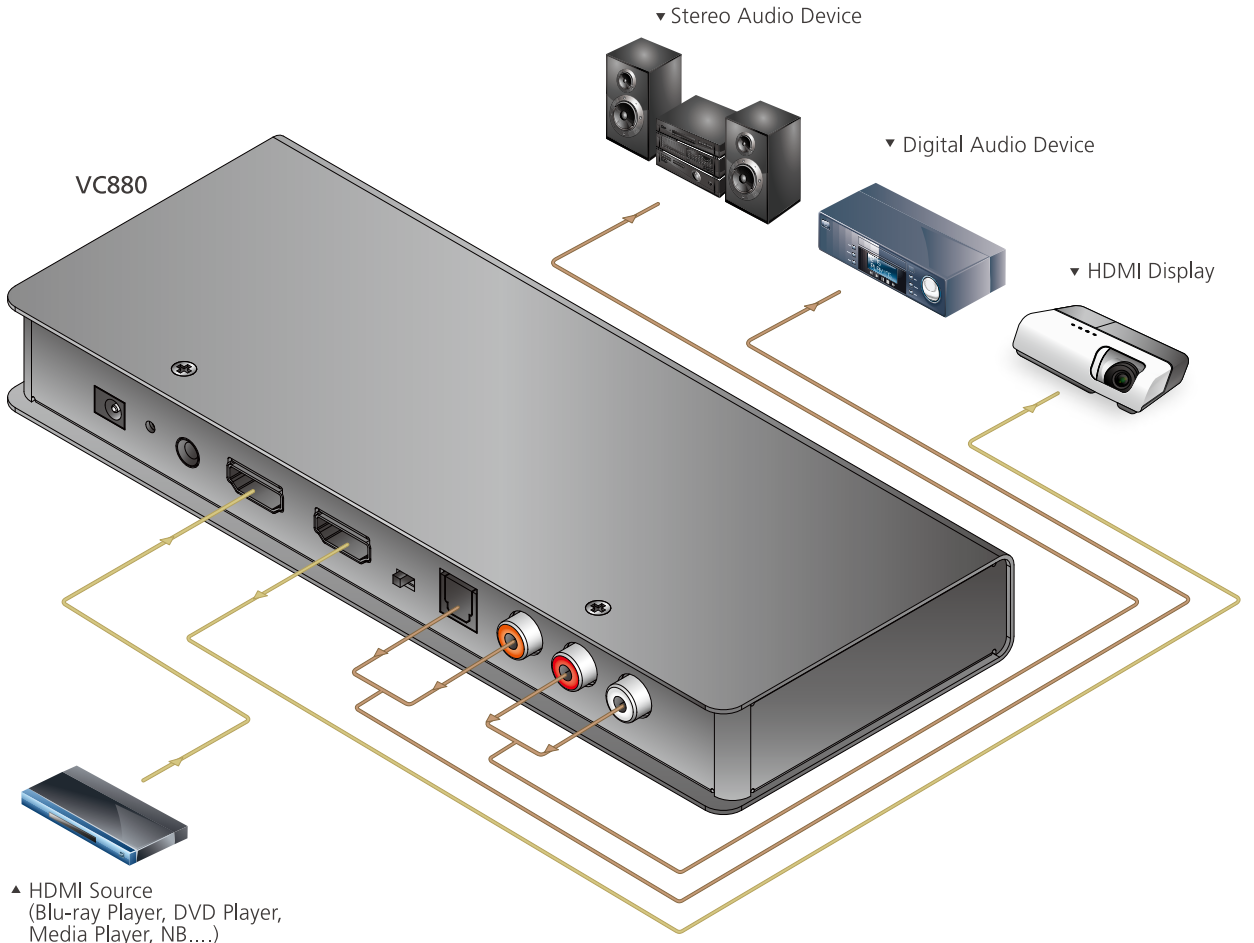
Rear



## Features

- Repeats HDMI input signals and extracts HDMI audio signals as an additional audio source
- HDMI audio can be switched on/off via switch
- Audio channel selection via switch with options of CH 2, CH 5.1 and Auto
- Firmware upgradable

