

Product Catalog

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Networking
Security
Digital Signage



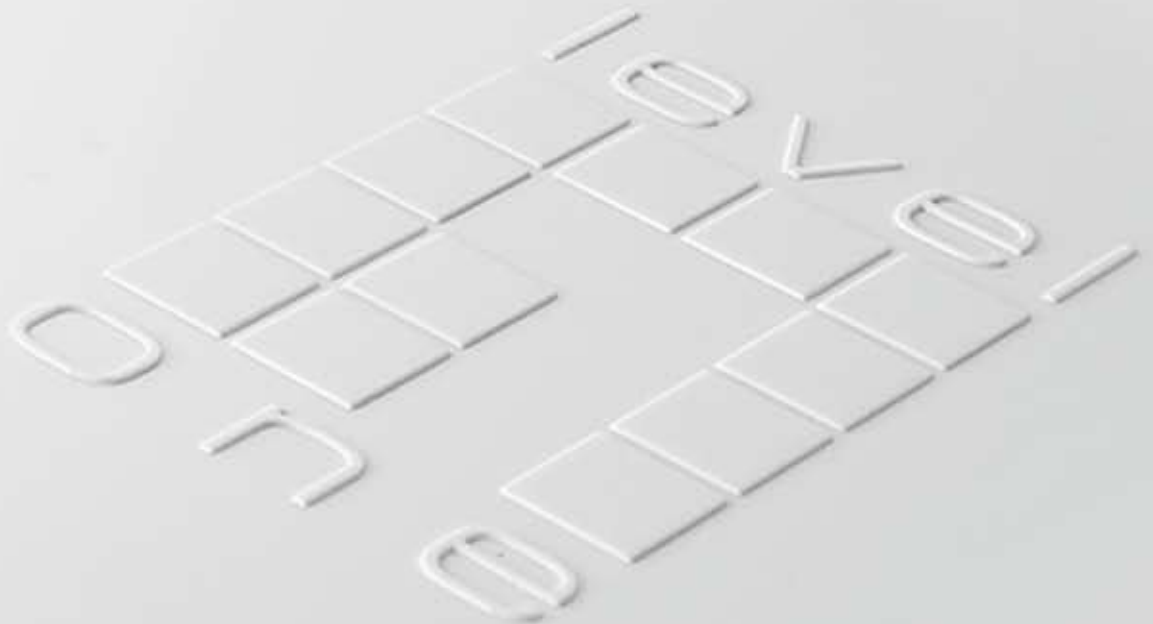


LevelOne was established in 1998 by Digital Data Communications GmbH, Dortmund, Germany. By providing quality networking products and solutions, we've grown steadily throughout the years with Branch Offices in 18 countries around the world.

The Internet has become a deeply integral part of both business and home life. Our years of experience have taught us that the only way to stay on top of the latest technology and trends is by listening carefully to what the customer says.

DDC was established in 1991 and is headquartered in Germany, and also maintains branches in Taiwan, Australia, Belgium, Brasil, Colombia, Denmark, Greece, Italy, Kenya, the Netherlands, Portugal, Slovenia, Spain, U.A.E. We are currently achieving year-on-year increase in turn-over. Our Production, Development, Distribution and Logistic Centers are growing in number and setting new quality standards throughout the world with powerful and recognizable brand names.

Please take a look through this catalog and if you have any question or inquiries you can contact us at **sales@level1.com**



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Commercial

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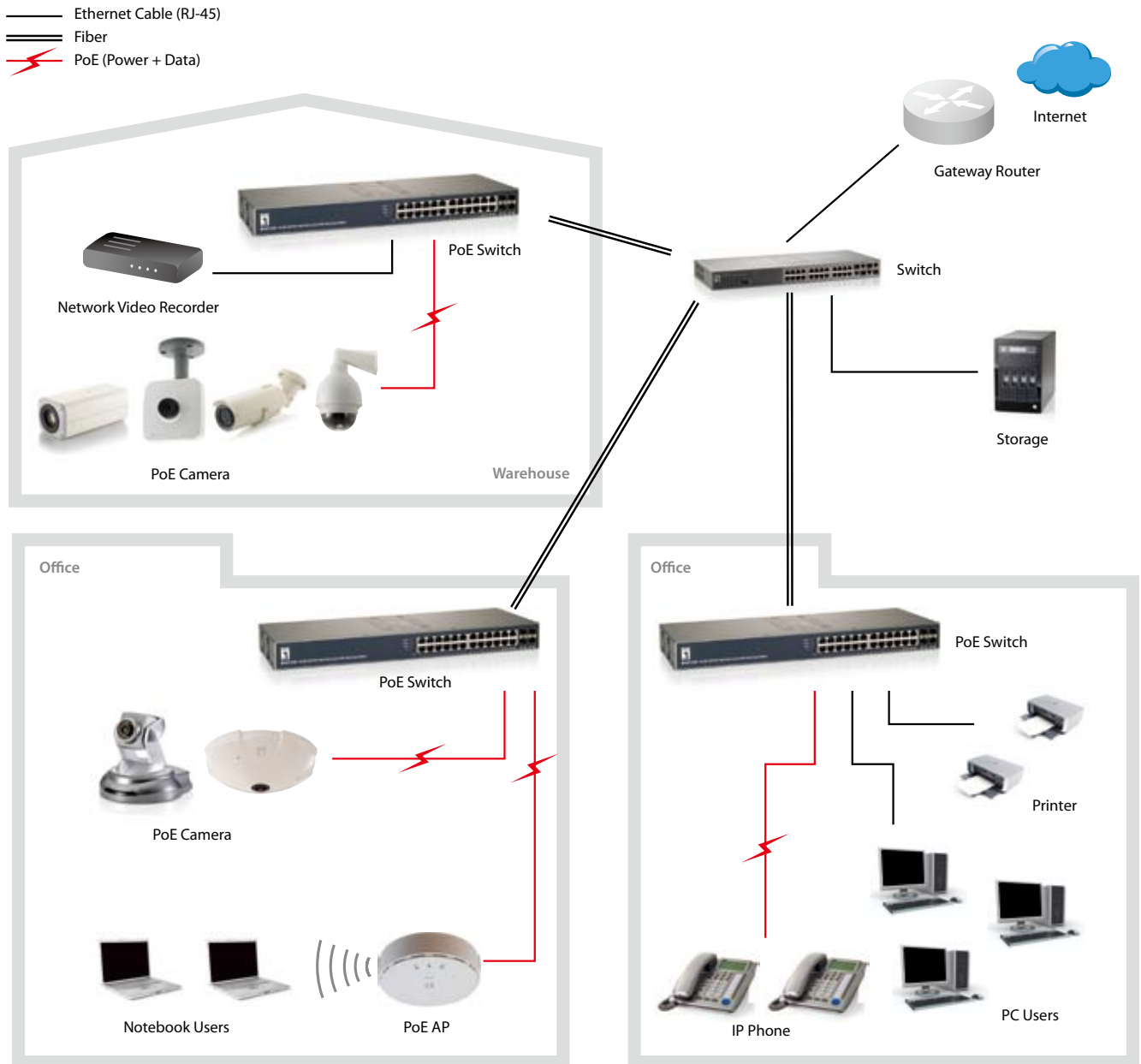
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PoE Switch can be seen as a combination of a non-PoE Switch and mid-span hub combined into one device. PoE switch can provide power directly to PoE Devices. For enterprise usage, Web Smart and SNMP L2 switches offer a Web-based User Interfaces to configure advanced settings such as VLAN, Port Trunking, Port Mirror, Quality of Service and more. Managed PoE switches, includes the capability to alert and help administrators by featuring auto-warning messages, to easily locate any problematic devices

Unmanaged PoE Ethernet Switch



Unmanaged PoE Ethernet Switch



FSW-0503 FSW-0503Z*
FSW-0503W90
 5-Port Fast Ethernet PoE Switch, 802.3af PoE,
 4 PoE Outputs



FSW-0513/FSW-0513Z*
 5-Port Fast Ethernet PoE Switch, 4 PoE Outputs,
 120W



FEP-0511 FEP-0511W90
FEP-0511W120
 5-Port Fast Ethernet PoE Switch, 802.3at PoE+,
 4 PoE Outputs



FEP-0800 FEP-0800W65
FEP-0800W120
 8-Port Fast Ethernet PoE Switch

Unmanaged PoE Ethernet Switch Comparison				
Model	FSW-0503 Series	FSW-0513 Series	FEP-0511 Series	FEP-0800 Series
RJ45 Port	1 x 10/100Mbps	1 x 10/100Mbps	-	-
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	5 x 10/100Mbps	8 x 10/100Mbps
Fiber Port	-	-	-	-
MAC Table	1K	1K	1K	1K
Buffer Memory	48KB	48KB	48KB	64KB
Jumbo Frame	-	-	9K	-
PoE Power Budget	61.6W/61.6W/90W	120W/120W	65W/90W/120W	85W/65W/120W
Max. PoE Power Per Port	15.4W	52W	30W	30W
Power Supply	External	External	Internal	External
Optional Accessories	POC-4002: 8-Bay Chassis, 500W POC-6000: 8-Bay Chassis, 1000W	POC-4002: 8-Bay Chassis, 500W POC-6000: 8-Bay Chassis, 1000W POS-4000: 12V DC High Power PoE Splitter POS-4001: 12V DC High Power Outdoor PoE Splitter POS-4002: 24V AC High Power PoE Splitter	-	-

* FSW-0503Z/FSW-0513Z: Power adapter not included



FEP-0812 FEP-0812W90
FEP-0812W120
 8-Port Fast Ethernet PoE Switch, 802.3at PoE+,
 4 PoE Outputs



FEP-0811/FEP-0811W250
 8-Port Fast Ethernet PoE Switch, 802.3at PoE+



FEP-1611
 16-Port Fast Ethernet PoE Switch, 240W, 802.3at PoE+



FEP-1600/FEP-1600W90
 16-Port Fast Ethernet PoE Switch



FEP-1601 FEP-1601W120
FEP-1601W150 FEP-1601W380
 16-Port Fast Ethernet PoE Switch



FEP-1612 FEP-1612W380
FEP-1612W150 FEP-1612W120
 16-Port Fast Ethernet PoE Switch, 802.3at PoE+

Unmanaged PoE Ethernet Switch Comparison						
Model	FEP-0812 Series	FEP-0811 Series	FEP-1611	FEP-1600 Series	FEP-1601 Series	FEP-1612 Series
RJ45 Port	4 x 10/100Mbps	-	-	-	-	-
RJ45 PoE Port	4 x 10/100Mbps	8 x 10/100Mbps	16 x 10/100Mbps	16 x 10/100Mbps	16 x 10/100Mbps	16 x 10/100Mbps
Fiber Port	-	-	-	-	-	-
MAC Table	1K	1K	4K	4K	4K	4K
Buffer Memory	64KB	64KB	160KB	160KB	160KB	160KB
Jumbo Frame	-	9K	-	-	-	-
PoE Power Budget	65W/90W/120W	123.2W/250W	240W	115W/90W	250W/120W/150W/380W	480W/380W/150W/120W
Max. PoE Power Per Port	30W	30W	30W	30W	30W	30W
Power Supply	Internal	Internal	Internal	External	Internal	Internal
Optional Accessories	-	-	-	-	-	-

Unmanaged PoE Ethernet Switch

NEW



FEP-2401W150 FEP-2401W250 FEP-2401W380
FEP-2401W500 FEP-2401W630
24-Port Fast Ethernet PoE Switch, 802.3at PoE+

NEW



FEP-2402W150 FEP-2402W250 FEP-2402W380
FEP-2402W500 FEP-2402W630
24-Port Fast Ethernet PoE Switch, 802.3at PoE+



FGP-1000 FGP-1000W90
FGP-1000W65
10-Port Fast Ethernet PoE Switch, 1 x Gigabit RJ45, 1 x Gigabit SFP, 9 PoE Outputs



FGP-2410
26-Port Fast Ethernet PoE Switch, 2 x Gigabit SFP/RJ45 Combo, 802.3at PoE+, 24 PoE Outputs, 240W



FGP-2412 FGP-2412W380
FGP-2412W630 FGP-2412W150
26-Port Fast Ethernet PoE Switch, 2 x Gigabit SFP/RJ45 Combo, 802.3at PoE+, 24 PoE Outputs



GEP-0522
5-Port Gigabit PoE Switch, 65W, 802.3at PoE+, 4 PoE Outputs

Unmanaged PoE Ethernet Switch Comparison						
Model	FEP-2401 Series	FEP-2402 Series	FGP-1000 Series	FGP-2410	FGP-2412 Series	GEP-0522
RJ45 Port	-	-	-	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps	1 x 10/100/1000Mbps
RJ45 PoE Port	24 x 10/100/1000Mbps	24 x 10/100/1000Mbps	8 x 10/100Mbps 1 x 10/100/1000Mbps	24 x 10/100Mbps	24 x 10/100Mbps	4 x 10/100/1000Mbps
Fiber Port	-	-	1 x 100/1000BASE-X SFP	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP	-
MAC Table	8K	8K	4K	4K	4K	2K
Buffer Memory	4.1M	4.1M	512KB	352KB	352KB	128KB
Jumbo Frame	10K	10K	-	-	-	9K
PoE Power Budget	150W/250W/380W/500W/630W	150W/250W/380W/500W/630W	115W/90W/65W	240W	480W/380W/630W/150W	65W
Max. PoE Power Per Port	30W	30W	30W	30W	30W	30W
Power Supply	Internal	Internal	External	Internal	Internal	Internal
Optional Accessories	-	-	-	-	-	-



GEP-0812 GEP-0812W90
GEP-0812W120
8-Port Gigabit PoE Switch, 802.3at PoE+, 4 PoE Outputs



