



### Introduction

Mayflex is the primary distributor for LevelOne's innovative range of Ethernet connectivity products in the UK.

We stock a broad range of LevelOne products at highly competitive pricing, backed up with a comprehensive five year warranty programme. Installers working in the SME, retail, education and even the home networking environment need look no further for the best in Ethernet hardware.

Design, performance, reliability, product choice and affordable prices – LevelOne outperforms rival brands in all these key areas. Please take a few minutes to look through this catalogue and see the latest products on offer and compare them to your current supplier.

As with all Mayflex product lines flexibility is core to our approach. To find out the latest prices and availability for the products shown within this catalogue please call our sales office on 0800 75 75 65 or contact your account manager to discuss any specific requirements.

### **Warranty Programme**

Our no-nonsense warranty cover enables you to purchase and install LevelOne products with confidence. A full five-year warranty that offers a free next day advanced replacement service\* on all LevelOne products throughout the UK. Additionally free software upgrades and on-going technical advice, provides total support through the lifetime of the product.

### **Technical Support**

Our dedicated in-house technical support team are on hand to assist with any support queries you may experience, including network design and product selection - please contact them directly on 0845 601 2824.

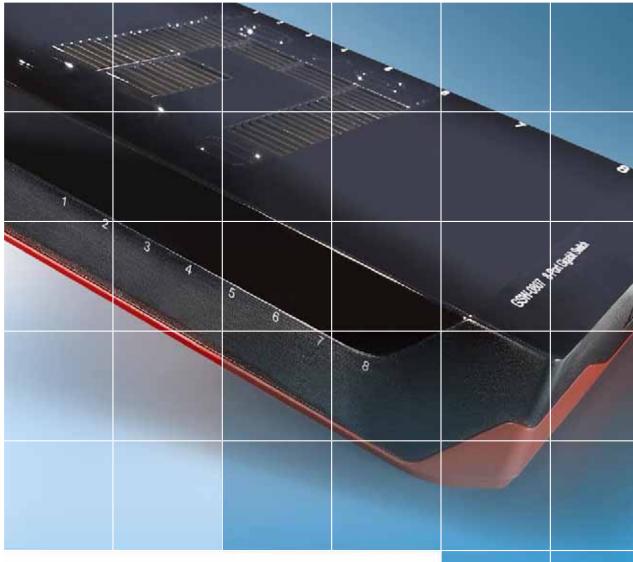
### Call the sales office on FREEPHONE 0800 75 75 65

\* If stock is available



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### **Ethernet Switches**

High Performance Switches for Easy Network Management

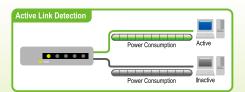
- Unmanaged Fast Ethernet Switches
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### **IP Power Switch**

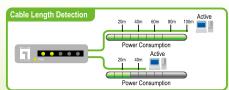
Offers Remote Power Control of up to 8 Connected Devices

### LevelOne Ethernet Switches

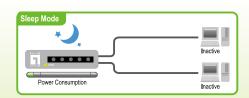
Introducing LevelOne Green Technology: Power-saving technology is the newest feature addition to LevelOne's series of high-quality Ethernet Switches. With new Green chipsets, users can now save power and operation costs. Take advantage of Active Link Detection, Cable Length Detection, and Sleep Mode to reduce energy consumption in the home or office by up to 84%. This equates to a 60W light bulb running continuously for 20 days each year



Active Link Detection: A LevelOne Green device can tell if there is activity on each individual LAN port. If an 8-port switch only has 6 active devices connected to it, power is saved because no traffic is routed to the 2 inactive ports.



Cable Length Detection: The switch is able to detect the distance of the connected device and adjusts its power accordingly. For example, if you have a LevelOne Green switch a computer connected to a 10-meter cable will consume less power than a computer connected to a 100-meter cable.



Sleep Mode: The device will enter sleep/ standby mode when the connected devices are powered down and no active links are detected. This helps save energy consumption during extended periods of network inactivity, such as nights, weekends and holidays.

### **Unmanaged Fast Ethernet Switches**



### FSW-0508TX / FSW-0808TX 5/8-Port Fast Ethernet Switch

- 5 or 8 ports switches providing Fast Ethernet connectivity to a small network
- Features store-and-forward architecture
- Performs filtering and forwarding at non-blocking full wire-speed
- Auto-MDI-X function for unlinking at each port
- Front-panel diagnostic LEDs
- Supports power saving mode by cable detection
- Magnetic base for secure placement on any metal surface



### FSW-0511 / FSW-0811 5/8-Port Fast Ethernet Switch

- Features store-and-forward architecture
- Performs filtering and forwarding at non-blocking full wire-speed
- Full/Half-duplex capability on each TX port for 200 Mbps bandwidth at each port
- Auto MDI-X function for unlinking at each port
- Supports LevelOne Green Technology\*



### FSW-2215 / FSW-2218 5/8-Port Fast Ethernet Switch

- Wire-speed and non-blocking forwarding rate with storeand-forward switching
- Supports half/full-duplex back pressure flow control
- Compact design, universal internal power with easy plug-and-play installation
- Supports NWay auto-negotiation and auto-MDI/MDI-X
- LEDs on front panel for easy access

Model	FSW-0508	FSW-0808	FSW-0511	FSW-0811	FSW-2215	FSW-2218
Ports/Expansion	5 x 10/100TX	8 x 10/100TX	5 x 10/100TX	8 x 10/100TX	5 x 10/100TX	8 x 10/100TX
Slots MAC Table	1K	1K	1K	1K	1K	1K
Buffer Memory	48 KB	98 KB	96 KB	96 KB	128 KB	96 KB
Backplane	1.0 Gbps	1.6 Gbps	1.0 Gbps	1.6 Gbps	1.0 Gbps	1.6 Gbps
Power supply	External	External	External	External	Internal	Internal

<sup>\*</sup> Only latest hardware version supports the Green technology, please contact your local distributor for more information.



### **Unmanaged Fast Ethernet Switches**



### FSW-2106 5-Port TP + 1-Port SC Fast Ethernet Switch

- Wire-speed and non-blocking forwarding rate with NWay auto-negotiation
- Provide auto-MDI/MDI-X on all ports
- Half-duplex back pressure flow control
- Plug-and-play installation, nothing to configure
- LEDs on front panel for easy access and real time viewing status of switch
- Store-and-forward switching ensures error-free transmission



### FSW-1602TX 16-Port Fast Ethernet Switch

- 16 ports 10/100 BASE-TX Ethernet Switch with RJ-45 connectors
- Supports auto-negotiation for speed and duplex modes for each port
- Wire-speed and non-blocking forwarding rate with storeand-forward switching
- Compact design, easy plug-and-play installation
- Supports auto-MDI/MDI-X on all ports
- Front-panel diagnostic LEDs
- 7-inch compact design case





### FSW-1621 / FSW-2421 16/24-Port Fast Ethernet Switch

- Provides 16 Fast Ethernet ports with wire-speed and non-blocking forwarding rate (FSW-1621)
- Provides 24 Fast Ethernet ports with wire-speed and non-blocking forwarding rate (FSW-2421)
- Supports full-duplex IEEE802.1x flow control
- Supports auto-negotiation and auto-MDI/MDIX
- Plug-and-play with nothing to configure
- Accessory for stacking up or mounting into 19" rack
- Store-and-forward switching ensures error-free transmission
- 10-inch compact case and rack mountable





### FSW-1610TX/ FSW-2410TX 16/24-Port Fast Ethernet Switch

- 16 or 24 port Fast Ethernet Switch with full/half-duplex
- Complies with IEEE802.3 and IEEE802.3u
- Supports Auto-negotiation and Auto-MDI/MDI-X
- Wire speed reception and transmission
- Operating at maximum packet filtering and forwarding rate
- Supports store-and-forward packet switching architecture
- Comprehensive LED indications for port status indication





### FSW-1609TFX / FSW-2409TFX 16/24-Port TP w/ 1 Expansion Slot Fast Ethernet Switch

- 16/24 10/100 Mbps Ethernet Switch with 1 expansion slot
- Complies with IEEE802.3 and IEEE802.3u Standards
- Full/Half-duplex for each port
- Operating at maximum packet filtering and forwarding rate
- Store-and-forward packet switching architecture
- 160KB buffer memory
- MAC Address table up to 8KB
- Comprehensive LED indications for port status indication
- One optional slot for fibre optic module for network expansion (MDU-0122FXT/0123FXC)

### Unmanaged Gigabit Ethernet Switches





### GSW-0507 / GSW-0807 5/8-Port Gigabit Ethernet Switch

- Supports MDI/MDI-X auto crossover
- Provides half-duplex and full-duplex auto-detection
- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3x
- Provides wire-speed packet filtering and data forwarding
- Store-and-forward switching architecture
- Supports 9K Jumbo frame rate
- Supports LevelOne Green Technology

Ethernet Switches comp	Jul 13011					
Model	FSW-2106	FSW-1602TX	FSW-1621 / FSW-2421	FSW-1610TX / FSW-2410TX	FSW-1609TFX / FSW-2409TFX	GSW-0507 / GSW-0807
Ports/Expansion	5 x 10/100TX	16 x 10/100TX	16/24 x 10/100TX	16/24 x 10/100TX	16/24 x 10/100TX	5/8 x 10/100/1000T
	1 x MM 100FX-SC			1 x Expansion slot		
Slots MAC Table	2K	8K	8/4K	8K	8K	1/4K
Buffer Memory	96 KB	512 KB	160/192 KB	160 KB	160 KB	104/128 KB
Backplane	1.2 Gbps	3.2 Gbps	3.2/4.8 Gbps	3.2/4.8 Gbps	3.2/4.8 Gbps	10/16 Gbps
Power supply	External	External	Internal	Internal	Internal	External

### **Unmanaged Gigabit Ethernet Switches**



### GSW-0508 4-Port TP+1-Port SFP Gigabit Ethernet Switch

- Auto-negotiation and auto-MDI/MDI-X on all ports
- Supports full-duplex IEEE 802.3x flow control
- Store-and-forward switching architecture
- Complies with IEEE802.3, 802.3u, 802.3ab and 802.3z standards
- Wire-speed packet filtering and forwarding rate
- Supports 9K jumbo frame
- Provides wall-mount Kit
- Provides 4 10/100/1000Mbps Ethernet ports
- Provides 1 Gigabit SFP slot for optional fibre connection



### GSW-0509 / GSW-0809 5/8-Port Gigabit Switch w/ Internal Power

- 5/8 auto-negotiation 10/100/1000 Mbps Ethernet ports
- Auto MDI/MDI-X at each port
- Support half and full-duplex modes
- Store-and-Forward switching technology
- Plug-and-Play no configuration required
- Internal power supply
- Supports 9K Jumbo frame rate
- Supports LevelOne Green Technology\*



### GSW-1603 16-Port Gigabit Ethernet Switch

- Complies with IEEE802.3, IEEE 802.3u, IEEE802.3ab
- Provides 16 10/100/1000 Mbps NWay ports
- Auto-MDI/MDI-X crossover detection for all ports
- Full wire-speed packet filtering and forwarding rate
- Supports back-pressure and flow control
- Store-and-forward architecture
- Supports 9K Jumbo frame rate
- Supports LevelOne Green Technology\*



### GSW-1621 16-Port TP w/ 1-Port shared SFP Gigabit Ethernet Switch

- Combines copper and fibre optic connectivity into one network switch
- Supports NWay auto-negotiation and duplex modes
- Provides 16 Gigabit ports and 1 SFP for optional fibre optical communication
- Supports FCC Class A, CE and VCCI
- Supports 9K bytes jumbo frame
- Supports LevelOne Green Technology\*



### GSW-2420 24-Port Gigabit Ethernet Switch

- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3x flow control for full-duplex
- Supports auto-MDI/MDI-X for each port
- Supports auto-negotiation and duplex modes
- Supports 9K bytes jumbo frame
- Provide store-and-forward filters errors architecture
- Front-panel diagnostic LEDs
- Supports LevelOne Green Technology\*



### GSW-1656 / GSW-2456 16-Port TP w/ 4-Port shared SFP Gigabit Ethernet Switch

- Easily deploy a 16/24-Port Gigabit office LAN with fibre connectivity
- Provides plug-and-play architecture
- Supports auto-MDI/MDI-X, NWay auto-negotiation and store-and-forward switching architecture
- Standard 19-inch, 1U rack-mountable design
- Supports auto-detection when mini GBIC modules are inserted
- Supports 9K Jumbo frame rate
- Supports LevelOne Green Technology\*

Model	GSW-0508	GSW-0509 / GSW-0809	GSW-1603	GSW-1621	GSW-2420	GSW-1656 / GSW-2456
Ports/Expansion	4x 10/100/1000T	5/8 x 10/100/1000T	16x 10/100/1000T	16x 10/100/1000T	24x 10/100/1000T	16/24 x 10/100/1000T
	1x 1000FX-SFP			1 x 1000FX-SFP		4 x 1000FX-SFP
Slots MAC Table	1K	1/4K	8K	8K	8K	8K
Buffer Memory	104KB	104/128 KB	500 KB	340 KB	500 KB	340/500 KB
Backplane	10 Gbps	10/16 Gbps	32 Gbp	32 Gbps	48 Gbps	32/48 Gbps
Power supply	External	Internal	External	Internal	Internal	Internal

<sup>\*</sup> Only latest hardware version supports the Green technology, please contact your local distributor for more information.



### **Unmanaged Gigabit Ethernet Switches**



### GSW-2650 24-Port Fast Ethernet TP + 2-Port Gigabit Combo Switch

- Supports NWay protocol, duplex mode, auto-detection and MDI/MDI-X auto-crossover
- Wire-speed packet filtering and forwarding rate
- Plug-and-play operation with no additional configuration
- IEEE 802.3x Flow control for full/half duplex mode
- 19-inch rack-mountable size
- Fan-less design



### GSW-2453 3-Slot Modularized Combo Gigabit Ethernet Switch

- Features 3 module slots for flexible network integration with 8-Port 1000T, 8-Port mini GBIC and 4-Port 1000T+4-Port mini GBIC module
- Fully compliant with IEEE802.3/u, 802.3ab, 802.3z and 802.3x flow control
- Store-and-forward switching architecture
- Plug-and-play installation with nothing to configure
- Provides "at-a-glance" system status monitoring LED display
- 19" 1U rack-mountable size (For optional modules, go to page 10 for more details)





### GSW-1657 / GSW-2457 16/24-Port Gigabit Ethernet Switch

- Fully compliant with IEEE 802.3, 3u and IEEE 802.3ab
- 16 or 24 10/100/1000 Mbps auto-negotiation Ethernet ports
- Supports data transfer rate of up to 2000 Mbps throughput in full-duplex mode on each port
- Provides Auto-MDI/MDIX function
- Supports IEEE 802.3x flow control for full-duplex mode and back pressure flow control for half-duplex mode
- Store and forward switching scheme
- Provides 8K MAC address and 256KB buffer memory

### Web Smart Gigabit Ethernet Switches



### GSW-5150 48-Port Fast Ethernet TP + 3-Port Gigabit Ethernet TP/SFP Switch

- Fully compliant with IEEE802.3, 3u, 3ab and 802.3x flow control for full-duplex model
- 48 10/100 Mbps auto-negotiation RJ45 ports
- 2 10/100/1000Mbps auto-negotiation RJ45 ports
- Provides 1 Gigabit SFP slot for optional fibre connection
- Non-blocking switching architecture
- Supports MAC address auto-learning and auto-aging
- LED indicators for monitoring power, link, activity, speed
- Standard 19" rack-mountable steel case
- Internal universal switching power supply



### 8/16-Port TP w/ 1-Port shared SFP Web Smart Gigabit Ethernet Switch

- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3z
- 8/16 x 10/100/1000 Mbps RJ-45 Nway ports
- 1 x SFP for optional fibre optical communication
- Supports 8K absolute MAC addresses entries
- Supports 9K bytes Jumbo frame
- Supports 4 trunk groups and up to 7 trunk members (GSW-0841)
- Supports up to 8 ports and 8 groups port aggregation (GSW-1641)
- Support QoS for better communication quality
- Front-panel diagnostic LEDs



### GSW-2440 24-Port Web Smart Gigabit Ethernet Switch

- Provides IEEE802.1p QoS for Traffic Prioritization, IEEE802.1Q VLAN
- Supports link aggregation and port mirroring
- Provides store-and-forward architecture
- Provides NWay auto-negotiation protocol
- Supports 9K bytes jumbo frame
- Easy to use web-based management interface

Ethernet Switches Comp	alison					
Model	GSW-2650	GSW-2453	GSW-1657 / GSW-2457	GSW-5150	GSW-0841 / GSW-1641	GSW-2440
Ports/Expansion	24 x 10/100TX 2 x 10/100/1000T	3 x Expansion slot	16/24x 10/100/1000 T	48x 10/100TX 2 x 10/100/1000T 1 x 1000FX-SFP	8/16 x 10/100/1000T 1 x 1000FX-SFP	24 x 10/100/1000T
Slots MAC Table	4K	4K	8K	8K	8K	8K
Buffer Memory	256 KB	256 KB	256KB	128KB	180/340 KB	500 KB
Backplane	8.8 Gbps	48 Gbps	32/48 Gbps	15.6 Gbps	16/32 Gbps	48 Gbps
Power supply	Internal	Internal	Internal	Internal	Web browser	Web browser

### Web Smart Gigabit Ethernet Switches



### GSW-2473 24-Port Fast Ethernet TP + 2-port Gigabit Ethernet Combo Web Smart Switch

- 24-Port Combo Web Smart Switch for high performance Office networks
- Auto-negotiation and Auto-MDI/ MDI-X on all ports
- Supports full-duplex IEEE 802.3x flow control
- Store-and-forward switching architecture
- Complies with IEEE 802.3ab, 802.3u and 802.3, 802.z standards
- Supports NWay protocol and auto-detect duplex mode
- Features Port-Based 802.1Q Tag VLAN
- Supports 802.1p Class of Service with 2 per port priority queues



### GSW-5270 48-Port Fast Ethernet TP + 2-Port Gigabit Ethernet TP/Combo and SFP Web Smart Switch

- Features 48 auto-negotiation Fast Ethernet ports
- Features 4 auto-negotiation Gigabit Ethernet ports
- Provides 2 optional mini-GBIC transceiver slots for extending the network distance
- Supports 802.1Q VLAN and 802.1p priority queues
- Supports static port trunk, port mirroring and broadcast storm control
- Standard 19-inch rack-mount size





### GSW-1676 / GSW-2476 16/24-Port TP w/ 4-Port shared SFP Web Smart Gigabit Ethernet Switch

- 16 or 24 auto-MDI/MDI-X 10/100/1000Base-T ports
- 4 ports shared with 4 SFP transceiver slots
- Non-blocking switching architecture
- Trunking Up to 8 ports per group/ 8 groups port device
- Layer 2/3/4 CoS support through four priority queues
- Full support for VLANs with GVRP
- IGMP multicast filtering and snooping
- Support for jumbo frames up to 9KB
- Manageable via Web

### Managed Gigabit Ethernet Switches



### GSW-4876 48-Port TP w/ 4-Port shared SFP Web Smart Gigabit Ethernet Switch

- Features full 48-port Gigabit speed
- Provides 4 Gigabit SFP slot for optional fibre connection
- Full support for VLANs with GVRP
- Supports IEEE 802.1Q VLAN and 802.1p priority queues
- Supports static port trunk
- Support for jumbo frames up to 9KB



### GSW-0890 8-Port TP w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch

- 802.1Q Q-in-Q VLAN with up to 256 active VLANs
- Supports virtual stacking of up to 16 units with GSW-0890/1291/2690/2693/2494/2496
- Provides 802.1p QoS for traffic prioritization, 802.3ad link aggregation and bandwidth control
- 802.1d/w/s with spanning tree and IGMP snooping
- Secured 802.1x port-based access control
- Supports 9K jumbo frame



### GSW-2690 24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch

- Combines copper and fibre network connectivity into one device
- Supports virtual stacking of up to 16 units with GSW-0890/1291/2690/2693/2494/2496
- Provides 802.3ad port trunking and 802.1p QoS
- Non-Blocking full wire speed architecture
- Features an easy to use web-based user-interface management
- Secured 802.1x access control
- 802.1Q Q-in-Q VLAN with up to 256 active VLANs
- 802.1d/w/s with spanning tree and rate control

	Ju. 10011					
Model	GSW-2473	GSW-5270	GSW-1676 / GSW-2476	GSW-4876	GSW-0890	GSW-2690
Ports/Expansion	24 x 10/100TX	48 x 10/100TX	16/24 x 10/100/1000T	48 x 10/100/1000T	8 x 10/100/1000T	24 x 10/100TX
	2 x 10/100/1000T	4 x 10/100/1000T	4 x 1000FX-SFP	4 x 1000FX-SFP	2 x 1000FX-SFP	2 x 10/100/1000T
	2 x 1000FX-SFP	2 x 1000FX-SFP				2 x 1000FX-SFP
Slots MAC Table	4K	8K	8K	8K	8K	8K
Buffer Memory	512 KB	128 KB	400 KB	1 MB	144 KB	384 KB
Backplane	8.8 Gbps	17.6 Gbps	32/48 Gbps	96 Gbps	16 Gbps	9.6 Gbps
Management	Web browser	Web browser	Web browser	Web browser	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet



### Managed Gigabit Ethernet Switches



### GSW-2494 24-Port TP w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch

- Support 802.3ad port trunking with LACP
- Provides 802.1Q VLAN, 802.1p QoS and 802.1d/w/s spanning tree protocol
- Supports virtual stacking of up to 16 units with GSW-0890/1291/2690/2693/2494/2496
- Non-blocking full wire speed architecture
- DHCP broadcasting suppression and port mirroring
- MAC-based trunking with automatic link fail-over
- 802.1Q Q-in-Q VLAN with up to 256 active VLANs
- Support rate control and IGMP snooping



### GSW-2496 8-Port TP + 16-Port SFP L2 SNMP Gigabit Ethernet Switch

- High performance platform for mission-critical network environments
- Provides flexible connectivity for both copper and fibre optic connections
- Supports virtual stacking of up to 16 units with GSW-0890/1291/2690/2693/2494/2496
- Provides QoS support, port mirroring, Q-in-Q VLAN and broadcast/multicast storm control
- Features a built-in web-based and CLI management user-interface



### GSW-4896 48-Port TP w/ 4-Port shared SFP L2 SNMP Gigabit Ethernet Switch

- High performance L2 SNMP network switch for office and Metro-LAN applications
- Support 802.3ad port trunking with LACP
- Provides 802.1Q VLAN, 802.1p QoS and 802.1D/w spanning tree protocol
- Non-blocking full wire speed architecture
- DHCP broadcasting suppression and port mirroring
- Features a built-in web-based and CLI management user-interface



### GSW-2692 24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo Stackable L2 SNMP Switch

- Provides real stacking of up to 8 units through its 4 Gbps stacking backplane
- Supports IEEE802.1x access control, and TACACS+/SSL/SSH
- Supports port mirroring, IGMP snooping, broadcast storm control and port-based  $\,$
- IEEE802.1Q tag-based, IEEE 802.1d/w/s spanning tree and private VLAN  $\,$
- Supports IEEE 802.3ad port trunking LACP up to 4 trunks with 8 ports in each group
- L2/L3/L4 Quality of Service (QoS) with rate control



### GSW-2493 4-Slot Modularized L2 SNMP Combo Switch

- 3 slots for 8-Port 10/100 TX or 8-Port 100 FX modules
- 1 slot for 2-Port 1000 T copper or 2-Port SFP modules
- Complies with IEEE802.3/3u/ab/z
- High back-plane bandwidth 8.8 Gbps
- Supports 802.1Q and port-based VLAN, 802.1d spanning tree and 802.3ad port trunking with LACP
- Provides multimedia applications via IGMP and 802.1p Quality of Service
- Supports SNMP v1 network management interface with 4 RMON groups
- Features an easy to use web-based user-interface

Ethernet Switches Comp	al 13011				
Model	GSW-2494	GSW-2496	GSW-4896	GSW-2692	GSW-2493
Ports/Expansion	24 x 10/100/1000T	8 x 10/100/1000T	48 x 10/100/1000T	24 x 10/100TX	4 x Expansion slot
	2 x 1000FX-SFP	16 x 1000FX-SFP	4 x 1000FX-SFP	2 x 10/100/1000T-Combo	
	_			2 x Gigabit Stacking ports	
Slots MAC Table	8K	8K	8K	8K	8K
Buffer Memory	400 KB	400 KB	400 KB	512 KB	384 KB
Backplane	48 Gbps	48 Gbps	96 Gbps	12.8 Gbps	8.8 Gbps
Management	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet

#### Accessories

#### Model

GVT-0300



#### Description

1.25Gbps SFP transceiver, Multi-mode, Duplex LC connector (550m)

#### Model

GVT-0301 / GVT-0302



#### Description

1.25Gbps SFP transceiver, Single-mode, Duplex LC connector (10km / 80km)

### Model

SFP-9221 / SFP-9231 / SFP-9321 / SFP-9331 / SFP-9421 / SFP-9431



#### Description

1.25Gbps WDM SFP transceiver, single-mode, Simplex LC connector (10km / 20km / 40km)

#### Works with:

GSW-0508 / GSW-1621 / GSW-1656 / GSW-2456 / GSW-2453 / GSW-5150 / GSW-0841 / GSW-1641 / GSW-2473 / GSW-1676 / GSW-2476 / GSW-4876 / GSW-5270 / GSW-0809 / GSW-0891 / GSW-1291 / GSW-2690 / GSW-2690 / GSW-2494 / GSW-2494 / GSW-2496 / GSW-2496 / GSW-2493 / GSW-2494 / GSW-2496 / GSW-2496 / GSW-2493 / GSW-2494 / GSW-2496 /

### Model

SFP-1101 / SFP-1311 / SFP-1411



### Description

155Mbps SFP transceiver, Duplex LC connector (2km / 20km / 40km)

#### Works with:

GSW-0891

#### Model

SFP-7321 / SFP-7331 / SFP-7421 / SFP-7431



#### Description

1.25Gbps WDM SFP transceiver, single-mode, Simplex LC connector (20km / 40km)

#### Works with:

GSW-0891

### **About WDM SFP transceiver**

The WDM (Wavelength Division Multiplexing) is technique for fibre-optic cable in which multiple optical signal channels are carried across a single strand of fibre at different wavelengths of light. This allows for a multiplication in capacity, in addition to making it possible to perform bidirectional communications over one strand of fibre.