## Setup > VC880

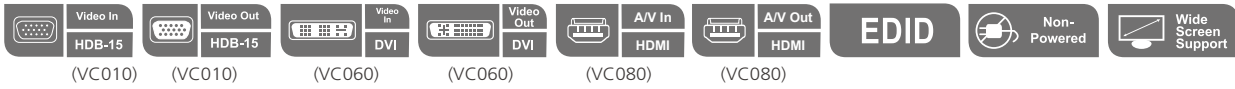


— HDMI  
— Audio

## Specifications

Function	VC880
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 $\Omega$
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 $\Omega$
<b>Video</b>	
Max. Data Rate	6.75 Gps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1080
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange); 2 x RCA (Red/White);
<b>Power</b>	
Connectors	1 x DC Jack
Consumption	5.3 VDC, 0.8W
<b>Environmental</b>	
Operating Temperature	0 - 50 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.46 kg ( 1.01 lb )
Dimensions (L x W x H)	20.00 x 8.20 x 2.50 cm (7.87 x 3.23 x 0.98 in.)
<b>Carton Lot</b>	20 pcs
<b>Included Accessories</b>	1x Power Adapter

**VC010** VGA EDID Emulator  
**VC060** DVI EDID Emulator  
**VC080** HDMI EDID Emulator



**Features**

- **ATEN EDID Wizard** – allows users to custom configure multiple EDID settings for display's via RS-232 connection
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Hot-pluggable
- Firmware upgradable

Note: Please connect an external power cord to the video source if it is not supplied with enough power to function.

**Specifications**

Function	VC010	VC060	VC080
<b>Video Input</b>			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
<b>Video Output</b>			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
<b>Video</b>			
Compliance	N/A	N/A	HDMI (3D, Deep Color) HDCP 1.4 Compatible Consumer Electronic Control (CEC)
<b>Audio</b>			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
<b>EDID Settings</b>	<b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support)	<b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support)	<b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support)
<b>Power</b>			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	5 VDC, 0.15W	5 VDC, 0.15W	5 VDC, 0.15W
<b>Environmental</b>			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>			
Housing	Metal	Metal	Metal
Weight	0.15 kg ( 0.33 lb )	0.15 kg ( 0.33 lb )	0.15 kg ( 0.33 lb )
Dimensions (L x W x H)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)
<b>Carton Lot</b>	5 pcs	5 pcs	5 pcs



## 2A-130G VGA EDID Emulator



### Features

- Substitutes as a monitor at the site where the computer / video source is located
- EDID built-in – Stores ATEN standard EDID information in device
- ATEN standard EDID support all popular resolutions
- Superior video quality - up to 1920 x 1200@60Hz, 1366 x 768@60Hz
- USB Powered – NO need for an external power adapter
- No software required – Eliminates incompatibility and installation issues; no need to configure

### Specifications

Function	2A-130G
<b>Connectors</b>	
Video	1 x HDB-15 Male (Blue)
Power	1 x USB Type A Male
<b>LEDs</b>	
Power	1 (Green)
<b>Video</b>	1920 x 1200@60Hz 1366 x 768@60Hz
<b>Cable Length</b>	0.35 m
<b>Power Consumption</b>	DC5V, 0.06W
<b>Environmental</b>	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Plastic
Weight	42 g
Dimensions (L x W x H)	6.59 x 3.40 x 1.60 cm

### Compatible Splitters

Part No. / Spec.	Page No.
<b>VS1504T, VS1508T,</b>	4-11
<b>VS1204T, VS1208T,</b>	4-13
<b>VS0102, VS0104, VS0108,</b>	7-12
<b>VS132A, VS134A, VS138A,</b>	7-14
<b>VS92A, VS94A, VS98A,</b>	7-15
<b>VS82, VS84, VS88,</b>	7-18
<b>VS0116, VS132, VS102,</b>	7-13, 7-16, 7-17

### Compatible Extenders

Part No. / Spec.	Page No.	
<b>CE800B, CE775, CE774,</b>	For CE products, please refer to ATEN SOHO and SMB Catalog CH5.	
<b>CE770, CE750A, CE700A,</b>		
<b>CE370, CE350, CE250A,</b>		
<b>VE156, VE157,</b>		
<b>VE200R, VE172R,</b>		
<b>VE170, VE170Q,</b>		
<b>VE150A, VE200</b>		
		8-33
		4-12, 4-15
		8-40
	8-39, 8-41	