GEP-0822
8-Port Gigabit PoE Switch, 802.3at PoE+, 240W



GEP-0820 GEP-0820W90
GEP-0820W120
8-Port Gigabit PoE Switch, 802.3at PoE+



GEP-0821
8-Port Gigabit PoE Switch, 802.3at PoE+, 123.2W



GEP-1020
10-Port Gigabit PoE Switch, 802.3at PoE+, 2 x SFP, 8 PoE Outputs, 150W



GEP-1021
10-Port Gigabit PoE Switch, 802.3at PoE+, 2 x SFP, 8 PoE Outputs, 250W

Unmanaged PoE Ethernet Switch Comparison						
Model	GEP-0812 Series	GEP-0822	GEP-0820 Series	GEP-0821	GEP-1020	GEP-1021
RJ45 Port	4 x 10/100/1000Mbps	-	-	-	-	-
RJ45 PoE Port	4 x 10/100/1000Mbps	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps
Fiber Port	-	-	-	-	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP
MAC Table	8K	8K	8K	8K	8K	8K
Buffer Memory	128KB	128KB	128KB	128KB	512KB	512KB
Jumbo Frame	9K	9K	9K	9K	9K	9K
PoE Power Budget	61.6W/90W/120W	240W	61.6W/90W/120W	123.2W	150W	250W
Max. PoE Power Per Port	30W	30W	30W	30W	30W	30W
Power Supply	Internal	Internal	External	Internal	Internal	Internal
Optional Accessories	-	-	-	-	-	-

Unmanaged PoE Ethernet Switch



GEP-1621 GEP-1621W380
 GEP-1621W150 GEP-1621W120
 16-Port Gigabit PoE Switch, 802.3at PoE+



GEP-1622
 16-Port Gigabit PoE Switch, 802.3at PoE+, 480W



NEW

GEP-2421W150 GEP-2421W250
 GEP-2421W380 GEP-2421W500
 GEP-2421W630
 24-Port Gigabit PoE Switch, 802.3at PoE+

NEW



GEP-2622W150 GEP-2622W250
 GEP-2622W380 GEP-2622W500
 GEP-2622W630
 26-Port Gigabit PoE Switch, 802.3at PoE+, 2 x SFP, 24 PoE Output

Unmanaged PoE Ethernet Switch Comparison				
Model	GEP-1621 Series	GEP-1622	GEP-2421 Series	GEP-2622 Series
RJ45 Port	-	-	-	-
RJ45 PoE Port	16 x 10/100/1000Mbps	16 x 10/100/1000Mbps	24 x 10/100/1000Mbps	24 x 10/100/1000Mbps
Fiber Port	-	-	-	2 x 1000BASE-X SFP
MAC Table	8K	8K	8K	8K
Buffer Memory	256KB	256KB	4.1Mb	4.1Mb
Jumbo Frame	9K	9K	10K	10K
PoE Power Budget	240W/380W/150W/120W	480W	150W/250W/380W/500W/630W	150W/250W/380W/500W/630W
Max. PoE Power Per Port	30W	30W	30W	30W
Power Supply	Internal	Internal	Internal	Internal
Optional Accessories	-	-	-	-

Managed PoE Ethernet Switch



GEP-1061
10-Port L2 Managed Gigabit PoE Switch, 2 x SFP, 802.3at PoE+, 125W



GEP-1070
10-Port L2 Managed Gigabit PoE Switch, 802.3at PoE+, 2 x SFP, 120W



NEW

GEP-2651
26-Port Web Smart Gigabit PoE Switch, 24 PoE Outputs, 2 x SFP/RJ45 Combo, 185W

Managed PoE Ethernet Switch Comparison			
Model	GEP-1061	GEP-1070	GEP-2651
RJ45 Port	-	-	2 x 10/100/1000Mbps
RJ45 PoE Port	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps	24 x 10/100/1000Mbps
Fiber Port	2 x 100/1000BASE-X SFP	2 x 100/1000BASE-X SFP	2 x 1000BASE-X SFP
MAC Table	8K	8K	8K
Buffer Memory	4.1Mbit	4Mbit	512KB
Jumbo Frame	10k	9k	9.6k
Port Trunking	IEEE 802.3ad LACP	IEEE 802.3ad LACP	IEEE 802.3ad LACP
Management	SNMP/Web/Console/Telnet/ RMON	SNMP/HTTP/HTTPS/Telnet/SSH/ RMON	SNMP/Web/RMON/LLDP
VLAN	Port-/Mac-/802.1Q tag-based	MAC-/Protocol-/802.1Q Tag-based VLAN, private VLAN, voice VLAN	Port-/802.1Q tag-/MAC-based
IGMP Snooping	V1/V2/V3	V1/V2/V3	V1/V2/V3
Spanning Tree	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s
Stacking	-	-	-
PoE Power Budget	125W	120W	185W
Max. PoE Power Per Port	30W	30W	30W
Power Supply	Internal	Internal	Internal

Managed PoE Ethernet Switch



GEP-2681
26-Port L3 Lite Managed Gigabit PoE Switch, 24 PoE Outputs, 185W, 2 x SFP/RJ45 Combo



GEP-2682
26-Port L3 Lite Managed Gigabit PoE Switch, 24 PoE Outputs, 370W, 2 x SFP/RJ45 Combo

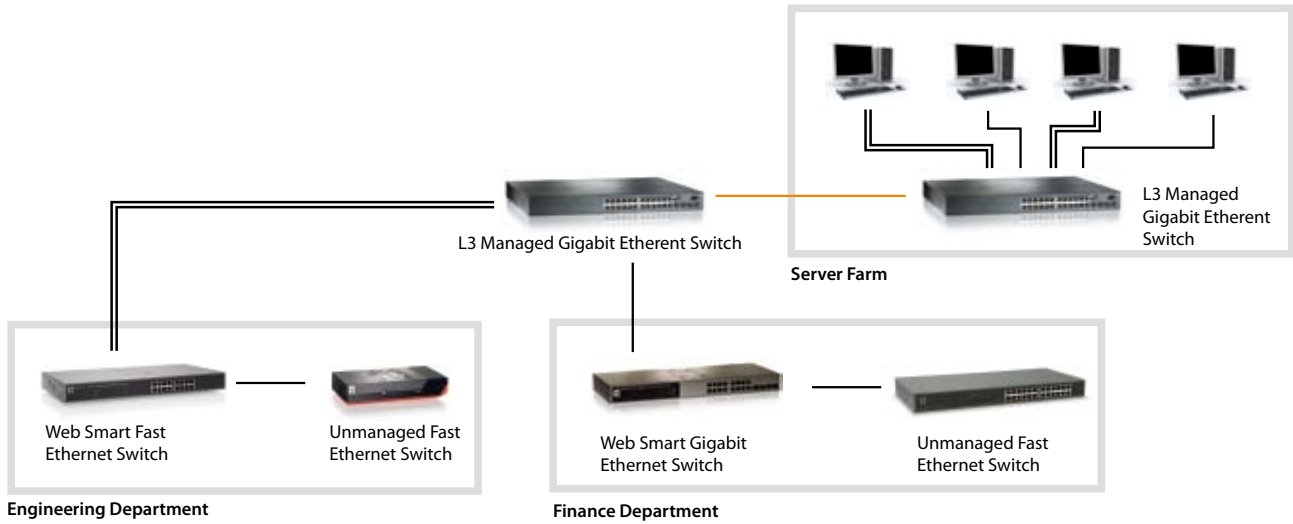


GTP-2881
28-Port L3 Lite Managed Gigabit PoE Switch, 24 PoE Outputs, 185W, 4 x 10GbESFP+

Managed PoE Ethernet Switch Comparison			
Model	GEP-2681	GEP-2682	GTP-2881
RJ45 Port	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps	-
RJ45 PoE Port	24 x 10/100/1000Mbps	24 x 10/100/1000Mbps	24 x 10/100/1000Mbps
Fiber Port	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP	4 x 10GbE SFP+
MAC Table	8K	8K	32K
Buffer Memory	512KB	512KB	4MB
Jumbo Frame	9.6K	9.6K	10K
Port Trunking	IEEE 802.3ad LACP	IEEE 802.3ad LACP	IEEE 802.3ad LACP
Management	SNMP/Web/SSH/Telnet/RMON/LLDP/Console	SNMP/Web/SSH/Telnet/RMON/LLDP/Console	SNMP/Web/SSH/Telnet/RMON/LLDP/Console
VLAN	Port-/802.1Q tag-/MAC-based, GVRP	Port-/802.1Q tag-/MAC-based, GVRP	Port-/802.1Q tag-/MAC-based, GVRP
IGMP Snooping	V1/V2/V3	V1/V2/V3	V1/V2/V3
Spanning Tree	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s
Stacking	-	-	-
Routing	Static	Static	Static
PoE Power Budget	185W	370W	185W
Max. PoE Power Per Port	30W	30W	30W
Power Supply	Internal	Internal	Internal

LevelOne offers a comprehensive selection of Ethernet switches. From unmanaged switches with simple Plug and Play installation, to L3 managed switches following the most advanced standards set by the IEEE, we provide the right switch for you

- Ethernet Cable (RJ-45)
- == Fiber
- Stacking Cable



Unmanaged Non-PoE Ethernet Switch



FEU-0511
5-Port Fast Ethernet Switch, 1 x SC Multi-Mode Fiber



GEU-0521
5-Port Gigabit Switch



GSW-0809
8-Port Gigabit Switch

Unmanaged Non-PoE Ethernet Switch Comparison			
Model	FEU-0511	GEU-0521	GSW-0809
RJ45 Port	4 x 10/100/1000Mbps	4 x 10/100/1000Mbps	8 x 10/100/1000Mbps
Fiber Port	1 x 100BASE-FX Multi-Mode SC (2km)	1 x 1000BASE-X SFP	-
Expansion Slot	-	-	-
MAC Table	1K	4K	8K
Buffer Memory	384KB	1Mbit	1Mbit
Jumbo Frame	1536 bytes	9K	9K
Power Supply	External	External	Internal

Unmanaged Non-PoE Ethernet Switch



FSW-1650
16-Port Fast Ethernet Switch



FSW-2450
24-Port Fast Ethernet Switch



GSW-1657
16-Port Gigabit Switch



GSW-2457
24-Port Gigabit Switch

Unmanaged Non-PoE Ethernet Switch Comparison				
Model	FSW-1650	FSW-2450	GSW-1657	GSW-2457
RJ45 Port	16 x 10/100Mbps	24 x 10/100Mbps	16 x 10/100/1000Mbps	24 x 10/100/1000Mbps
Fiber Port	-	-	-	-
Expansion Slot	-	-	-	-
MAC Table	8K	8K	9K	9K
Buffer Memory	2MB	2MB	2MB	4.1MB
Jumbo Frame	2K	2K	10K	10K
Power Supply	Internal	Internal	Internal	Internal
Optional Accessories	-	-	-	-



FGU-5021
50-Port Fast Ethernet Switch, 2 x Gigabit SFP/RJ45 Combo



GEU-0822
8-Port Gigabit Switch



GEU-1621
16-Port Gigabit Switch



GEU-2429
26-Port Gigabit Switch, 2 x SFP

Unmanaged Non-PoE Ethernet Switch Comparison				
Model	FGU-5021	GEU-0822	GEU-1621	GEU-2429
RJ45 Port	48 x 10/100Mbps 2 x 10/100/1000Mbps	8 x 10/100/1000Mbps	16 x 10/100/1000Mbps	24 x 10/100/1000Mbps
Fiber Port	2 x 1000BASE-X SFP	-	-	2 x 1000BASE-X SFP
Expansion Slot	-	-	-	-
MAC Table	8K	8K	8K	8K
Buffer Memory	4Mbit	1Mbit	2Mbit	4.1Mbit
Jumbo Frame	9K	9K	9K	9K
Power Supply	Internal	External	Internal	Internal
Optional Accessories	-	-	-	-

Non-PoE Ethernet Switch

Managed Non-PoE Ethernet Switch



GES-2451
26-Port Web Smart Gigabit Switch, 2 x SFP



FGS-2800
28-Port Web Smart Fast Ethernet Switch,
2 x Gigabit SFP/RJ45 Combo, 2 x Gigabit RJ45



GEL-2861
28-Port L2 Managed Gigabit Switch, 4 x SFP



GEL-1061
10-Port L2 Managed Gigabit Switch, 2 x SFP



GEL-5261
52-Port L2 Managed Gigabit Switch, 4 x SFP

NEW

Managed Non-PoE Ethernet Switch Comparison					
Model	GES-2451	FGS-2800	GEL-2861	GEL-1061	GEL-5261
RJ45 Port	24 x 10/100/1000Mbps	4 x 10/100/1000Mbps 24 x 10/100Mbps	24 x 10/100/1000Mbps	8 x 10/100/1000Mbps	48 x 10/100/1000Mbps
Fiber Port	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP	4 x 100/1000BASE-X SFP	2 x 100/1000BASE-X SFP	4 x 100/1000BASE-X SFP
Expansion Slot	-	-	-	-	-
MAC Table	8K	16K	8K	8K	16K
Buffer Memory	4.1Mbit	2560KB	4.1Mbit	4.1Mbit	12Mbit
Port Trunking	IEEE 802.3ad LACP	-	IEEE 802.3ad LACP	802.3ad LACP	802.3ad LACP
Jumbo Frame	10K	10K	10K	10K	10K
Management	Console/Web/Telnet/SNMP/ RMON	SNMP/RMON	Console/Web/Telnet/SNMP/ RMON	Console/Web/Telnet/SNMP/ RMON	Console/Web/Telnet/SNMP/ RMON
VLAN	802.1Q	Port-/802.1Q Tag-based	Port-/Mac-/802.1Q Tag- Based	Port-/Mac-/802.1Q tag- based	Port-/Mac-/802.1Q tag- based
IGMP Snooping	V1 /V2 /V3	V1 /V2	V1/V2/V3	V1 / V2 / V3	V1 / V2 / V3
Spanning Tree	IEEE 802.1d	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s
Stacking	-	-	-	-	-
Power Supply	Internal	Internal	Internal	Internal	Internal
Optional Accessories	-	-	-	-	-



GEL-2681
26-Port L3 Lite Managed Gigabit Switch, 2 x SFP/RJ45 Combo



GTL-2881
28-Port Stackable L3 Lite Managed Gigabit Switch, 2 x 10GbE SFP+, 1 x 10GbE Module Slot