### **Unmanaged Ethernet Switches**

### Model

MDU-0122FXT



### Description

1-Port 100FX Multi-mode ST Module

**Unmanaged Ethernet Switches** 

### Works with:

Model

MDU-2453M

FSW-1609TFX/2409TFX

#### Model

MDU-0123FXC



### Description

1-Port 100FX Multi-mode SC Module

### Works with:

FSW-1609TFX/2409TFX

#### Model

MDU-2453T



### Description

8-Port 10/100/1000TX Module

### Works with:

GSW-2453

### Managed Gigabit Ethernet Switches

### Model

MDU-2493SXSC



### Description

8-Port SFP Module

### Works with:

GSW-2453

### Model

MDU-2453TM



### Description

4-Port TP + 4-Port SFP Gigabit Ethernet Module

### Works with:

GSW-2453

### Description

8-Port 100FX Multi-mode SC Module (2km)

### Works with:

GSW-2493

### Managed Gigabit Ethernet Switches

### Model

MDU-2493LXSC



### Description

8-Port 100FX Single-mode SC Module (30km)

### Works with:

GSW-2493

### Model

MDU-2493TX



### Description

8-Port 10/100TX Module

### Works with:

GSW-2493

### Model

MDU-0140



### Description

2-Port 10/100/1000TX Module

### Works with:

GSW-2493



### Accessories

### Managed Gigabit Ethernet Switches

### Model

MDU-0142



### **Network Adapters**

### Model

FNC-0107TX



### Model

FNC-0109TX



### Description

2-Port SFP Module

### Works with:

GSW-2493

### Description

Fast Ethernet PCI card w/ Wake-on LAN

### See Page

P.29

### Description

Fast Ethernet PCI card

### See Page

P.29

### Network Adapters

### Model

GNC-0105T



### Model

FNC-0103FX



#### Description Description

Gigabit Ethernet 32-bit PCI Card

### See Page

P.29

5-Port Fast Ethernet SNMP PCI Switch Card

### See Page

P.30

### Description

100FX Multi-mode ST fibre Optic PCI Card

### See Page

P.29

### Network Adapters

### Model

FNC-0104FX



### Model

FNC-0115



### Model

GNC-0107



### Description

100FX Multi-mode SC fibre Optic PCI Card

### See Page

P.29

### Description

100FX Multi-mode SC fibre Optic PCI Express Card

### See Page

P.30

### Description

1000FX Multi-mode SC fibre Optic PCI Card

### See Page

P.30

### Network Adapters

### Model

GNC-0111



### Model

FPC-0106TX



### Description

1000FX Multi-mode SC fibre Optic PCI Express Card

### See Page

P.30

## Description

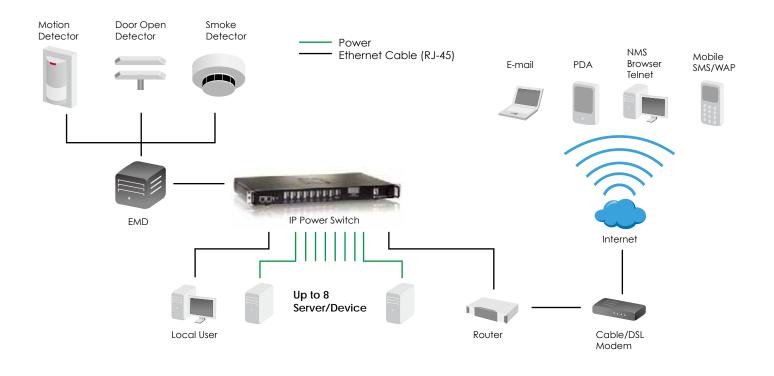
Fast Ethernet PCMCIA Adapter

### See Page

P.30

### LevelOne IP Power Switch

The LevelOne IP Power Switch is an ideal remote management system for office and larger enterprise organizations that need to reboot servers and managing the power to other network devices.





### IPS-0008 8-Port IP Power Switch

- Provides eight power outlets that can be turned on or off remotely
- Intelligently turn on/off devices by event and schedule
- Detail data-logging for statistical analysis and diagnostics
- Sends email for event notification
- Supports SSL v3 and SSH v1 protocol and two level username/password security
- Supports two digital output and provides modem function for remote dial-up connection
- Easy configuration and management via web browser, Telnet or SNMP
- Monitor temperature, humidity, smoke detector via Environmental Monitoring Device (EMD) by optional



# Power over Ethernet (PoE) PD/PSE/Repeaters

Send Power and Data Using only Cat.5 Cables

- PoE Switches
- PoE Hubs
- PoE Kit
- PoE Repeaters
- PoE Rack

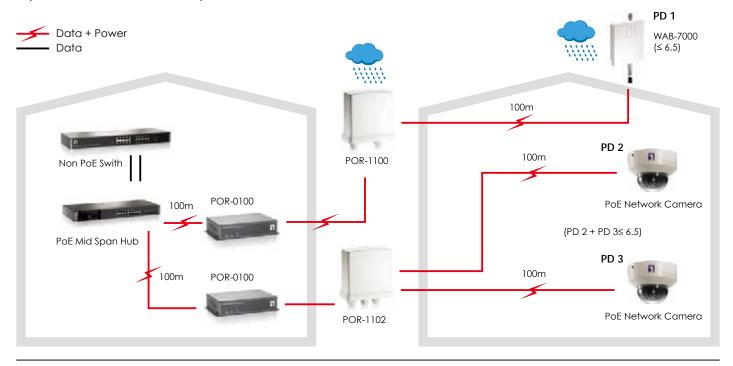
### **Media Converters**

Our Media Converters Offer Increased Speed, Flexibility, and Distance when Transmitting Data

- Ethernet Media Converters
- Converter Chassis
- VDSL2 Media Converters
- Accessories

### LevelOne PoE PD/PSE/Repeaters

LevelOne Power over Ethernet (PoE) devices supply power to PoE-capable devices like network cameras, access points, and VoIP phones using only Ethernet cables. MidSpan hubs combine data and power into the same cable to provide ultimate flexibility when building a network. Use LevelOne PoE indoor/outdoor repeaters to extend your PoE network devices an additional 100 meters. This is especially useful as it doesn't require devices to be located close to power outlets.



### PoE Switches





### FSW-0512 / FSW-0812 5/8-Port Fast Ethernet PD Switch

- Complies with IEEE 802.3af PoE Standard
- Provides 5/8-port 10/100Mbps Ethernet connection
- Powered Device (PD) Switch can be powered by PoE Switch or Midspan Hub
- Saving cost by eliminating the need to install electricity wiring and power outlet
- Compact design for desktop or wall-mounting
- Plug and Play for easy installation



### FSW-0809 4-Port PoE + 4-Port TP Fast Ethernet Switch

- Complies with IEEE 802.3af PoE Standard
- Provides 8-port 10/100Mbps Ethernet Switch with 4-port PoE capability
- Built-in protection for over current and short circuit
- Powers up to 4 PoE PDs, such as Wireless Access Point, Network Camera or any other 802.3af compatible PD
- Features PoE Powered Device (PD) classification identify
- Max. PoE output power: 30W



### FSW-0822 4-Port PoE + 4-Port TP Fast Ethernet Switch

- Complies with IEEE 802.3af PoE Standard
- Provides 8-port 10/100Mbps Ethernet Switch with 4-port PoE capability
- Built-in protection for over current and short circuit
- Powers up to 4 PoE PDs, such as Wireless Access Point, Network Camera or any other 802.3af compatible PD
- Features PoE Powered Device (PD) classification identify
- Max. PoE output power: 61.6W

### PoE Switches Comparison

Model	FSW-0512	FSW-0812	FSW-0809	FSW-0822
Ports/Expansion	4 x 10/100TX	7 x 10/100TX	4 x 10/100TX	4 x 10/100TX
	1 x10/100TX-PD	1 x10/100TX-PD	4 x 10/100TX-PoE	4 x 10/100TX-PoE
Slots MAC Table	2K	2K	1K	1K
Buffer Memory	128 KB	128 KB	96 KB	96 KB
Backplane	1.0 Gbps	1.6 Gbps	1.6 Gbps	1.6 Gbps
Power supply	External	External	External	Internal
	-			

# evel

### PoE Switches



### IFE-0500 4-Port PoE + 1-Port TP Industrial Fast Ethernet Switch

- Provides 4-port 10/100Mbps PoE with fully IEEE 802.3af compliant up to 15.4W per port
- Provides surge (EFT) protection (3,000 VDC)
- Supports 4,000 VDC Ethernet ESD protection
- Supports redundant 12 ~ 48 VDC power input
- Case design meets IP-30 protection standard
- DIN-rail and wall mount design
- Provides broadcast storm protection
- Supports operating temperature from -10°C~60°C
- 1-port 10/100Mbps Ethernet connection for uplink
- Max. PoE output power: 61.6W



### IFE-0501 4-Port PoE + 1-Port Multi-mode SC Fibre Industrial Fast Ethernet Switch

- Provides 4-port 10/100Mbps PoE with fully IEEE 802.3af compliant up to 15.4W per port
- Provides surge (EFT) protection (3,000 VDC)
- Supports 4,000 VDC Ethernet ESD protection
- Supports redundant 12 ~ 48 VDC power input
- Case design meets IP-30 protection standard
- DIN-rail and wall mount design
- Provides broadcast storm protection
- Supports operating temperature from -10°C~60°C
- 1-port 100FX Fibre uplink, Multi-mode 2km, SC connector
- Max. PoE output power: 61.6W



### IFE-0502 4-Port PoE + 1-Port Single-mode SC Fibre Industrial Fast Ethernet Switch

- Provides 4-port 10/100Mbps PoE with fully IEEE 802.3af compliant up to 15.4W per port
- Provides surge (EFT) protection (3,000 VDC)
- Supports 4,000 VDC Ethernet ESD protection
- Supports redundant 12 ~ 48 VDC power input
- Case design meets IP-30 protection standard
- DIN-rail and wall mount design
- Provides broadcast storm protection
- Supports operating temperature from -10°C~60°C
- 1-port 100FX Fibre uplink, Single-mode 30km, SC connector
- Max. PoE output power: 61.6W



### FSW-1671 16-Port 10/100 Rackmount Smart Switch w/ 8 PoE Ports

- Complies with IEEE 802.3af PoE Standard
- Provides 16-port 10/100Mbps Ethernet Switch with 8-port PoE capability
- Features PoE Powered Device (PD) classification identify and protection for over current and short circuit"
- On/Off PoE output via Web interface
- Features Virtual LAN, QoS, Bandwidth Control, Port Trunk, Port Mirror
- Configuration backup / restore for easy deployment
- Max. PoE output power: 123.2W



### GSW-0891 8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo L2 SNMP Switch

- Complies with IEEE 802.3af/Cisco PoE Standard
- Provides 8 x 10/100Mbps PoE ports with 2 x Combo Gigabit RJ45/SFP ports for flexible uplink
- PoE Powered Device (PD) classification identify and protection for over current and short circuit
- On/Off PoE output via Web interface
- Features Virtual LAN, QoS, Bandwidth Control, Port Trunk, Spanning Tree, RTSP
- Features X-Ring to provide faster redundant recovery than Spanning Tree topology
- Max. PoE output power: 123.2W



### GSW-1291 12-Port PoE w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch

- Complies with IEEE 802.3af PoE Standard
- Provides 12 x 10/100Mbps PoE ports with 2 x Combo Gigabit RJ45/SFP ports for flexible uplink
- PoE Powered Device (PD) classification identify and protection for over current and short circuit
- On/Off PoE output via Web interface, Telnet or Serial Console
- Features Virtual LAN, QoS, Bandwidth Control, Port Trunk, Spanning Tree, RTSP
- Manage up to 16 Switches via single IP by Virtual Stacking\* feature
- Max. PoE output power: 184.8W

### PoE Switches Comparison

TOL SWITCHES Compariso	/I I					
Model	IFE-0500	IFE-0501	IFE-0502	FSW-1671	GSW-0891	GSW-1291
Ports/Expansion	1 x 10/100TX	1 x MM 100FX-SC	1 x SM 100FX-SC	8 x 10/100TX-PoE	8 x 10/100TX-PoE	12 x 10/100/1000T-PoE
	4 x 10/100TX-PoE	4 x 10/100TX-PoE	4 x 10/100TX-PoE	8 x 10/100TX	2 x 10/100/1000T	2 x 1000FX-SFP
					2 x 1000FX-SFP	
Slots MAC Table	1K	1K	1K	4K	8K	8K
Buffer Memory	512 KB	512 KB	512 KB	192 KB	128 KB	200 KB
Backplane	1 Gbps	1 Gbps	1 Gbps	3.2 Gbps	5.6 Gbps	24 Gbps
Power supply/Management	Terminal Block	Terminal Block	Terminal Block	Web browser	SNMP/Web/Console/Telnet	SNMP/Web/Console/Telnet

### PoE Switches



### PoE Hubs



# ......

### GSW-2693 24-Port PoE Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch

- Complies with IEEE 802.3af PoE Standard
- On/Off PoE output via Web interface, Telnet or Serial Console
- Features Virtual LAN, QoS, Bandwidth Control, Port Trunk, Spanning Tree, RTSP
- Manage up to 16 Switches via single IP by Virtual Stacking\*
- Max. PoE output power: 180W
- \*Virtual Stacking feature on: GSW-0890/1291/2690/2693/ 2494/2496

### POH-0850TX 8-port PoE Mid Span Hub

- Upgrade the existing Ethernet switches and provide power over Ethernet capabilities
- Provides 8 PoE ports with IEEE 802.3af standard compliant
- PoE Powered Device (PD) classification identify
- Current limited for short circuit protection
- Configure ports and monitor status via Management Utility
- Saving cost by eliminating the need to install electricity wiring and mains outlet
- Max. PoE output power: 130W

### POH-2450 24-port PoE Mid Span Hub

- Upgrade the existing Ethernet switches and provide power over Ethernet capabilities
- Provides 24 PoE ports with IEEE 802.3af/Cisco standard compliant
- PoE Powered Device (PD) classification identify
- Current limited for short circuit protection
- Easy remote management via Web interface, Telnet or Serial Console
- Saving cost by eliminating the need to install electricity wiring and mains outlet
- Max. PoE output power: 400W

### PoE Switches Comparison

Model	Ports/Expansion	Slots MAC Table	Buffer Memory	Backplane	Management
GSW-2693	24 x 10/100TX-PoE, 2 x 10/100/1000T, 2 x 1000FX-SFP	8K	256 KB	8.8 Gbps	SNMP/Web/Console/Telnet

### PoE Hubs Comparison

Model	802.3af	Data In Port	Data + Power Port Out	Data + Power Port In	Data Out Port
POH-0850TX		8	8	-	-
POH-2450		24	24	-	-

### PoE Kit



### PIS-3000 PoE Combo Kit

The PIS-3000 PoE combo kit contains a POS-1000 PoE splitter and a POI-2000 PoE injector for quick set-up of a PoE network that allow people get the benefit of flexible network installation at lower cost and less downtime.



### POS-1000 PoE Splitter

- Complies with IEEE 802.3af PoE Standard
- Provides DC power for non-PoE equipped network device
- Cost saving by eliminating additional mains socket installation
- Plug and play easy installation
- 5/7.5/9/12V adjustable output DC power



### POI-2000 PoE Injector

- Provides both power and data over single Ethernet cable up to 100 metres
- Automatic detection the 802.3af Powered Device (PD)
- Built-in surge and short circuit protection
- Plug and play, no software or configuration needed
- Max. PoE output power: 48VDC, 300mA

### PoE PD/PSE Comparison

Model	PIS-3000(POS-1000)	PIS-3000(POI-2000)
802.3af		-
Power Output	5/7.5/9/12-V DC	48V DC 300mA PoE
Power Input	48V DC/0.3A PoE	100~240V, 50~60Hz, 0.25A



### PoE Kit









### PIS-3100 PoE Adapter Combo Kit

- Contains High-Power Injector and PoE Splitter
- Built-in surge, short circuit and overheat protection
- Power turns off automatically when PD discounted or error detected
- Design for powering high power network device such as PTZ IP camera and Multi-radio WLAN access point
- Cost saving power distribution over existing Cat5 network infrastructure
- Max. PoE output power: 30W (Injector), 12VDC 2.0A (Splitter)

### POI-4000 High Power PoE Injector

- High performance PoE Injector provides power over single Ethernet cable
- Design for powering high power network device such as PTZ IP camera and Multi-radio WLAN access point
- Built-in surge and over current protection
- LED status indicates Power and Connectors activities
- Plug and play, no software or configuration needed
- Max. PoE output power: 40W

### POS-4000 High Power PoE Splitter 12V

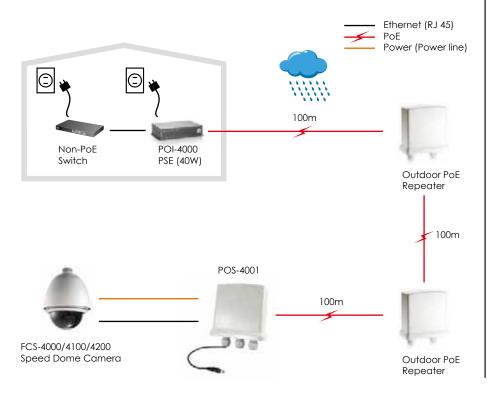
- High performance PoE splitter enables non-PoE network device with PoE functionality
- Built-in current limitation, short circuit and overload protection
- Design to work with POI 4000 High-performance Power Injector
- Cost saving power distribution over existing Cat5 network infrastructure
- Max. PoE output power: 12VDC 2.5A

### PoE PD/PSE Comparison

Model	PIS-3100(PSE)	POI-4000	POS-4000	POS-4001
802.3af	-			
Power Output	48V DC 650mA PoE	48V DC/0.8A PoE	12V DC/2.5A	12V DC/2.5A
Power Input	100~240V, 50~60Hz, 0.6A	19V/3.16A	48V DC	48V DC

### **High Power PoE Splitter**

The traditional PoE standard (IEEE 802.3af) supports 15.4 watts, which is fine for regular devices. But what do you do if your network camera, or wireless access point needs more power? POS-4001 is an outdoor PoE Splitter that adds PoE functionality to any network device requiring high power.





### POS-4001 Outdoor High Power PoE Splitter (12V)

Outdoor High Power PoE Splitter (12V)

- 12DC 2.5A High Power PoE Splitter
- Split Power over Ethernet (PoE) to remote devices
- DC Output: 12V DC (default), 9,6,5,3.3V DC (Optional)
- Ethernet 100Mbps Wire Speed
- Simple to install-Plug & Play
- IP-66 Waterproof design

### PoE Repeaters



### POR-0100 Indoor PoE Repeater

- Extends Cat.5 cable installations to beyond 100 metres
- Forwards power over Ethernet (PoE) to remote device
- No Power required
- Fully transparent-no restrictions to network traffic
- Simple to install-works instantly
- Supports all network devices Compatible with universal
- IEEE 802.3af PoE Standard



### POR-0102 Indoor PoE Repeater

- Extends Cat.5 cable installations to beyond 100 metres
- Forwards power over Ethernet (PoE) to remote device
- No Power required
- Fully transparent-no restrictions to network trafficSimple to install-works instantly
- Supports all network devices Compatible with universal
- IEEE 802.3af PoE Standard
- 2-Port Ethernet Power Sourcing Equipment(PSE)



### POR-1100 **Outdoor PoE Repeater**

- Extends Cat.5 cable installations to beyond 100 meters
- Forwards power over Ethernet (PoE) to remote device
- No Power required
- Fully transparent-no restrictions to network traffic
- Supports all network devices
- Compatible with universal IEEE 802.3af PoE Standard
- IP66 weatherproof design



### POR-1102 **Outdoor PoE Repeater**

- Extends Cat.5 cable installations to beyond 100 meters
- 2-Port Ethernet Power Sourcing Equipment(PSE)
- Forwards power over Ethernet (PoE) to remote device
- No Power required
- Fully transparent-no restrictions to network traffic
- Supports all network devices
- Compatible with universal IEEE 802.3af PoE Standard
- IP66 weatherproof design

### PoE Rack



### POI-2100 19-inch 8-slot PSE Rack for PIS-3100

- Accommodate up to 8 PSE of PIS-3100
- Input voltage: 100-240V AC 50/60Hz 6/3A
- Material: SPCC with dark gray color painted
- Plug-and-play support



### POC-4000 8-Bay High Power PoE Chassis

- Accommodates up to 8 bays for high-power PoE-PSE POI-4000-Z
- Standard 19" Chassis mountable for space saving convenient installation
- Plug & play features for easy system expansions
- Two DC electric fans for thermal ventilation
- 250V 2A Fuse Protection

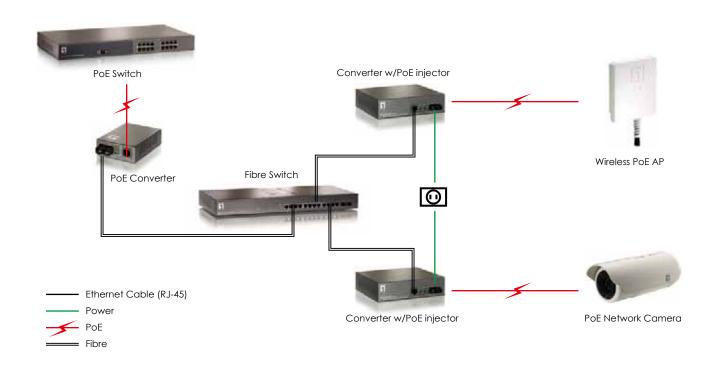
### DoE Dangators Comparison

FUE Repeaters Cumparis	UII			
Model	POR-0100	POR-0102	POR-1100	POR-1102
802.3af				
RJ-45 Input	1	1	1	1
RJ-45 Output	1	2	1	2
Indoor/Outdoor	Indoor	Indoor	Outdoor (IP66)	Outdoor (IP66)



### LevelOne Media Converters

Our fibre converters follow all the IEEE standards and are reliable and easy to install solutions that connect your networks over long distances. And with built-in PoE functionality, users are able to create deployments that aren't limited by power outlets or extension cords.



### **Ethernet Media Converters**



### FVT-0103TXFC / FVT-0104TXFC 10/100BASE-TX to 100BASE-FX Multi/Single-Mode Fibre Converter w/ PoE (SC)

- PoE enabled 100TX to 100FX-SC media converters
- Converts 100TX Fast Ethernet to 100FX Fast Ethernet
- SC fibre connector for long range fibre optic connectivity
- Provides 802.3af PoE PD compatible and DIP switch to set configurations
- Simplified troubleshooting with "Link-Loss-Forwarding"
- Over-currant protection and under-currant detection



### FVT-0203TXFC / FVT-0204TXFC 10/100BASE-TX to 100BASE-FX Multi/Single-Mode Fibre Converter w/PoE Injector (SC)

- PoE enabled 100TX to 100FX-SC media converter
- Convert 100TX Fast Ethernet to 100FX Fast Ethernet
- SC fibre connector for long range fibre optic connectivity
- Provides 802.3af PoE PSE compatible and DIP Switch to set configurations
- Simplified troubleshooting with "Link-Loss-Forwarding"
- Features PSE MDI power enabling/disabling and internal AC power supply
- Provides Link Fault Pass (LFP) and Far End Fault (FEF)



### FVT-6001 / FVT-6301 10/100BASE-TX to 100BASE-FX Fibre Converter w/ TS-1000 Support (SC)

- Complies with IEEE 802.3, 802.3u, 802.3x standards
- Converts network signals between UTP copper and fibre optic cabling
- SC fibre connector with TS-1000 support
- Works as standalone converter or slotted into Converter Chassis (FVT-4000)
- Supports 10/100 auto-negotiation and auto MDI/MDI-X, half/full duplex mode
- Simplified troubleshooting with "Link-Loss-Forwarding"

### LevelOne Ethernet Media Converters Comparison

•					
FVT-0103TXFC	FVT-0104TXFC	FVT-0203TXFC	FVT-0204TXFC	FVT-6001	FVT-6301
0TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC
Multi	Single	Multi	Single	Multi	Single
2 km	20 km	2 km	20 km	2 km	30 km
802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3x	802.3/3u/3x
	OTX to 100FX-SC  Multi 2 km	DTX to 100FX-SC         100TX to 100FX-SC           Multi         Single           2 km         20 km	DTX to 100FX-SC         100TX to 100FX-SC         100TX to 100FX-SC           Multi         Single         Multi           2 km         20 km         2 km	OTX to 100FX-SC         100TX to 100FX-SC         100TX to 100FX-SC         100TX to 100FX-SC           Multi         Single         Multi         Single           2 km         20 km         2 km         20 km	OTX to 100FX-SC         100TX to 100FX-SC         Multi           Multi         Single         Multi         Single         Multi           2 km         20 km         2 km         20 km         2 km

### **Ethernet Media Converters**



### FVT-4001 / FVT-4301 10/100BASE-TX to 100BASE-FX Multi/Single-Mode Fibre Converter (SC)

- UTP to fibre switching media conversion
- Auto-negotiation speed in half/full duplex mode
- TX port supports auto MDI/MDI-X crossover
- Built-in Smart Link Error Detection technology
- Works as standalone converter or slotted into Converter Chassis (FVT-4000)
- Select the Switching and Pure converter mode for best compatibility



### FVT-4002 10/100BASE-TX to 100BASE-FX Multi-Mode Fibre Converter (ST)

- UTP to fibre switching media conversion
- Auto-negotiation speed in half/full duplex mode
- TX port supports auto MDI/MDI-X crossover
- Built-in Smart Link Error Detection technology
- Works as standalone converter or slotted into Converter Chassis (FVT-4000)
- Select the Switching and Pure converter mode for best compatibility



### GVT-4000 10/100/1000BASE-TX to 1000BASE-FX Converter (SFP)

- UTP to fibre (mini-GBIC) media converter
- Auto-negotiation speed, half/full duplex
- Provides TX port support auto MDI/MDI-X
- Built-in Link-Loss-Forwarding technology
- Hot-swappable for chassis
- Works as standalone converter or slotted into Converter Chassis (FVT-4000)
- (Refer to page 22 Accessories for optional SFP Transceiver)

### LevelOne Ethernet Media Converters Comparison

Model	FVT-4001	FVT-4002	FVT-4301	GVT-4000	GVT-4001
Connector	100TX to 100FX-SC	100TX to 100FX-ST	100TX to 100FX-SC	1000TX to 1000FX-SFP	1000TX to 1000FX-SC
Mode	Multi	Multi	Single	Single/Multi	Multi
Distance	2 km	2 km	30 km	80 km or 550m	550 km
Standards Compliance	802.3/3u/3x	802.3/3u/3x	802.3/3u/3x	802.3/3u/3ab/3z/3x	802.3/3u/3ab/3z/3x

### Converter Chassis



### GVT-4001 10/100/1000BASE-TX to Multi-mode 1000BASE-FX Converter (SC)

- UTP to fibre media converter
- Auto-negotiation speed, half/full duplex
- Provides TX port support auto MDI/MDI-X
- Built-in Link-Loss-Forwarding technology
- Hot-swappable for chassis
- Works as standalone converter or slotted into Converter Chassis (FVT-4000)



### FVT-4000 10-Slot Media Converter Chassis w/ Redundant Power Supply

- Accommodate up to 10 media converters
- Supports Ethernet, Fast Ethernet, Gigabit Ethernet, single-mode fibre and multimode fibre media converters
- Converters are individually secured and are hotswappable for maximum connection reliability
- Includes a redundant hot-swappable power supply for continuous network operation
- Standard 19-inch rackmount dimensions allow spacesaving convenient installation



### FVT-5000 16-Slot Managed Converter Chassis w/ Redundant Power Supply

- Provides support for 10/100TX to 100FX and 1000T to SFP modules
- Supports TS-1000 function for the 10/100 modules
- Hot-swappable on Converter and CPU modules
- Provides status check and management for SNMP, power, fan and media converter modules (Refer to page 22 Accessories for optional Converter module and SFP Transceiver)

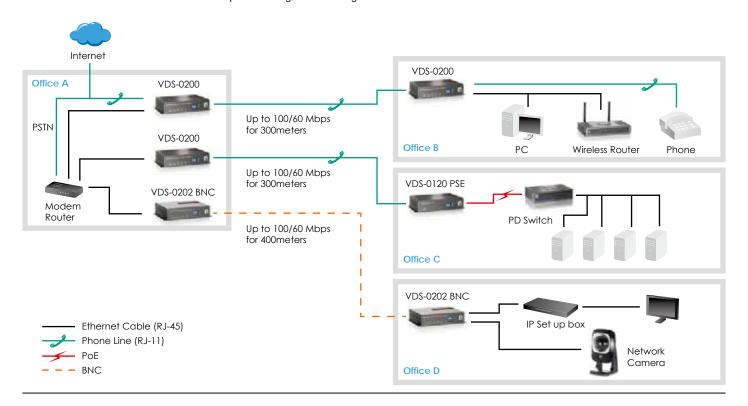
### **Converter Chassis Comparison**

Model	FVT-4000	FVT-5000	
Slot	10	16	
Redundant Power			
Management	-	SNMP/Web UI/Telnet/Console	



### LevelOne Media Converters

LevelOne has unique solutions for converting your Ethernet data. Our newest VDSL2 converters are innovative industry leaders. We're now able to offer 300+ meters over traditional RJ-11 phone wiring, thus beating the normal 100 metre runs of Cat.5 cables.