# CM1164 4-Port USB DVI Multi-View KVM™ Switch



## Features

- Multi-view console controls up to four video sources on one screen with display modes including quad view mode, picture in picture (PiP) mode (dual, triple or quad)
- Channel editor – edit display windows and other functions with the mouse and on-screen control panel
- Function control and system setting via front panel, OSD, IR Remote – display mode and port selection
- Seamless switch among display modes
- Easily resize and / or reposition any PiP to suit your viewing needs
- DCC (Daisy Chain Control) port enables users to connect up to four CM1164 units, and use one console keyboard / mouse to manage computers or another CM1164
- [Video DynaSync™ – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching between ports](#)
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that support most multimedia keyboards
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Auto Scan feature
- Power on detection
- Multilingual keyboard mapping – supports English, French and Japanese keyboards
- Supports RS-232 commands
- Full bass response provides a rich experience for 2.1 channel audio
- Supports keyboard combinations via emulation (for Sun / Mac)

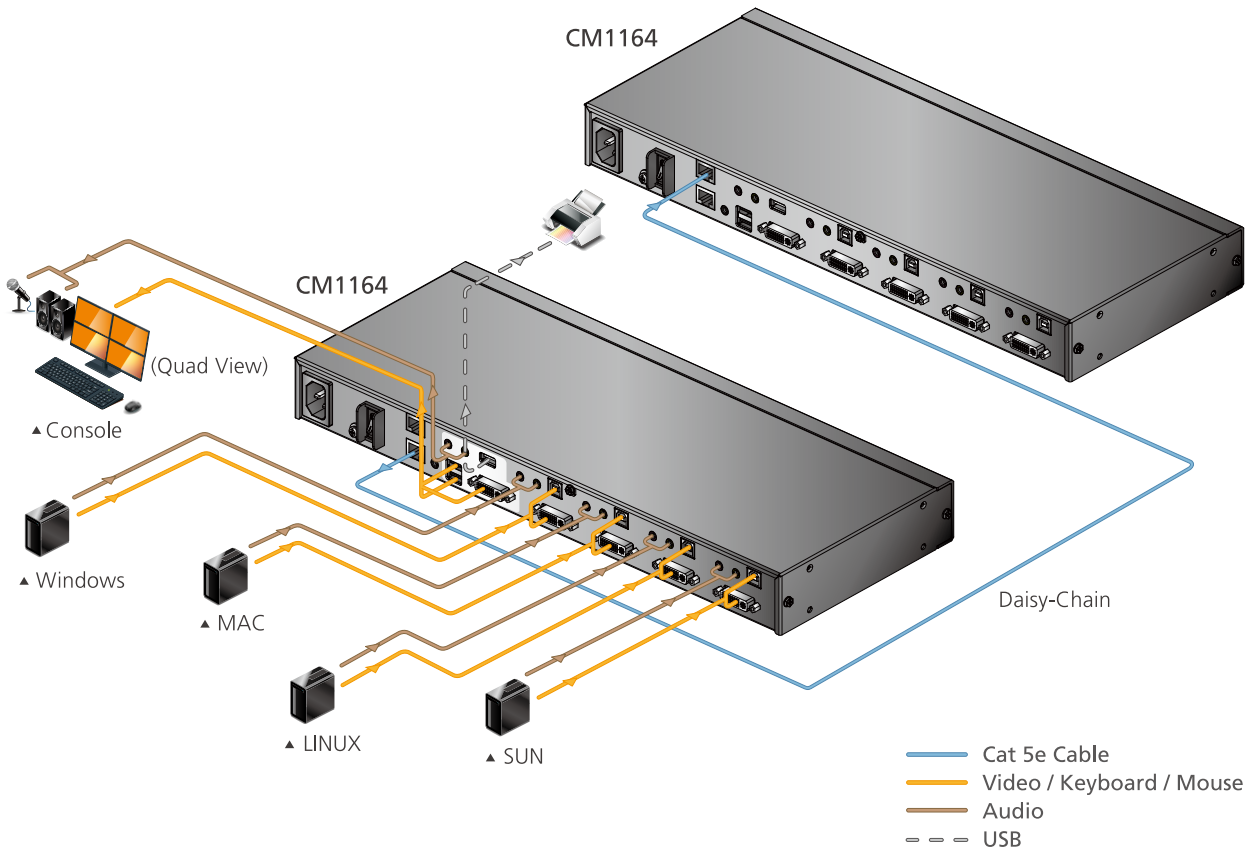
Front



Rear



## Setup > CM1164



## Specifications

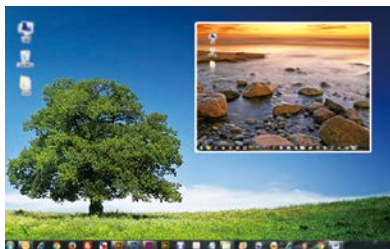
Function	CM1164
<b>Computer Connections</b>	4
<b>Port Selection</b>	Pushbutton; Hotkey; Mouse; IR Remote Control; RS-232 Commands
<b>Connectors</b>	
Console Ports	2 x USB Type A Female 1 x Single Link DVI-D Female (White) 2 x 3.5 mm Audio Jack Female (Green; 1 x front panel, 1 x rear panel) 2 x 3.5 mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x RJ-45 Female
KVM Ports	4 x USB Type B Female 4 x Single Link DVI-D Female (White) 4 x Mini Stereo Jack Female (Green) 4 x Mini Stereo Jack Female (Pink)
Power	1 x IEC320 Jack
USB Hub	2 x USB Type A Female (1 x front panel; 1 x rear panel)
<b>Switches</b>	
Keyboard / Mouse	USB
<b>Video</b>	1920 x 1200 @ 60 Hz (DVI-D)
<b>LEDs</b>	
KVM	4 (Orange)
Audio	4 (Green)
USB	4 (Green)
<b>Power Consumption</b>	100V/ 6.7 W; 240V/ 13.6 W
<b>Environmental</b>	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	2.50 kg (5.51 lb)