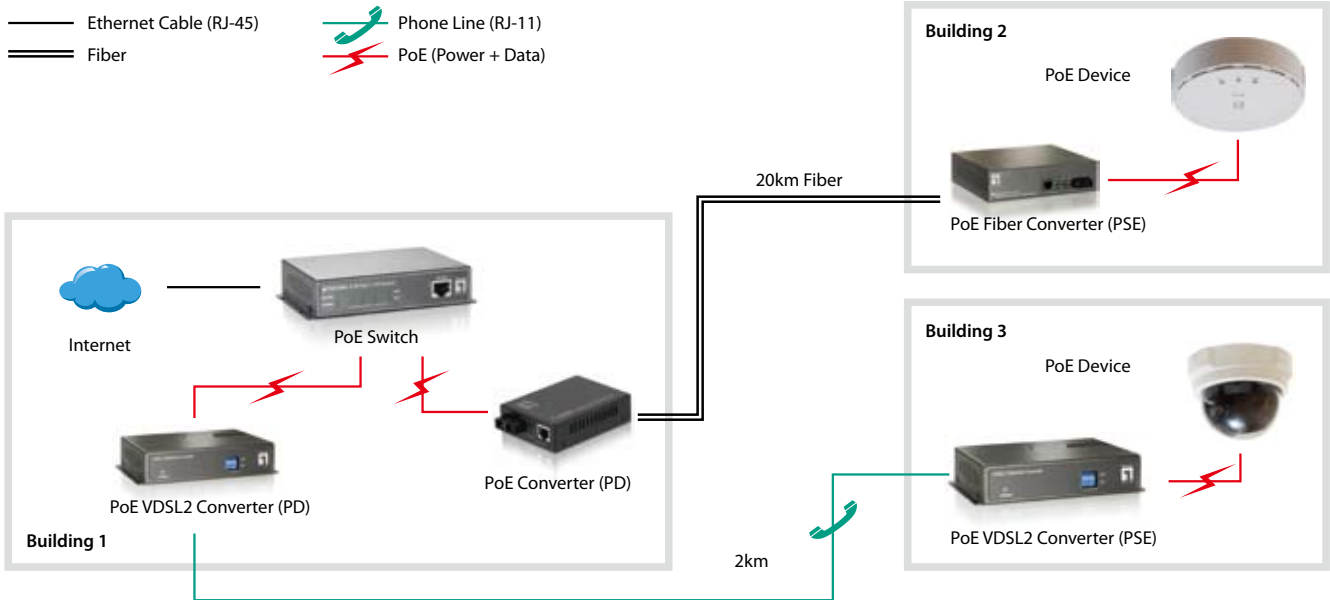
GTL-2882
28-Port Stackable L3 Lite Managed Gigabit Fiber Switch, 2 x Gigabit SFP/RJ45 Combo, 2 x 10GbE SFP+, 1 x 10GbE Module Slot



GTL-2891
28-Port Stackable L3 Managed Gigabit Switch, 2 x 10GbE SFP+, 1 x 10GbE Module Slot

Managed Non-PoE Ethernet Switch Comparison				
Model	GEL-2681	GTL-2881	GTL-2882	GTL-2891
RJ45 Port	26 x 10/100/1000Mbps	24 x 10/100/1000Mbps	2 x 10/100/1000Mbps Combo Ports	24 x 10/100/1000Mbps
Fiber Port	2 X 1000 BASE-X SFP	2 x 10GbE SFP+	24 x 1000BASE-X SFP 2 x 10GbE SFP+	2 x 10GbE SFP+
Expansion Slot	-	1 x 10GbE Module Slot	1 x 10GbE Module Slot	1 x 10GbE Module Slot
MAC Table	8K	16K	16K	16K
Buffer Memory	512KB	1.5Mb	1.5Mb	1.5Mb
Port Trunking	IEEE 802.3ad LACP	IEEE 802.3ad LACP	IEEE 802.3ad LACP	IEEE 802.3ad LACP
Jumbo Frame	9.6K	10K	10K	10K
Management	SNMP/Web/Telnet/SSH/RMON	SNMP/Telnet/Console/RMON/Web-Based/LLDP/DNS	SNMP/Telnet/Console/RMON/Web-Based/LLDP/DNS	SNMP/Telnet/Console/RMON/Web-Based/LLDP/DNS
VLAN	Port-/802.1Q tag-/MAC-based, GVRP	Port-/IEEE 802.1v Protocol-based 802.1Q Tag-based, GVRP/GARP	Port-/IEEE 802.1v Protocol-based 802.1Q Tag-based, GVRP/GARP	Port-/IEEE 802.1v Protocol-based 802.1Q Tag-based, GVRP/GARP
IGMP Snooping	V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3
Spanning Tree	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s	IEEE 802.1d/w/s
Stacking	-	Hardware Stacking	Hardware Stacking	Hardware Stacking
Routing	Static	Static	Static	Static/ECMP/RIPng/OSPF/BGPv4/PIM-DM/PIM-DM6
Power Supply	Internal	Internal	Internal	Internal
Optional Accessories	-	MDU-0211 2-Port 10GbE SFP+Module	MDU-0211 2-Port 10GbE SFP+Module	MDU-0211 2-Port 10GbE SFP+Module

LevelOne has unique solutions to convert Ethernet data. Our Media converters follow all the IEEE standards and reliably easy to install solutions that connect individual network over long distances. With built-in PoE functionality, users are capable to build deployments that aren't limited by power outlets or extension cords. And our newest VDSL2 converters are innovative industry leaders. LevelOne offer 300+ meters over traditional RJ-11 phone wiring, which beats the normal 100 meter runs of Cat.5 cables.



Managed Media Converter



FVM-1000
RJ45 to SFP Managed Fast Ethernet Media Converter



FVM-1101
RJ45 to SC Managed Fast Ethernet Media Converter, Multi-Mode Fiber



FVM-1220
RJ45 to SC Managed Fast Ethernet Media Converter, Single-Mode Fiber, 20km



GVM-1000
RJ45 to SFP Managed Gigabit Media Converter



GVM-1101
RJ45 to SC Managed Gigabit Media Converter, Multi-Mode Fiber



GVM-1220
RJ45 to SC Managed Gigabit Media Converter, Single-Mode Fiber, 20km

Managed Media Converter Comparison						
Model	FVM-1000	FVM-1101	FVM-1220	GVM-1000	GVM-1101	GVM-1220
Media Conversion	RJ45 to SFP	RJ45 to MMF SC	RJ45 to SMF SC	RJ45 to SFP	RJ45 to MMF SC	RJ45 to SMF SC
Data Rate	100Mbps	100Mbps	100Mbps	1000Mbps	1000Mbps	1000Mbps
Operating Distance	Depends on transceiver	2km	20km	Depends on transceiver	2km	20km
Dip Switches	-	-	-	-	-	-
Optional Accessories	-	-	-	-	-	-

Ethernet Media Converters



FVT-0103TXFC
RJ45 to SC Fast Ethernet Media Converter,
Multi-Mode Fiber, 2km, PoE PD



FVT-0104TXFC
RJ45 to SC Fast Ethernet Media Converter,
Single-Mode Fiber, 20km, PoE PD



FVT-0203TXFC
RJ45 to SC Fast Ethernet Media Converter,
Multi-Mode Fiber, 1 PoE Output, 802.3af PoE



FVT-0204TXFC
RJ45 to SC Fast Ethernet Media Converter, 1 PoE
Output, 802.3af PoE, Single-Mode Fiber, 20km



FVT-2001
RJ45 to SC Fast Ethernet Media Converter,
Multi-Mode Fiber, 2km



FVT-2201
RJ45 to SC Fast Ethernet Media
Converter, Single-Mode Fiber, 20km

Ethernet Media Converter Comparison						
Model	FVT-0103TXFC	FVT-0104TXFC	FVT-0203TXFC	FVT-0204TXFC	FVT-2001	FVT-2201
Media Conversion	RJ-45 to MMF SC	RJ-45 to SMF SC	RJ-45 to MMF SC	RJ-45 to SMF SC	RJ-45 to MMF	RJ-45 to SMF SC
Data Rate	100Mbps	100Mbps	100Mbps	100Mbps	100Mbps	100Mbps
Operating Distance	2km	20km	2km	20km	2km	20km
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	-	-
PoE Power Budget	-	-	15.4W	15.4W	-	-
Power Supply	External/PoE	External/PoE	External	External	External	External
Dip Switches	V	V	V	V	V	V
Optional Accessories	CVH-3000: 12-Slot Media Converter Chassis		-	-	CVH-2000: 14-Slot Media Converter Chassis with Redundant Power Supply	



NEW

FVT-2202
RJ45 to SC BIDI Fast Ethernet Media Converter Set,
Single-Mode Fiber, 20km



FVT-2401
RJ45 to SC Fast Ethernet Media Converter,
Single-Mode Fiber, 40km



FVT-2002
RJ45 to ST Fast Ethernet Media Converter,
Multi-Mode Fiber, 2km



NEW

GVT-2000
RJ45 to SFP Gigabit Media Converter



GVT-2001
RJ45 to SC Gigabit Media Converter, Multi-Mode Fiber,
550m

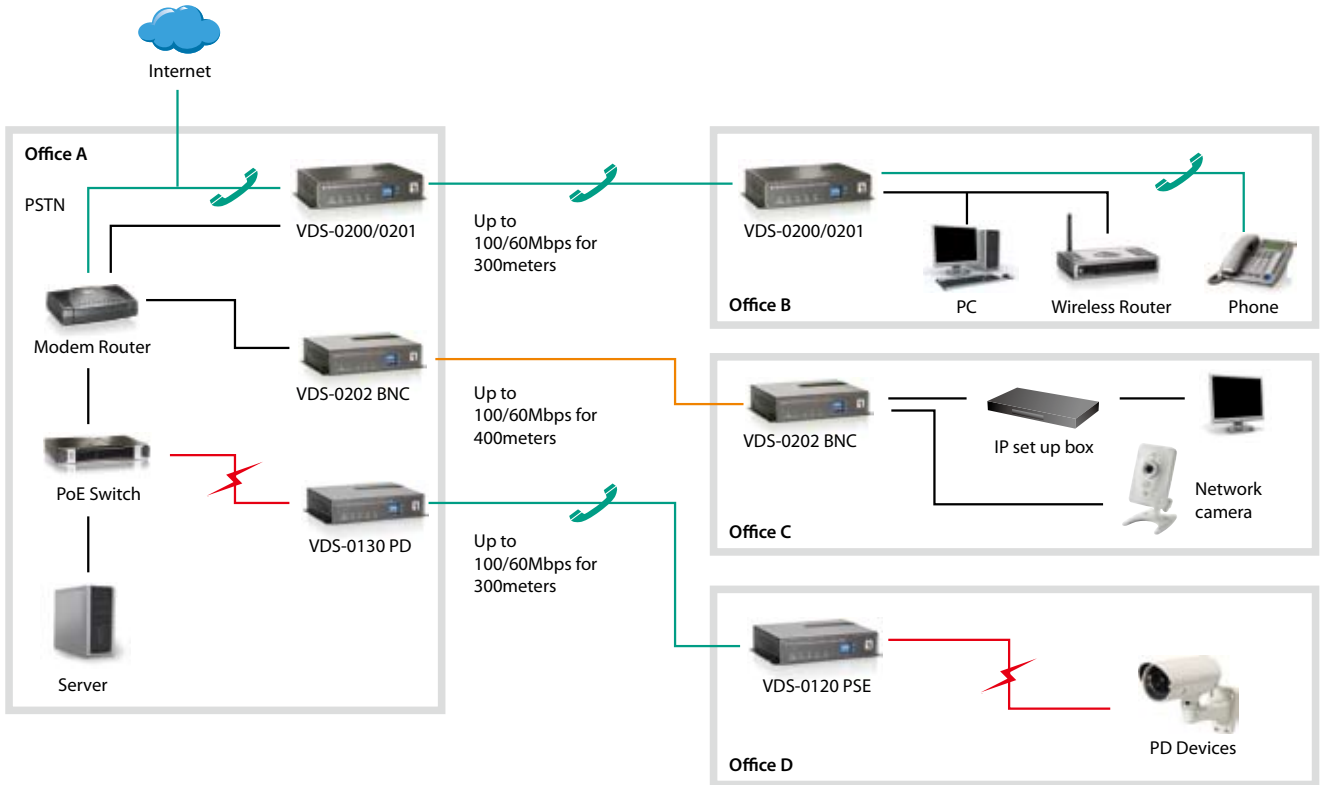


GVT-2010
RJ45 to SFP Gigabit Media Converter, PoE PD

Ethernet Media Converter Comparison						
Model	FVT-2202	FVT-2401	FVT-2002	GVT-2000	GVT-2001	GVT-2010
Media Conversion	RJ-45 to SMF SC	RJ-45 to SMF SC	RJ-45 to MMF ST	RJ-45 to SFP	RJ-45 to MMF SC	RJ45 to SFP
Data Rate	100Mbps	100Mbps	100Mbps	1000Mbps	1000Mbps	1000Mbps
Operating Distance	20km	40km	2km	Depends on transceiver	550m	Depends on transceiver
PoE	-	-	-	-	-	IEEE 802.3af/at
PoE Power Budget	-	-	-	-	-	-
Power Supply	External	External	External	External	External	External/PoE
Dip Switches	V	V	V	V	V	-
Optional Accessories	CVH-2000: 14-Slot Media Converter Chassis with Redundant Power Supply					

Ethernet to VDSL2 Converter

- Ethernet Cable (RJ-45)
- Phone Line (RJ-11)
- PoE
- BNC



Key Features

- 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
- Supports Line Powered VDSL2 connection

N/A in AU



VDS-0200
Ethernet over VDSL2 Converter (Annex A)



VDS-0201
Ethernet over VDSL2 Converter (Annex B)



VDS-0202
Ethernet over VDSL2 Converter (BNC Connection)



VDS-0120
Ethernet over VDSL2 Converter (PSE)



VDS-0130
Ethernet over VDSL2 Converter (PD)