### **VDSL2** Media Converters



### VDS-0200 Ethernet over VDSL2 Converter (Annex A)

- Support Annex A for internal splitter (option)
- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT compliance
- Provides 100/60 Mbps DownSream/UpStream for distance up to 300 metres
- Supports VDSL2 connection up to 2000 metres
- Supports 2 RJ11 for DSL and phone interfaces and 2 RJ45 for Ethernet LAN port
- Trellis coding support up to 1024 discrete multi-tone bins and 4 Dip Switches for configuration settings
- Low-latency for video/voice/data applications



### VDS-0202 Ethernet over VDSL2 Converter (BNC)

- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
- Provides100/60 Mbps DownSream/UpStream for distance up to 400 meters
- Supports VDSL2 connection up to 2000 meters
- Provides BNC connector for cable interfaces and 2 RJ45 for Ethernet LAN port
- Trellis coding support up to 1024 discrete multi-tone bins and 4 Dip Switches for configuration settings
- Auto MDIX for 10/100BaseT Ethernet LAN Ports
- Low-latency for video/voice/data applications



### VDS-0120 Ethernet over VDSL2 Converter (PSE)

- Provides 100/60 Mbps DownSream/UpStream for distance up to 300 meters
- Supports VDSL2 connection up to 2000 meters
- IEEE802.3af compliant 48V Power-Sourcing-Ethernet (PSE) standard and line surge protection
- Maximum 15.4 Watt for class 3 output power
- Auto MDIX for 10/100BaseT Ethernet LAN Ports
- Low-Latency for video/voice/data applications
- Selectable fast/Interleaved modes and fixed data rate/ SNR margin

### LevelOne VDSL2 Media Converter Comparison

Model	VDS-0200	VDS-0202	VDS-0120
Max. DL/UL Speeds/Distance	100/60 Mbps/300m	100/60 Mbps/400m	100/60 Mbps/300m
RJ-45 LAN Port	2	2	1
RJ-11 DSL Port	1	-	1
RJ-11 Telephone Port	1	-	-
BNC Port	-	1	-

### Accessories

### Model

GVT-0300



#### Description

1.25Gbps SFP transceiver, Multi-mode, Duplex LC connector (550m)

#### Works with:

GVT-4000 / GVT-5000

### Model

SFP-9321/SFP-9331



### Description

1.25Gbps WDM SFP transceiver, single-mode, Simplex LC connector (20km)

#### Works with:

GVT-4000 / GVT-5000

### Model

RPS-4000



### Description

Redundant Power Supply

### Works with:

FVT-4000

### Model

FVT-5001



10/100TX to Multi-mode 100 FX-SC Module (2km)

### Works with:

FVT-5000

#### Model

GVT-0301 / GVT-0302



### Description

1.25Gbps SFP transceiver, Single-mode, Duplex LC connector (10km / 80km)

#### Works with:

GVT-4000 / GVT-5000

#### Model

SFP-9421/SFP-9431



### Description

1.25Gbps WDM SFP transceiver, single-mode, Simplex LC connector (40km)

### Works with:

GVT-4000 / GVT-5000

### Model

RPS-5000



### Description

Redundant Power Supply

### Works with:

FVT-5000

### Model

FVT-5301



10/100TX to Single-mode 100 FX-SC Module (30km)

### Works with:

FVT-5000

### Model

SFP-9221/SFP-9231



#### Description

1.25Gbps WDM SFP transceiver, single-mode, Simplex LC connector (10km)

### Works with:

GVT-4000 / GVT-5000

### **About WDM SFP transceiver**

The WDM (Wavelength Division Multiplexing) is technique for fibre-optic cable in which multiple optical signal channels are carried across a single strand of fibre at different wavelengths of light. This allows for a multiplication in capacity, in addition to making it possible to perform bidirectional communications over one strand of fibre.

### Model

GVT-5000



### Description

10/100/1000TX to 1000 FX-SFP Module

### Works with:

FVT-5000





## Wireless Bridges/ Access Points

Connecting Devices through Channels in the Air

- Wireless Access Points
- Wireless Bridge

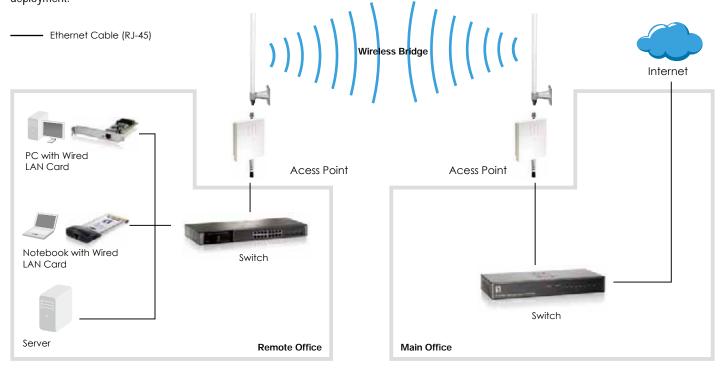
## **Antennas**

Long Range, Short Range, Indoor, Outdoor

- 2.4 GHz Antennas
- 5 GHz Antennas
- Dual Band (2.4/5 GHZ) Antennas
- Accessories

### LevelOne Wireless Bridges/Access Points

Our bridges and access points create unique and flexible network architectures. Depending on your requirement, these devices make it possible to transmit wireless signals to every corner of your office. Indoor and outdoor options are available so you can create fast networks for any deployment.



### Wireless Access Points



### WAP-3000 / WAP-3100 11g Wireless AP / 11g Wireless PoE AP

- Provides fully IEEE 802.3 compatible on the Ethernet side and fully 802.11g infrastructure operating mode
- Provides 10/100BASE-TX Fast Ethernet interface
- Allows auto fallback data rate for optimized reliability, throughput and transmission range
- Provides 64/128-bit WEP, WPA, and WPA2 network security encryption
- WDS bridging function and provides AP Client mode
- WAP-3100 provides Power over Ethernet (PoE)



### 11g 108 Mbps PoE Wireless Access Point

- Provides wireless Super G technology to deliver the data rates up to 108 Mbps
- Fully compliant with 802.3af PoE functionality as well as 802.11b and 802.11g wireless standards
- Provides robust network security with 64/128- bit WEP, WPA, WPA-PSK, 802.1x user authentication, Radiusbased Mac authentication and UAM
- Provides Multi SSIDs for easy network configuration
- Supports DHCP client, WINS client and radius client
- Provides automatic channel selection and SNMP v1/v2c



### WAP-6010 N Max Wireless Access Point

- Complies with the IEEE 802.11b/g and IEEE802.11n standards
- Excellent throughput rated at up to 300 Mbps for bandwidth-hungry applications
- Push button Wi-Fi protected setup, fast and easy wireless security
- Web-based configuration and management
- Supports AP/AP client/WDS/repeater modes
- Provides WEP, WPA, WPA2 and IEEE 802.11x for high level security
- Supports SNMP v1/v2c
- Supports WMM to enhance user performance and density

### Wireless Access Point Comparison

Model	WAP-3000	WAP-3100	WAP-0005	WAP-6010
Wireless Standard	11b/g	11b/g	11b/g, Super G	11b/g/n Draft 2.0
Antenna Connector	RP-SMA	RP-SMA	RP-SMA	RP-SMA
PoE	-			-
IP Rating	-	-	-	-



### Wireless Access Points



WAP-0007 11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)

- Wireless Access Point with built-in storage space for a 2.5" IDE HDD
- Fully compliant with 2.4GHz 802.11b and 802.11g wireless standards
- Provides wireless security with 64/128-bit WEP, WPA, and WPA2 encryption
- Provides 2 USB2.0 connection ports for external USB storage devices
- Provides data backup and file-sharing functions
- Supports wireless client, AP, repeater, WDS and hybrid WDS operation modes



WAP-0008 11b/g 54 Mbps Wireless Access Point + Storage (3.5" HDD)

- Single 3.5 inch SATA or IDE Hard Disk bay
- Stream Music or Video to PCs, Xbox or PS3 using the iTunes and UPnP Media Servers
- Download Files without PC Supports HTTP, FTP and **RitTorrent**
- Share Files using FTP Server or Windows File Sharing / Samba
- Two High Speed USB 2.0 Ports for Extra Storage
- Integrated Wireless Access Point providing speeds of up to 54Mbps
- Operates as Wireless Client, Access Point or Wireless Extender (WDS) modes.
- Web Interface Configuration and Management



WAP-3101 Ceiling Mount PoE Wireless Access Point

- Wireless access point mounted on the ceiling, no awkward antennas
- Simple deployment using IEEE 802.3af Power over Ethernet PD (Power Device) standard
- Excellent for adding discreet wireless APs to hotels, libraries, public transport, etc.
- Data rates up to 54 Mbps in wireless 11g mode
- Supports WEP, WPA, WPA2 and IEEE 802.11x for high level security
- Supports AP, Repeater and WDS mode
- Support Multi-SSID function (4 SSID) in AP mode



WAP-1001 11b/g 108 Mbps Outdoor PoE Wireless Access Point

- Provides wireless network speed up to 108 Mbps with Super G
- Supports Access Point, AP client, bridge and repeater multiple operation modes
- Compact design with integrated 12 dBi antenna
- Provides network security with 64/128/152-bit WEP, WPA-PSK encryption
- Supports point-to-point, point-to-multi point bridge and repeater modes
- Power over Ethernet (PoE) design to eliminate power cable and adapter expanse



WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna

- Integrated a 9 dBi directional antenna
- Provides high speed data rate of up to 54 Mbps
- ACK timeout adjustment for long distance applications
- Point-to-point and point-to-multipoint topology
- SNMP remote configuration management
- Optional Hi-Power RF transmission
- 802.11i and 802.1x security support
- PoE power supply and data transmission
- IP66 weather-proof design



### WAB-3002 Wireless 11g Outdoor PoE AP

- Provides high speed data rate of up to 54 Mbps
- ACK timeout adjustment for long distance applications
- Point-to-point and point-to-multipoint topology
- SNMP remote configuration management - Optional Hi-Power RF transmission
- 802.11i and 802.1x security support
- PoE power supply and data transmission
- IP66 weather-proof design
- Works well with LevelOne Outdoor Antennas (see page 38-39)

### Wireless Access Point Comparison

Throises rouses i sink companion						
Model	WAP-0007	WAP-0008	WAP-3101	WAP-1001	WAB-3001	WAB-3002
Wireless Standard	11b/g	11b/g	11b/g	11b/g, Super G	11b/g	11b/g
Antenna Connector	RP-SMA	RP-SMA	Built-in 4dBi	Built-in 12 dBi	Built-in 9 dBi	N-type
PoE	-	-				
IP Rating	-	-	-	IP66	IP66	IP66

### Wireless Access Points



### WAB-7000 Wireless 11 a/b/g Outdoor PoE AP

- Complies with IEEE 802.11a/b/g standards operating on 2.4GHz or 5GHz
- Point-to-point and point-to-multi point topology applications low interference, non-overlapped channels
- Easy installation with wall/pole mounting kits included
- 802.11i and 802.1x security support
- 802.3af PoE power supply and data transmission
- IP66 weather proof design
- External antenna for diverse option for more applications
- Works well with LevelOne Outdoor Antennas (see page 28-29)



### WAB-7400 Dual Radio PoE Mesh Access Point

- Dual Radio for independent backhaul and local access allow operators to set up at both 2.4 GHz and 5 GHz
- Self configuration and healing support
- 802.3af PoE power supply and data transmission
- IP65 weather proof design
- 802.1x, 802.11i and VPN pass-thru mechanisms
- MAC address access control list support to ensures secure network connection
- Support WMM extension to improve the users experience for audio, video and voice applications
- Works well with LevelOne Outdoor Antennas (see page 28-29)

### Wireless Access Point / Bridge Comparison

Model	WAB-7000	WAB-7400
Wireless Standard	11a/b/g	11a/b/g
Antenna Connector	N-type	N-type
PoE		
IP Rating	IP66	IP65

### Accessories

### Model

ANC-2210



### Description

200 series N plug- N plug Cable 1m

### Works with:

WAB-3002 / WAP-7000 / WAP-7400

### Model

ANC-2310



### Description

200 series N plug- RPSMA plug Cable 1m  $\,$ 

### Works with:

WAB-3002 / WAP-7000 / WAP-7400

### Model

ANC-2350 / 2330



### Description

200 Series N plug - RPSMA plug Cable 1.5m / 3m

### Works with:

WAB-3002 / WAP-7000 / WAP-7400

### Mode

ANC-4230



### Description

400 series N plug -N plug Cable 3m

### Works with:

WAB-3002 / WAP-7000 / WAP-7400

### Model

ANC-4130 / 4160



### Description

400 Series N plug - N jack Cable 3m / 6m

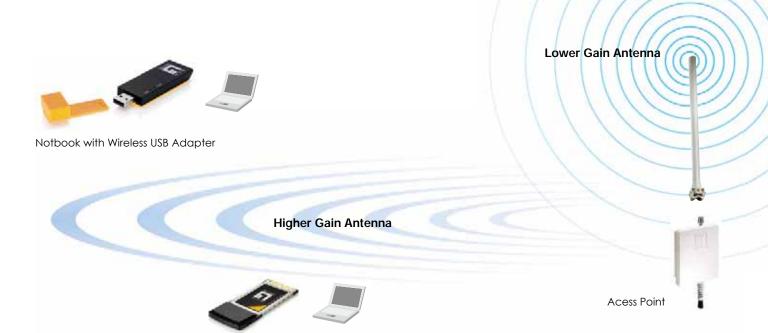
### Works with:

WAB-3002 / WAP-7000 / WAP-7400



### LevelOne Antennas

LevelOne provides a wide variety of directional and omni-directional antennas, making it possible to send and receive wireless signals over distances of up to 5000m.



### 2.4 GHz Antennas





- IEEE 802.11b/g wireless applications in 2.4 GHz frequency range
- Provides a stable signal and extends coverage
- Replace standard detachable antennas on most wireless routers and access points
- Reverse SMA plug connector for easy replacement of standard antennas
- Does not impact the power requirement of wireless devices



OAN-1030 3 dBi Omni-directional Ceiling Indoor Antenna Kit

Notbook with Wireless LAN Card

- No power-source needed in order to increase the flexibility of installation
- The approximate range under 54 Mbps is around 40m
- Provides ULA-168 1m cable for wireless device with SMA connector
- Mounted on the ceiling for best indoor coverage



OAN-1070 7 dBi Omni-directional Indoor Antenna Kit

- For IEEE 802.11 b/g Wireless applications in 2.4GHz frequency range
- Provides stable signals and extends coverage
- Omni-directional operation
- Easy to located in limited space
- Easy to install
- GDC-101 1.5m cable for wireless device with SMA plug reverse connector

### Antennas Comparison

Antennas Companson			
Model	OAN-0500	OAN-1030	OAN-1070
Operating Area	Indoor	Indoor	Indoor
Gain	5 dBi	3 dBi	7 dBi
Standard	b/g	b/g	b/g
Connector	RP-SMA Plug	RP-SMA Plug	Quick RP-SMA Plug
Range	40~200m	40~120m	60~400m
Angle (horz/vert)	360°/35°	360°/75°	360°/23°

### 2.4 GHz Antennas



### OAN-0600 Dual-Band Omni-Directional Antenna

- Compatible with 2.4GHz 802.11 b/g or 5GHz 802.11a Wireless devices
- 2.5dBi antenna for 2.4GHz
- 5dBi antenna for 5GHz
- Provides a more stable signal and extends coverage
- N type plug connector for easy replacement of standard out antennas
- Replace standard detachable antennas on most Access Points



### OAN-2151 15 dBi Omni-directional Outdoor Antenna

- IEEE 802.11b/g/draft-n Wireless applications in 2.4  $\sim$  2.5GHz ISM Band
- 15dBi Omni-Directional provides for extended wireless network coverage
- Lightweight and all-weather operation
- Outdoor antenna for public hot-spots, WiFi and RFID applications
- Includes a U-Bolt mounting bracket



OAN-2090 9dBi Omni-Directional Indoor/Outdoor Antenna Kit

- IEEE 802.11 b/g application in 2.4GHz Frequency Range
- Surge protector included to avoid lighting damage
- Omni-directional operation provides extended point to multi-point coverage
- Standard N-jack connector
- 3 meter cable, with standard N-Plug and RPSMA- Plug



### WAN-1112 12 dBi Directional Patch Indoor Antenna Kit

- IEEE 802.11b/g Wireless 2.4 GHz wireless applications
- Provides stable signals and extends coverage
- Directional operation
- Easy to install on wall surface
- Includes UL-168 3m cable for wireless device with SMA connector



### 8.5 dBi Pico cell Indoor/Outdoor Antenna

- Compatible with 802.11b/g standard Wireless networks
- Extend Wireless Network Indoor and Outdoor
- Waterproof, UV resistant

WAN-2185

- Includes extension cord for easy connection to LevelOne Access Points and Routers
- Includes wall-mounting kit for easy quick and installation
- Operates on 2.4~2.5 GHz frequencies range



### WAN-2140 14 dBi Directional Panel Outdoor Antenna

- IEEE 802.11b/g applications at the range between 2.4GHz~2.5GHz frequency band
- Easy to install for vertical or horizontal polarization
- Directional operation provides extended point to point coverage
- Integrated N-Type female connector

### **Antennas Comparison**

7 interinas companson						
Model	OAN-0600	OAN-2151	OAN-2090	WAN-1112	WAN-2185	WAN-2140
Operating Area	Outdoor	Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Outdoor
Gain	2.5/5 dBi	15 dBi	9 dBi	12 dBi	8.5 dBi	14 dBi
Standard	a/b/g	b/g/draft-n	b/g	b/g	b/g	b/g
Connector	N-Jack	N-Jack	N-Jack	SMA-Jack	N-Jack	N-Jack
Range	300~500m	800~3000m	400~1000m	200~800m	350~1200m	300-3500m
Angle (horz/vert)	360°/30°	360°/150°	360°/15°	84°/23°	70°/65°	30°/33°



### 2.4 GHz Antennas



### WAN-2181 18 dBi Directional Panel Outdoor Antenna

- For IEEE 802.11b/g/draft-n Wireless applications in 2.4 ~ 2.5GHz ISM Band
- 18dBi Directional and Multi-point operation
- Lightweight and all-weather operation
- Outdoor antenna for public hot-spots, WiFi and RFID applications
- DC Short and lightning protection
- Includes tilt and swivel mast mount brackets



### WAN-2218 11b/g 18 dBi Directional Yagi Outdoor Antenna

- Supports 802.11b/g 2.4GHz Wireless applications
- Provides stable signals and extends coverageEasy to install on wall surface
- Directional operation

### 5 GHz Antennas



### OAN-4101 11a 10 dBi Omni-Directional **Outdoor Antenna**

- Provides IEEE 802.11a applications at the range between 5.5 GHz to 5.825 GHz frequency band
- Surge protector to prevent the lightning-induced surges or static electricity
- Omni-directional operation provides extended point to multi-point coverage
- Easy to install



### WAN-4231 11a 23 dBi Directional Panel **Outdoor Antenna**

- For IEEE 802.11a applications at the range between 5.150~5.875 GHz frequency band
- Easy to install for vertical or horizontal polarization
- Directional operation provides extended point-to-point coverage
- Low wind resistance

### Dual Band (2.4/5 GHZ) Antennas



WAN-1160 11a/b/g 6/8 dBi Directional Indoor Antenna

- Dual-band for 802.11a 5.0 GHz and 802.11b/g 2.4 GHz wireless applications
- Provides stable signals and extends coverage
- Easy to locate in small spaces
- Provides ULA-100 1m cable for wireless device with SMA connector

### **Antennas Comparison**

Model	WAN-2181	WAN-2218	OAN-4101	WAN-4231	WAN-1160
Operating Area	Outdoor	Outdoor	Outdoor	Outdoor	Indoor
Gain	18 dBi	18 dBi	10 dBi	23 dBi	6/8 dBi
Standard	b/g/draft-n	b/g	a	а	a/b/g
Connector	N-Jack	N-Jack	N-Jack	N-Jack	Quick RP-SMA Plug
Range	1500~5000m	1500~5000m	600~2400m	1500~5000m	25~180m
Angle (horz/vert)	17°/17°	15°/15°	360°/7°	10°/10°	80°/80°

### Accessories

### Model

ANC-2210



### Description

200 sereis N plug - N plug Cable 1m

### Works with:

LevelOne outdoor antennas

### Model

ANA-6100



### Description

6GHz N jack to N plug Outdoor Lighting Arrestor

### Works with:

LevelOne outdoor antennas

### Model

ANA-3100



### Description

3GHz N jack to N plug Outdoor Lighting Arrestor

### Works with:

LevelOne outdoor antennas

### Model

ANC-2310



### Description

200 series N plug - RPSMA plug Cable 1m

### Works with:

LevelOne outdoor antennas

### Model

ANC-2350/2330



### Description

200 Series N plug - RPSMA plug Cable 1.5m/3m

### Works with:

LevelOne outdoor antennas



ANC-4230



### Description

400 series N plug - N plug Cable 3m

### Works with:

LevelOne outdoor antennas

### Model

ANC-4130 / 4160



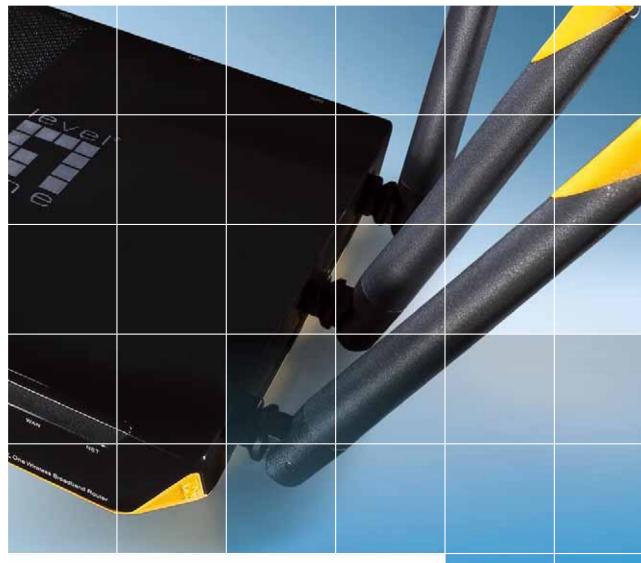
### Description

400 Series N plug - N jack Cable 3m/6m

### Works with:

LevelOne outdoor antennas





# **Broadband Routers and Gateways**

High-Speed Routers for Quick and Secure Internet Access

# **Broadband ADSL Modem/Routers**

Fast and Secure Access to the Internet

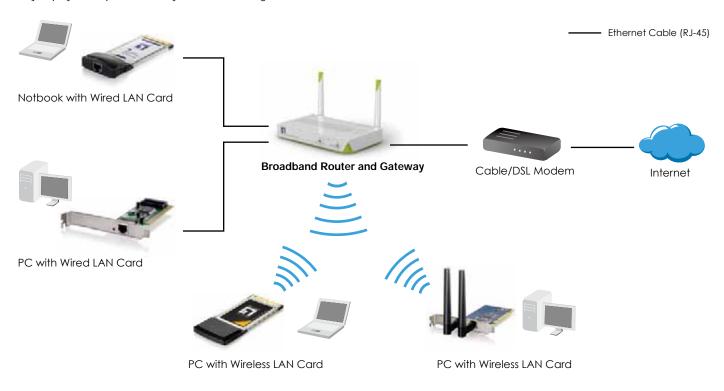
## **Network Adapters**

Wired and Wireless Network PCI Cards, CardBus and USB Adapters

- Wired
- Wireless
- Accessories

### LevelOne Broadband Routers and Gateways - for CABLE connection

LevelOne routers and gateways are a great addition to any network. With both wired and wireless products available, users can choose from many deployment options to easily share and manage network data.