Dimensions (L x W x H)	43.72 x 16.38 x 4.40 cm (17.21 x 6.45 x 1.73 in.)
<b>Carton Lot</b>	3 pcs
<b>Included Accessories</b>	4x USB DVI-D KVM Cables; 1x IEC320 Power Cord; 1x IR Remote Control

Note:\*Mouse port switching is only functional under mouse emulation mode and USB 3-key wheel mouse.

- PiP Dual – shows two computers / video sources, with only half of the actual display visible

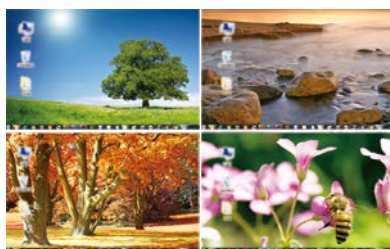
- PiP Triple – shows three computers / video sources at one time

- PiP Quad – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port

- Quad View displays all four computers / video sources on the display



## Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	11-6
IR Extender Cable	2XRT-0003G	12-2

## 2L-2910 305M HDBaseT SF/UTP CAT 6 Cable



The 2L-2910 is a twisted pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analogue data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

The 2L-2910 supports long distance connections while safeguarding transmission quality. The outer metal layer and the braid protect signal transmissions from electromagnetic interference and reduce the impact caused by electrical noise.

The 2L-2910 utilizes SF/UTP design with four unshielded 23 AWG twisted pair conductors. Among the four unshielded twisted pair conductors, there is one cross filler to reduce cross talk. Most importantly, the cable meets the requirements set by ANSI/ TIA-568-C.2 (2009) ensuring high performance in electrical transmission.



### Features

- Optimized for multiple distributions including HD video, audio, Ethernet, power and control
- Verified to meet performance requirements set by HDBaseT Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission
- Conductor material: 23 AWG bare copper
- Outer shielded material: Al Mylar tape
- Braid wire: tinned copper
- Flame test UL 1685 (CM rated), RoHS compliant
- Compatible with ATEN HDBaseT extenders and splitters.
- Regulatory:
  - PoE: IEEE 802.3af (PoE)/ IEEE 802. 3at (PoE+)
  - Electrical Transmission: ANSI/TIA-568-C.2 (2009), ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.1)
  - Material and Construction: UL 444, CSA 22.2 NO.214