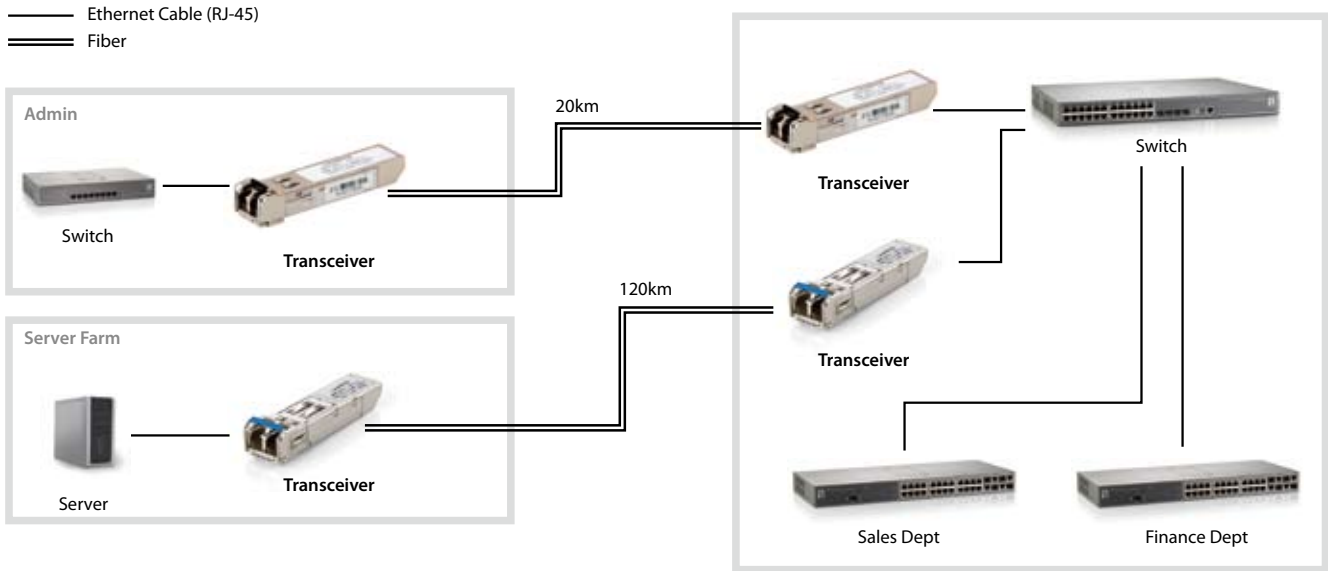
VDS-0110 / VDS-0111
Ethernet over VDSL2 Converter (Sender / Receiver)

VDSL2 Media Converter Comparison						
Model	VDS-0200	VDS-0201	VDS-0202	VDS-0120	VDS-0130	VDS-0110 / VDS-0111
Media Conversion	RJ-45 to RJ-11	RJ-45 to RJ-11	RJ-45 to Coaxial	RJ-45 to RJ-11	RJ-45 to RJ-11	RJ-45 to RJ-11
VDSL2 Data Rate	100/60Mbps	100/60Mbps	100/60Mbps	100/60Mbps	100/60 Mbps	100/50Mbps
PoE	-	-	-	IEEE 802.3af	IEEE 802.3af	-
PoE Power Budget	-	-	-	15.4W	-	-
Power Supply	External	External	External	External	External/PoE	External
Operating Distance	300m	300m	400m	300m	300m	350m
RJ-11 Telephone Port	1	1	-	-	-	-
Dip Switch	V	V	V	V	V	V
Optional Accessories	POC-4001: 8-Bay Media Converter Chassis			-	-	-

The BI-DI (Bi-Directional) uses the WDM technique transceiver. The WDM (Wavelength Division Multiplexing) is technique for fiber-optic cable in which multiple optical signal channels are carried across a single strand of fiber 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 fiber.

Key Features

- Single 3.3V power supply
- Eye safety designed to meet LASER Class 1
- No configuration or installation software required
- Works with levelOne switches and converters



155Mbps BIDI SFP Fiber Optic Transceiver



SFP-7331
 155Mbps Single-mode BIDI SFP Transceiver,
 20km, TX 1550nm / RX 1310nm



SFP-7431
 155Mbps Single-mode BIDI SFP Transceiver,
 40km, TX 1550nm / RX 1310nm



SFP-7421
 155Mbps Single-mode BIDI SFP Transceiver,
 40km, TX 1310nm / RX 1550nm



SFP-7321
 155Mbps Single-mode BIDI SFP Transceiver,
 20km, TX 1310nm / RX 1550nm

Transceiver Comparison				
Model	SFP-7331	SFP-7431	SFP-7421	SFP-7321
Mode	Single-mode	Single-mode	Single-mode	Single-mode
Data Rate	155Mbps	155Mbps	155Mbps	155Mbps
Wavelength	1550nm/ 1310nm	1550nm/ 1310nm	1550nm / 1310nm	1310nm/1550nm
Operating Distance	20km (9/125µm)	40km (9/125µm)	40km (9/125µm)	20km (9/125µm)
Connector	Simplex LC	Simplex LC	Simplex LC	Simplex LC

1.25Gbps BIDI SFP Fiber Optic



SFP-9331
1.25Gbps Single-mode BIDI SFP Transceiver,
20km, TX 1550nm / RX 1310nm



SFP-9231
1.25Gbps Single-mode BIDI SFP Transceiver,
10km, TX 1550nm / RX 1310nm



SFP-9431
1.25Gbps Single-mode BIDI SFP Transceiver,
40km, TX 1550nm / RX 1310nm



SFP-9221
1.25Gbps Single-mode BIDI SFP Transceiver, 10km, TX
1310nm / RX 1550nm



SFP-9421
1.25Gbps Single-mode BIDI SFP Transceiver,
40km, TX 1310nm / RX 1550nm



SFP-9321
1.25Gbps Single-mode BIDI SFP Transceiver,
20km, TX 1310nm / RX 1550nm

Transceiver Comparison						
Model	SFP-9331	SFP-9231	SFP-9431	SFP-9221	SFP-9421	SFP-9321
Mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Data Rate	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps
Wavelength	1550nm/ 1310nm	1550nm/ 1310nm	1550nm/ 1310nm	1310nm /1550nm	1550nm / 1310nm	1550nm / 1310nm
Operating Distance	20km (9/125µm)	10km (9/125µm)	40km (9/125µm)	10km (9/125µm)	40km (9/125µm)	20km (9/125µm)
Connector	Simplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC

155Mbps SFP Fiber Optic



SFP-1311
155Mbps Single-mode SFP Transceiver, 20km,
1310nm



SFP-1411
155Mbps Single-mode SFP Transceiver, 40km,
1310nm

Transceiver Comparison		
Model	SFP-1311	SFP-1411
Mode	Single-mode	Single-mode
Data Rate	155Mbps	155Mbps
Wavelength	1310nm	1310nm
Operating Distance	20km (9/125µm)	40km (9/125µm)
Connector	Duplex LC	Duplex LC

1.25Gbps SFP Fiber Optic



SFP-3001
1.25Gbps Multi-mode SFP Transceiver, 550m, 850nm



SFP-3111
1.25Gbps Multi-mode SFP Transceiver, 2km, 1310nm



GVT-0300
1.25Gbps Multi-mode SFP Transceiver, 550m, 850nm



SFP-3711
1.25Gbps Single-mode SFP Transceiver, 120km, 1550nm



SFP-3211
1.25Gbps Single-mode SFP Transceiver, 10km, 1310nm



SFP-3611
1.25Gbps Single-mode SFP Transceiver, 80km, 1550nm

Transceiver Comparison						
Model	SFP-3001	SFP-3111	GVT-0300	SFP-3711	SFP-3211	SFP-3611
Mode	Multi-mode	Multi-mode	Multi-mode	Single-mode	Single-mode	Single-mode
Data Rate	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps
Wavelength	850nm	1310nm	850nm	1550nm	1310nm	1550nm
Operating Distance	550m (50/125µm)	2km (50/125µm)	550m (50/125µm)	120km (50/125µm)	10km (9/125µm)	80km (9/125µm)
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC

1.25Gbps SFP Copper



GVT-0301
1.25Gbps Single-mode SFP Transceiver, 10km, 1310nm



GVT-0302
1.25Gbps Single-mode SFP Transceiver, 80km, 1550nm



SFP-3841
1.25Gbps Copper SFP Transceiver, 100m, RJ45

Transceiver Comparison			
Model	GVT-0301	GVT-0302	SFP-3841
Mode	Single-mode	Single-mode	-
Data Rate	1.25Gbps	1.25Gbps	1.25Gbps
Wavelength	1310nm	1550nm	-
Operating Distance	10km (9/125µm)	80km (9/125µm)	100m (Cat. 5 Cable)
Connector	Duplex LC	Duplex LC	RJ-45

10Gbps SFP Fiber Optic



XFP-5901
10Gbps Multi-mode XFP Transceiver, 300m, 850nm



XFP-5211
10Gbps Single-mode XFP Transceiver, 10km, 1310nm



SFP-6101
10Gbps Multi-mode SFP Transceiver, 300m, 850nm



SFP-6121
10Gbps Single-mode SFP Transceiver, 10km, 1310nm



SFP-6141
10Gbps Single-mode SFP Transceiver, 40km, 1550nm

Transceiver Comparison					
Model	XFP-5901	XFP-5211	SFP-6101	SFP-6121	SFP-6141
Mode	Multi-mode	Single-mode	Multi-mode	Single-mode	Single-mode
Data Rate	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
Wavelength	850nm	1310nm	850nm	1310nm	1310nm
Operating Distance	300m (OM3 MMF Fiber)	10km	300m	10km	40km
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC



NEW

DAC-0101
10Gbps SFP Direct Attach Copper Cable, 1m, Twinax



NEW

DAC-0103
10Gbps SFP Direct Attach Copper Cable, 3m, Twinax

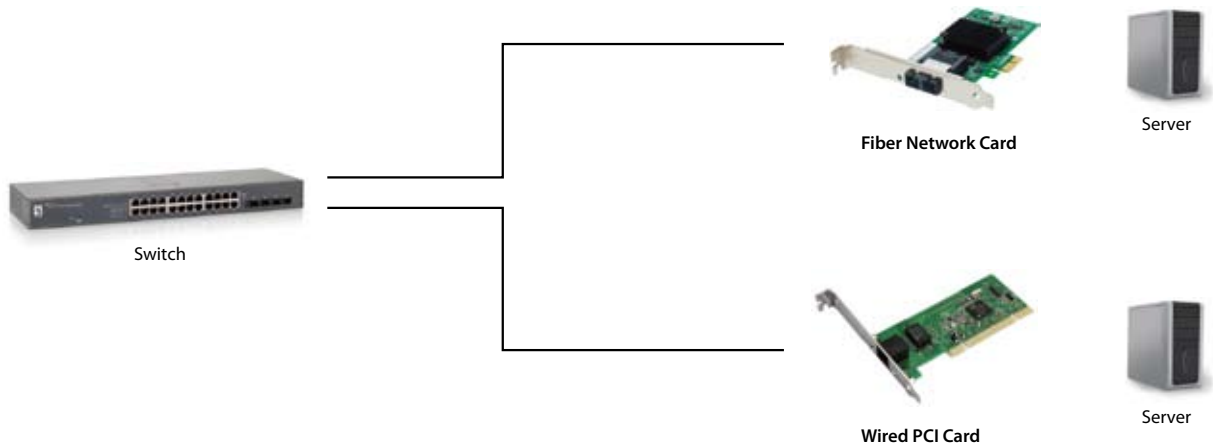


NEW

DAC-0105
10Gbps SFP Direct Attach Copper Cable, 5m, Twinax

Transceiver Comparison			
Model	DAC-0101	DAC-0103	DAC-0105
Mode	-	-	-
Data Rate	10Gbps	10Gbps	10Gbps
Wavelength	-	-	-
Cable length	1m	3m	5m
Connector	SFP Package	SFP Package	SFP Package

LevelOne Network Adapters come with different interfaces to suit your needs. 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-0103FX
Fast Ethernet Fiber PCI Network Card, 1 x ST Multi-Mode Fiber



FNC-0104FX
Fast Ethernet Fiber PCI Network Card, 1 x SC Multi-Mode Fiber



FNC-0115
Fast Ethernet Fiber PCIe Network Card, 1 x SC Multi-Mode Fiber



GNC-0112
Gigabit PCIe Network Card



GNC-0105T
Gigabit PCI Network Card

Network Adapter Comparison					
Model	FNC-0103FX	FNC-0104FX	FNC-0115	GNC-0112	GNC-0105T
Interface	PCI	PCI	PCI-e	PCI-e	PCI
RJ45 Port	-	-	-	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
Fiber Port	1 x 100BASE-FX ST Multi-mode	1 x 100BASE-FX SC Multi-mode	1 x 100BASE-FX SC Multi-mode	-	-
Antenna	-	-	-	-	-
Wake-on-LAN	V	V	V	V	V
IP Rating	-	-	-	-	-
Jumbo Frame	-	-	-	-	-

Network Card



GNC-0200
Gigabit Fiber PCIe Network Card, 1 x SC
Multi-Mode Fiber



GNC-0100
Gigabit Fiber PCI Network Card, 1 x SFP



GNC-0107
Gigabit Fiber PCI Network Card, 1 x SC Multi-Mode
Fiber



GNC-0110
Gigabit Fiber PCIe Network Card, 1 x SFP



GNC-0120
Gigabit Fiber PCIe Network Card, 1 x SFP, PCIe 4X



GNC-0122
Gigabit Fiber PCIe Network Card, 2 x SFP, PCIe 4X

Network Adapter Comparison						
Model	GNC-0200	GNC-0100	GNC-0107	GNC-0110	GNC-0120	GNC-0122
Interface	PCI-e	PCI	PCI	PCI-e	PCI-e	PCI-e
RJ45 Port	-	-	-	-	-	-
Fiber Port	1 x 1000BASE-SX SC Multi-mode	1 x 1000BASE-X SFP	1 x 1000BASE-SX SC Multi-mode	1 x 1000BASE-X SFP	1 x 1000BASE-X SFP	2 x 1000BASE-X SFP
Antenna	-	-	-	-	-	-
Wake-on-LAN	V	V	V	V	V	V
IP Rating	-	-	-	-	-	-
Jumbo Frame	16K	-	-	9.5K	9.5K	-



GNC-0124
Gigabit Fiber PCIe Network Card, 4 x SFP, PCIe 4X



GNC-0201
10 Gigabit Fiber PCIe Network Card, 1 x SFP, PCIe 8X



GNC-0202
10 Gigabit Fiber PCIe Network Card, 2 x SFP, PCIe
8X



FNC-0105
Fast Ethernet Fiber PCI Network Card, 1 x SFP

Network Adapter Comparison				
Model	GNC-0124	GNC-0201	GNC-0202	FNC-0105
Interface	PCI-e	PCI-e	PCI-e	PCI
RJ45 Port	-	-	-	-
Fiber Port	4 x 1000BASE-X SFP	1 x 10Gbps SFP+	2 x 10Gbps SFP+	1 x 100BASE-FX SFP
Antenna	-	-	-	-
Wake-on-LAN	V	V	V	V
IP Rating	-	-	-	-
Jumbo Frame	9.5K	-	-	-