### Wired



### AMG-2000 Access Point Management Gateway

- Enables the administration of a complete network from a centralized point
- Provides integrated router with 5 LAN and 2 WAN ports with fail-over function
- Integrated billing profiles for on-demand customers according to time and volume (AAA)
- Provides 500 local accounts, 2000 on-demand accounts for up to 120 concurrent users at the same time
- Supports site- to-site IPSec VPN (up to 10 IPSec tunnels) and VPN pass-through
- Provides easy guest access management and multiple service zone (multiple SSID, VLAN)



### FBR-1430 VPN Broadband Router

- Ideal broadband router for sharing Internet access
- Features an advanced built-in Firewall and VPN capability
- Multi-DMZ, Application and URL Filtering
- Provides PPTP and IPSec VPN support
- Create and securely connect to servers over the Internet via 10 secured VPN Tunnels
- Integrated 4-port Fast Ethernet switch with UPnP, NAT and DHCP
- Web-Based Configuration and Management



### FBR-4000 Multi-WAN VPN Load Balancing Router

- Enables 4 WAN,10 LAN, 2 DMZ auto-MDI/MDI-X 10/100 Mbps RJ-45 ports
- Supports QoS and band width management for critical traffic and applications
- Provides shares Internet access up to 253 users and supports 80,000 concurrent sessions
- Supports VPN security up to 40 tunnels with encryption of DES, 3DES, AES (128/139/256-bit)
- Supports full firewall functions to secure data connectivity with SPI, DoS, URL block filtering, and port/ service blocking for additional protection
- Advanced NAT features to setup DMZ, DDNS, remote management, virtual servers, SNMP and ARP proxy

### **Broadband Routers and Gateways Comparison**

Model	AMG-2000	FBR-1430	FBR-4000
10/100Mbps LAN	5	4	10
10/100Mbps WAN	2	1	4
Wireless Standards	-	-	-
Management	HTTP/Console/SNMP	HTTP	HTTP/SNMP

### Wired



### FBR-1418TX Broadband Router

- Integrate with 4 port Fast Ethernet switch: 10/100Mbps MDI/MDIX Auto-Sensing
- Provide 10/100Mps WAN interface to connect with DSL or cable modem
- Built-in NAT function: allow multiple PCs and devices to share one Internet connection
- Built-in firewall to protect your local network
- VPN support: pass through of PPTP, L2TP, and IPSec
- Web-based interface configuration and management
- Easy to upgrade using Web or Windows Utility

### Wireless



### WSK-3000 N\_Max Wireless Starter Kit

- Contains wireless N\_Max WBR-6010 broadband router and WUA-0601 USB adapter together as a kit
- Easy to use configuration wizard
- At speeds of 300 Mbps, enjoy the fastest wireless N throughput; true compatibility
- Supports WEP encryption with WPA, WPA2 and provides QoS for full control over outgoing data traffic
- Provides WPS Push Button: secure both devices with the simple push of a button



### WBR-3405TX 108 Mbps Wireless Router

- Provides 4 10/100 Mbps MDI/MDI-X auto-sensing LAN ports and 1 WAN port for connecting to the Internet
- Provides wireless data transmission rates up to 108Mbps with Super G
- Provides comprehensive wireless security features with 64/128-bit WEP, WPA, and WPA2 encryption
- Supports NAT firewall with SPI mode, DoS detection and access control supported
- Features DNS relay, DDNS, DHCP, virtual server, DMZ host setting, URL filter and access control



### WBR-3408 54 Mbps Wireless Router w/ QoS

- Experience Wireless connectivity at network speeds of up to 54 Mbps
- Simple Security with WPS Push Button
- Features advanced Wireless Network Security supporting WPA, WPA2 and 64/128-bit WEP Encryption
- Web-Based Configuration and Management
- Control your bandwidth with Quality of Service (QoS)
- Firewall Security with DoS Prevention and URL Filtering



### MobilSpot™ Portable Wireless Hotspot (3G/3.5G)

WBR-3800

- Provide easy configuration tool for quickly setup
- Provide 10/100Mps WAN interface to connect with DSL or cable modem for broadband Internet access
- 3G/ UMTS PC card slot for mobile Internet connectivity
- Built-in NAT function: allow multiple PCs and devices to share one Internet connection
- Browser-based interface for configuration and management: OS independent and easy-to-use
- Built-in firewall to protect your Intranet
- VPN support: pass through of PPTP, L2TP, and IPSec
- Easy to upgrade: using web or Windows application to upgrade new version of firmware



### WBR-6000 N One Wireless Router

- Compliant with the current draft-802.11n 2.0 standard and backward compliant with 802.11b/g standards
- Provides wireless security with 64/128-bit WEP, WPA-PSK, WPA2-PSK encoding
- High-speed wireless transmission up to 300 Mbps
- Supports DDNS (DynDNS, TZO, dhs)and VPN passthrough
- Provides a double firewall with NAT and SPI firewall protection against DoS attacks
- Supports WPS (Wi-Fi protected setup) button, WMM support and QoS

### **Broadband Routers and Gateways Comparison**

Model	FBR-1418TX	WSK-3000	WBR-3405TX	WBR-3408	WBR-3800	WBR-6000
10/100Mbps LAN	4	4	4	4	1	4
10/100Mbps WAN	1	1	1	1	1	1
Wireless Standards	-	11b/g/n Draft 2.0	11b/g, Super G	11b/g	11b/g	11b/g/n Draft 2.0
Management	HTTP/SNMP	HTTP	HTTP/SNMP	HTTP/SNMP	HTTP/SNMP	HTTP



### WBR-6001 N\_Max Wireless Router

- Compliant with 802.11n draft 2.0 wireless standard, 300Mbps
- Backward compliant with 11b and 11g wireless standards
- Extended and High-speed Wireless Network Connectivity with MIMO Technology
- Incorporates WPA, WPA2, WEP encryption and other advanced network security features
- Simple Security with WPS Push Button
- Firewall Security with DoS Prevention and Packet Filtering
- Control your bandwidth with Quality of Service (QoS)
- Integrated 4-port Ethernet Switch
- VPN pass-through for PPTP, L2TP, and IPSec
- Easy to manage with using web or UPnP utility for system management



### WBR-6002 NWireless Router

- 802.11n draft 2.0 compliant wireless router with speeds up to 150 Mbps
- Auto-Channel selection to avoid interference from neighbors
- Simple Wireless Security with one-push WPS button
- Wireless signal on/off button
- Features built-In VPN pass-through, universal plug-andplay and advanced DDNS services
- Advanced dual firewall and full control of data traffic with Quality of Service (QoS)
- Easy step-by-step installation wizard



### WBR-6020 N\_Max Wireless Router

- Delivers *N\_Max* wireless performance at up to 300Mbps using draft N 2.0
- Increased wireless range with MIMO technology
- Save power with scheduled sleep mode, active link detection and WiFi disable button
- Simple security control with one-button WPS protection
- Quick and easy installation wizard
- Built-in firewall and Quality of Service (QoS)
- Features VPN-pass-through, universal plug-and-play (UPnP), DDNS

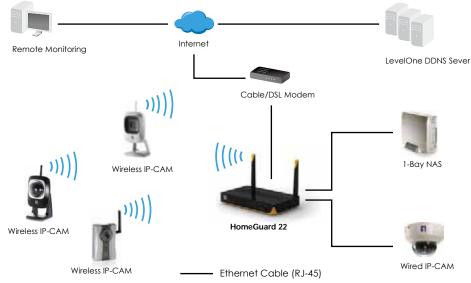


### WBR-6022 HomeGuard22 Residential Gateway

- High-speed 11n wireless data transfer with MIMO technology, up to 300Mbps
- Easily create a home surveillance network in your home or office
- Works well with LevelOne Network Cameras FCS-0010/0020/1030/1091/1081A/1101/3021; WCS-0010/0020/2030/1090 (see page.42-44) and NAS FNS-1022 (See page 52)
- Single web portal to control Network Camera and NAS
- Build-in LevelOne DDNS Service account for Internet remote control

### Surveillance simplicity at its finest

It used to be that if you wanted to set up a surveillance system you needed deep networking knowledge or had to call a professional installer to get the job done. But now the new LevelOne HomeGuard22 (WBR-6022) lets you build and customize a system on your own: quickly and effortlessly.



### **Broadband Routers and Gateways Comparison**

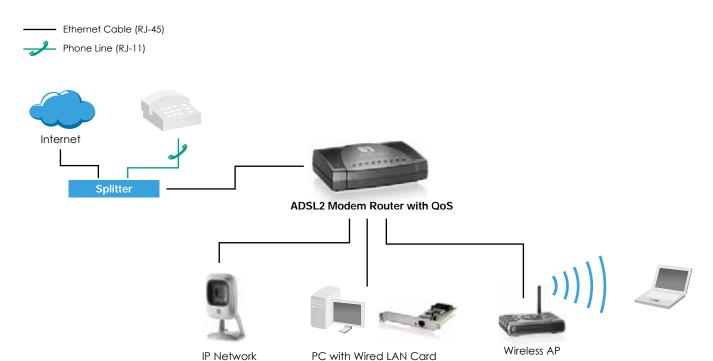
Model	WBR-6001	WBR-6003	WBR-6022	WBR-6020
10/100Mbps LAN	4	4	4	4
10/100Mbps WAN	1	1	1	1
Wireless Standards	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g/n Draft 2.0
Management	HTTP/SNMP	HTTP/SNMP	HTTP/SNMP	HTTP/SNMP

Camera



### LevelOne Broadband ADSL Modem/Routers - for BT connection

Fast and stable connections to your Digital Subscriber Line (DSL). 1-Port and 4-Port models available.



### Wired



### FBR-1161A ADSL2/2+ Modem Router w/ 1 USB Port

- Provides high-speed Internet access with ADSL2/2+ backward compatible to ADSL
- A 10/100 Mbps and a USB port for LAN deployment
- NAT firewall with SPI mode, DoS Detection and access control supported
- Supports Virtual Private Network (VPN) pass-through and Dynamic Domain Name System (DDNS)
- Provides Quick Installation Wizard via USB connection and auto-scan ADSL setting
- Dual flexibility with plug-and-play



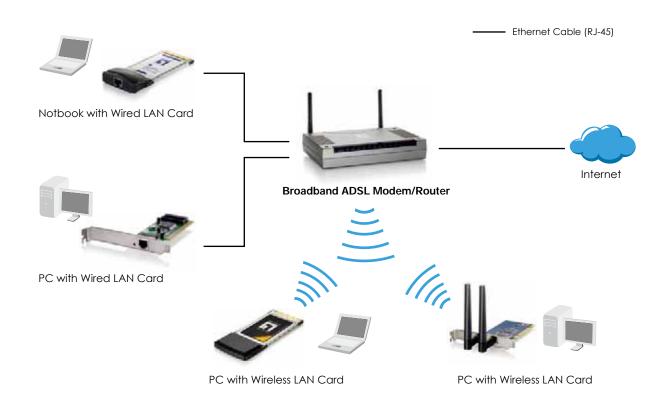
### FBR-1461A ADSL2/2+ Modem Router w/ QoS

- Compact ADSL2/2+ compliant modem and router for high speed Internet access and sharing
- ADSL2+ compatible for 24 Mbps downstream and 1 Mbps upstream speeds
- Provides robust firewall security with Denial-of-Service (DoS) attack prevention and SPI
- Features built-in VPN pass-through, UPnP and DDNS advanced features
- Provides Easy Sign-On (EZSO) configuration via web browser user interface
- Supports Quality-of-Service (QoS) for full control over incoming and outgoing data traffic

### Broadband DSL Modem/ Routers comparison

Model	FBR-1161A	FBR-1461A	
Wireless Standards	-		
ADSL	1	1	
10/100Mbps LAN	1	4	
Management	HTTP/Telnet/SNMP	HTTP/Telnet/SNMP	

LevelOne modem/routers are the ideal solution for sharing a wired and wireless Internet connection within a home or small office network. They are small enough to take up just a little space, yet packed full of features to create a fast, powerful, and expandable local network.

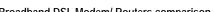


#### Wireless



#### WBR-3600A 54 Mbps Wireless Modem/Router

- Wireless ADSL2/2+ compliant modem and router for shared high-speed Internet access
- Provides 4 10/100 Mbps MDI/MDI-X auto-negotiation ports for LAN deployment
- Compatible with 802.11b and 802.11g wireless standards for wireless network connectivity
- Provides robust firewall security for maximum network protection and WPS (Wi-Fi Protected Setup) support
- Supports wireless security including WEP, WPA-PSK, and WPA2-PSK
- Web management for easy configuration and status monitoring





#### WBR-3470A 54 Mbps Wireless Modem + VOIP Router

- High-speed broadband connection with ADSL2+
- Features 4 10/100 Mbps LAN ports, 2 FXS ports to connect to analog phone and 1 FXO port to connect to a PSTN network
- Provides an all-in-one solution for Internet access, Internet calling and wireless Internet sharing
- Provides QoS control for traffic prioritization and bandwidth management
- Supports VPN pass-through and compliant with SIP standard providing toll-quality Internet calls
- Provides robust firewall security for network protection
- DHCP server allocates up to 253 client IP addresses
- Provides support for PSTN connectivity for dual VoIP and traditional telephony operation



#### WBR-6600A N Max Wireless Modem Router

- High-speed broadband connection with ADSL2+
- Compliant with 802.11n Draft2.0 wireless standard at network speeds of up to 300 Mbps
- Extended and high-speed wireless network connectivity with MIMO technology
- Incorporates WPA, WPA2, WEP encryption and other advanced network security features
- Simple security with WPS push button
- Integrated 4-Port Ethernet Switch, one port can be configured as a WAN interface
- Control your bandwidth with Quality of Service (QoS)

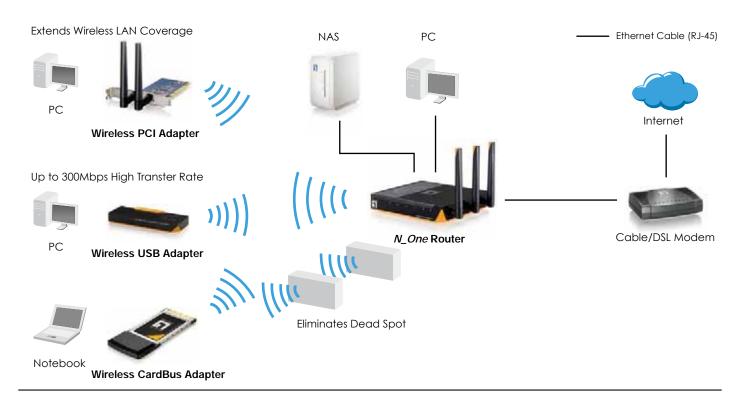
#### Broadband DSL Modem/ Routers comparison

Model	WBR-3600A	WBR-3470A	WBR-6600A
Wireless Standards	11b/g	11b/g	11b/g/n Draft 2.0
ADSL	1	1	1
10/100Mbps LAN	4	4	4 (1 shared WAN)
Management	HTTP	HTTP	HTTP



## LevelOne Network Adapters

LevelOne network adapters come in many different interfaces to suit your needs. And with high-speed data transfer rates that follow all IEEE standards and protocols, you can rely on solid performance especially when bandwidth-hungry applications are being used.









## FNC-0107TX / FNC-0109TX Fast Ethernet PCI card

- 32-bit high performance PCI adapter
- Full duplex 20/200 Mbps with auto-negotiation
- Supports FIFO buffer for high data transfer with low processor load
- Optional smart remote boot ROM (FNC-0107)
- AMD magic packet and wake-on LAN support (FNC-0107)

#### FNC-0103FX / FNC-0104FX 100 FX Multi-mode ST/SC Fibre Optic PCI Card

- Provides 2 ST or SC multi-mode connector
- Supports IEEE 802.3i, IEEE 802.3u Fast Ethernet 10/100 BASE-TX with fibre connector
- Fast Ethernet PCI card with full/ half duplex modes
- Provides 50/125 and 62.5/125 fibre optic
- Full-duplex switching: 2km

#### GNC-0105T Gigabit Ethernet 32/64-bit PCI Card

- Compliant with IEEE 802.3i, 802.3u, 802.3ab, 802.3x flow control and IEEE 802.1Q priority queuing
- Provides 32-bit high-performance interface
- Provides auto MDI/MDI-X on the RJ-45 LAN port
- Link and activity diagnostic LEDs
- Provides plug-and-play for easy installation and supports wake-on LAN
- Supports 1000 Mbps half-duplex and 2000 Mbps full-duplex dataflow

#### Wired Network Adapters Comparison

Model	FNC-0107TX	FNC-0109TX	FNC-0103FX	FNC-0104FX	GNC-0105T
Interface	PCI	PCI	PCI	PCI	PCI
Standard	802.3i/3u/3x	802.3i/3u/3x	802.3i/3u	802.3i/3u	802.3i/3u/3ab
					802.3x/802.1Q
Expansion Slots	10/100TX	10/100TX	10/100FX	10/100FX	10/100/1000TX
Port	RJ-45	RJ-45	ST	SC	RJ-45
Wake On LAN		-	-	-	-

#### Wired



#### FNC-0600TXM 5-Port Fast Ethernet SNMP PCI Switch Card

- Provides 32-bit PCI v2.2 Bus SNMP Fast Ethernet adapter with 5-port 10/100 Mbps MDI/MDIX Switch
- Store-and-forward switching method
- Supports IEEE 802.3x for full-duplex mode and backpressure for half-duplex mode
- Self-defines 256 bytes memory I/O or register I/O based command and status register
- With SNMP/RMON/DMI network management function
- Space-saving design and RoHS compliant
- Supports MAC enhancement function for management server NIC



#### FNC-0115 100FX Multi-mode SC Fibre Optic PCI Express Card

- Supports 200 Mbps full-duplex mode
- Provides full-duplex switching: 2 km
- High-speed PCI express interface card
- Supports IEEE 802.3x full-duplex flow control and IEEE 802.1Q VLAN tagging
- Supports on-board IP header verification and TCP/UDP checksum offload
- Supports wake-on LAN and PXE remote boot



#### GNC-0107/0111 1000BASE-SX Fibre Optic PCI/PCI Express Card (SC)

- High-speed fibre optic PCI-Express card (GNC-0111)
- Supports IEEE 802.3x flow control for 2 Gbps network data transfer speeds over 550m fibre connection
- Supports multiple operation system
- Supports 9k jumbo frame rate, Pre-Boot Execution Environment (PXE), Multi-Boot Agent (MBA), Remote Program Load (RPL) and Bootstrap Protocol (BOOTP)
- Features high-level VLAN filtering function
- Supports on-board IP header verification and TCP/UDP checksum offload for received data



#### FPC-0106TX Fast Ethernet 32-bit CardBus Adapter

- Provides 10/100 Mbps 32-bit bus mastering
- Ultra-low power consumption
- PC card with hot-swap capability
- Supports full and half duplex modes
- Auto-negotiation network connection
- Provides LED display for network



#### USB-0201 Gigabit Ethernet USB Adapter

- Enables Gigabit connectivity through USB 2.0 connection port
- Supports full and half duplex operation modes
- Auto-negotiation 10/100/1000 Mbps connection rates
- Support hot-swappable and hot-insert
- Supports 9k jumbo frame
- Power supply via USB connection



#### USB-0202 USB Net Connector

- Provides an Internet connection through a single USB port with high-speed USB1.1/2.0 standard compliant
- Easily connect to the Internet through a USB port on the laptop or gaming console, works well with MacBook Air or any device without a built-in Ethernet port
- Offers Fast Ethernet speeds of 10/100 Mbps
- Simply connect the "plug-and-plug" with Nintendo Wii and MacBook Air
- Support hot-swap and hot-insert

#### Wired Network Adapters Comparison

Model	FNC-0600TXM	FNC-0115	GNC-0107	GNC-0111	FPC-0106TX	USB-0201	USB-0202
Interface	PCI	PCI-e	PCI	PCI-e	PCMCIA	USB	USB
Standard	802.3i/3u/3x	802.3u/3x	802.3z/3ab/3x	802.3z/3x	802.3i/3u	802.3i/3u/3ab	802.3/u/x
		802.1Q	802.1Q/1P	802.1Q			
Expansion Slots	10/100TX	100FX	10/100/1000SX	1000SX	10/100TX	10/100/1000T	10/100TX
Port	5 x RJ-45	SC Multi Mode	SC Multi Mode	SC Multi Mode	RJ-45	RJ-45	RJ-45
Wake On LAN	-		- -	-	-	-	-



#### Wireless



#### WNC-0301 / WPC-0301 54 Mbps Wireless PCI/CardBus Adapter

- Highly efficient design mechanism to provide unbeatable performance
- Security protection with 64/128-bit WEP/WPA/WPA2
- Operates in 2.412 ~ 2.484 GHz frequency
- Ad-Hoc, Infrastructure WLAN network wireless roaming
- Built-in diversity patch antenna 2 dBi gain (WPC-0301)
- Data rate auto fall-back under noisy environment or longer range distance



#### WNC-0600 / WPC-0600 N\_One Wireless PCI/CardBus Adapter

- Compliant with the current draft-802.11n 2.0 standard and backward compliant with 802.11b/g standards
- High-speed wireless transmission of up to 300 Mbps
- Provides wireless security with 64/128-bit WEP, WPA-PSK, WPA2-PSK encoding
- Support Wi-Fi protected setup (WPS)
- Easy to install and configure with the included software and Windows utility.
- Extended network area connectivity over greater distances





## WNC-0601 / WPC-0601 N\_Max Wireless PCI/CardBus Adapter

- Comply with IEEE802.11n draft 2.0 standards
- Operation at 2.4 ~ 2.5GHz frequency band to meet worldwide regulations
- Maximum reliability, throughput and connectivity with automatic data rate switching and fixed data rate
- Support infrastructure networks via Access Point and ad-hoc network via peer-to-peer communication
- Support 1T2R Antenna technology
- Support WPA and WPA2 enhanced security
- Support 802.1x attestation and provides WPS



#### WNC-0301USB 54 Mbps Wireless USB Adapter

- Easy plug-and-play setup with installation wizard
- Complies with IEEE 802.11b/g standards for 54 Mbps wireless connectivity
- Advanced wireless security protection with 64/128-bit WEP, WPA and WPA2
- Supports USB 2.0/1.1/1.0 interface
- Portable and mini-size design



#### WNC-0305USB 54 Mbps Wireless USB Adapter

- Easy plug-and-play setup with installation wizard
- Complies with IEEE 802.11b/g standards for 54 Mbps wireless connectivity
- Advanced wireless security protection with 64/128-bit WEP, WPA and WPA2
- Supports USB 2.0/1.1/1.0 interface
- Portable and mini-size design



#### WNC-0304USB 54 Mbps Wireless USB Adapter + WiFi Finder

- Achieving data rate up to 54 Mbps for 802.11g and 11 Mbps for 802.11b with wide range coverage
- Supports infrastructure mode and Ad-hoc mode
- Plug-and-play installation and supports PSP Xlink
- Security protection with 64/128- bit WEP/WPA/WPA2
- LCD panel indicates wireless signal information
- Supports USB 2.0/1.1/1.0 interface

#### Wireless Network Adapters Comparison

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Model	WNC-0301 / WPC-0301	WNC-0600 / WPC-0600	WNC-0601 / WPC-0601	WNC-0301USB	WNC-0305USB	WNC-0304USB
Interface	32-bit PCI / CardBus	32-bit PCI / CardBus	32-bit PCI / CardBus	USB 1.0/1.1/2.0	USB 1.0/1.1/2.0	USB 1.0/1.1/2.0
Standard Compliant	11b/g	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g	11b/g	11b/g
Wireless Speed	54 Mbps	300 Mbps	300 Mbps	54 Mbps	54 Mbps	54 Mbps
Antenna Type	2 dBi / Internal	3 dBi / Internal	Internal	Internal	Internal	Internal
Frequency Range	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz

#### Wireless



#### WUA-0315 11g Wireless USB Adapter

- Compatible with IEEE 802.11b and IEEE 802.11g standards
- Enjoy high-speed wireless connectivity through your USB port
- Easy plug-and-play setup with installation wizard
- Supports 64/128-bit WEP ,WPA and WPA2 encryption with 802.1x support for high level security
- Portable and mini-size design
- Windows configuration for Wi-Fi Protected Setup (WPS)
- Supports Window 2000/XP/Vista



## WUA-0614 N Wireless Adapter

- High Speed Wireless Connection, Speeds Up to 150 Mbps
- Quick and Easy Installation
- Portable and Mini-Sized Design
- Supports 64/128-bit WEP, WPA and WPA2 encryption for high level security
- Support Wi-Fi Protected Setup (WPS) Configuration



## WNC-0600USB N\_One Wireless USB Adapter

- Compliant with the current draft-802.11n 2.0 standard and 802.11b/g standards
- Experience superior wireless connectivity at network speeds of up to 300 Mbps
- Supports Wi-Fi protected setup (WPS)
- Provides wireless security with 64/128-bit WEP, WPA-PSK, WPA2-PSK encoding
- Easy to install and configure with the included software and Windows utility



## WUA-0600 *N\_Max* Wireless USB Adapter

- Extended and high-speed wireless connectivity with wireless Draft-N 2.0 technology
- Hardware push button for Wi-Fi protected setup
- Backward compliant with IEEE802.11b/g
- Operates on the 2.4 GHz frequency band
- Software AP function converts client device into AP
- Supports 64/128-bit WEP, WPA-PSK, WPA WPA2-PSK and WPA2 encryption
- Supports Windows 2000, XP and Vista
- USB 2.0/1.1/1.0 interface



#### WUA-0603 NWireless USB Adapter

- High speed wireless connection, speeds up to 150 Mbps
- Quick and easy Installation
- Portable and mini-sized design
- Supports 64/128-bit WEP ,WPA and WPA2 encryption with 802.1x support for high level security
- Support Wi-Fi protected setup (WPS) configuration

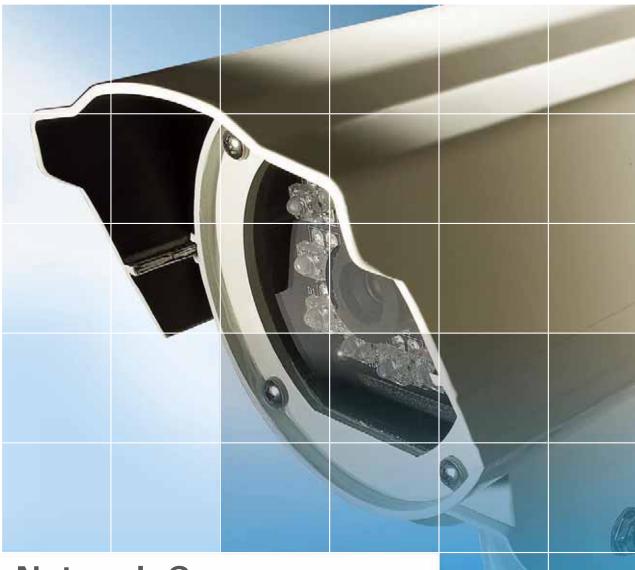


## WUA-0615 N\_Max Wireless USB Adapter w/ WPS

- Extended high-speed wireless connectivity at up to 300 Mbps with N\_Max (Draft N 2.0) wireless technology
- Hardware push button for Wi-Fi protected setup
- Backward compliant with IEEE 802.11b/g standards
- Operates on the 2.4 GHz frequency band
- Supports 64/128-bit WEP, WPA and WPA2 encryption
- Supports Window 2000/XP/Vista

#### Wireless Network Adapters Comparison

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Model	WUA-0315	WUA-0614	WNC-0600USB	WUA-0600	WUA-0603	WUA-0615
Interface	USB 1.0/1.1/2.0	USB 1.0/2.0	USB 1.0/1.1/2.0	USB 1.0/1.1/2.0	USB 1.1/2.0	USB 1.1/2.0
Standard Compliant	11b/g	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g/n Draft 2.0	11b/g/n Draft 2.0
Wireless Speed	54 Mbps	150 Mbps	300 Mbps	300 Mbps	150 Mbps	300 Mbps
Antenna Type	Internal	External	Internal	Internal	Internal	Internal
Frequency Range	2.4 ~ 2.4835GHz	2.4GHz ~ 2.4835GHz	2.4~2.4835 GHz	2.4~2.4835 GHz	2.4 ~ 2.4835GHz	2.4~2.4835 GHz



## **Network Cameras**

Digital Surveillance Solutions for **Indoor and Outdoor Applications** 

- Wired
- Wireless

## Video Servers/ Captured Cards Convert your CCTV signals to digital

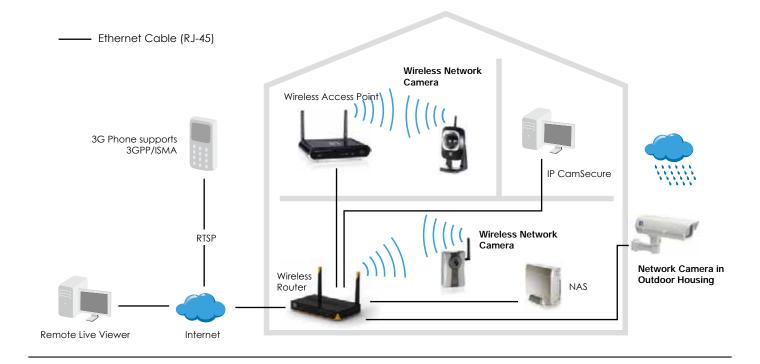
## **IP Surveillance Software**

View and Manage up to 64 Cameras from a Single Station

- Accessories

## LevelOne Network Cameras

LevelOne has a wide range of options to choose from when it comes to network cameras: wireless, wired, PoE, day/night, speed dome, pan/tilt/zoom, as well as indoor and outdoor options. In addition, our cameras come with free 32-channel surveillance software that enables the user to view, manage, and capture streaming images from any location with an Internet connection.