## 2L-2910 Specifications

Function	2L-2910
<b>Cable Type</b>	Cat 6 SF/UTP
<b>Conductor</b>	
Size	23 AWG
Construction	Solid Bare copper
Number of Pairs	4
<b>Insulation</b>	
Material	Polyolefin
Color codes	Blue × White/Blue stripe; Orange × White/Orange stripe Green × White/Green stripe; Brown × White/Brown stripe
<b>Shield</b>	
Material	Al Mylar tape
Coverage	100% Coverage and mylar side facing out
<b>Filler</b>	Polyolefin (PO)
<b>Braid</b>	Tinned Copper
<b>Electrical</b>	
Dc Resistance Unbalance	≤ 5%
Conductor Resistance	≤ 9.38 Ω/100m
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•km
Mutual Capacitance	≤ 5.6 nF/100m
Pair-To-Ground Capacitance Unbalance	≤ 330 pF/100m
Ac Leakage Current Through Overall Jacket	≤ 10mA (1.5KV AC)
Spark Test	2.5 KV DC
Minimum bending radius	≥4 times of overall diameter
<b>Delay Skew</b>	45.00 Max.nS/100m
<b>Jacketed</b>	
Average Thickness	0.5 mm±-0.05mm
Diameter	7.4 ± 0.20 mm
Material	Polyvinyl chloride (PVC)
Color	Blue
<b>Environmental</b>	
Temperature (Operating / Storage)	-20°C - 60°C
<b>Physical Properties</b>	
Weight	17.57 kg ( 38.7 lb )
<b>Cable Length</b>	305m / 1000ft

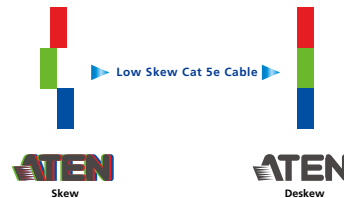
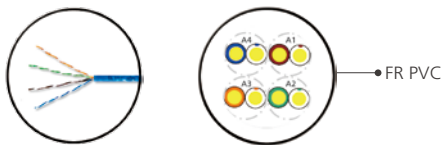
## 2L-2801 305M Low Skew Cat 5e Cable

Analog video presents a high quality image when the computer is directly connected to the monitor by short cables. "Skew" is the color phase and time errors that occur when R/G/B video signals are sent over long distance Cat 5e cables which can result in smeared, less sharp and color-fringed images. To remedy this distortion, ATEN developed a Low Skew Cat 5e cable. This high performance cable is suitable for the audio and video transmission of a wide range of video and KVM extenders. To eliminate blur and bleeding images and to ensure clear video transmissions, use 2L-2801 Low Skew Cat 5e Cable.



### Features

- Supports high quality RGB video transmissions
- Contains 305 m (1000 ft.) low skew cable
- Delay Skew: 1 ~ 350 MHz 20nS/100 m Max.
- Outer jack material: FR PVC
- Outer material: unshielded
- Conductor material: 24 AWG solid bare copper
- Compatible with ATEN analog Cat 5 video extenders, KVM extenders and Cat 5 KVM switches
- UL, ETL approved





## 2L-2801 Specifications

Function	2L-2801
<b>Item</b>	24AWG × 4p
<b>Cable Length</b>	305 m/ 1000 ft
<b>Conductor Resistance</b>	9.38 Ohm/100m/20°C Max.
<b>Mutual Capacitance</b>	56 Pf/M Max.
<b>Dielectric strength</b>	Ac 1.5 Kv/2 Sec.
<b>Spark Test</b>	2.5 Kv
<b>Insulation</b>	
Unaged	Tensile Strength: 2400 Psi Min. (1.69 Kg/M(mxm))
Aged	Tensile Strength: Unaged Min. 75%(100°C×48hrs) Elongation: Unaged Min. 75%(100°C×48hrs)
<b>Jacketed</b>	
Unaged	Tensile Strength: 2000 Psi Min.(1.41 Kg/M(mxm)) Elongation: 100% Min.
Aged	Tensile Strength: Unaged Min. 85%(100°C×240hrs) Elongation: Unaged Min. 50%(100°C×240hrs)
<b>Insulation Shrinkback</b>	150m/M, 121°C±1°C×1hr ≤ 9.5m/M
<b>Cold Bend Test</b>	-20°C×4hrs No.Crack
<b>Flame Retardant Test</b>	CMR
<b>Ac Leakage Current Throught Overall Jacket</b>	Ac 1500v ≤ 10 Ma
<b>Dc Resistance Unbalance</b>	5% Max.
<b>Pair-To-Ground Capacitance Unbalance</b>	330 Pf/100m Max.
<b>Characteristic Impedance</b>	1 - 350 Mhz 100±15 Ohms
<b>Structural Return Loss</b>	350 Mhz 10.6db Min.
<b>Propagation Delay</b>	350 Mhz 536ns/100m Max.
<b>Delay Skew</b>	1 - 350 Mhz 20ns/100m Max.
<b>Physical Properties</b>	
Weight	9.80 kg