Unmanaged

Controller Managed



WAP-6110
N300 PoE Wireless Access Point



WAP-6017
N300 Wireless Access Point, Controller Managed



WAP-8021
AC1200 Dual Band Wireless Access Point, Controller Managed



WAP-6221
N300 PoE Wireless Access Point, In-Wall Mount, Controller Managed

Wireless Access Point Comparison				
Model	WAP-6110	WAP-6017	WAP-8021	WAP-6221
Wireless	300Mbps (11b/g/n)	300Mbps (11b/g/n)	1200Mbps (11b/g/n/ac)	300Mbps (11b/g/n)
Antenna	2 x 3dBi detachable	2 x 5dBi detachable	6 x 6dBi dual band detachable	2 x 3dBi Internal
PoE	IEEE 802.3af	-	-	IEEE 802.3af
Power Supply	External/PoE	External	External	PoE
Frequency Range	2.4GHz	2.4GHz	2.4/5GHz	2.4GHz
Multiple-SSID	4	4	8	4
Operating Mode	AP/Client/WDS/WISP	Gateway/AP/Repeater	Gateway/AP/Repeater/WISP	Gateway/AP/WDS
IP Rating	-	-	-	-

Controller Managed



WAP-6121
N300 PoE Wireless Access Point, Controller Managed



WAP-8121
AC750 Dual Band PoE Wireless Access Point, Controller Managed



WAP-8122
AC1200 Dual Band PoE Wireless Access Point, Controller Managed



WAB-8011
AC1200 Dual Band Outdoor PoE Wireless Access Point, Controller Managed



WAB-5010
N300 5GHz Outdoor PoE Wireless Access Point, Controller Managed



WAB-6010
N300 Outdoor PoE Wireless Access Point, Controller Managed

Wireless Access Point Comparison						
Model	WAP-6121	WAP-8121	WAP-8122	WAB-8011	WAB-5010	WAB-6010
Wireless	300Mbps (11b/g/n)	750Mbps (11a/b/g/n/ac)	1200Mbps (11a/b/g/n/ac)	1200Mbps (11b/g/n/ac)	300Mbps (11a/n)	300Mbps (11b/g/n)
Antenna	5dBi Internal	2 x 5dBi 2.4GHz Internal 2 x 5dBi 5GHz Internal	2 x 5dBi 2.4GHz Internal 1 x 5dBi 5GHz Internal	2 x N male connector for 2.4GHz 2 x N male connector for 5GHz	5dBi Internal	5dBi Internal
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3at	IEEE 802.3at	IEEE 802.3af	IEEE 802.3af
Power Supply	PoE	PoE	PoE	PoE	PoE	PoE
Frequency Range	2.4GHz	2.4/5GHz	2.4/5GHz	2.4/5GHz	5GHz	2.4GHz
Multiple-SSID	4	8	8	8	4	4
Operating Mode	Gateway/AP/WISP/WDS	Gateway/AP/WISP/WDS	Gateway/AP/WISP/WDS	Gateway/AP/Repeater/WISP	Gateway/AP/Repeater/WISP	Gateway/AP/Repeater/WISP
IP Rating	-	-	-	IP65	IP65	IP65

Gateway

- Load balancing across multiple Aps
- Supports VLAN based on different policies
- Centralized management of up to 50 (WAC-2000) /300 (WAC-2003) APs
- Client isolation allows strict control of access to wireless devices on the network
- Supports gateway functions
- Built-in Captive Portal functionality



WAC-2000
Gigabit Wireless LAN Controller



WAC-2003
Gigabit Wireless LAN Controller, 19" Rack Mount

Booster

- Strengthens the radio signal of your wireless device
- Greatly improves wireless range and coverage
- Easy to install, just plug in and play



WBO-0100
11b/g WiFi Signal Booster, 1W



WBO-1100
11b/g Outdoor WiFi Signal Booster, 1W

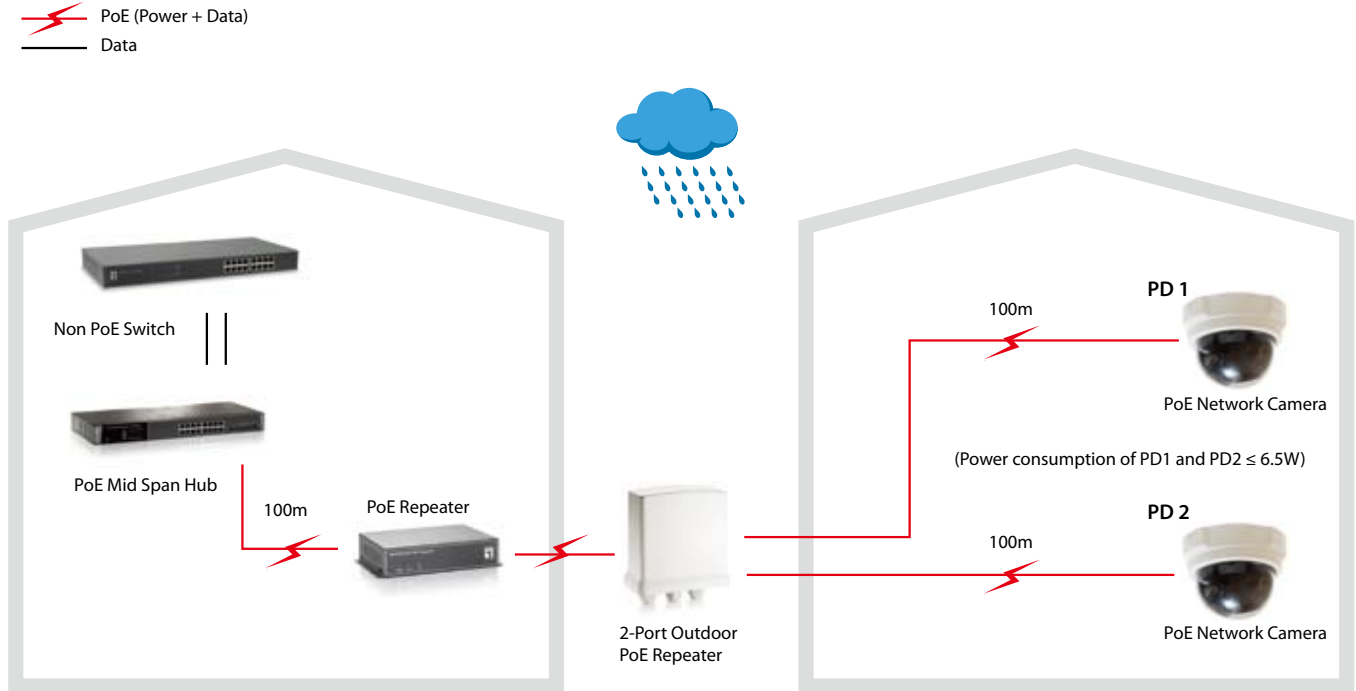
Antenna

- IEEE 802.11 b/g/n application in 2.4GHz Frequency Range
- Omni-directional operation provides extended point to multi-point coverage
- Standard N-jack connector



OAN-2090
9dBi 2.4GHz Omni-directional Outdoor Antenna

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 with an addition of 100m. This is especially useful as no devices needs to be located close to power outlets.



Injector Hubs

- 12 ports Power over Ethernet Hub
- Compatible with IEEE 802.3af PoE standard
- High safety short circuit protection
- 19" rack mountable size
- Power protection: over voltage, over current and over temp protection



POH-1250
12-Port Fast Ethernet PoE Injector Hub, 200W



POH-1260
12-Port Fast Ethernet High Power PoE Injector Hub, 375W

PoE Hubs Comparison		
Model	POH-1250	POH-1260
PoE Power Budget	200W	375W
RJ45 Port	12	12
RJ45 PoE Port	12	12

PoE Injector / Splitter / Repeater / Extender

PoE Splitter

- Built-in current limitation, short circuit and overload protection
- Eliminates the need for a bulky power adapter and power line for your appliance
- Simple to install Plug and Play
- Automatically detects PoE terminals and supplies inline power



POS-1002
5-12V DC Fast Ethernet PoE Splitter, 802.3af PoE



POS-3000
5-12V DC Gigabit PoE Splitter, 802.3at PoE+

PoE Splitter Comparison		
Model	POS-1002	POS-3000
PoE	IEEE 802.3af	IEEE 802.3at
Power Output	5-12V DC	5-12V DC
Power Input	PoE	PoE
IP-Rating	-	-

PoE Injector

- Built-in surge and over current protection
- Plug and Play, no software or configuration needed



POI-2001
Gigabit PoE Injector



POI-2002
PoE Injector



POI-3000
Gigabit PoE Injector, 802.3at PoE+



POI-3002
PoE Injector, 30W



POI-3004
Gigabit PoE Injector, 30W



POI-4000
PoE Injector, 56W



POI-5001
Gigabit PoE Injector, 60W, 802.3at PoE+

NEW

PoE Injector Comparison							
Model	POI-2001	POI-2002	POI-3000	POI-3002	POI-3004	POI-4000	POI-5001
PoE	IEEE 802.3af	V	IEEE 802.3at	V	V	V	IEEE 802.3at (Pre-IEEE 802.3bt)
Data Rate	10/100/1000Mbps	10/100Mbps	10/100/1000Mbps	10/100Mbps	10/100/1000Mbps	10/100Mbps	10/100Mbps
Input Port (RJ45)	1	1	1	1	1	1	1
Output Port (RJ45 PoE)	1	1	1	1	1	1	1
PoE Power Budget	15.4W	15.4W	30W	30W	30W	56W	60W
Optional Accessories	-	-	-	-	-	POC-4000: 8-Bay PoE Injector Chassis POS-4000: 12V DC High Power PoE Splitter POS-4002: 24V AC High Power PoE Splitter POS-4001: 12V DC High Power Outdoor PoE Splitter	-

PoE Repeater

- Supports power over ethernet for easy network deployment
- Extends PoE connection for another 100 meters



POR-0100
PoE Repeater, Cascadable



POR-0102
PoE Repeater, 2 Ports, Cascadable



POR-1100
Outdoor PoE Repeater, Cascadable



POR-1102
Outdoor PoE Repeater, Cascadable, 2 PoE Outputs



POR-0101
PoE Repeater, 802.3at PoE+



POR-0103
PoE Repeater, 2 PoE Outputs, 802.3at PoE+

PoE Repeater Comparison						
Model	POR-0100	POR-0102	POR-1100	POR-1102	POR-0101	POR-0103
Data Rate	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Input Port (RJ45 PoE)	1	1	1	1	1	1
Output Port (RJ45 PoE)	1	2	1	2	1	2
Cascadable	V	V	V	V	-	-
IP-Rating	-	-	IP65	IP65	-	-



POR-0200
PoE Repeater, Cascadable, 802.3at PoE+



POR-0202
PoE Repeater, Cascadable, 2 PoE Outputs, 802.3at PoE+



POR-1200
Outdoor PoE Repeater, Cascadable, 802.3at PoE+



POR-1202
Outdoor PoE Repeater, Cascadable, 2 PoE Outputs, 802.3at PoE+

PoE Repeater Comparison				
Model	POR-0200	POR-0202	POR-1200	POR-1202
Data Rate	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Input Port (RJ45 PoE)	1	1	1	1
Output Port (RJ45 PoE)	1	2	1	2
Output Port (RJ45)	1	-	1	-
Cascadable	V	V	V	V
IP-Rating	-	-	IP65	IP65

PoE Injector / Splitter / Repeater / Extender



POR-0120
Gigabit PoE Repeater, Cascadable



POR-0122
Gigabit PoE Repeater, Cascadable, 2 PoE Outputs



POR-0220
Gigabit PoE Repeater, Cascadable, 802.3at PoE+



POR-0222
Gigabit PoE Repeater, Cascadable, 2 PoE Outputs,
802.3at PoE+



POR-1220
Gigabit Outdoor PoE Repeater, Cascadable, 802.3at PoE+



POR-1222
Gigabit Outdoor PoE Repeater, Cascadable, 2
PoE Outputs, 802.3at PoE+

PoE Repeater Comparison						
Model	POR-0120	POR-0122	POR-0220	POR-0222	POR-1220	POR-1222
Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
Input Port (RJ45 PoE)	1	1	1	1	1	1
Output Port (RJ45 PoE)	1	2	1	2	1	2
Output Port (RJ45)	-	-	1	-	1	-
Cascadable	V	V	V	V	V	V
IP-Rating	-	-	-	-	IP65	IP65