#### FCS-0010 / WCS-0010 Wired/Wireless Network Camera

- 1/6" Color CMOS sensor
- Features a bi-directional microphone for easy setup as an intercom with display
- Up to 30 frames per second in full VGA resolution
- Supports UPnP for easy set-up and installation
- Supports DDNS for dynamic IP
- Bundled with LevelOne IP CamSecure Lite surveillance management software
- Remote viewing over the Internet or via 3G mobile
- Easily mounts on the wall





#### FCS-0020 / WCS-0020 Wired/Wireless Pan/Tilt/Zoom Network Camera

- 1/4" CMOS sensor for crystal clear picture quality
- Provides VGA resolution at 30/25 frames per second
- 2-way audio: Built-in microphone and audio in/out jacks
- Dual streaming MPEG4 and Motion-JPEG support
- UPnP, DDNS, motion detection, and alarm snapshot
- 3GPP supported for view FCS -0020 over your 3G mobile phone or PDA (3GPP-compliant devices only)
- Easily mounts on the wall





FCS-1030 / WCS-2030 Wired/Wireless Network Camera

- Built-in 1/4" Color CMOS sensor
- Provides built-in Omni-directional microphone
- Able to view and record live video up to 16 cameras simultaneously
- Supports 4x digital zoom
- Supports UPnP for easy set-up and installation
- Friendly GUI for easy configuration
- Plug-and-play for easy installation

Network Cameras Companson			
Model	FCS-0010 / WCS-0010	FCS-0020 / WCS-0020	FCS-1030 / WCS-2030
Indoor / Outdoor	Indoor	Indoor	Indoor
Day / Night	Day	Day	Day
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MPEG4
2 Way Audio			-
Frame Rate	160x120: 30/25 fps	160x120: 30/25 fps	160x120: 30/25 fps
	320x240: 30/25 fps	320x240: 30/25 fp	320x240: 30/25 fps
	640x480: 30/25 fps	640x480: 30/25 fps	640x480: 30/25 fps



#### **Network Cameras**



FCS-1060 / WCS-2060 Wired/Wireless Pan/Tilt/Zoom Network Camera

- Built-in 1/4" CMOS sensor and built-in Omni-directional
- Provides 4x digital zoom
- Supports 3GPP/ISMA real time streaming protocol
- Free-bundled powerful 32-channel recording software
- Built-in web server for remote accessing image from general web browser anywhere
- Supports UPnP & DDNS
- Optional outdoor housing: DOH-1000 / 1100



FCS-1010 / WCS-2010
Wired/Wireless Pan/Tilt/Zoom Network Camera

- Provides 1/4" Color CCD sensor
- Supports 4x digital zoom function
- High-quality CCD sensor integrated
- Supports UPnP for easy setup and installation
- Friendly GUI for easy configuration
- Built-in Omni-directional microphone
- Supports motion detection and e-mail notification
- Supports DDNS for dynamic IP
- Bundles 32-channel monitoring software
- Optional outdoor housing: DOH-1000 / 1100





FCS-1040 / WCS-2040 Wired/Wireless Pan/Tilt/Zoom Network Camera w/ Audio

- Provides 1/4" Color CCD sensor
- Motorized pan/tilt/zoom (10x optical zoom)
- Supports auto pan and auto patrol modes
- Provides pre/post alarm snapshots
- Extended I/O for sensor & alarm
- Free-bundled 32-channel recording software
- Supports UPnP & DDNS
- Provides Omni-directional microphone
- Two-way audio support
- Optional outdoor housing: DOH-1000 / 1100



#### FCS-1101 PoE Network Camera w/ Audio

- Provides 1/3" Color CCD sensor
- Supports AGC, AES and AWB
- Simultaneous Motion JPEG & MPEG-4 Dual Streaming
- Excellent image quality with up to 30 fps in full D1 resolution
- Supports two-way audio
- Supports 3GPP/ISMA RTSP
- Intelligent motion detection
- UPnP for fast and easy installation
- Optional outdoor housing: BOH-1000 / 1100 / 1300



#### FCS-1081A PoE Network Camera w/ Audio

- Provides 1/3" Color CCD sensor
- Provides for flexible deployment with PoE capability
- Provides full D1 resolution at 30/25 fps
- Supports 4mm CS-mount lens changeable with different lens specifications
- Provides backlight compensation, auto-iris control, autowhite balance supported
- Optional lenses with CAS-1000A (3.5~8mm) and CAS-1000B (6~60mm)
- Optional outdoor housing: BOH-1000 / 1100 / 1300
- Supports two-way audio



#### FCS-1091 / WCS-1090 Wired/Wireless Day/Night Network Camera w/ Audio

- Features a high-definition Sony progressive 1/4" CCD sensor for high-resolution image capturing
- Day/night viewing with automatic infrared filter switching
- Provides 4 motion detection areas with individual sensitivity set-up
- Features a bi-directional microphone for easy setup as an intercom with display
- Dual live video streaming to multiple users
- Remote viewing over the Internet or via 3G mobile
- PoE compliant for easy network deployment (FCS-1091)
- Optional outdoor housing:
- BOH-1000 / 1100 / 1200 / 1300 (FCS-1091)

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Model	FCS-1060 / WCS-2060	FCS-1010 / WCS-2010	FCS-1040 / WCS-2040	FCS-1101	FCS-1081A	FCS-1091 / WCS-1090
Indoor / Outdoor	Indoor/Outdoor w/ DOH-1000	Indoor/Outdoor w/ DOH-1000	Indoor/Outdoor w/ DOH-1000	Indoor/Outdoor w/ BOH-1000	Indoor/Outdoor w/ BOH-1000	Indoor/Outdoor w/ BOH-1000
Day / Night	Day	Day	Day	Day	Day	Day/Night
MJPEG / MJPEG4	MPEG4	MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio	-	-				
Frame Rate	160x120: 30/25 fps	176x120: 30/25 fps	176x120: 30/25 fps	160x120: 30/25 fps	160x120: 30/25 fps	160x120: 30/25 fps
	176x144: 30/25 fps	352x240: 30/25 fps	352x240: 30/25 fps	320x240: 30/25 fps	320x240: 30/25 fps	320x240: 30/25 fps
	320x240: 30/25 fps	704x480: 30/25 fps	704x480: 15/12 fps	704x480: 30/25 fps	704x480: 30/25 fps	640x480: 30/25 fps
	640x480: 30/25 fps					



FCS-1070 / WCS-2070 Wired/Wireless Day/Night Network Camera w/ Built-In IR LEDs

- High-resolution 1/3" Color CCD sensor
- Cost effective digital surveillance solution
- 802.11b/g wireless connection with WEP & WPA-PSK
- Features two-way audio
- Optimal synchronization of audio and video
- Extended I/O for sensors and alarms
- MJPEG/MPEG4 video compression
- Remote configuration and control of up to 32 cameras
- Fast/slow forward play and pause
- Optional outdoor housing: BOH-1000 / 1100 / 1200 / 1300 (FCS-1070)



FCS-3021 PoE Dome Network Camera w/ Audio

- Provides 1/4" progressive CMOS color sensor
- Features a 3-axis sensor module for ceiling mount application
- Supports simultaneous dual-streaming
- Extended Input/Output for sensor & alarm
- Features 2-way Audio
- 3~6mm vari-focal lens F1.2~1.5
- Versatile panning, tilting and rotating adjustment
- Supports 3GPP for mobile phone surveillance



FCS-3000
Day/Night Dome Network Camera w/ Audio

- High-resolution 1/3" CCD sensor
- Provides 10m night sight with built-in IR LED
- Provides vandal-proof and waterproof (IP66)
- Supports 2-way (full-duplex) audio and motion detection
- Extended I/O for event trigger sensor
- Free-bundled powerful 32-channel recording software
- Built-in web server for remote accessing image from general web browser anywhere
- Supports UPnP & DDNS



#### FCS-5030 Network Camera w/ Infrared LEDs

- Features a 1/3" Color Sony CCD sensor for capturing high quality images
- 8mm lens for most common monitor angle and distance
- Provides 12 pieces infrared LEDs for 30m effective distance monitor
- IP66 rated water-proof housing
- Provides full D1 resolution at 30/25 frames per second
- Supports multi-level user access IP address filtering
- UPnP, DDNS, motion detection, and alarm snapshot
- 2-way audio supports in/out jacks



#### FCS-5011 Outdoor WDR PoE Network Camera w/ IR LEDs

- 1/3.3" wide dynamic range CMOS sensor provides excellent images, even in highly contrasting light situations
- 3.3~12mm vari-focal board lens with auto-iris for a variety of monitoring fields
- Built-in infrared LEDs for night viewing up to 15M
- Durable outdoor housing that is vandal-proof and IP66-rated water-proof
- IEEE 802.3af Power over Ethernet (PoE) compliant
- Extended I/O for sensor and alarm functions
- WDR (Wide Dynamic Range) helps handling a wide range of lighting conditions in a scene, such as backlight situation



## FCS-4010 Day/Night Speed Dome Pro Network Camera

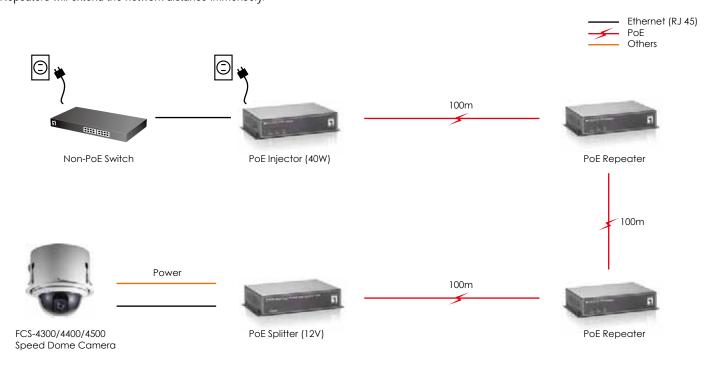
- Powerful pan/tilt/zoom speed dome network camera
- 1/4" progressive CCD sensor for capturing fast-moving objects without jagged edges
- Supports 18x optical and 10x digital zoom
- Supports 360° pan and 90° tilt, continuous rotation
- With up to 128 preset positions for patrolling at up to 400° per second
- Auto-removable IR-cut filter for day/night viewing
- Extended I/O for sensor and alarm (4 DI/1 DO)
- Vandal-proof and waterproof IP66 rated for indoor and outdoor deployment
- Two-way audio

Model	FCS-1070 / WCS-2070	FCS-3021	FCS-3000	FCS-5030	FCS-5011	FCS-4010
Indoor / Outdoor	Indoor	Indoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Day / Night	Day/Night	Day	Day/Night	Day/Night	Day/Night	Day/Night
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio						
Frame Rate	176x120: 30/25 fps	176x144: 30/25 fps	176x120: 30/25 fps	176x120: 30/25 fps	176x144: 30/25 fps	176x144: 30/25 fps
	352x240: 30/25 fps	320x240: 30/25 fps	352x240: 30/25 fps	352x240: 30/25 fps	352x240: 30/25 fps	320x240: 30/25 fps
	704x480: 15/12 fns	640x480: 30/25 fps	704x480: 15/12 fns	704x480: 30/25 fps	720x480: 30/25 fps	640x480: 30/25 fps



## LevelOne Network Cameras

Application diagrams show the technical side of the installation. By incorporating a high-power PoE injector (POI-4000) these new indoor PoE Repeaters will extend the network distance immensely.



(Refer to page 17 for PoE Product)



#### FCS-4000 / FCS-4100 / FCS-4200 Day/Night P/T/Z Speed Dome Network Camera (18/26/36xOptical zoom)

- 1/4" Exview HAD CCD sensor for superior image capture quality in low light conditions
- Maximum resolution up to 704x480 at 30 fps (NTCS)
- Programmable with varied cruised positions
- Supports 360° pan and 90° tilt, continuous rotation
- Auto-removable IR-cut filter for day/night viewing
- Extended I/O for sensor & alarm (4 DI/1 DO)
- Waterproof IP66 rated for indoor/outdoor deployment
- Two-way audio and motion detection support



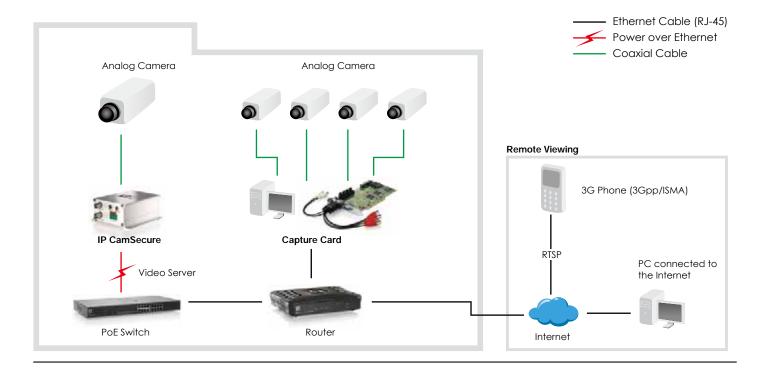
#### FCS-4300 / FCS-4400 / FCS-4500 Day/Night P/T/Z Speed Dome Network Camera (18/26/36xOptical zoom)

- Provides day/night P/T/Z speed dome Network camera with indoor ceiling mount
- 1/4" Exview HAD CCD sensor for superior image capture quality in low light conditions
- Maximum resolution up to 704x480 at 30 fps (NTCS)
- Supports 18x/26x/36x optical and 12x digital zoom
- Supports 360° pan and 90° tilt, continuous rotation
- Auto-removable IR-cut filter for day/ night viewing
- Extended I/O for sensor & alarm (4 DI/1 DO)
- Two-way audio and motion detection support

Notificial Comp	Julison					
Model	FCS-4000	FCS-4100	FCS-4200	FCS-4300	FCS-4400	FCS-4500
Indoor / Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor	Indoor	Indoor
Day / Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio						
Frame Rate	160x120: 30/25 fps	160x120: 30/25 fps	160x120: 30/25 fps	176x120: 30/25 fps	176x120: 30/25 fps	176x120: 30/25 fps
	320x240: 30/25 fps	320x240: 30/25 fps	320x240: 30/25 fps	352x240: 30/25 fps	352x240: 30/25 fps	352x240: 30/25 fps
	704x480: 30/25 fp	704x480: 30/25 fps	704x480: 30/25 fp	704x480: 30/25 fps	704x480: 30/25 fps	704x480: 30/25 fps

## LevelOne Video Servers/Captured Card

These useful accessories allow traditional analog/CCTV cameras to be converted to IP-based surveillance. These are great tools that allow you to keep your existing surveillance infrastructure in place, while making it easy to expand your network. IP-based surveillance also adds remote viewing capability over the Internet.





#### FCS-7011 1-Port PoE Video Server

- Power adapter is available for its power redundancy
- MJPEG/MPEG4 video compression modes
- Supports IEEE802.3af standard for PoE functionality
- Features 2-way audio
- BNC connector for video out
- Built-in advanced motion detection capability
- Digital Input/Output ports to connect to sensor and alarm systems



#### FCS-8005 Analog Camera Capture Card

- Integrate your CCTV cameras into a digital surveillance network
- View your CCTV cameras from anywhere
- Support up to 4 analogue CCTV cameras in a digital IP based surveillance environment
- Provides 2 channel audio input
- Advanced motion detection and alarm functions
- View up to 60 frames per second
- Superior video resolution up to 704x480/704x576
- -Support for both NTSC and PAL video format
- MPEG4 compression for Internet video streaming



## LevelOne Surveillance Software

The LevelOne IP CamSecure series software was developed by LevelOne to provide advanced features for digital surveillance systems. The CamSecure series is able to provide full camera control and support for all LevelOne cameras as well as cameras from other manufacturers.



IP CamSecure Specifications and the Comparison between IP CamSecure Pro and IP CamSecure Lite

	IP CamSecure Professional	IP CamSecure Lite	
Main Features			
Max # of Cameras Live View,	FCS-94 04/08/16/25/36/64	FCS-9032	
Monitor and Record	4/8/16/25/36/64	32	
Compatibility	*Compatible with LevelOne Network Cameras.More network cameras of other major manufacturers supported by FCS-92xx are	nd FCS-94xx.	
Multi-Language Embedded	English, German, French, Spanish, Italian, Portuguese, Danish, Greek, Korean, Traditional / Simple Chinese, Japanese, Russian and Tha	i.	
Hybrid Camera Management	Monitor IP digital and CCTV analog cameras in one surveillance system		
Dual Monitor	User is able to monitor multiple channels with reasonable image size or live view and playback simultaneously	NO	
Smart Guard	Events triggered by general motion detection, missing/foreign object detection, signal lost, camera occlusion, lose focus, external input or system status	NO	
Motion Detection	Camera-based motion detection with image exclude filter for image areas of no interest in specific period status		
Smart Search	Search unusual events with specific parameters from recorded video	General Motion Only	
Alarm Notification	Play sound, send emails, make phone calls, Pan/Tilt/Zoom PRESET GO, signal digital output, on screen display and instant recording.	Instant recording	
Counting Application	Count how many times objects moving between different locations	NO	
Video Compression	MJPEG / MPEG-4		
Audio	Support full duplex real time audio		
User Account	Multiple user authentication levels with password restriction rules for unlimited users		
Log Viewer	All unusual events ,system events by date/time and/or cameras		
Recording	Continuous recording, manual recording/snapshot, record by schedule, record by digital input or triggered event, and record mobifer is up to 60 seconds).	oving only (pre/post record	
3GPP	**Monitor in 3G mobile devices which are equipped with 3G video playback.	NO	
DDNS	Support DtDNS and Dynu.	NO	
UPnP	Search for IP cameras via UPnP		
Upgrade	No extra charge required for the further upgrade		
Playback			
Simultaneously Playback	16 Channels	1 Channel	
Image Enhancer	Improve recorded video to get better image during playback and can be applied during export		
Search for Recordings	Search for recordings based on date, time or specific video parameters.	Search for motion in continu recordings	
Playback	Controllable speed 1/16x~16x or frame by frame		
Video Clip Export	Export single BMP/JPEG images to file or printer Export video in AVI		
P/T/Z and I/O			
Pan/Tilt/Zoom Support	Control of P/T/Z cameras and preset positions		
Preset Patrolling	Multiple cameras patrolling		
Go to Preset on Event	Yes	NO	
Input/Output Control	Support digital input/output control	•	
Remote Access Via Ren	note Client Application		
Remote Client Application	Remote Live Viewer/ Remote Playback	Remote Live Viewer	
Pan/Tilt/Zoom Support	Control of P/T/Z cameras	nemote are newer	
Max # of Cameras Live View	Up to 16 Channels from different servers	1 Channel	
Max # of Cameras Playback	Up to 16 Channels	No	
Remote Access Via Web		No	
Max # of Cameras Live View	Up to 4 Channels	1 Channel	
Minimum System Requi	irements		
CPU	Intel Pentium D 930(1~16-Channel Monitoring), Intel Core 2 Duo(17~32-Channel Monitoring), Intel Core 2 Quad(33~64-Channel Monitoring)	Intel Core 2 Duo	
RAM	1 GB above		
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 845G/865G, or above (ATI recommended)		
	, , , , , , , , , , , , , , , , , , , ,		

<sup>\*\*</sup>This feature depends on the mobile telecom service provided and the mobile phone model. LevelOne does not guarantee that this feature will work in all countries

The specification is subject to change. Please visit www.level1.com for the latest specification.

## FCS-94xx IP ComSecure Pro Mega Series

- Monitor up to 64 channels simultaneously
- Dual monitor supported for live view and playback simultaneously
- "Smart guard" event analysis and instant response to monitor larger areas more efficiently
- "Smart search" for easy locating of recorded events as well as multi-events viewer and filter
- Enhance images of recorded video
- "Counting application" for objects amount control
- Supports Web-based and 3G mobile remote monitoring

- Complete system and event log database
- Relies on hard disk drive storage instead of video tapes
- Broadcast live video over the Internet for remote viewing
- Support both digital and analogue cameras in one system
- Control pan/tilt/zoom features on cameras
- \* For levelOne Cameras, Capture Cards and Video Servers. It also supports many other Network Cameras.