# 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H High Speed HDMI Cable with Ethernet ( 2, 3, 5, 10, 15, 20 m )



ATEN High Speed HDMI Cable with Ethernet provides an uncompressed, all-digital interface for both audio and video signals. Our cables infuse high-quality tinned copper wire to resist interference for improved image clarity. We offer HDMI cable at lengths of 2 to 20 meters with resolutions up to 4K DCI (4096 x 2160 @ 30Hz).

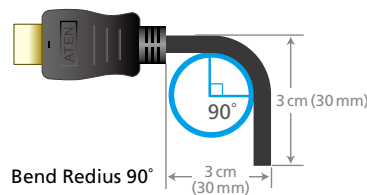


Gold-plated connectors

## Features

- Crystal-clear video up to 4K DCI (4096 x 2160 @ 30 Hz), 4K UHD (3840 x 2160 @ 30 Hz), and 1080p @ 60 Hz signals
- HDMI Ethernet Channel functionality: additional dedicated data channel supports networking\*
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Gold-plated connectors for reliable transmissions
- Available in lengths from 2 to 20 m
- RoHS-compliant
- Bend Radius 90°\*\*

Note: \* Feature only available if linked devices are HDMI Ethernet Channel enabled  
\*\* Swings 100 times between angles of +/- 90 degrees, at a frequency of 13 times per minute



## Specifications

Function	2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H
<b>Video Resolution</b>	Up to 4096X2160 @30Hz
<b>Physical Properties</b>	
Cable Length	2m, 3m, 5m, 10m, 15m, 20m
Cable Color	Black
Cable Outer Dimension	2L-7D02H-1 / 2L-7D03H / 2L-7D05H: 6.0 + - 0.2 mm; 2L-7D10H: 7.3 + - 0.2 mm 2L-7D15H / 2L-7D20H: 10.0 + - 0.2 mm
Conductor Gauge	2L-7D02H-1 / 2L-7D03H / 2L-7D05H: 30 AWG; 2L-7D10H: 28 AWG; 2L-7D15H: 24 AWG; 2L-7D20H: 26 AWG
Conductor Material	Tinned Copper
Connector Plating	Gold
Connector Type	HDMI (19pin) Male to Male
Cable Shield Type	Aluminum Foil
Cable Jacket Type	PVC
<b>Environmental</b>	
Operating Temperature	80° C
Rating	UL VW-1 (Flame rate), CSA