PoE Extender over 2-Wire



POT-1110
PoE over 2-wire Outdoor, Receiver



POT-0100
PoE over 2-wire Transmitter

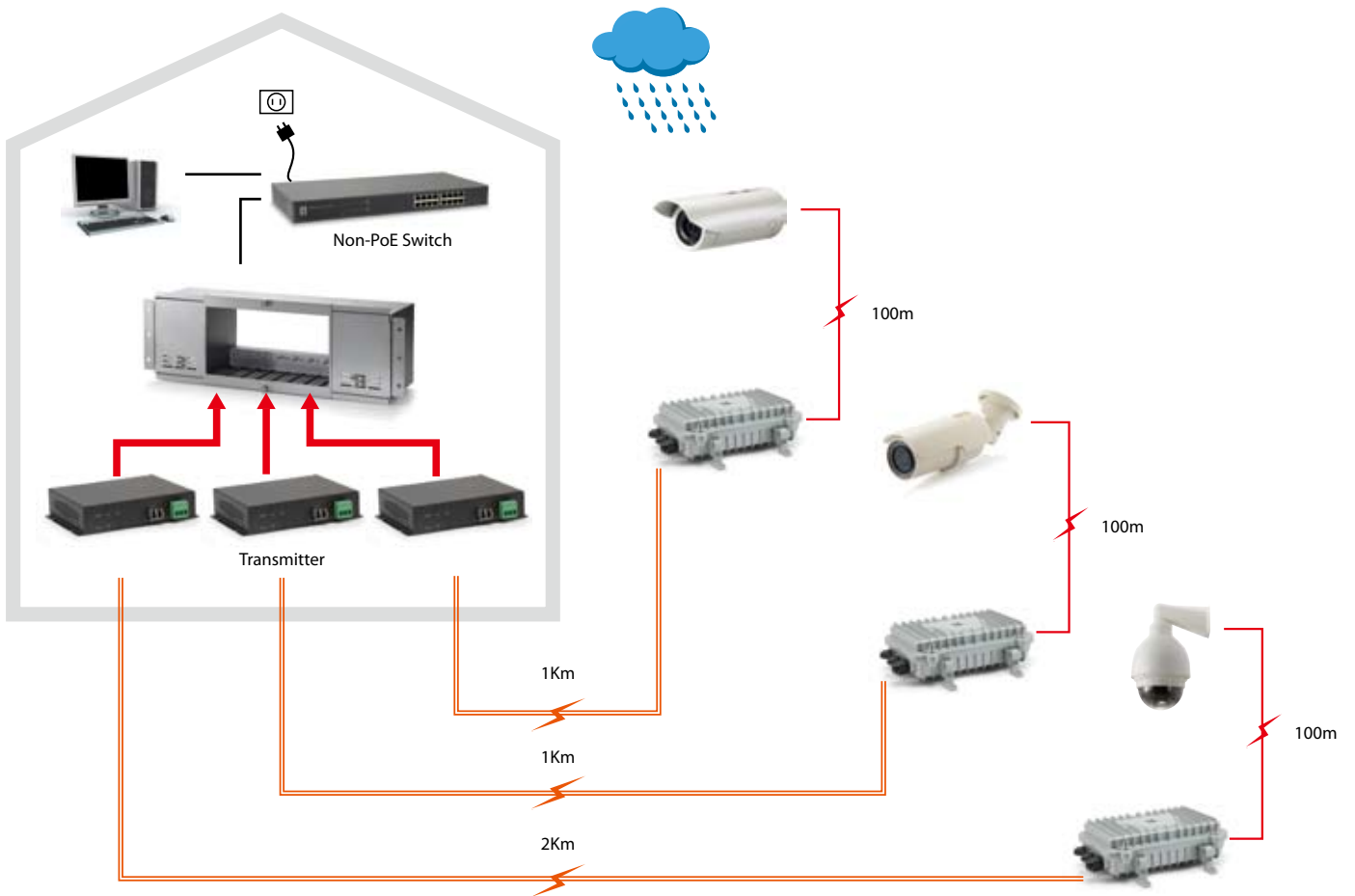


POT-0110
PoE over 2-wire Receiver

PoE Repeater Comparison			
Model	POT-1110	POT-0100	POT-0110
Data Rate	10/100Mbps	10/100Mbps	10/100Mbps
Input Port	1 x RJ45 PoE (RJ-11 2-wire Cable)	1 x RJ45 PoE	1 x RJ11
Output Port	1 x RJ45 PoE	1 x RJ11	1 x RJ45 PoE
Cascadable	-	-	-
IP-Rating	IP65	-	-

Using hybrid fiber and copper cable, the LevelOne PFE range can deliver integrated power and data over a distance of 6,800 ft (2km) to a receiver which provides high-power PoE output for IP surveillance applications. A tough outdoor range (PFE-1011/1014) provides the same performance within a durable IP66-rated waterproof housing for harsh environmental conditions and temperature range of -40°C to 60°C.

- Ethernet Cable (RJ 45)
- PoE
- Fiber
- Power



PoE Injector / Splitter / Repeater / Extender



PFE-1001T
PoE over Hybrid Fiber Transmitter, 65W



PFE-1101T
PoE over Hybrid Fiber Transmitter, 120W



PFE-1001R
PoE over Hybrid Fiber Receiver, 1 PoE Output



PFE-1004R
PoE over Hybrid Fiber Receiver, 4 PoE Outputs



PFE-1011R
PoE over Hybrid Fiber Outdoor Receiver, 1 PoE Output



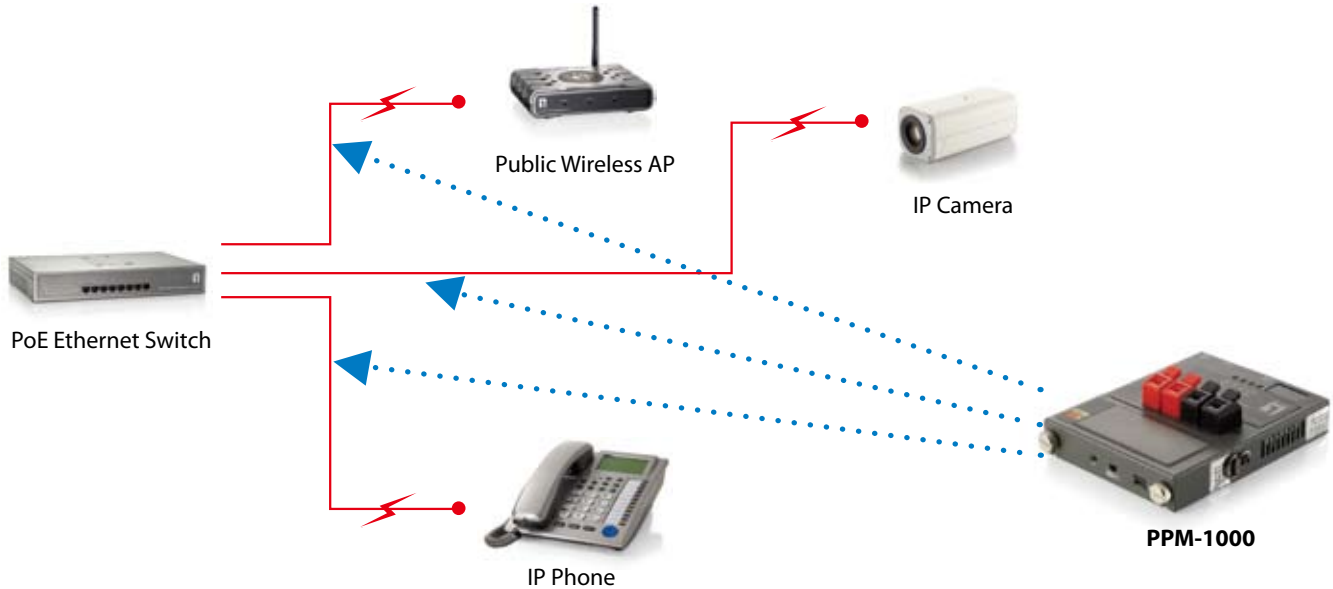
PFE-1014R
PoE over Hybrid Fiber Outdoor Receiver, 4 PoE Outputs

Model No	PFE-1001T	PFE-1101T	PFE-1001R	PFE-1004R	PFE-1011R	PFE-1014R
Standards & Protocols	IEEE 802.3 10-BASE-T, Ethernet, IEEE 802.3u 100-BASE-TX, Fast Ethernet					
Buffer Memory	128KB					
Connectors and Cabling	1 x 10/100Base-TX RJ-45 Port 2km Multi Fiber Optic LC Port DC Jack Input Port Terminal Block Output Port		1 x 10/100Base-TX RJ-45 PoE Port 2km Multi Fiber Optic LC Port Terminal Block Input Port	4 x 10/100Base-TX RJ-45 PoE Ports 2km Multi Fiber Optic LC Port Terminal Block Input Port	1 x 10/100Base-TX RJ-45 PoE Port 2km Multi Fiber Optic LC Port Terminal Block Input Port	4 x 10/100Base-TX RJ-45 PoE Ports 2km Multi Fiber Optic LC Port Terminal Block Input Port
Button	-		-	1~4 PoE Dip Switch	-	
Indicator	Power, LAN, Fiber, PoE, ALM		Power, LAN, Fiber, PoE			
Transmission Method	Store-and-Forward					
Power	Power Consumption: 56V/ 65W Power Input: 100-240V AC, 50-60 Hz, External Power Supply	Power Consumption: 56V/ 120W Power Input: 100-240V AC, 50-60 Hz, External Power Supply	-			
Dimensions (W x D x H mm)	133 x 90 x 28mm				240 x 200 x 72mm	
Weight (g)	250 g				1Kg	
MAC Address Table	1K					
Data Transfer Rate	10/100Mbps					
Packet Forwarding Rate	100Mbps port - 148,000pps, 10Mbps port - 14,880pps					
General	Flow Control: Half Duplex - Backpressure; Full Duplex - Pause frame					
PoE	-		PoE Compatible: IEEE 802.3at/af Power over Ethernet / PSE PoE over current protection PoE circuit sorting protection PoE Power Output: Per Port 56V DC, Max. 40W (High Power) Power Pin Assignment: 4/5(+), 7/8(-)			
Temperature (°C)	Operating: 0°C ~ 50°C Storage: 0°C ~ 60°C				Operating: -40°C ~ 60°C Storage: 0°C ~ 60°C	
Humidity (Non-condensing)	Storage: 5% ~ 90% Operating: 10% ~ 90%					
Approval and Compliance	CE/FCC					
Deployment	Desktop and wall-mountable				wall-mountable	
Optional Accessories	PFC-0112: Hybrid Fiber Cable, 12 AWG PFC-0118: Hybrid Fiber Cable, 18 AWG (PFE-1001T only)	-	-	-	-	-

Hybrid Cable

Model No	Conductor Gauge	Work with	Power after 450M	Power after 700M	Power after 1KM	Power after 2KM
PFC-0112	12 AWG	PFE-1001T	50W	45W	40W	20W
		PFE-1101T	60W	55W	50W	28W
PFC-0118	18 AWG	PFE-1001T	40W	20W	10W	-
		PFE-1101T	50W	28W	18W	-

PPM-1000 is a convenient and compact sized test and measurement device for PoE network installations. It verifies whether there is sufficient power to ensure your PoE device can function correctly, and helps avoid costly downtime or damage to equipment. This is particularly important when using non-PoE standard Power Sourcing Equipments (PSE) such as some High Power injectors.



PPM-1000

PoE Power Mesurer

- Ensures your PoE device works correctly
- Measures available power (watt) and voltage On a PoE line
- Portable and compact size
- LED display and indicators to reveal the power status
- Built-in temperature sensor
- Replaceable external battery pack for real portability
- Detachable neck strap
- Build-in temperature sensor and LED indicator to inform user about overheat condition if high power load test is applied



VoIP Phone

- Traditional phone for digital use
- Cost effective telephony for long and short distance calls for home, business and enterprise users
- User friendly and packed with PoE, VoIP and SIP



VOI-7010
VoIP Phone

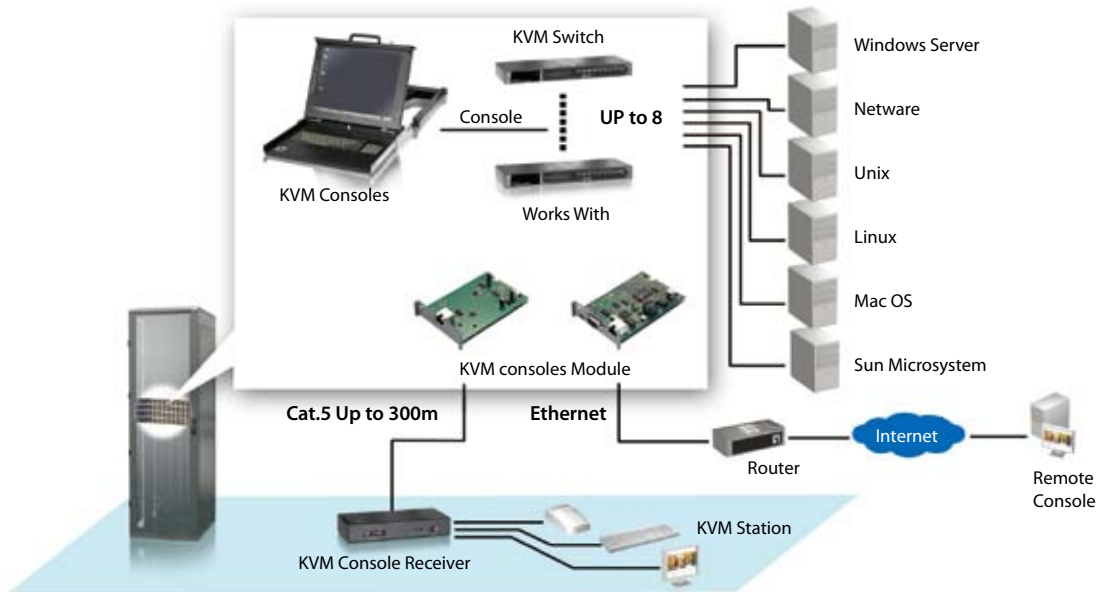
Voice over IP Comparison	
Model	VOI-7010
RJ45 Port	1 x 10/100Mbps
FX0 Port	-
VoIP	SIP v1/v2
PoE	-
Power Supply	External

KVM Switch / Extender / Console Drawer

LevelOne KVM switches include award-winning designs that look trendy on any desktop. With a small footprint and Plug and Play installation, these devices help you to 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.