	IP CamSecure Pro Mega Series
Model name	FCS-94 04/08/16/25/36/64
Simultaneous Monitoring	4/8/16/25/36/64
Camera Support	
LevelOne	FCS-0010, FCS-0020, FCS-1010, FCS-1030, FCS-1040, FCS-1050, FCS-1060, FCS-1070, FCS-1081, FCS-1081, FCS-1091, FCS-1091, FCS-3000, FCS-3001, FCS-3011, FCS-3021, FCS-4x00, FCS-7011, WCS-0010, WCS-0020. WCS-1090, WCS-2010, WCS-2030, WCS-2040, WCS-2060, WCS-2070, FCS-4010, FCS-5011, FCS-5030, FCS-8005, FCS-8006, WCS-2060, WCS-2070, FCS-4010, FCS-5011, FCS-5030, FCS-8005, FCS-8006, WCS-2060, WCS-2070, FCS-4010, FCS-5011, FCS-5030, FCS-8005, FCS-8006, WCS-2070, FCS-8011, FCS-80
ACTI	SED 2100, SED 2120, SED 2140, SED 2400, SED 2420, SED 2600, SED 2610, SEM 1110, ACM SERIES, CAM 5300, CAM 5130, CAM 5140, CAM 5150, CAM 550 CAM 6100, CAM 6200, CAM 6500, CAM 6520, CAM 6600, CAM 7100, CAM 7120, CAM 7200, CAM 7220, CAM 7300, CAM 7320, CAM 6620, SEE 2310, SED 2320, CAM 5200, CAM 5XXX, CAM 6220, CAM 6XXX, CAM 7XXX, SEM 1XXX
Arecont Vision	AV1300, AV2000, AV2100, AV3100, AV3130, AV5100, AV8180, AV8360
Atlantis Land	A02-OIPCAM1, A02-OIPCAM2, A02-OIPCAM3, A02-IPCAM5, A02-IPCAM6, A02-IPCAM7, A02-IPCAM8, A02-IPCAM9, A02-IPCAM10, A02-IPCAM11, A02-IPCAM12, A02-IPCAM13, A02-IPCAM14, A02-IPCAM15, A02-IPCAM16, A02-IPCAM17
AXIS	205, 206, 206M, 206W, 207, 207W, 207MW, 210, 210A, 211, 211A, 212, 213, 214, 216FD, 221, 225FD, 231D, 232D, 240Q, 241Q, 241QA, 241S, 241SA, 242S, 2460, 233D
D-Link	DCS-6620, DCS-6620G, DCS-5220, DCS-5300, DCS-5300G, DCS-2120, DCS-3420, DCS-3220, DCS-3220G, DCS-2100, DCS-2100G, DVS-104, DVS-301, DCS-900, DCS-950, DCS-950, DCS-950G
ETROUISION	EVxx10
TRON	HNCB-E1SN, HNG-E1SAW0S4, HWD125MN, HECMC4V0C4
FINE	TCP-690,TCP-690DN,TCP-HP930,WB-8211SD,WB-8411,CDV-3V930,TCP-690U,TCP-HP930U,WB-8211SDU,CDV-3V930U,EP-936,EP-908,EP-601,EP-201,EP-221,EP-221DN
IQinvision	IQeye301, IQeye301m, IQeye301w, IQeye302, IQeye302w, IQeye303, IQeye303w, IQeye501, IQeye511, IQeye601, IQeye602, IQeye603, IQeye701, IQeye702, IQeye703, IQeye705, IQeye752, IQeye753, IQeye755
JVC	VN-C20U, VN-E4(U), VN-C205U, VN-C215U, VN-C655U
Lumenera	le045c, le045c-dn, le075c, le075c-dn, le165c, le165c-dn, le175c, le175c-dn, le259c, le275c, le275c-dn, le375c, le375c-dn, le11059c
MOBOTIX	M10D-Night, M12D-Sec, M12D-IT-DNight, M12D-Sec-Dnight, M12M-Web, M22M-IT, M22M-Sec, M22M-Sec-Night, D12Di-IT, D12Di-Sec
Panasonic	BB-HCM311,BB-HCM331,BB-HCM371,BB-HCM381,BB-HCE481,BB-HCS301,BB-HCM511,BB-HCM515,BB-HCM581,BL-C10,BL-C1,BL-C20,BL-C30,BL-C111,BL-C131,KX-HCM110,KX-HCM280A,WV-NP472,WV-NS324,WV-NF284,WV-NP1000,WV-NP1004,WV-NM100,WV-NP240,WV-NP244,WV-NS202,WV-NW484,WV-NW964
PIXORO	100, 120/126/128, 200/206, 201, 205, 207, 240, 241, 261, 262, 263, 300, 400/42X, 461, 463, 1000, 1401, 2000, 4000, 8504, 405, 405M, 410, 411/412
PLANET	ICA-510, ICA-700, ICA-151W, ICA-151, ICA-750, ICA-107W, ICA-107P, ICA-107
PROBE	IP Fixed Camera, IP PTZ Camera
SAMSUNG	C6475
SONY	SNC-DF40, SNC-DF70, SNC-P1, SNC-P5, SNC-RZ25, SNC-RZ50, SNC-RX550, SNC-CS50, SNC-CS3, SNC-Z20, SNC-RZ30, SNC-CS10, SNC-CS11, SNT-V704 SNC-RX530, SNC-DF50, SNC-DF80
TOSHIBA	IK-WB02A,IK-WR01A,IK-WB21A,IK-WB15A
VIVOTEX	VS 2101, VS 2401, VS 2402, VS 2403, VS 3100, VS 3101, VS 3102, VS 3102-XLTH, VS 3103, VS 3107, VS 3108, VS 6000, VS 6100, VS 6104, VS 7000, VS 710 SD 6000, SD 6101, SD 61x2, FD 6000, FD 61x1, FD 61x2, TC 5330, TC 5531, TC 5630, TC 5631, IP 21x1, IP 21x2, IP 31x1 TLFN, IP 31x1, IP 31x2, IP 31x8, IP 3129, IP 3133, IP 3134, IP 3135-PLNX, IP 3135, IP 3136-PLNX, IP 3136, IP 3137, IP 51x4, IP 51x4, IP 5104, IP 5114, IP 5124, IP 5134, IP 6000, IP 61x2, IP 61x4, IP 61x7, IP 6104, IP 6114, IP 6124, IP 6134, IP 7000, IP 71x7, IP 7135, IP 7136, IP 7137, IP 7151, IP 7152, PT 31x3, PT 31x4, PT 31x2, PT 31X2, PT 31x3, PT 3134, PT 51x4, PT 5104, PT 5114, PT 5124, PT 5134, PT 6000, PT 61x4, PT 6104, PT 6114, PT 6124, PT 6134, PT 7000, PT 7135, PT 7137, PZ 6000, PZ 61x2, PZ 61x4, IP 7131, IP 7132, IP 7138, IP 7139, VS 7100, FD7131
ZAVI	D611E, D611A, D610A, F611E, F611A, F610A, V111T, S610A, F721E, F721A, F720A, F711E, F711A, F710A, F211A, F210A, F212A, F310A, F312A, M210A, M212A, M610A, M612A, F613A, F510E, F510W, F511E, F511W, F711E, F710E, D510E, D511E, M310A, M312A



#### Accessories

#### Model

CAS-4000A



#### Description

Wall Mount Kit

#### Works with:

FCS-4000 / 4100 / 4200

#### Model

CAS-4000D



#### Description

Pole Mount Kit

#### Works with:

FCS-4000 / 4100 / 4200

#### ModelNo.

CAS-1100



#### Description

6~60mm Vari-focal Lens

#### Works with:

FCS-1081A / 1091 / 1070 ; WCS-1090 / 2070

#### Model

BOH-1100



#### Description

Outdoor Housing for Box-type cameras (12V DC)

#### Works with:

FCS-1081A / 1101 / 1091 / 1070

#### Model

CAS-4000B



#### Description

Ceiling Mount Kit

#### Works with:

FCS-4000 / 4100 / 4200

#### Model

CAS-4000E



#### Description

Housing for Cables and Accessories

#### Works with:

FCS-4300 / 4400 / 4500

#### Model

CAS-1200



#### Description

3.5~8mm Vari-focal Lens

#### Works with:

FCS-1081A / 1091 / 1070 ; WCS-1090 / 2070

#### Model

BOH-1200



#### Description

Outdoor Housing for Box-type cameras w/ Infrared LEDs (12V DC/24V AC)

#### Works with:

FCS-1091 / 1070

#### Model

CAS-4000C



#### Description

Corner Mount Kit

#### Works with:

FCS-4000 / 4100 / 4200

#### Model

CAS-1000A



#### Description

3.5~8mm Vari-Focal Lens

#### Works with:

FCS-1081A / 1091 / 1070 ; WCS-1090 / 2070

#### Model

BOH-1000



#### Description

Outdoor Housing for Box-type cameras (24V AC)

#### Works with:

FCS-1081A / 1101 / 1091 / 1070

#### Model

BOH-1300



#### Description

Outdoor Housing for Box-type cameras (12V DC/24V AC)

#### Works with:

FCS-1081A / 1101 / 1091/ 1070

#### Accessories

#### Model



#### Description

PoE Module

#### Works with:

BOH-1100 / 1200 / 1300

#### Model

DOH-1000



#### Description

Dome-type Outdoor Housing

#### Works with:

FCS-1010 / 1040 / 1060

#### Model

CAS-4011



#### Description

Corner Mount Kit

#### Works with:

FCS-4010

#### Model

CAS-3030



#### Description

IR Illuminator (30m, 80° view angle, IP66 Housing)

#### Works with:

FCS-1070 / 1091 / 4x00; WCS-2070 / 1090

#### Model

BOH-1001



#### Description

Pole Mount Kit

#### Works with:

BOH-1000 / 1100 / 1200

#### Model

DOH-1100



#### Description

Heavy-Duty Domed Outdoor Housing

#### Works with:

FCS-1010 / 1040 / 1060

#### Model

POW-1201



#### Description

12V/1.25A Switching Power Adapter

#### Works with:

FCS-1081A / 1091 / 1101 / 3021

#### Model

CAS-4100



#### Description

Recessed Ceiling Mount Kit

#### Works with:

FCS-3021

#### Model

BOH-1301



#### Description

Pole Mount Kit

#### Works with:

BOH-1300

#### Model

CAS-4010



#### Description

Pole Mount Kit

#### Works with:

FCS-4010

#### Model

CAS-3015



#### Description

IR Illuminator (15m, 80° view angle, IP66 Housing)

#### Works with:

FCS-1070 / 1091 / 4x00; WCS-2070 / 1090

#### Model

CAS-4200



#### Description

USB Joystick for P/T/Z Network Camera

#### Works with:

FCS-4010



## **Storage**

Network Storage Devices for Home and Office Users

- Network Attached Storage (NAS)
- USB Storage

# HomePlug Powerline Adapters

Transmit Data Via Your Home Electrical Network

## **Projector Server**

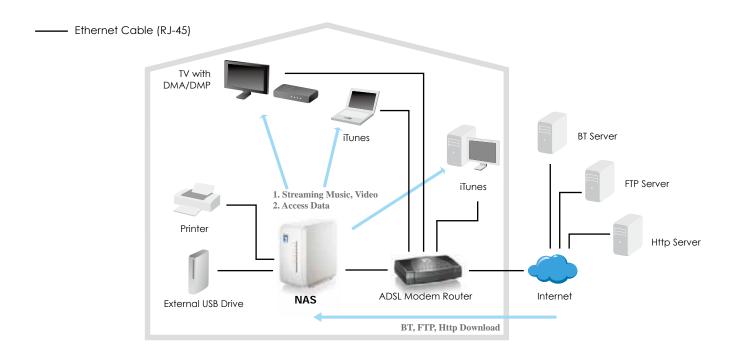
Offers Wireless Connectivity to any PC or Notebook Within the LAN

## **Docking Station**

**Expand Your Computer's Connections** 

## LevelOne Storage

LevelOne provides storage productions for both home and office users. Whether you're looking for a simple and fast way to share your movies and music at home, or if you need to collaborate with your colleagues on a small to medium-sized office network, LevelOne has a Network Attached Storage solution for you.



#### **Network Attached Storage (NAS)**



#### WAP-0007 11b/g 54 Mbps Wireless Access Point + Storage (2.5" HDD)

- Compliant with 802.11b/g wireless standards
- Provides wireless security with 64/128-bit WEP encryption and WPA-PSK
- Supports wireless client/ AP and WDS operation modes
- Provides easy access via network environment in Windows or Samba (Linux) OS.
- One-button click quick backup of USB storage devices
- Detachable antenna replaceable with variety of LevelOne indoor antennas



WAP-0008 11b/g 54 Mbps Wireless Access Point + Storage (3.5"HDD)

- Single 3.5 inch SATA or IDE Hard Disk bay
- Stream Music or Video to PCs, Xbox or PS3 using the iTunes and UPnP Media Servers
- Download Files without PC Supports HTTP, FTP and BitTorrent
- Share Files using FTP Server or Windows File Sharing / Samba
- Two High Speed USB 2.0 Ports for Extra Storage
- Integrated Wireless Access Point providing speeds of up to 54Mbps
- Operates as Wireless Client, Access Point or Wireless Extender (WDS) modes.
- Web Interface Configuration and Management



FNS-1020 1-Bay Simple Network Storage

- Stream music and video to your PC, media players or gaming console
- Download files without PC supports HTTP, FTP and BitTorrent
- Share files between computers and over Internet
- Two high speed USB 2.0 ports for extra storage
- Single 3.5 inch SATA or IDE hard disk bay
- Web Interface Configuration and Management
- Easy to Setup and Use
- Supports Windows 2000/XP/Vista, Mac OS X, Linux
- Provide 8MB flash memory-works well with WBR-6022 HomeGuard22 (see page 34)



#### **Network Attached Storage (NAS)**





GNS-2000 2-Bay Gigabit Network Storage

- Stream music and video files to PCs, media players and gaming consoles
- Share files between computers and over Internet
- Gigabit Ethernet (1000 Mbps) file transfer speeds
- Built-in download and BitTorrent client
- Download with computer off
- Two high speed USB 2.0 ports for extra storage
- Two 3.5 inch SATA disk storage drives
- Easy to setup and use



#### GNS-4000 4-Bay SATA NAS w/ 1 Gigabit Ethernet Port (3.5" HDD)

- 4 SATA-I/II disk drives with RAID 0/1/5/10 capability
- Built-in media server and DLNA support for easy sharing of digital content on the Internet
- Features 2 USB2.0 ports for sharing of USB storage devices, printers or UPS
- Provides a "One-Touch" smart backup utility for quick storage of image, music, and data files
- Features secure email notification for activity, backup status and system errors



#### GNS-8000B 4-Bay Rack-Mountable SATA NAS w/ 2 Gigabit Ethernet Ports (3.5" HDD)

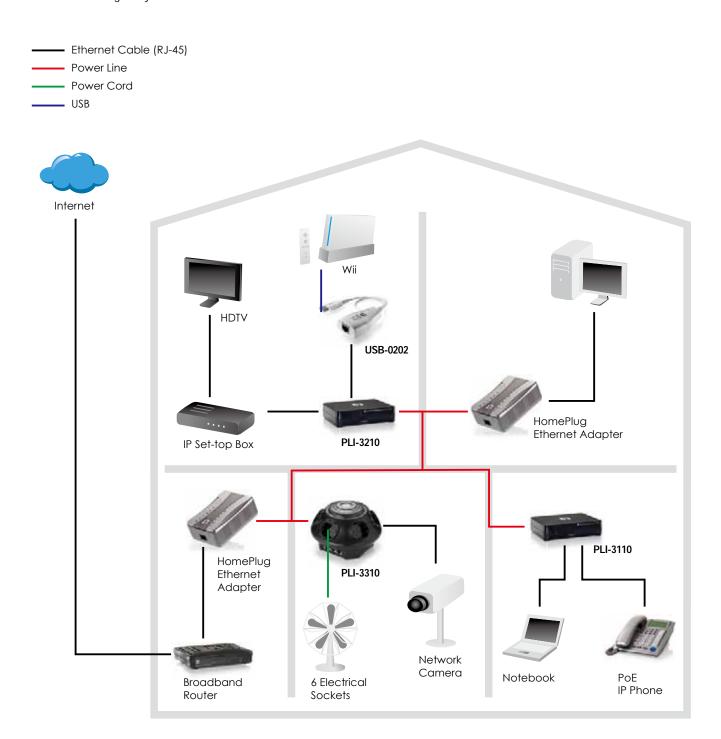
- Includes 1 SCSI ultra 160 interface and data security features to protect data
- Provides network fail-over protection and multi-language user interface
- Microsoft/Apple/Linux network client compatible
- Includes redundant power supply and SNMP/ webbased management
- Features 19-inch rack-mountable

#### **Network Attached Storage Comparison**

Model	WAP-0007	WAP-0008	FNS-1020/1022	GNS-2000	GNS-4000	GNS-8000B
Processor	AMRISC20000	AMRISC	32-bit AMRISC	Marvell 88F5182	Freescale MPC8343	Intel Celeron M
Flash Memory	4MB	4MB	4MB/8MB	16 MB	16 MB	32 MB
DRAM	SDRAM 32MB	SDRAM 32MB	SDRAM 32MB	SDRAM 64 MB	DDRII 128 MB	SDRAM 512 MB
Drive Bay	1	1	1	2	4	4
Drive Interface	2.5" IDE	3.5" IDE/SATA	3.5" IDE/SATA	3.5" IDE/SATA	3.5" SATA	3.5" SATA
10/100 Mbps Ports	1	1	1	-	-	-
10/100/1000 Mbps Ports	-	-	-	1	1	2
802.11b/g			-	-	-	-
SCS(Ultra 160)	-	-	-	-	-	1
USB 2.0	2	2	2	2	2	2
FTP Server	•	•		•	•	•
BitTorrent Download	-	•		•	-	-
UPnP Media/DLNA Server	-	-		•	•	-
JBOD	-	-	-	•	-	•
RAID 0	-	-	-	•	•	
RAID 1	-	-	-		•	•
RAID 5	-	-	-	-		•
RAID 10	-	-	-	-		-
Hot Spare	-	-	-	-	-	
Hot Swappable	-	-	-	-		
Rack Mountable	-	-	-	-	-	
UPnP	•	•		•	•	-
Dimension L * W *H (mm)	162 * 92 * 25	215* 150 * 48	215 * 150 * 48	214 * 175 * 115	229.6 * 152.5 * 188.2	570 * 430 * 44

## LevelOne HomePlug Powerline Adapters

Transmit data using the existing electrical wiring in your building. These are a fast, simple, and cost-effective alternative to installing expensive Ethernet cables throughout your entire home or small office.







#### PLI-2030 200 Mbps HomePlug Ethernet Adapter

- Stream HD (High Definition) multimedia content across your home network
- Provides built-in QoS engine for prioritized audio and video streaming
- Provides up to 200 Mbps data transfer rate
- Supports 128-bit AES secure encryption for enhanced network protection
- Delivers the benefits of Ethernet without wiring expense
- Simple plug-and-play installation
- Cost-effective network solution



#### PLI-2030 x 2 200 Mbps HomePlug Ethernet Adapter Starter Kit

The PLI-2030x 2 starter kits contains two PLI-2030 HomePlugs, a user's manual, a utility CD for quick installation and a quick started guide that is an ideal and cost-effective remedy for steaming high quality video and audio over the home network.



#### PLI-3110 HomePlug Pro PoE

- Send data over your home's existing electrical wiring
- Includes 1 PoE for easy deployment of PoE devices
- Auto-discovery function to connect easily to other devices on the network
- Sends 48v DC power to a PoE powered device
- Follows the 200 Mbps HomePlug Audio/Video standard for fast audio/video streaming
- Use with PoE (802.3af) enabled network camera, VoIP, wireless access point, routers and PD switch
- 128-bit AES link encryption with key management
- 15.4 Watts (Max.) power sent to PoE port
- Security push button for software free configuration



#### PLI-3210 HomePlug Pro 4-Port Bridge

- Send data over your home's existing electrical wiring
- 4-Port Bridge to attach other network devices
- No need to install expensive Ethernet cables around the home or office
- Auto-discovery function to connect easily to other devices on the network
- Up to 200 Mbps PHY data rate on power line
- Stand-alone unit attaches directly to network devices and plugs into the wall for seamless integration
- Security push button for software free configuration
- 128-bit AES link encryption with key management



#### PLI-3310 HomePlug Pro Power Bridge

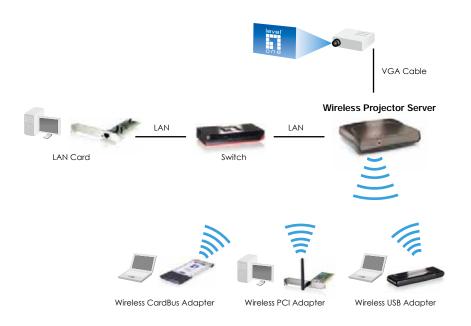
- Send data over your home's existing electrical wiring
- Provides up to 200 Mbps data transfer rate
- 3-Port Bridge for adding additional network devices
- 6 built-in electrical sockets for the most practical HomePlug solution available
- All electrical sockets are filtered, no interference with networking equipment
- Child safety shutters on each socket
- 128-bit AES link encryption with key management
- Security push button for software free configuration

#### HomePlug Powerline Adapters Comparison

Model	PLI-2030	PLI-2030 x 2	PLI-3110	PLI-3210	PLI-3310
Description	HomePlug	HomePlug AV	HomePlug	HomePlug	HomePlug
	AV Ethernet Adapter	Ethernet Adapter Starter kit	Pro PoE	Pro 4-Port Bridge	Pro Power Bridge
Transfer Speed	200 Mbps	200 Mbps	200 Mbps	200 Mbps	200 Mbps
Power Spec	EU, US, AU, UK	EU, US, AU, UK	EU, US, UK	EU, US, UK	EU, US, UK
Security	128-bits AES	128-bits AE	128-bits AES	128-bits AES	128-bits AES
QoS			-	-	-

## LevelOne Projector Server

Using the LevelOne projector server will make presentations easy and effortless as there's no need to connect any cables. This device connects to any standard projector with minimal configuration, and allows users to stream their presentations wirelessly to the big screen.



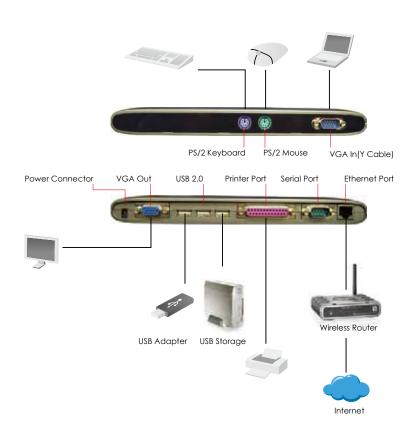


#### WPG-1000 54 Mbps Wireless Projector Server

- Project the screens of your computers wirelessly
- Built-in image viewer and 64 MB internal storage for presentations without PC
- Resolution up to 1024x768 and 24-bit colors
- Wireless Access Point or AP Client Modes
- Wireless data rate up to 54Mbps
- 64/128-bit WEP encryption
- Coverage up to 25m
- Easy-to-use user interface

## LevelOne Docking Station

The LevelOne docking station is a device that provides greater functionality and power to a laptop computer by adding additional interfaces (USB, serial, PS/2, and RJ-45) for easy use and organization.





#### UDS-1000 USB 2.0 Docking Station

- Instantly convert your laptop into networked desktop workstation
- Adds a parallel, serial, 10/100 Mbps Ethernet LAN, PS/2 keyboard/mouse and three USB 2.0 ports to your laptop or desktop system
- Backward compatible with USB 1.1 devices
- Use USB bus-powered or self-powered with included power adapter
- Connect your desktop monitor to your laptop with VGA pass-through
- Provides easy installation and compatible with Windows 98SE/ME/2000/XP/Vista and Mac OS 10.3/10.4



# **KVM Switches KVM Consoles KVM Extenders**

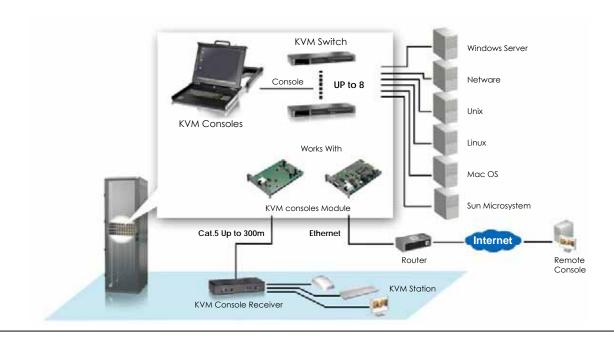
Control Multiple Computers with One Device and Provide a Great Solution for Presenting Current Information to a Network of Displays

- Cable KVM Switches
- Desktop KVM Switches
- Rackmount KVM Switches
- Rackmount KVM Consoles
- KVM Extenders
- Accessories

## LevelOne KVM Switches/Consoles/Extenders

LevelOne KVM switches include award-winning designs that look great on any desktop. With a small footprint and plug-and-play installation, these devices help you switch between computers with ease. Both PS/2 and USB connections are available to support any operating system.

Our professional level rackmount and drawer consoles provide advanced features such as remote management and control of up to 128 different servers.



#### Cable KVM Switches







#### KVM-0213 2-Port PS/2 KVM Switch w/ Audio

- Control and manage 2 PCs from a single keyboard, mouse and monitor
- Provides PS/2 keyboard, mouse connection
- Audio enabled, 2.1 surround sound support
- High quality video resolution up to 2048 x 1536 (VGA)
- No additional power supply required
- LED display for easy status monitoring
- Auto scanning support

#### KVM-0223 2-Port USB Cable KVM Switch w/ Audio

- Control and manage 2 PCs from a single keyboard, mouse and monitor
- USB connector for sharing devices
- High quality video resolution up to 2048 x 1536 (VGA)
- No additional power supply required
- Audio enabled, 2.1 surround sound support

#### KVM-0260 2-Port USB DVI KVM w/ Audio

- 2-Port USB DVI KVM Switch for home or office use
- Connect multi-platform operating system computers to a single keyboard, mouse and monitor
- Supports high-video quality DDC2B and 1920x1200 pixels
- Easy installation with no software installation
- All cables attached, ready-for-use
- Features audio and microphone support Provides auto-scanning
- LED display for easy status monitoring
- Provides hotkey switching

#### **KVM Switches Comparison**

Model	Ports	Console Interface	Computer Interface	Platform Support	Max. Local Resolution	Audio
KVM-0213	2	PS/2	PS/2	PC	2048X1536	
KVM-0223	2	USB	USB	PC, Mac, Sun	2048X1536	
KVM-0260	2	USB. DVI	USB, DVI	PC, Mac	1920X1200	



#### **Desktop KVM Switches**





#### KVM-0211 / KVM-0212 2-Port D-Sub KVM Switch

- Control and manage 2 computers by using a single PS/2 keyboard, mouse and monitor
- High power 2048x1536 pixels VGA resolution
- PS/2 interface power supply
- Supports simultaneous or independent PC and Audio user-programmable switching (KVM-0211)







#### KVM-0221 / KVM-0222 2-Port D-Sub PS/2 KVM Switch

- Control and manage 2 computers by using a single USB keyboard, mouse and monitor
- High power 2048x1536 pixels VGA resolution
- USB interface power supply
- Supports simultaneous or independent PC and Audio user-programmable switching (KVM-0221)



#### KVM-0411 / KVM-0412 4-Port D-Sub KVM Switch

- Control and manage 4 computers by using a single PS/2 keyboard, mouse and monitor
- High power 2048x1536 pixels VGA resolution
- PS/2 interface power supply
- Supports simultaneous or independent PC and Audio user-programmable switching (KVM-0411)



#### KVM-0421 / KVM-0422 4-Port D-Sub USB KVM Switch

- Control and manage 4 computers by using a single USB keyboard, mouse and monitor
- High power 2048x1536 pixels VGA resolution
- USB interface power supply
- Supports simultaneous or independent PC and Audio user-programmable switching (KVM-0421)



#### KVM-0306 3-Port DVI Combo KVM Switch with Audio

- Features a DVI interface for better video quality through digital signal transmission
- Controls 3 DVI computers from a single console through USB and/or PS/2 connections
- Self powered through USB connection
- Connecting cable sets are include
- Audio enabled for multimedia applications
- DVI UXGA resolution of 1600x1200 @ 60Hz
- Supports hot-swap

#### **KVM Switches Comparison**

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Model	Ports	Console Interface	Computer Interface	Platform Support	Max. Local Resolution	Audio
KVM-0211/KVM-0212	2	PS/2, D-Sub	PS/2, D-Sub	PC	2048x1536	<b>I</b> / -
KVM-0221/KVM-0222	2	USB, D-Sub	USB, D-Sub	PC, Mac, Sun	2048X1536	<b>I</b> / -
KVM-0411/KVM-0412	4	PS/2, D-Sub	PS/2, D-Sub	PC	2048x1536	■/-
KVM-0421/KVM-0422	4	USB, D-Sub	USB, D-Sub	PC, Mac, Sun	2048X1536	<b>I</b> / -
KVM-0306	3	PS/2, USB, DVI	USB, DVI	PC, Mac, Sun	1600X1200	

#### Rackmount KVM Switches



#### KVM-0410 / KMV-0420 4-Port D-Sub PS/2 KVM Switch

- Supports PS/2 PC interface
- Supports USB interface (KVM-0420)
- Features an auto-scan and programmable scan function
- Password protected for each connected PC
- Provides for easy access via hotkey function
- Plug-and-play configuration and easy to use OSD
- Supports daisy chain to control more PCs as required
- VGA Resolution: 1920x1440, DDC2B



#### KVM-0811 / KVM-1611 8/16-Port D-Sub PS/2 KVM Switch

- Manage 8 or 16 computers from a single location
- Supports a variety of operating system platforms
- Password protection for connected PCs
- High video quality of up to 1920x1440 pixels
- Features auto-scan mode for PC monitoring and an auto-detect daisy chain function for easy management
- Features an additional built-in daisy chain port for expanding the KVM network



#### KVM-0831 / KVM-1631 8/16-Port D-Sub Combo KVM Switch w/ 1 Expansion Slot

- Control servers and computers either locally via control port or remotely via optional modules through the module expansion slot
- Combo architecture with PC support for PS/2 and USB interface and one expansion slot
- Flexible auto-scan mode for PC monitoring
- Locate Cat5 console up to 300 meters away from the KVM switch.
- Supports screen saving and 10 min auto-logout function
- Built-in daisy chain port for cascading with KVM-0831 or KVM-1631 up to 8 units

#### KVM Switches/Rackmount KVM Switches Comparison

Model	Ports	Console Interface	Computer Interface	Platform Support	Max. Local Resolution	Audio
KVM-0410	4	PS/2, D-Sub	PS/2, D-Sub	PC	1920X1440	-
KVM-0420	4	PS/2, USB, D-Sub	PS/2, USB, D-Sub	PC, Mac, Sun	1920X1440	-
KVM-0811/KVM-1611	8/16	PS/2, D-Sub	PS/2, D-Sub	PC	1920X1440	-
KVM-0831/KVM-1631	8/16	PS/2, USB, D-Sub	PS/2, USB, D-Sub	PC, Mac, Sun	1920X1440	-

#### Rackmount KVM Consoles



#### KVM-0115UK 15" Rackmount KVM Console w/ UK Keyboard Layout

- KVM server rack console with 15-inch LCD monitor
- Bright active matrix TFT display
- Provides OSD function for LCD display
- Panel prospected by tempered glass
- Provides 15 pins high density connector
- 15 language keyboard format and easy glide touchpad
- Durable keyboards (touchpad or trackball)
- Provides detachable Keyboard
- Support PS/2 and USB console interface
- Support DVI interface



#### KVM-0117UK 17" Rackmount KVM Console w/ UK Keyboard Layout

- KVM server rack console with 17-inch LCD monitor
- Bright active matrix TFT display
- Provides OSD function for LCD display
- Panel prospected by tempered glass
- Provides 15 pins high density connector
- 15 language keyboard format and easy glide touchpad
- Durable keyboards (touchpad or trackball)
- Provides detachable Keyboard
- Support PS/2 and USB console interface
- Support DVI interface



#### KVM-0217UK 17" Modularized Rackmount KVM Console w/ UK Keyboard Layout

- Daisy chain up to 7 additional KVM switches to control up to 64/128 computers
- Easy for computer access with hotkey mode, OSD invocation keys and supports OSD tree structure
- Auto scan mode enables continuous monitoring of user selected computers
- Two-layer security access with support for 8 unique profile user accounts
- IP KVM management over LAN or Internet possible with connected LevelOne KCM-0831/1631 modules
- Provides 300m Cat.5 remote console capable
- Provides detachable Keyboard

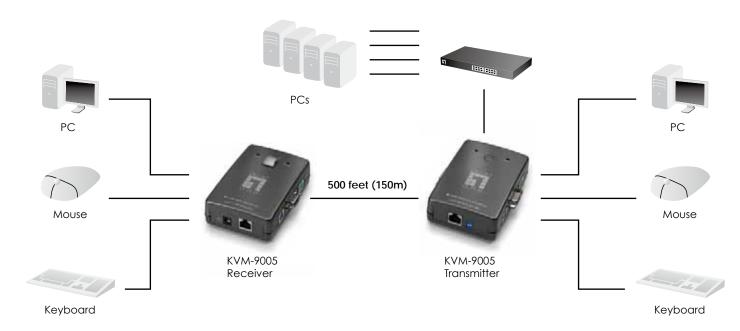
#### Rackmount KVM Consoles Comparison

Model	Ports	Console Interface	Computer Interface	Platform Support	Max. Local Resolution	Audio
KVM-0115UK/DE	1	PS/2, USB	PS/2, USB, DVI	PC, Sun	1024x768	-
KVM-0117UK/DE	1	PS/2, USB	PS/2, USB, DVI	PC, Sun	1028x1024	-
KVM-0217UK/DE	8/16	PS/2, USB, D-Sub	PS/2, USB, D-Sub (Build-in)	PC, Mac, Sun	1280x1024	-



## LevelOne KVM Extenders

LevelOne's IP KVM Extender allows you to locate PC, SERVER or KVM SWITCH up to 500 feet away from your controlling keyboard, mouse and VGA monitor using popular and inexpensive Ethernet cabling. With its compact design, our Cat.5 Extender easily fits on a desk or any limited space. No software or interface card is required.