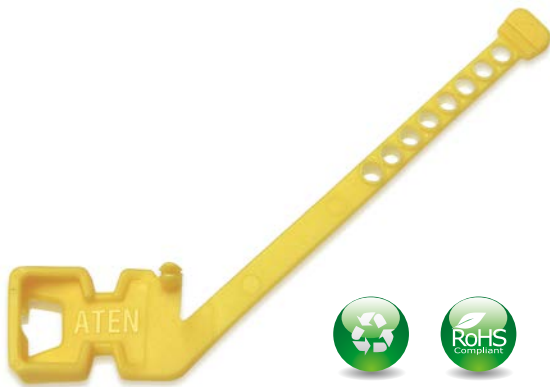
## Cables

Images	Part No.	Length (m)	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-7D02DD 2L-7D03DD 2L-7D05DD 2L-7D10DD	1.8 3 5 10	DVI-D	 DVI-D Male (Dual Link)	 DVI-D Male (Dual Link)	All ATEN's DVI Devices
	2L-7D02V	2	DVI-D	 DVI-D Male (Single Link)  Audio Plug	 DVI-D Male (Single Link)  Audio Plug	VS172, VS174, VS162, VS164, VE600A, VE602, VE606, VE607, CE624
	2L-2402A	2	VGA	 HDB-15 Male  Audio Plug	 HDB-15 Female  Audio Plug	VS1204T, VS1208T, VS1504, VS1508, VM0404, VM0808, VS0202, VS0201, VS0401, VS0102, VS0104, VS0108, VS0116, VE170, VE170Q, VE200, VC 180, VE156, VE157
	2L-7D02U 2L-7D03U 2L-7D05U	1.8 3 5	DVI-D USB	 USB Type A Male  DVI-D Male (Single Link)  2 Audio Plugs	 USB Type B Male  DVI-D Male (Single Link)  2 Audio Plugs	CM1164
	2L-7D02DP 2L-7D03DP 2L-7D05DP	2 3 5	DisplayPort	 DisplayPort	 DisplayPort	All ATEN's DisplayPort Devices
	2L-2801 (Shielded)	305	RJ-45	 RJ-45	 RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Video & Audio Communication
	2L-4101-GR 2L-4102-GR 2L-4103-GR 2L-4105-GR 2L-4110-GR 2L-4115-GR 2L-4120-GR	1 2 3 5 10 15 20	RJ-45	 RJ-45	 RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Data Communication
	2L-2910	305	RJ45	 RJ-45	 RJ-45	All ATEN HDBT products

## 2X-EA12 LockPro™ - HDMI Cable Lock

ATEN LockPro™, the world's most effective universal HDMI cable lock

LockPro™, an ATEN exclusive technology, was created to prevent signal loss by ensuring a durable connection between your HDMI cables and devices in a simple, one-piece design. Since most HDMI connectors do not have a locking mechanism, it's common for them to become detached or loosened and create intermittent up to complete signal loss - making cable lock solutions essential.



### Features

- Innovative design improves stability and flexibility
- One-piece and reusable design for easy installation and removal
- Ensures strong and reliable HDMI cable connections
- Universal design for securing most cables (not limited to HDMI)
- Environmentally safe – RoHS compliant and recyclable
- Sold 10 pieces per pack

### 2X-EA12 Specifications

Function	2X-EA12
<b>Storage Temperature</b>	-20-60°C
Humidity	0-95% R.H, Non-Condensing
<b>Physical Properties</b>	
Weight	1.4 g
Dimensions (L x W x H)	8.61 x 6.47 x 0.66 cm (3.39 x 2.55 x 0.26 in.)

### One-piece Design for Easy Installation



- 1 Loosen the screw above the port



- 2 Slide the LockPro™ over the loosened screw



- 3 Tighten the screw firmly




- 4 Wrap the LockPro™ around the cable



- 5 Fasten the LockPro™ strap

## Accessories

Images	Part No.	Product Name.	Compatible Products
	2A-127G	DVI to HDMI Converter	Compatible with all models equipped with DVI interface
	2L-5202B 2L-5203B 2L-5205B	Port Switching VGA Cable	VS0801A, VE2812T
	2XRT-0003G	IR Receiver Cable (38 KHz)	VM3404H / VM3909H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM0202H, VM5404D / VM5808D, VM0404 / VM0808, VS482, VS0201 / VS0401, VS481B, VS481C, VE810, VP1920, VP2730, CM1164, VE805R
	2XRT-0003G-1	Full Range IR Receiver (30-56 KHz)	VM3404H / VM3909H, VE802, VE1812, VE814A, VE8900 / VE8950, VE816R, VE883
	2XRT-0004G	Full Range IR Emitter (30-56 KHz)	VK1100, VK2100, VE802, VM3404H / VM3909H, VE1812, VE814A, VE8900 / VE8950, VE816R, VE805R, VE883
	2XRT-0007G	IR Remote Control	VS0801H, VS881, VS0801A, VS0801HB
	2XRT-0010G	IR Remote Control	VS482
	2XRT-0101G	IR Remote Control	VM0202H, VS481A, VS481B, VS261 / VS461, VS0201 / VS0401, VS481C
	2XRT-0106G	IR Remote Control	VM3404H / VM3909H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM5404D / VM5808D, VM0404 / VM0808
	2XRT-0301G	IR Remote Control	VE200
	2XRT-0109G	IR Remote Control	VP1920
	2XRT-0110G	IR Remote Control	VP2730
	2X-020G	Mounting Kit	VM0404, VS0401, VS0108
	2X-RC1700	Video Wall Rack	
	2X-030G	TV Bracket Set (L+R)	
	2X-031G	Single Rack Mounting Kit	VK1100



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