Key Features

- Features an auto-scan and programmable scan function
- Supports a variety of operating system platforms
- Plug and Play configuration
- Flexible switching for an uninterrupted multi media experience
- Supports DOS, Netware, Unix, Linux, Windows, Sun Microsystem



KVM Extender

- Provides Plug and Play for easy installation
- Supports Cat.5/5e/6 Ethernet cabling
- Works with KVM switches and stand-alone PC
- Extends keyboard, video and mouse signal simultaneously over one Cat.x cable



KVM-9006
USB KVM Extender

KVM Extender Comparison	
Model	KVM-9006
Operating Distance	150m@1280x1024
Console Port	USB , VGA
PC Port	USB , VGA
Resolution	1280x1024 1920x1440 (local console)

Rackmount KVM Switch

Rackmount KVM Console



KVM-0831
8-Port Combo KVM Switch w/ Expansion Slot



KVM-1631
16-Port Combo KVM Switch w/ Expansion Slot



KVM-0115US/KVM-0115DE
15" LCD KVM Rack Console



KVM-0117US KVM-0117DE
KVM-0117FR
17" LCD KVM Rack Console



KVM-0217US/KVM-0217DE
17" LCD Modular KVM Rack Console



KVM-8901US KVM-8901DE
KVM-8901FR KVM-8901UK
KVM-8901ES
19" Widescreen LCD KVM Rack Console

Rackmount KVM Switch Comparison			
	Model	KVM-0831	KVM-1631
PC Port	Keyboard/Mouse	PS/2, USB	PS/2, USB
	Video	VGA	VGA
	Audio / Microphone	-	-
Console Port	Keyboard/Mouse	USB	USB
	Video	VGA	VGA
	Audio / Microphone	-	-
Feature	No. of computers managed	8	16
	Resolution	1920 x 1440	1920 x 1440
	No. of computers cascaded	120	128
	Optional Accessories	KVM-9009: KVM Remote Console Kit ACC-2000: KVM IP Console Module ACC-2101: 1.8m PS/2 and USB KVM Cable ACC-2102: 3m PS/2 and USB KVM Cable ACC-2103: 5m PS/2 and USB KVM Cable ACC-2109: 90cm Daisy Chain Cable	

Rackmount KVM Console Comparison				
	Model	KVM-0115/KVM-0117 Series	* KVM-0217 Series with KCM Module	KVM-8901 Series with KCM Module
PC port	Keyboard/Mouse	-	PS/2, USB	PS/2, USB
	Video	-	VGA	VGA
	Audio / Microphone	-	-	-
Console Port	Keyboard/Mouse	PS/2, USB	-	USB
	Video	VGA, DVI	VGA	VGA
	Audio / Microphone	-	-	-
Feature	No. of computers managed	-	8/16 (Depends on KCM Module)	8/16 (Depends on KCM Module)
	Resolution	1024 x 1786/1280x1024	1280x1024	1440x900
	No. of computers cascaded	-	120/128 (Depends on KCM Module)	128 (Depends on KCM Module)
	Optional Accessories	-	KCM-0831: 8-Port KVM Switch Module KCM-1631: 16-Port KVM Switch Module KVM-9009: KVM Remote Console Kit ACC-2000: KVM IP Console Module ACC-2101: 1.8m PS/2 and USB KVM Cable ACC-2102: 3m PS/2 and USB KVM Cable ACC-2103: 5m PS/2 and USB KVM Cable ACC-2109: 90cm Daisy Chain Cable	KCM-0832: 8-Port KVM Switch Module KCM-1632: 16-Port KVM Switch Module ACC-2101: 1.8m PS/2 and USB KVM Cable ACC-2102: 3m PS/2 and USB KVM Cable ACC-2103: 5m PS/2 and USB KVM Cable

* KVM-0217 must work together with KCM-0831 or KCM-1631

Fixed Camera



FCS-1150
Fixed Network camera, 3-Megapixel,
802.3af PoE, 12x Optical Zoom, two-way
audio



FCS-1160
Fixed Network camera, 5-Megapixel,
802.3af PoE, 12x Optical Zoom, two-
way audio



FCS-1153
Fixed Network Camera, 5-Megapixel,
802.3af PoE



FCS-5042
Fixed Outdoor Network camera,
2-Megapixel, 802.3af PoE, IR LEDs, 10X
Optical Zoom, two-way audio

Fixed Camera Comparison				
Model	FCS-1150	FCS-1160	FCS-1153	FCS-5042
Sensor / Resolution	CMOS 3M, 20fps at 2048 x 1536	CMOS 5M, 20/15fps at 2592 x 1944	CMOS 5M, 15fps at 2592 x 1944	CMOS 2M, 25fps at 1920 x 1080
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MPEG4, MJPEG
Lens type	Zoom, f=5.2-62.4mm / F1.8-3.0, DC iris, Auto focus	Zoom, f=5.2-62.4mm / F1.8-3.0, DC iris, Auto focus	Vari-focal, f=2.8-12mm / F1.4, DC iris, Manual focus	Zoom, f=4.9-49mm / F1.8-3.0, auto iris, Auto focus
Horizontal viewing Angle	50.2°-4.69°	48.4°-4.8°	70.9° - 29.2°	66.6°-7.2°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	-	-	-	30m
Digital Noise Reduction	2DNR	2DNR	2DNR	3DNR
Wide Dynamic Range	Superior WDR (110 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	12X Optical Zoom	12X Optical Zoom	-	10X Optical Zoom
Power Input	DC12V / 802.3af PoE	DC12V / 802.3af PoE	802.3af PoE	DC12V / 802.3af PoE
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	-	2-way (Line-in, Line-out)
Local storage	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC memory card slot (memory card not included)
Operation Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)
Approvals	-	-	-	-

NEW



FCS-5043
Fixed Outdoor Network camera,
2-Megapixel, 802.3af PoE, IR LEDs,
3X Optical Zoom, two-way audio



FCS-5060
Fixed Outdoor Network camera,
2-Megapixel, two-way audio, 4X
Optical Zoom, two-way audio



FCS-5055
Fixed Outdoor Network camera,
3-Megapixel, 802.3af PoE, IR LEDs,
10x Optical Zoom, two-way audio



FCS-5065
Fixed Outdoor Network camera,
5-Megapixel, 802.3af PoE, IR LEDs,
12x Optical Zoom, Vandalproof, two-
way audio

Fixed Camera Comparison				
Model	FCS-5043	FCS-5060	FCS-5055	FCS-5065
Sensor / Resolution	CMOS 2M, 25 fps at 1920x1080	CMOS 2M, 25 fps at 1920x1080	CMOS 3M, 20fps at 2048 x 1536	CMOS 5M, 15fps at 2592 x 1944
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Zoom, f=3.5-10.5mm/F1.8, Auto iris, Auto focus	Zoom, f=2.8 - 12mm/F1.4, Auto iris, Auto focus	Zoom, f=5.2-62.4mm / F1.8-3.0, DC iris, Auto focus	Zoom, f=5.2-62.4mm / F1.8-3.0, DC iris, Auto focus
Horizontal viewing Angle	Fov(D), 66.6° ~ 7.2°	Fov(D), 106° ~ 35°	50.2°-4.69°	48.4°-4.8°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	20m	30m	Adaptive IR, 40m	Adaptive IR, 40m
Digital Noise Reduction	3DNR	3DNR	2DNR	2DNR
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (120dB)	Superior WDR (110 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	3X Optical Zoom	4X Optical Zoom	10X Optical Zoom	10x Optical Zoom
Power Input	DC12V 1.5A / 802.3af PoE	DC12V 1.5A / 802.3af PoE	DC 12V / 802.3af PoE	DC 12V / 802.3af PoE
Audio	2-way (External microphone)	2-way (External microphone)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	Micro SDHC card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	-	IP66	IP67, NEMA 4X, IK10	IP67, NEMA 4X, IK10

Fixed Camera



FCS-5053
Fixed Outdoor Network Camera,
3-Megapixel, 802.3af PoE, IR LEDs



FCS-5054
Fixed Outdoor Network Camera,
3-Megapixel, 802.3af PoE, IR LEDs,
Varifocal, Vandalproof, two-way
audio



FCS-5056
Fixed Outdoor Network Camera,
3-Megapixel, 802.3af PoE, IR LEDs,
Vandalproof



FCS-5057
Fixed Outdoor Network Camera,
Varifocal, 3-Megapixel, 802.3af PoE,
IR LEDs, Vandalproof, two-way audio

Fixed Camera Comparison				
Model	FCS-5053	FCS-5054	FCS-5056	FCS-5057
Sensor / Resolution	CMOS 3M, 15fps at 2048 x 1536	CMOS 3M, 20fps at 2048 x 1536	CMOS 3M, 15fps at 2048 x 1536	CMOS 3M, 15fps at 2048 x 1536
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Fixed focal, f=4.2mm / F1.8, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Fixed focal, f=4.2mm / F1.8, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus
Horizontal viewing Angle	62.7°	70.5°-28.8°	62.7°	70.5°-28.2°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	20m	30m	30m	30m
Digital Noise Reduction	2DNR	2DNR	2DNR	2DNR
Wide Dynamic Range	-	Superior WDR (110 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE	802.3af PoE
Audio	-	2-way (Line-in, Line-out)	-	2-way (Line-in, Line-out)
Local storage	-	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	IP66	IP68, IK10	IP68, NEMA 4X, IK10	IP68, NEMA 4X, IK10



FCS-5058
Fixed Outdoor Network Camera,
2-Megapixel, 802.3af PoE, IR LEDs



FCS-5059
Fixed Outdoor Network Camera,
2-Megapixel, IR LEDs, two-way
audio, 802.3af PoE, Varifocal, two-
way audio



FCS-5063
Fixed Outdoor Network Camera,
5-Megapixel, 802.3af PoE, IR LEDs,
Vandalproof



FCS-5064
Fixed Outdoor Network Camera,
Varifocal, 5-Megapixel, 802.3af PoE,
IR LEDs, Vandalproof, two-way audio

Fixed Camera Comparison				
Model	FCS-5058	FCS-5059	FCS-5063	FCS-5064
Sensor / Resolution	CMOS 2M, 30fps at 1920 x 1080	CMOS 2M, 30fps at 1920 x 1080	CMOS 5M, 15fps at 2592 x 1944	CMOS 5M, 15fps at 2592 x 1944
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MJPEG	H.264, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Fixed focal, f=4mm / F2.0, fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, manual focus	Fixed focal, f=4.2mm / F1.8, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus
Horizontal viewing Angle	85°	106-35°	62.7°	69.2°-28.2°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	30m	30m	30m	30m
Digital Noise Reduction	3DNR	3DNR	2DNR	2DNR
Wide Dynamic Range	WDR	WDR(120dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE	802.3af PoE
Audio	-	2-way (Line-in, Line-out)	-	2-way (Line-in, Line-out)
Local storage	Micro SDHC memory card slot (memory card not included)	Micro SDHC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	IP66	IP66	IP68, NEMA 4X, IK10	IP68, NEMA 4X, IK10

Fixed Camera



FCS-5067
Fixed Outdoor Network Camera,
4-Megapixel, IR LEDs, 802.3af PoE



FCS-5068
Fixed Outdoor Network Camera,
5-Megapixel, IR LEDs, two-way audio,
802.3af PoE, Varifocal, two-way audio



FCS-5091
Fixed Outdoor Network Camera,
H.265/264, 3-Megapixel, 802.3af PoE, IR
LEDs



FCS-5092
Fixed Outdoor Network Camera,
H.265/264, 5-Megapixel, 802.3af PoE, IR
LEDs

NEW

NEW

Fixed Camera Comparison				
Model	FCS-5067	FCS-5068	FCS-5091	FCS-5092
Sensor / Resolution	CMOS 4M, 20fps at 2688 x 1520	CMOS 5M, 20fps at 2560 x 1920	CMOS 3M, 25/30fps at 2048 x 1536	CMOS 5M, 20fps at 2560 x 1920
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MJPEG	H.264, MJPEG	H.265/264, MJPEG	H.265/264, MJPEG
Lens type	Fixed focal, f=4mm / F2.0, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, manual focus	Fixed focal, f=4mm / F1.6, Fixed iris	Fixed focal, f=4mm / F2.0, Fixed iris
Horizontal viewing Angle	83°	106-35°	78.7°	63.5°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	30m	30m	50m	50m
Digital Noise Reduction	3DNR	3DNR	3DNR	3DNR
Wide Dynamic Range	WDR (120 dB)	WDR (70 dB)	WDR (120 dB)	WDR (120 dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	DC12V / 802.3af PoE	DC12V / 802.3af PoE
Audio	-	2-way (Line-in, Line-out)	-	-
Local storage	Micro SDHC/HDXC memory card slot (memory card not included)	Micro SDHC/HDXC memory card slot (memory card not included)	Micro SD/SDHC/SDXC memory card slot (memory card not included)	Micro SD/SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Approvals	IP66, IK10	IP66, IK10	IP67	IP67

P/T/Z Camera



FCS-5044
PTZ Outdoor Network Camera,
2-Megapixel, 10x Optical Zoom, 802.3af
PoE, IR LEDs, two-way audio



FCS-4103
PT Network Camera, 4-Megapixel,
802.3af PoE, IR LEDs, two-way audio

NEW

P/T/Z Cameras Comparison		
Model	FCS-5044	FCS-4103
Sensor / Resolution	CMOS 2M, 30fps@1920 x 1080	CMOS 4M, 20 fps at 2688 x 1520
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MJPEG
Lens type	Zoom, f=4.9-49mm / F1.8~3.0	Fixed-focal, f=4mm/F2.0
Horizontal viewing Angle	62°	83°
ICR (IR-Cut Filter Removal)	V	V
IR LED	30-40m	10m
Digital Noise Reduction	3DNR	3DNR
Wide Dynamic Range	Superior WDR (110 dB)	Basic WDR (120 dB)
Pan/Tilt/Zoom(Optical)	150° Pan / 95° tilt / 10x Optical zoom	180° / 75° / -
Power Input	DC 12V / 802.3af PoE	DC12V 1.5A / 802.3af PoE
Audio	2-Way (Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	SD/Micro SD card slot (memory card not included)	Micro SDHC card slot (memory card not included)
Operation Temperature	-20°C ~ 50°C	0°C ~ 40°C (32°F ~ 104°F)
Approvals	IP66	-

Fixed Dome Camera



FCS-3101
Fixed Dome Network Camera,
2-Megapixel, 802.3af PoE, IR LEDs



FCS-4201
Fixed Dome Network camera,
2-Megapixel, 802.3af PoE, IR LEDs, 3x
Optical Zoom, two-way audio



FCS-3054
Fixed Dome Network Camera,
3-Megapixel, PoE 802.3af



FCS-3056
Fixed Dome Network Camera,
Varifocal, 3-Megapixel, 802.3af PoE,
IR LEDs, Vandalproof, two-way audio