Extending console port or PC port of KVM Switch up to 500 feet away

#### **KVM Extenders**



#### KVM-9000 IP KVM Extender

- Enables KVM Switches with IP functionality
- Provides remote KVM access and control KVM via IP, ISDN or analog phone line
- Provides web-based management interface
- 1 USB port for quick file transfer to remote server
- Automatically senses video resolution for best possible screen capture and provides 128-bit SSL encryption
- High performance mouse tracking and synchronization
- Supports DOS, Netware, Unix, Linux, Win3.X, Win95/ 98/98SE/2000/ME/XP
- Features high video quality of up to 1280x1024



#### KVM-9005 KVM Cat.5/6 Extender Kit

- Provides for remote console access up to 150m
- Dual user access- at sender and receiver
- Supports Cat.5/5e/6 Ethernet cabling
- LEDs for power and data transfer
- Works with KVM switches and stand-alone PC
- No software requirement and easy to install
- Tuner at receiver to manually adjust video signal

#### KVM-9006 USB Cat.5 KVM Extender

- A single, inexpensive Cat.5/5e/6 UTP cable replaces bulky KVM cables
- Locate Cat.5 console up to 150m away from the KVM switch with superior auto-adjust RGB signals capability
- Collocate computers and servers on one location, ideal for hazardous or unsecured environments
- Switch computers by push button or hotkey commands
- Audible feedback when switching
- LED indicators for computer status or data transmission
- 3-in-1 space saving design
- Work with PS/2 or USB computer
- Easy to install and use with plug-and-play functionality

#### **KVM Extenders Comparison**

Model	Description	Extension distance	Consoler Interface	Computer Interface	Resolution
KVM-9000	IP KVM Extender	-	PS/2, D-Sub	PS/2, D-Sub	1280x1024
KVM-9005	Cat.5/6 KVM Extender Kit	150m@1280x1024	PS/2, D-Sub	PS/2, D-Sub	1280x1024
KVM-9006	USB Cat.5 KVM Extender	150m@1280x1024	USB, D-Sub	SUB, D-Sub	1280x1024
					1920x1440 (local console)

#### Accessories

#### Model

KVM-9007



#### Description

KVM Cat.5 Console Receiver

#### Works with:

KVM-0831 / KVM-1631 / KVM-0217

#### Model

ACC-2001 / ACC-2002



#### Description

1.8m / 3.0m PS/2 KVM Cable

#### Works with:

KVM-0410 / KVM-0420 / KVM-0811 / KVM-1611

#### ModelNo.

ACC-2101 / ACC-2102 / ACC-2103



#### Description

1.8m / 3.0m / 5.0m PS/2 and USB KVM Cable

#### Works with:

KVM-0831 / KVM-1631 / KVM-0217

#### Model

KCM-0831



#### Description

8-Port D-Sub Combo KVM Module

#### Works with:

KVM-0217UK

#### Model

ACC-1000



#### Description

KVM Cat.5 Console Module

#### Works with:

KVM-0831 / KVM-1631 / KVM-0217

#### Model

ACC-2006 / ACC-2010



#### Description

6.0m / 10.0m PS/2 KVM Cable PS/2 KVM Cable

#### Works with:

KVM-0410 / KVM-0420

#### Model

ACC-2009



#### Description

90cm Daisy Chain Cable

#### Works with:

KVM-0811 / KVM-1611

#### Model

KCM-1631



KVM-0217UK

#### Model

ACC-2000



#### Description

KVM IP Console Module

#### Works with:

KVM-0831 / KVM-1631 / KVM-0217

#### Model

ACC-2003 / ACC-2004 / ACC-2005



#### Description

1.8m / 3.0m / 5.0m USB KVM Cable

#### Works with:

KVM-0420

#### Model

ACC-2109



#### Description

90cm Daisy Chain Cable

#### Works with:

KVM-0831 / KVM-1631 / KVM-021

#### Description

16-Port D-Sub Combo KVM Module

#### Works with:



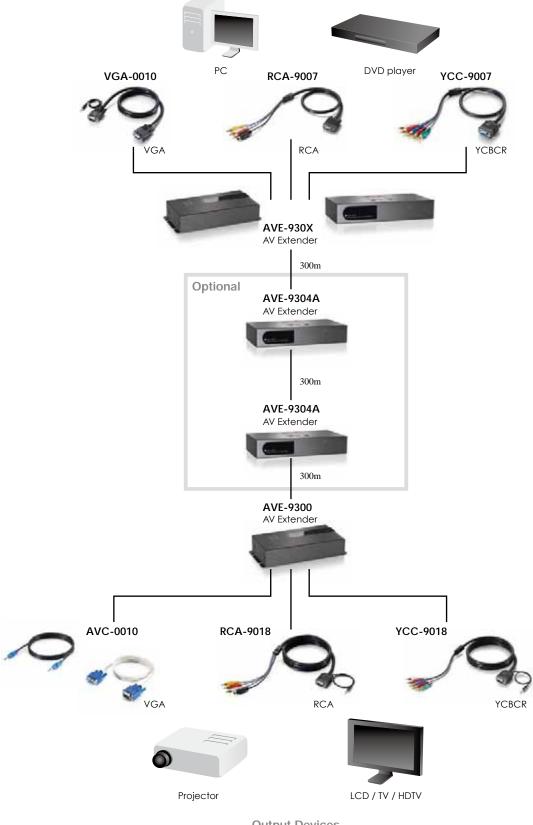
## **Audio/Video Extenders**

A Great Solution for Presenting Current Information to a Network of Displays

- Audio and Video Extenders (VGA, 150/300m)
- Accessories for Audio and Video Extenders (VGA)
- Audio and Video Extenders (DVI)
- Audio and Video Extenders (HDMI)
- Audio and Video Extenders (via Fibre)
- IP Audio Broadcasting

## LevelOne Audio/Video Extenders

LevelOne has several audio/video extenders that allow users to transmit high-quality signals (VGA, DVI, HDMI) over long distances. This solution is ideal for broadcasting real-time data to a group of displays in various locations. Good for public transportation, stadiums, schools, restaurants, etc.



**Output Devices** 



#### Audio and Video Extenders (VGA, 150m)



#### AVE-9201 1-Port Cat.5 Audio/Video Broadcaster

- Real-time transmission of multimedia content via Cat.5/5e/6 patch cabling to display devices
- Provides for a transmitting distance up to 150m
- Supports VGA resolution up to 1280x1024@85Hz
- No software installation required and easily to install
- Compatible with DOS, MS Windows, Linux and Netware
- Connections: HDDB15 for VGA, 3.5 stereo jack for
- Connections: HDDB15 for VGA, 3.5 stereo jack for audio, RJ-45 for Cat.5/5e/6 cable



#### AVE-9205 5-Port Cat.5 Audio/Video Broadcaster

- Real-time transmission of multimedia content via Cat.5/5e/6 patch cabling to display devices
- Provides for a transmitting distance up to 150m
- Supports VGA resolution up to 1280x1024@85Hz
- No software installation required and easily to install
- Compatible with DOS, MS Windows, Linux and Netware
- Connections: HDDB15 for VGA, 3.5 stereo jack for audio, RJ-45 for Cat.5/5e/6 cable



#### AVE-9200 Cat.5 Audio/Video Receiver

- Real-time transmission of multimedia content via Cat.5/5e/6 patch cabling to display devices
- Provides for a transmitting distance up to 150m
- Supports VGA resolution of up to 1280x1024@85Hz
- Plug-and-play installation
- Compatible with DOS, MS Windows, Linux and Netware
- Connections: HDDB15 for VGA, 3.5 stereo jack for audio, RJ-45 for Cat.5/5e/6 cable

#### Audio and Video Extenders (VGA, 300m)



#### AVE-9300 / AVE-9301 1-Port Long-Range Cat.5 A/V Receiver or Transmitter

- Transmit audio and video signals up to 300 meters
- Transmit audio and video signal up to 900 meters through stacking (AVE-9301)
- Support various video types (VGA, RCA, YCBCR) by different cable kits
- Easy installation and no software required
- Supports 2048x1536 VGA resolution over 300m



#### AVE-9304 / AVE-9308 / AVE-9316 4/8/16-Port Long-Range Cat.5 A/V Transmitter

- Provides4, 8 or 16 ports long range cat.5 A/V transmitter
- Broadcast audio/video signals over Ethernet cable
- Supports 2048x1536 VGA resolution over 300m
- Flexible multi-location audio/video broadcasting
  Flexible cable kit choices for different video applications
- Units can be stacked into 3 layer stackable units (with AVE-9304A) for extending broadcast signal to 900m away
- Repeater and receiver units feature video gain and focus control



#### AVE-9304A 4+1 Ports Long-Range Cat.5 A/V Repeater

- Broadcast audio/video signals over Ethernet cable
- Supports 2048x1536 VGA resolution over 300m
- Flexible multi-location audio/video broadcasting
- Flexible cable kit choices for different video applications
- Units can be stacked into 3 layer stackable units (with AVE-9304A) for extending broadcast signal to 900m away
- Repeater and Receiver units feature Video Gain and Focus control

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Model	Description	Interface	Aspect ratio	Resolution	Distance
AVE-9201	1-Port Audio/Video Broadcaster	D-Sub/Audio	SXGA (4:3)	1280x1024	150m
AVE-9205	5-Port Audio/Video Broadcaster	D-Sub/Audio	SXGA (4:3)	1280x1024	150m
AVE-9200	Audio/Video Receiver	D-Sub/Audio	SXGA (4:3)	1280x1024	150m
AVE-9300/AVE-9301	1-Port LR Cat.5 A/V Receiver/Transmitter	VGA/Audio	OXGA (4:3)	2048x1536	300m
AVE-9304/9308/9316	4/8/16-Port LR Cat.5 A/V Transmitter	VGA/Audio	OXGA (4:3)	2048x1536	300m
AVE-9304A	4+1 Ports LR Cat.5 A/V Repeater	VGA/Audio	OXGA (4:3)	2048x1536	300m

Accessories: LevelOne provides a comprehensive range of cables for the AVE series of audio/video extenders for guaranteed compatibility and reliability

Od	

RCA-9007

#### Model

RCA-9018

#### Model

YCC-9007



#### Description

0.7m RCA to VGA cable (video source to transmitter)

#### Works with:

AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316

#### Model

YCC-9018



#### Description

1.8m VGA to RCA cable (receiver to video display)

#### Works with:

AVE-9300 / AVE-9304A

#### Model

VGA-0010



#### Description

0.7m YCBCR to VGA cable (video source to transmitter, supports HD up to 720p)

#### Works with:

AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316

#### Model

AVC-0010



#### Description

1.8m VGA to YCBCR cable (receiver to video display, supports HD up to 720p)

#### Works with:

AVE-9300 / AVE-9304A

#### ModelNo.

AVC-0011



#### Description

1m VGA cable (video source to transmitter, VGA male to VGA female)

#### Works with:

AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316



#### Description

1m VGA + audio cable (receiver to video display, VGA male to VGA female)

#### Works with:

AVE-9300 / AVE-9304A



#### Description

1m VGA + audio cable (receiver to video display, VGA male to VGA male)

#### Works with:

AVE-9300 / AVE-9304A



#### Audio and Video Extenders (DVI)



#### ADE-8011 Cat.5 Audio Transmitter/Receiver

- Stereo audio transmitter/receiver
- Provides 1 RJ-11 and 1 audio jack interface
- Transmits stereo audio via 4-wire phone cable
- Extends Audio signal up to 100 meters



#### ADE-8201 1-Port DVI Transmitter

- Provides 1-port DVI signal transmitter
- DVI signal transmission distance up to 70 meters at 1024x768 resolution when working with ADE-8002
- DVI signal transmission distance up to 15 meters at 1024x768 resolution when working with ADE-8001



#### ADE-8001 Short-Range DVI Receiver

- Receive DVI signal from up to 15 meters at 1024x768 resolution when working with ADE-8201/8202/8204/8208
- Digital signal transmission for clear image quality
- An alternative to traditional DVI cables



#### ADE-8002 Long-Range DVI Receiver

- Detachable base for quick installation and wall mounting
- Extends distance from DVI source to monitor up to 70 meters with 1024x768 resolution and up to 80 meters with 800x600 resolution
- Digital signal transmission for clear image quality
- Power consumption: DC 9V, 500 mA



#### ADE-8202 2-Port DVI Broadcaster w/ Audio

- Transmits DVI signal via Cat.5, Cat.5e, Cat.6 cable
- Transmits stereo audio via 4-wire phone cable
- Supports high DVI resolution up to 1920x1200
- DVI signal transmission distance up to 70 meters at 1024x768 resolution when used with ADE-8002
- Transmits DVI signal up to 15 meters at 1024x768 resolution when used with ADE-8001
- Easy installation and no software required



ADE-8204/ADE-8208

#### ADE-8204 / ADE-8208 4/8-Port DVI Broadcaster w/ Audio

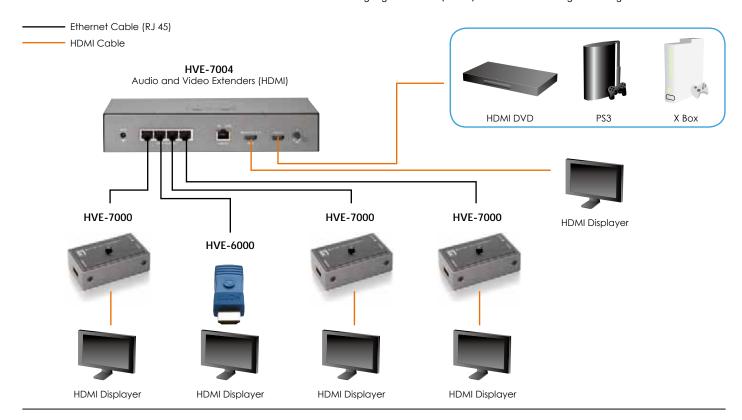
- Provides 4 or 8 ports DVI broadcaster with audio
- Transmits DVI signal via Cat.5, Cat.5e, Cat.6 cable
- Transmits stereo audio via 4-wire phone cable
- Supports high DVI resolution up to 1920x1200
- DVI signal transmission distance up to 70 meters at 1024x768 resolution when used with ADE-8002
- Transmits DVI signal up to 15m at 1024x768 resolution when used with ADE-8001  $\,$
- Easy installation and no software required

Addio and video extenders comparison						
Description	Interface	Aspect ratio	Resolution	Distance		
Audio Transmitter/Receiver	Audio	-	-	100m		
1-Port Video Transmitter	DVI-D	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002		
DVI Receiver	DVI-D	XGA (4:3)	1024x768	15m@1024x768		
LR DVI Receiver	DVI-D	XGA (4:3)	1024x768	70m@1024x768		
2-Port Video/Audio Broadcaster	DVI-D/Audio	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002		
4/8-Port Video/Audio Broadcaster	DVI-D/Audio	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002		
	Description Audio Transmitter/Receiver 1-Port Video Transmitter DVI Receiver LR DVI Receiver 2-Port Video/Audio Broadcaster	Description Interface Audio Transmitter/Receiver Audio  1-Port Video Transmitter DVI-D  DVI Receiver DVI-D  LR DVI Receiver DVI-D  2-Port Video/Audio Broadcaster DVI-D/Audio	Description         Interface         Aspect ratio           Audio Transmitter/Receiver         Audio         -           1-Port Video Transmitter         DVI-D         XGA (4:3)           DVI Receiver         DVI-D         XGA (4:3)           LR DVI Receiver         DVI-D         XGA (4:3)           2-Port Video/Audio Broadcaster         DVI-D/Audio         XGA (4:3)	Description         Interface         Aspect ratio         Resolution           Audio Transmitter/Receiver         Audio         -         -           1-Port Video Transmitter         DVI-D         XGA (4:3)         1024x768           DVI Receiver         DVI-D         XGA (4:3)         1024x768           LR DVI Receiver         DVI-D         XGA (4:3)         1024x768           2-Port Video/Audio Broadcaster         DVI-D/Audio         XGA (4:3)         1024x768		

## LevelOne Audio and Video Extenders (HDMI)

www.level1.com

LevelOne HDMI Extenders are a cost-effective solution for broadcasting highdefinition (HDMI) audio and video signals using Cat.5 cables.



#### Audio and Video Extenders (HDMI)



#### HVE-6000 Short-Range Cat.5 HDMI Receiver

- Supports HDMI signal extension over Ethernet cables
- Provides 480p/1080i/720p resolution up to 25m
- No software needed, "plug-and-play" orientated setup
- Fully compliant with HDMI 1.2



#### HVE-7000 Long-Range Cat.5 HDMI Receiver

- Supports HDMI signal extension over Ethernet cables (Cat.5/5e/6 recommended)
- Provides 1080p resolution over 30m
- Support a 80m extension
- Features a built-in video fine tuner
- No software needed, "plug-and-play" orientated setup
- Fully compliant with HDMI 1.2



#### HVE-7004 / HVE-7008 4/8-Port Cat.5 HDMI Transmitter

- Supports HDMI signal extension over Ethernet cables (Cat.5/5e/6 recommended)
- Offers 4 or 8 ports HDMI signal splitting and extension
- Support 4 or 8 simultaneous display connection and provides cascading support for 16 display units
- Provides 1080p resolution over 30m
- Support a 80m extension
- Features a built-in video fine tuner
- No software needed, plug-and-play orientated setup
- Fully compliant with HDMI 1.2

Model	Description	Interface	Aspect ratio	Resolution	Distance
HVE-6000	SR Cat.5 HDMI Receiver	HDMI	HDTV	1080i	25m
HVE-7000	LR Cat.5 HDMI Receiver	HDMI	HDTV	1080i/p	60/30m
HVE-7004	4-Port Cat.5 HDMI Transmitter	HDMI	HDTV	1080i/p	60/30m
HVE-7008	8-Port Cat.5 HDMI Transmitter	HDMI	HDTV	1080i/p	60/30m



#### Audio and Video Extenders (HDMI)



#### HVE-9000 HDSpider™ HDMI Cat.5 Receiver (Long)

- Able to deliver top-quality video as well as audio over a single cable, works with Cat5/5e/6 Ethernet Cable
- Great for displays in movie theaters, concert halls, public transportation, malls, shops, airports, schools, etc.
- Minimize the cable skew by adjustable 8-level equalization knob with fully compliant with HDMI 1.2
- Supports resolution at 1080i/1080p@60m/40m with HVF-9001
- Provides 1 RJ-45 Input and 1 HDMI output



#### HVE-9900 HDSpider™ HDMI Cat.5 Receiver (Short)

- Supports resolution at 1080i/1080p@15m/25m
- Works with Cat5/5e/6 Ethernet cable, offers short-range transmission up to 25m without any data loss
- Directly connect to the remote display, saving the cost of an additional HDMI cable
- Provides 1 RJ-45 Input and 1 HDMI output
- Connect to a local HDMI display or the HDMI output of HVE-9001/9002/9003 for HDMI over Cat.5 transmission



HVE-9001 HDSpider™ HDMI Cat.5 Sender

- Works with Cat5/5e/6 Ethernet Cable
- Default HDMI EDID and record the EDID of displays
- Minimize the cable skew by adjustable 8-level equalization knob with fully compliant with HDMI 1.2
- Supports resolution at 1080i/1080p@60m/40m with HVE-9000
- Provides 1 HDMI input and 1 RJ-45 output



#### HVE-9002 / HVE-9003 HDSpider™ HDMI Cat.5 Sender + 1 HDMI Out (Cascadable- HVE-9003)

- HDMI 1.2 and HDCP compliant
- Includes local HDMI port allows for an additional monitor to be placed next to the device
- Works with Cat5/5e/6 Ethernet cable
- Supports full 1080p resolution and has an audio out port
- Transmission distance at up to 60 meters
- Supports 7.1 multichannel stereo surround sound: an easy way to extend the high-quality video of HDMI
- Also works as a receiver, able to select an infinite amount of HVE-9003s to be used in you're A/V network (HVE-9003)

#### Audio and Video Extenders (via Fibre)



#### HVE-0201 HDMI Fibre Optic Audio/Video Extender (SC ) 200m

- Provides connects via an SC duplex connector to a 2-channel fibre optic cable to transmit the HDMI signal
- Provides extending of the high definition multimedia interface signal over fibre optic cable up to 200m
- Fully HDCP/CEC without the needs of copper wiring
- Optical fibre use rules out any RF Interference
- HDMI type A connection



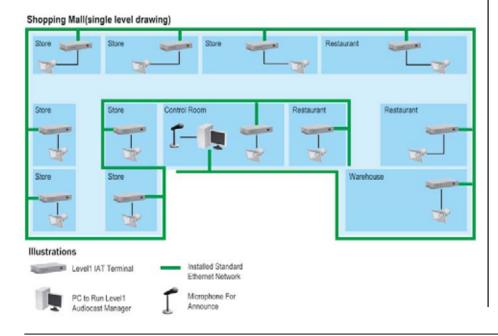
#### DVE-0500 DVI Fibre Optic Video Extender (500M)

- Transmission of DVI signals via optical fibre up to  $500 \mathrm{m}$
- Able to connects via an LC duplex connector to a 4 channel fibre optic cable to transmit the DVI signal
- Provides long distance digital image transmission via fibre optic cable
- Provides high-resolution image quality
- Signal is protected from any electrical interference
- Fibre optic provides for a low attenuation and greater distance solution

	•				
Model	Description	Interface	Aspect ratio	Resolution	Distance
HVE-9000	HDSpider™ HDMI Cat.5 Receiver (Long)	HDMI	HDTV	1080i/p	60/40m
HVE-9900	HDSpider™ HDMI Cat.5 Receiver (Short)	HDMI	HDTV	1080i/p	25/15m
HVE-9001	HDSpider™ HDMI Cat.5 Sender	HDMI	HDTV	1080i/p	60/40m
HVE-9002	HDSpider™ HDMI Cat.5 Sender + 1 HDMI Out	HDMI	HDTV	1080i/p	60/40m
HVE-9003	HDSpider™ HDMI Cat.5 Sender (Cascadable)	HDMI	HDTV	1080i/p	60/40m
HVE-0201	HDMI Fibre Optic Audio/Video Extender	HDMI	WUXGA (16:10)	1920x1200	200m
DVE-0500	DVI Fibre Optic Video Extender	DVI-D	WUXGA (16:10)	1920x1200	500m

## **IP Audio Broadcasting**

Build and deploy an audio installation that is powerful, easy to use and covers a large surface area. Ideal for large office, business centres, hotels, airports, shopping malls, public transportation, universities, theatres, etc. Use anywhere you need to send audio signals to many different locations. It also comes with powerful software that allows you to manage the playlists in each zone independently.





#### IAT-1000 LevelOne Audiocast Terminal

- Simple to use audio terminal, ideal for background music and paging system
- Schedule different playlists in different zones
- Search, configure and manage all audiocast terminals form one single location
- Stream high-quality stereo audio signals
- 100% compatible with MP3 and WAV sound format
- Using NetUSB (USB Over IP), work around the DRM issues of streaming Internet music sources
- Control both local and remote locations via TCP/IP (RJ-45)

#### LevelOne IP Audiocast Manager

Managing your audio network has never been easier. Using LevelOne's IP Audiocast management software together with the IP Audiocast Terminals provides a robust audio solution. The IP Audiocast Manager streams high-quality audio signals to each IAT-1000 terminal on the network. As a result, every IAT-1000 terminal can play any MP3, WAV, M3U playlist, or live announcements that are streamed over the Ethernet network. Each zone can also be scheduled to receive an audio stream separate from the others. This provides users with the ultimate flexibility in streaming audio to different areas of large buildings.

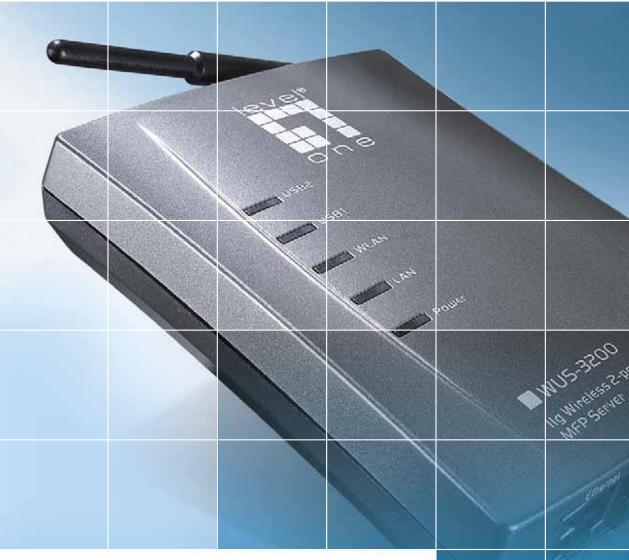


	Manager Lite	IAT-1920	IAT-1900
Main Features			
Max of Terminal View, Monitor and Configure	7	20	Unlimited
Smart Search	Yes	Yes	Yes
Broadcast tech.	Yes	Yes	Yes
Streaming tech.	Yes	Yes	Yes
Schedule Control	N/A	Yes	Yes
Live Announcement	Yes	Yes	Yes
Multiple Zone View, Monitor and Configure	N/A	Yes	Yes
Music's Format Support MP3 / WAV	Yes	Yes	Yes
Music's Control Play/Stop/Next/Forward	Yes	Yes	Yes
Playlist (M3U) Create/Edit/Save	Yes	Yes	Yes
USB Key Protection	N/A	Yes	Yes
OS		MS Windows 2000/XP/2003/Vista	
Terminal Configuration			
Active/Inactive Terminals	Yes	Yes	Yes
DHCP/Static IP	Yes	Yes	Yes
Firmware upgrade	Yes	Yes	Yes

<sup>\*</sup> The IP Audiocast Manager Lite is the free version that comes with the IAT-1000

<sup>\*</sup> Please note that the Ethernet environment has to support broadcast streaming.

<sup>\*</sup> The IAT-1900/1920 software has to run with USB Key license



## **Print Servers**

Share Your Printer and Peripheral

Devices over a Wired or Wireless Network

- Wired Print Servers
- Wireless Print Servers

# **Bluetooth Communication**

Build Your Personal Area Network

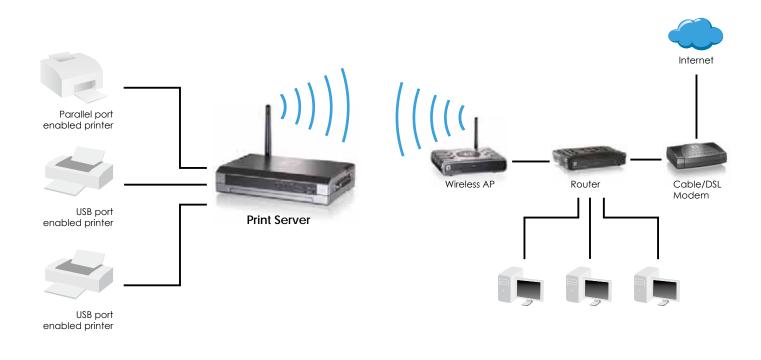
## Voice over IP (VoIP)

Easy and Affordable Solutions for the Voice over Internet Protocol

- VoIP Gateways
- VoIP PBX
- VoIP Phone
- Accessories

## LevelOne Print Servers

LevelOne makes both wired and wireless print servers. These devices make it easy for several users to connect to a single printer on a wired or wireless local network.



#### Wired Print Servers



#### FPS-1031/1032 Print Server w/ 1 Parallel or USB Port

- IEEE 802.3, 802.3u Fast Ethernet network connectivity
- Network protocol supported includes TCP/IP, IPX NetBEUI, AppleTalk, LPR and SMB over TCP/IP
- Includes Internet printing protocol(IPP) support
- Supports multiple operating systems
- Supports multiple network printing protocols
- Easy set-up wizard included with Web based user interface
- Parallel print server for network print sharing (FPS-1031)
- High-speed USB 2.0 print server for network print sharing (FPS-1032)



#### FPS-1033 Print Server w/ 2 USB and 1 Parallel Ports

- Multi-port print server for network print sharing
- IEEE 802.3, 802.3u Fast Ethernet network connectivity
- Provides web-based user interface, Windows-based setup program and telnet management
- Support multiple operating systems
- Support multiple network printing protocols
- High-speed USB 2.0 interface
- Easy set-up wizard included



#### FUS-3100 / FPS-3003 Multifunction Print Server w/ 1 or 2 USB Ports

- Share 1 or 2 USB devices on the network and supports print function for most USB printers
- Supports print and scan function for HP multifunction printers
- Provides SMB and FTP file server
- Supports connectivity for standard USB storage devices such as card readers, USB HDDs and flash drives
- Supports SNMP v1/v2c/v3 management protocol
- Supports DHCP client network connection configuration
- Easy to use web based user interface
- Includes a Windows tool for Windows 98SE, ME, 2000, XP and Vista

#### Wired Print Servers Comparison

Model	FPS-1031	FPS-1032	FPS-1033	FUS-3100	FPS-3003
MFP Server	-	-	-		
Parallel Port	1	-	1	-	-
USB Port	-	1	2	1	2
TCP/IP					
NetBEUI		•		-	-
AppleTalk				-	-



#### Wireless Print Servers



#### WPS-1133 54 Mbps Wireless Print Server w/ 2 USB and 1 Parallel Ports

- Provides wireless multi-port print server for sharing network printers and high-speed USB 2.0 interface
- Easy set-up wizard included
- Web based user interface and telnet management
- Supports multiple operating systems and network printing protocols
- Incorporates WEP and WPA-PSK wireless security
- Network Print Protocol supported includes TCP/IP, IPX, NetBEUI, AppleTalk, LPR, SMB over TCP/IP and IPP
- Supports Windows ME/2000/2003/XP, Mac OS 8.1 or higher, UNIX/Linux and Netware



#### WUS-3200 54 Mbps Wireless Multifunction Print Server w/ 2 USB Ports

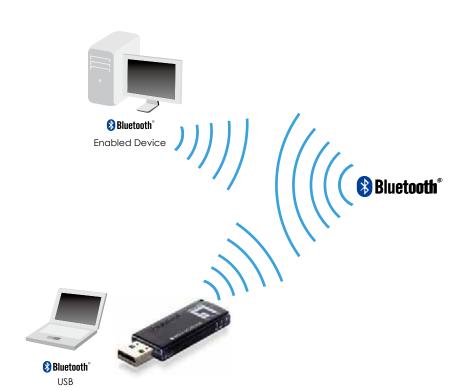
- Share 2 USB enabled MFP printer/USB adapter with the office LAN and share all printer functions of a MFP printer among network users
- Supports WEP encryption and WPA-PSK
- Supports general USB storages such as a USB hard disk, flash drive and card reader
- Supports SMB and built-in FTP file server
- Easy setup through web browser
- Operates on infrastructure and Ad-Hoc modes
- Supports print function for most USB printers

#### Wireless Print Servers Comparison

Model	MFP Server	802.11b/g	Parallel Port	USB Port	WEP	TCP/IP
WPS-1133	-		1	2		
WUS-3200			-	2		

## LevelOne Bluetooth Communication

LevelOne provides a complete suite of Bluetooth accessories for communication over your personal network.



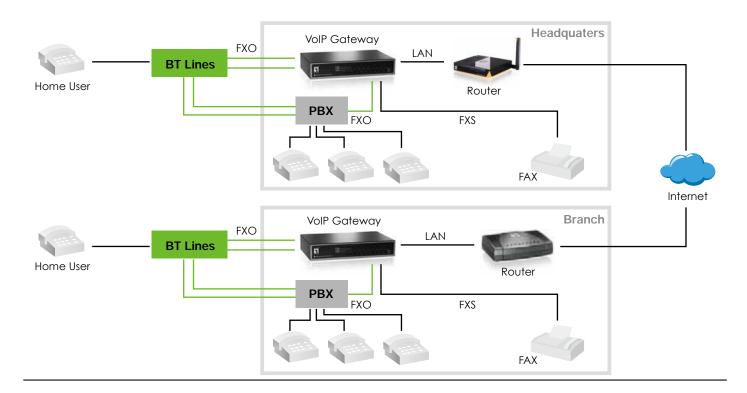


#### MDU-0025USB Bluetooth 2.0 Class 1 USB Adapter

- Bluetooth v1.1/1.2/2.0 Compliant
- Data rate up to 3Mbps
- Connection range up to 100 meters (320ft)
- Allows creating a Bluetooth Personal Area network with other compatible Bluetooth devices
- Provides 128-bit encryption for data transmission
- Easy Installation
- Works with Windows 98SE/ME/2000/XP/Vista

## LevelOne Voice over IP (VoIP) Solutions

VoIP gateways make phone calls over the Internet simple, easy, and affordable. LevelOne VoIP gateways are ideal for home, SOHO, and SMB users that are looking to integrate PSTN (Public Switched Telephone Network) and VoIP telephone features onto the same IP network.



#### **VoIP Gateways**



#### VOI-8001 / VOI-8002 8-Port FXS/FXO H.323/SIP VoIP Gateway

- Provides VoIP solution of 8-port FXS for VOI-8001 or 8-port FXO for VOI-8002
- Connect up to 8 telephones, fax machines or connect to a PBX for a VoIP telephone network
- Register up to 4 SIP (v2) proxy or gatekeepers simultaneously
- A built-in firewall, NAT server, PPPoE and DHCP
- Supports UPnP, DMZ and DynDNS
- Provides Q.93 "Fast Start" for H.323 operation
- QoS for high priority VoIP network traffic
- Carrier tone generation and detection, caller ID, DTMF relay, echo cancellation and comfort noise generation



#### VOI-8003 4-Port FXO + 4-Port FXS VoIP Gateway

- 4 FXO and 4 FXS ports for a complete VoIP solution
- Register up to 4 SIP (v2) proxy or gatekeepers
- A built-in firewall, NAT server, PPPoE and DHCP
- Supports UPnP, DMZ and DynDNS
- Provides Q.93 "Fast Start" for H.323 operation
- QoS for high priority VoIP network traffic
- Carrier tone generation and detection, caller ID, DTMF relay, echo cancellation and comfort noise generation



#### WBR-3470A Wireless 54 Mbps Modem + VoIP Router

- Provides an all-in-one solution for Internet access, Internet calling and wireless Internet sharing
- Provides QoS control for traffic prioritization and bandwidth management
- Supports VPN pass-through and compliant with SIP standard providing toll-quality Internet calls
- Provides robust firewall security for network protection
- DHCP server allocates up to 253 client IP addresses
- Compliant with ADSL2/2+ standards for high-speed Internet access
- Provides support for PSTN connectivity for dual VoIP and traditional telephony operation

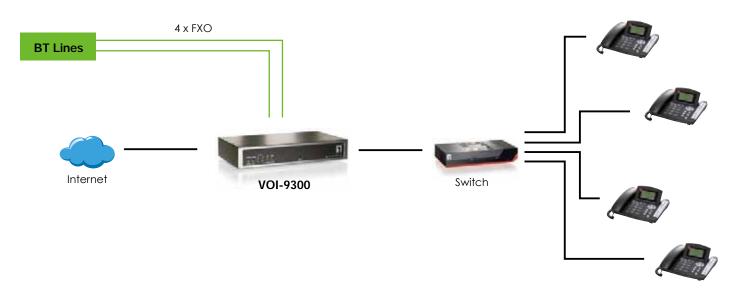
#### **VoIP Solutions Comparison**

Model	10/100 Mbps WAN / LAN Port	FXS / FXO Port	VoIP Protocol	Voice Codec
VOI-8001	1 WAN/3 LAN	8 FXS	SIP v1/ v2; H.323	G .711/G .723.1/G .726/G .729A/B
VOI-8002	1 WAN/3 LAN	8 FXO	SIP v1/ v2; H.323	G .711/G .723.1/G .726/G .729A/B
VOI-8003	1 WAN/3 LAN	4 FXS/4 FXO	SIP v1/ v2; H.323	G .711/G .723.1/G .726/G .729A/B
WBR-3470A	ADSL/4 LAN	2 FXS/1 FXO	SIP v1/ v2	G .711/G .723.1/G .729A/B



### LevelOne VoIP PBX

LevelOne SIP IP PBX is central VoIP Server and management point for deploying a cost-effective IP-based office phone network for either a global virtual office or small-to-medium business companies. The IP PBX combines the intranet data network with an ADSL/Cable connection to make calls over the Internet through PSTN subscription network via 4-FXO ports.



IP Phone up to 100 Extensions

#### **VoIP PBX**



#### VOI-9300 SIP VoIP PBX w/ 4 FXO Ports

- Advanced telephony management
- Supports 100 extensions, 100 voicemail accounts and 30 concurrent calls
- Features a web-calling feature for online interaction and provides call detail record (CDR)
- Provides a VPN server for secured connectivity
- Features powerful interactive voice response system and voice message recording function
- Features FXO ports for additional incoming/outgoing calls via BT lines
- Saving call charge by connect to VoIP service provider for Inbound/Outbound calls

#### **VoIP Phone**



#### VOI-7000 / VOI-7100 SIP VoIP Phone

- Traditional phone for digital use
- User friendly and packed with VoIP, SIP and PoE (VOI-7100) features
- Provides 2 MB flash memory and 8 MB for SDRAM
- Registers up to 3 different telephone numbers
- Enhanced security features of HTTP1.1 authentication for web setup and MD5 for SIP authentication
- Plug-and-play enabled user easy to set-up with keypad



#### VOI-7010 / VOI-7011 SIP VoIP Phone

- Provides IP phone with FXO port for connecting to IP network and PSTN network (VOI-7011)
- SIP compliant with 3 SIP account registration support
- Provides cost effective VoIP phone for home and business use
- Configures traditional office phone features
- IP PBX support for full office phone network setup
- Provides VPN PPTP client support for establish secured VoIP connections
- Provides plug-and-play, easily configured through a web browser, console/ telnet and the keypad
- Supports lightweight single headset with microphone

#### **VoIP Solutions Comparison**

Model	10/100 Mbps WAN / LAN Port	FXS / FXO Port	VoIP Protocol	Voice Codec
VOI-9300	1 WAN/1 LAN	1 FXS/4 FXO	SIP v1/v2	G .711/G .723.1/G .726/G .729A/B
VOI-7000	1 WAN/1 LAN	-	SIP v1/v2	G .711/G .723.1/G .726/G .729A/B
VOI-7100	1 WAN/1 LAN	-	SIP v1/v2	G .711/G .723.1/G .726/G .729A/B
VOI-7010	1 WAN/1 LAN	-	SIP v1/v2	G .711/G .723.1/G .726/G .729A/B
VOI-7011	1 WAN/1 LAN	1 FXO	SIP v1/v2	G .711/G .723.1/G .726/G .729A/B

#### LevelOne Ethernet Switches

Unmanaged Fa	ast Ethernet Switches	Page 04-05
FSW-0508TX	5-Port Fast Ethernet Switch	1 ugc 04 05
FSW-0808TX	8-Port Fast Ethernet Switch	
FSW-0511	5-Port Fast Ethernet Switch	
FSW-0811	8-Port Fast Ethernet Switch	
FSW-2215	5-Port Fast Ethernet Switch	
FSW-2218	8-Port Fast Ethernet Switch	
FSW-2106	5-Port TP + 1-Port SC Fast Ethernet Switch	
FSW-1602TX	16-Port Fast Ethernet Switch	
FSW-1621	16-Port Fast Ethernet Switch	
FSW-2421	24-Port Fast Ethernet Switch	
FSW-1610TX	16-Port Fast Ethernet Switch	
FSW-2410TX	24-Port Fast Ethernet Switch	
FSW-1609TFX	16-Port TP w/ 1 Expansion Slot Fast Ethernet Switch	
FSW-2409TFX	24-Port TP w/ 1 Expansion Slot Fast Ethernet Switch	
Unmanaged Gi	igabit Ethernet Switches	Page 05-07
GSW-0507	5-Port Gigabit Ethernet Switch	
GSW-0807	8-Port Gigabit Ethernet Switch	
GSW-0508	4-Port TP+1-Port SFP Gigabit Ethernet Switch	
GSW-0509	5-Port Gigabit Switch w/ Internal Power	
GSW-0809	8-Port Gigabit Switch w/ Internal Power	
GSW-1603	16-Port Gigabit Switch	
GSW-1621	16-Port TP w/ 1-Port shared SFP Gigabit Ethernet Switch	
GSW-2420	24-Port Gigabit Ethernet Switch	
GSW-1656	16-Port TP w/ 4-Port shared SFP Gigabit Ethernet Switch	
GSW-2456	24-Port TP w/ 4-Port shared SFP Gigabit Ethernet Switch	
GSW-2650	24-Port Fast Ethernet TP + 2-Port Gigabit Combo Switch	
GSW-2453	3-Slot Modularized Combo Gigabit Ethernet Switch	
GSW-1657	16-Port Gigabit Ethernet Switch	
GSW-2457	24-Port Gigabit Ethernet Switch	
GSW-5150	48-Port Fast Ethernet TP + 3-Port Gigabit Ethernet TP/SFP Switch	
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Web Smart Gig	gabit Ethernet Switches	Page 07-08
GSW-0841	8-Port TP w/ 1-Port shared SFP Web Smart Gigabit Ethernet Switch	ch
GSW-1641	16-Port TP w/ 1-Port shared SFP Web Smart Gigabit Ethernet Swi	tch
GSW-2440	24-Port Web Smart Gigabit Ethernet Switch	
GSW-2473	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo Web St	mart Switch
GSW-5270	48-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo and SFP We	b Smart Switch
GSW-1676	16-Port TP w/ 4-Port shared SFP Web Smart Gigabit Ethernet Swi	tch
GSW-2476	24-Port TP w/ 4-Port shared SFP Web Smart Gigabit Ethernet Swi	tch
GSW-4876	48-Port TP w/ 4-Port shared SFP Web Smart Gigabit Ethernet Swi	tch
Managed Gigal	bit Ethernet Switches	Page 08-09
GSW-0890	8-Port TP w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch	
GSW-2690	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNN	
GSW-2494	24-Port TP w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch	
GSW-2474 GSW-2496	8-Port TP + 16-Port SFP L2 SNMP Gigabit Ethernet Switch	
	48-Port TP w/ 4-Port shared SFP L2 SNMP Gigabit Ethernet Switch	h
GSW-4896 GSW-2602	<b>v</b>	
GSW-2692 CSW-2402	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo Stackable L2	SINING SWILLI
GSW-2493	4-Slot Modularized L2 SNMP Combo Switch	
Accessories		Page 10-11

#### LevelOne IP Power Switch

IP Power Switch		Page 12
IPS-0008	8-Port IP Power Switch	

#### LevelOne PoE PD/PSE

PoE Switch	Page 14-16
FSW-0512	5-Port Fast Ethernet PD Switch
FSW-0812	8-Port Fast Ethernet PD Switch
FSW-0809	4-Port PoE + 4-Port TP Fast Ethernet Switch
FSW-0822	4-Port PoE + 4-Port TP Fast Ethernet Switch
IFE-0500	4-Port PoE + 1-Port TP Industrial Fast Ethernet Switch
IFE-0501	4-Port PoE + 1-Port Multi-mode SC fibre Industrial Fast Ethernet Switch
IFE-0502	4-Port PoE + 1-Port Single-mode SC fibre Industrial Fast Ethernet Switch
FSW-1671	16-Port 10/100 Rackmount Smart Switch w/ 8 PoE Ports
GSW-0891	8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo L2 SNMP Switch
GSW-1291	12-Port PoE w/ 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch
GSW-2693	24-Port PoE Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch
PoE Hubs	Page 16
POH-0850TX	8-Port PoE Mid Span Hub
POH-2450	24-Port PoE Mid Span Hub
PoE Kit	Page 16-17
PIS-3000	PoE Combo Kit
POS-1000	PoE Splitter
POI-2000	PoE Injector
PIS-3100	PoE Adapter Combo Kit
POI-4000	High Power PoE Injector, 40 Watt
POS-4000	High Power PoE Splitter 12V
POS-4001	Outdoor High Power PoE Splitter (12V)
PoE Repeater	Page 18
POR-0100	Indoor PoE Repeater
POR-0102	2-Port Indoor PoE Repeater
POR-1100	Outdoor PoE Repeater
POR-1102	2-Port Outdoor PoE Repeater
PoE Rack	Page 18
POI-2100	19-inch 8-slot PSE Rack for PIS-3100
POC-4000	8-Bay High Power PoE Chassis

#### LevelOne Media Converters

Ethernet Media	Converters	Page 19-20
FVT-0103TXFC	10/100BASE-TX to 100BASE-FX Multi-Mode fibre Converter v	v/ PoE (SC)
FVT-0104TXFC	10/100BASE-TX to 100BASE-FX Single-Mode fibre Converter	w/ PoE (SC)
FVT-0203TXFC	10/100BASE-TX to 100BASE-FX Multi-Mode fibre Converter v	v/PoE Injector (SC)
FVT-0204TXFC	10/100BASE-TX to 100BASE-FX Single-Mode fibre Converter	w/PoE Injector (SC)
FVT-6001	10/100BASE-TX to 100BASE-FX fibre Converter w/ TS-1000	Support (SC)
FVT-6301	10/100BASE-TX to 100BASE-FX fibre Converter w/ TS-1000	Support
FVT-4001	10/100BASE-TX to 100BASE-FX Multi-Mode fibre Converter (	SC)
FVT-4301	10/100BASE-TX to 100BASE-FX Single-Mode fibre Converter	(SC)
FVT-4002	10/100BASE-TX to 100BASE-FX Multi-Mode fibre Converter (	ST)
GVT-4000	10/100/1000BASE-TX to 1000BASE-FX Converter (SFP)	

GVT-4001	10/100/1000BASE-TX to Multi-mode 1000BASE-FX Converter (SC)	
Converter Chass	sis	Page 20
FVT-4000	10-Slot Media Converter Chassis w/ Redundant Power Supply	
FVT-5000	16-Slot Managed Converter Chassis w/ Redundant Power Supply	
VDSL2 Media Co	onverters	Page 21
VDS-0200	Ethernet over VDSL2 Converter (Annex A)	
VDS-0202	Ethernet over VDSL2 Converter (BNC)	
<u>VDS-0120</u>	Ethernet over VDSL2 Converter (PSE)	
Accessories		Page 22

#### LevelOne Wireless Bridges/Access Points

WAP-3000 11g 54Mbps Wireless Access Point WAP-3100 11g 54Mbps PoE Wireless Access Point WAP-0005 11g 108Mbps PoE Wireless Access Point WAP-6010 N_Max Wireless Access Point WAP-0007 11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD) WAP-0008 11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD) WAP-3101 Ceiling Mount PoE Wireless Access Point WAP-1001 11b/g 108Mbps Outdoor PoE Wireless Access Point WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna WAB-3002 Wireless 119 Outdoor PoE AP WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	Wireless Bridge	Page 24-26	
WAP-0005 11g 108Mbps PoE Wireless Access Point WAP-0010 N_Max Wireless Access Point WAP-0007 11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD) WAP-0008 11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD) WAP-3101 Ceiling Mount PoE Wireless Access Point WAP-1001 11b/g 108Mbps Outdoor PoE Wireless Access Point WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna WAB-3002 Wireless 119 Outdoor PoE AP WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-3000	11g 54Mbps Wireless Access Point	
WAP-6010  M_Max Wireless Access Point  WAP-0007  11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)  WAP-0008  11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD)  WAP-3101  Ceiling Mount PoE Wireless Access Point  WAP-1001  11b/g 108Mbps Outdoor PoE Wireless Access Point  WAB-3001  Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna  WAB-3002  Wireless 119 Outdoor PoE AP  WAB-7000  Wireless 11a/b/g Outdoor PoE AP  WAB-7400  Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-3100	11g 54Mbps PoE Wireless Access Point	
WAP-0007 11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)  WAP-0008 11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD)  WAP-3101 Ceiling Mount PoE Wireless Access Point  WAP-1001 11b/g 108Mbps Outdoor PoE Wireless Access Point  WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna  WAB-3002 Wireless 119 Outdoor PoE AP  WAB-7000 Wireless 11a/b/g Outdoor PoE AP  WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-0005	11g 108Mbps PoE Wireless Access Point	
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WAP-3101 Ceiling Mount PoE Wireless Access Point WAP-1001 11b/g 108Mbps Outdoor PoE Wireless Access Point WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna WAB-3002 Wireless 119 Outdoor PoE AP WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-0007	11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)	
WAP-1001 11b/g 108Mbps Outdoor PoE Wireless Access Point WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna WAB-3002 Wireless 119 Outdoor PoE AP WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-0008	11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD)	
WAB-3001 Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna WAB-3002 Wireless 119 Outdoor PoE AP WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-3101	Ceiling Mount PoE Wireless Access Point	
WAB-3002 Wireless 119 Outdoor PoE AP  WAB-7000 Wireless 11a/b/g Outdoor PoE AP  WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAP-1001	11b/g 108Mbps Outdoor PoE Wireless Access Point	
WAB-7000 Wireless 11a/b/g Outdoor PoE AP WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAB-3001	Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna	
WAB-7400 Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	WAB-3002	Wireless 119 Outdoor PoE AP	
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WAN-1112	12dBi Directional Patch Indoor/Outdoor Antenna Kit	
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WCS-2010	Wireless Pan/Tilt/Zoom Network Camera
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FCS-4000	Day/Night P/T/Z Speed Dome Network Camera (18x Optical zoom)
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