Fixed Dome Camera Comparison				
Model	FCS-3101	FCS-4201	FCS-3054	FCS-3056
Sensor / Resolution	CMOS 2M, 30fps at 1920 x 1080	CMOS 2M, 30 fps at 1920x1080	CMOS 3M, 15fps at 2048 x 1536	CMOS 3M, 15 fps at 2048 x 1536
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Fixed focal, f=4mm / F2, Fixed iris	Fixed-focal, f=4.0 mm/F2.0	Fixed focal, f=2.93mm / F2.0, Fixed iris	Vari-focal, f=2.8-12mm/F1.4, Fixed iris, Manual focus
Horizontal viewing Angle	62°	62°	83.3°	70.5°-28.2°
ICR (IR-Cut Filter Removal)	V	V	-	V
IR LED	10m	10m	-	30m
Digital Noise Reduction	2DNR	2DNR / 3DNR	2DNR	2DNR
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (74 dB)	-	-
Pan/Tilt/Zoom(Optical)	-	3X Optical Zoom	-	-
Power Input	DC12V 1.5A / AC24V / 802.3af PoE	DC12V 1.5A / 802.3af PoE	802.3af PoE	802.3af PoE
Audio	1-way (Built-in Microphone)	2-way audio (Built-in microphone)	-	2-way (Line-in, Line-out)
Local storage	Micro SDHC memory card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC card slot (memory card not included)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
Approvals	-	-	IK08	IK09



FCS-3053
Fixed Dome Network Camera,
3-Megapixel, PoE 802.3af, Day &
Night, IR LEDs



FCS-3064
Fixed Dome Network Camera,
Varifocal, 5-Megapixel, 802.3af PoE,
IR LEDs, Vandalproof, two-way audio



FCS-3065
Fixed Dome Network Camera, 5-Megapixel,
802.3af PoE, Vandalproof



FCS-3063
Fixed Dome Network Camera,
5-Megapixel, PoE 802.3af, Day & Night,
IR LEDs

Fixed Dome Camera Comparison				
Model	FCS-3053	FCS-3064	FCS-3065	FCS-3063
Sensor / Resolution	CMOS 3M, 15fps at 2048 x 1536	CMOS 5M, 15fps at 2592 x 1944	CMOS 5M, 15fps at 2592 x 1944	CMOS 5M, 15fps at 2592 x 1944
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Fixed focal, f=3.6mm / F1.8, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Fixed focal, f=1.9mm / F2.8, Fixed iris	Fixed focal, f=3.6mm / F1.8, Fixed iris
Horizontal viewing Angle	72.0°	69.2°-28.2°	126.9° (overview area), 77.4° (high detail area)	72.0°
ICR (IR-Cut Filter Removal)	V	V	-	V
IR LED	20M/30m	30m	-	20M/30m
Digital Noise Reduction	2DNR	2DNR	2DNR	2DNR
Wide Dynamic Range	-	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE	802.3af PoE
Audio	-	2-way (Line-in, Line-out)	-	-
Local storage	-	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	-
Operation Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
Approvals	-	IK09	IK08	-

Fixed Dome Camera



FCS-3102
Fixed Dome Outdoor Network Camera, 2-Megapixel, 802.3af PoE, IR LEDs



FCS-4202
Fixed Dome Outdoor Network camera, 2-Megapixel, 802.3af PoE, IR LEDs, 3X Optical Zoom, Vandalproof, , two-way audio



FCS-3073
Fixed Dome Outdoor Network Camera, 2-Megapixel, 802.3af PoE, Vandalproof



FCS-3084
Fixed Dome Outdoor Network Camera, 2-Megapixel, 802.3af PoE, Vandalproof, IR LEDs, two-way audio

Fixed Dome Camera Comparison				
Model	FCS-3102	FCS-4202	FCS-3073	FCS-3084
Sensor / Resolution	CMOS 2M, 30 fps at 1920x1080	CMOS 2M, 30 fps at 1920x1080	CMOS 2M, 30fps at 1920 x 1080	CMOS 2M, 30fps at 1920 x 1080
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264/MJPEG	H.264, MJPEG
Lens type	Fixed-focal, f=4mm/F2.0	Fixed-focal, f=4mm/F2.0	Fixed focal, f=6mm/F2.0	Fixed focal, f=4mm / F2.0, Fixed iris, Fixed focus
Horizontal viewing Angle	62°	62°	78°	85°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	10m	10m	-	30m
Digital Noise Reduction	3DNR	2DNR / 3DNR	3DNR	3DNR
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (74 dB)	V	V
Pan/Tilt/Zoom(Optical)	-	3X Optical Zoom	-	-
Power Input	DC12V 1.5A / AC24V / 802.3af PoE	DC12V 1.5A / 802.3af PoE	802.3af PoE	802.3af PoE
Audio	1-way audio (Built-in microphone)	2-way audio	-	2-way (Line-in, Line-out)
Local storage	Micro SDHC card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC/HDXC memory card slot (memory card not included)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C	30°C ~ 60°C	30°C ~ 60°C (-22°F ~ 140°F)
Approvals	-	IP66	IP66, IK10	IP66, IK10



FCS-3055
Fixed Dome Outdoor Network Camera, Varifocal, 3-Megapixel, 802.3af PoE, IR LEDs, Vandalproof, two-way audio



FCS-3082
Fixed Dome Outdoor Network Camera, Varifocal, 3-Megapixel, 802.3af PoE, IR LEDs, Vandalproof, two-way audio



FCS-3085
Fixed Dome Outdoor Network Camera, 4-Megapixel, Outdoor, 802.3af PoE, IR LEDs, Varifocal, two-way audio



FCS-3086
Fixed Dome Network Camera, 4-Megapixel, Vandalproof, 802.3af PoE, IR LEDs, two-way audio

Fixed Dome Camera Comparison				
Model	FCS-3055	FCS-3082	FCS-3085	FCS-3086
Sensor / Resolution	CMOS 3M, 15fps at 2048 x 1536	CMOS 3M, 20fps at 2048 x 1536	CMOS 4M 20fps at 2688 x 1520	CMOS 4M, 20fps at 2688 x 1520
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264, MJPEG
Lens type	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Fixed focal, f=4mm / F2.0, Fixed iris, Fixed focus
Horizontal viewing Angle	70.5°-28.2°	70.5°-28.8°	112°-33.8°	83°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	30m	30m	30m	30m
Digital Noise Reduction	2DNR	2DNR	3DNR	3DNR
Wide Dynamic Range	Basic WDR (74 dB)	Superior WDR (110 dB)	Superior WDR (120dB)	WDR(120dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE	802.3af PoE
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/HDXC memory card slot (memory card not included)
Operation Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-30°C ~ 60°C	-30°C ~ 60°C (-22°F ~ 140°F)
Approvals	IP67, IK10, NEMA 4X	IP67, IK10, NEMA 4X	IP66, IK10	IP66, IK10

Fixed Dome Camera



FCS-3087
Fixed Dome Outdoor Network Camera, 5-Megapixel, 802.3af PoE, IR LEDs, Outdoor, two-way audio



FCS-3083
Fixed Dome Outdoor Network Camera, Varifocal, 5-Megapixel, 802.3af PoE, IR LEDs, Vandalproof, two-way audio



NEW

FCS-3089
Fixed Dome Outdoor Network Camera, H.265/264, 3-Megapixel, 802.3af PoE, Vandalproof, IR LEDs, two-way audio



NEW

FCS-3090
Fixed Dome Outdoor Network Camera, H.265/264, 5-Megapixel, 802.3af PoE, Vandalproof, IR LEDs, two-way audio

Fixed Dome Camera Comparison				
Model	FCS-3087	FCS-3083	FCS-3089	FCS-3090
Sensor / Resolution	CMOS 5M, 20fps at 2560 x 1920	CMOS 5M, 15fps at 2592 x 1944	CMOS 3M, 25/30fps at 2048 x 1536	CMOS 5M, 20fps at 2560 x 1920
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MJPEG	H.264 High Profile, MJPEG	H.265/264, MJPEG	H.265/264, MJPEG
Lens type	Fixed focal, f=4mm / F2.0, Fixed iris	Vari-focal, f=2.8-12mm / F1.4, Fixed iris, Manual focus	Fixed focal, f=4mm / F1.6, Fixed iris	Fixed focal, f=4mm / F2.0, Fixed iris,
Horizontal viewing Angle	83°	69.2°-28.2°	78.7°	63.5°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	30m	30m	30m	30m
Digital Noise Reduction	3DNR	2DNR	3DNR	3DNR
Wide Dynamic Range	WDR(70dB)	WDR (74 dB)	WDR (120 dB)	WDR (120 dB)
Pan/Tilt/Zoom(Optical)	-	-	-	-
Power Input	802.3af PoE	802.3af PoE	DC12V / 802.3af PoE	DC12V / 802.3af PoE
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	Micro SDHC/HDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SD/SDHC/SDXC memory card slot (memory card not included)	Micro SD/SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 50 °C (-40 °F ~ 122 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Approvals	IP66, IK10	IP67, IK10, NEMA 4X	IP67, IK10	IP67, IK10

Panoramic Dome Camera



FCS-3094
Panoramic Dome Network Camera, 10-Megapixel, 802.3af PoE, two-way audio



FCS-3092
Panoramic Dome Network Camera, 5-Megapixel, 802.3af PoE, Vandalproof



FCS-3093
Panoramic Dome Outdoor Network Camera, 5-Megapixel, 802.3af PoE, Vandalproof, Vibrationproof

Panoramic Dome Camera Comparison			
Model	FCS-3094	FCS-3092	FCS-3093
Sensor / Resolution	CMOS 10M, 7fps at 3648 x 2736	CMOS 5M, 15fps at 2592 x 1944	CMOS 5M, 15fps at 2592 x 1944
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Fixed focal, f=1.37mm / F2.0, Fixed iris	Fixed focal, f=1.19mm / F2.0, Fixed iris	Fixed focal, f=1.19mm / F2.0, Fixed iris
Horizontal viewing Angle	180° (overview area), 109.8° (high detail area)	180° (overview area), 109.8° (high detail area)	180° (overview area), 109.8° (high detail area)
ICR (IR-Cut Filter Removal)	V	-	-
IR LED	-	-	-
Digital Noise Reduction	2DNR	2DNR	2DNR
Wide Dynamic Range	Basic WDR (70 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	-	-	-
Power Input	DC 12V / 802.3af PoE	802.3af PoE	802.3af PoE
Audio	2-way (Line-in, Line-out)	-	1-way (Mic-in)
Local storage	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Approvals	-	IK08	IP68, IK10, NEMA 4X, EN50155-ready

Network Camera

P/T/Z Dome Camera



FCS-4042
PTZ Dome Network Camera,
2-Megapixel, Outdoor, 802.3at
PoE+, 30X Optical Zoom, two-way
audio



FCS-4043
PTZ Dome Outdoor Network Camera,
3-Megapixel, 802.3af PoE, 10X Optical
Zoom, two-way audio



FCS-4044
PTZ Dome Outdoor Network Camera,
5-Megapixel, 802.3af PoE, 10X
Optical Zoom, two-way audio

P/T/Z Dome Cameras Comparison			
Model	FCS-4042	FCS-4043	FCS-4044
Sensor / Resolution	CMOS 2M, 30fps at 1920 x 1080	CMOS 3M, 15fps at 2048 x 1536	CMOS 5M, 15fps at 2592 x 1944
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Lens type	Zoom, f=4.3-129mm / F1.6-5.0, DC iris, Auto focus	Zoom, f=4.9-49mm / F1.8-3.0, DC iris, Auto focus	Zoom, f=4.9-49mm / F1.8-3.0, DC iris, Auto focus
Horizontal viewing Angle	66.4°-2.61°	49.6°-5.6°	49.7°-5.8°
ICR (IR-Cut Filter Removal)	V	V	V
IR LED	-	-	-
Digital Noise Reduction	2DNR / 3DNR	2DNR	2DNR
Wide Dynamic Range	Extreme WDR (145 dB)	Superior WDR (110 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	360° Pan / -20° ~ 200° Tilt, 30X Optical Zoom	-175° ~ 175° Pan / 0° ~ 180° Tilt, 10X Optical Zoom	-175° ~ 175° Pan / 0° ~ 180° Tilt, 10X Optical Zoom
Power Input	AC24V / 802.3at PoE	DC12V / 802.3af PoE	DC12V / 802.3af PoE
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)	Micro SDHC/SDXC memory card slot (memory card not included)
Operation Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)
Approvals	IP67, IK09, NEMA 4X	IP67, NEMA 4X	IP67, NEMA 4X

P/T/Z Dome Camera

- Support unique features for auto tracking function of moving objects



FCS-4101
PT Dome Network Camera,
2-Megapixel, 802.3af PoE, IR LEDs,
two-way audio



FCS-4102
PT Dome Outdoor Network Camera,
2-Megapixel, 802.3af PoE, IR LEDs,
Vandalproof



FCS-4301
PTZ Dome Network Camera, 2-Megapixel,
802.3af PoE, IR LEDs, 3x Optical Zoom,
two-way audio



FCS-4302
PTZ Dome Outdoor Network Camera,
2-Megapixel, 802.3af PoE, IR LEDs, 3x
Optical Zoom, Vandalproof, two-way
audio

P/T/Z Dome Camera Comparison				
Model	FCS-4101	FCS-4102	FCS-4301	FCS-4302
Sensor / Resolution	CMOS 2M, 30fps at 1920 x 1080	CMOS 2M, 30 fps at 1920 x 1080	CMOS 2M, 30 fps at 1920x1080	CMOS 2M, 30 fps at 1920x1080
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
Lens type	Fixed focal, f=4mm / F2, Fixed iris,	Fixed-focal, f=4mm/F2.0	fixed-focal, f=4mm/F2.0	Fixed-focal, f=4mm/F2.0
Horizontal viewing Angle	62°	62°	62°	62°
ICR (IR-Cut Filter Removal)	V	V	V	V
IR LED	10m	10m	10m	10m
Digital Noise Reduction	2DNR	3DNR	2DNR / 3DNR	2DNR / 3DNR
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Pan/Tilt/Zoom(Optical)	200° / 70° / -	200° / 70° / -	200° Pan / 70° Tilt, 3X Optical Zoom	200° Pan / 70° Tilt, 3X Optical Zoom
Power Input	DC12V 1.5A / AC24V / 802.3af PoE	DC12V 1.5A / AC24V / 802.3af PoE	DC12V 1.5A / 802.3af PoE	DC12V 1.5A / 802.3af PoE
Audio	2-way (Built-in Microphone)	1-way audio (Built-in microphone)	2-way (Built-in microphone, Line-in, Line-out)	2-way (Line-in, Line-out)
Local storage	Micro SDHC memory card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC card slot (memory card not included)	Micro SDHC card slot (memory card not included)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C	0°C ~ 40°C
Approvals	-	IP66	-	IP66

LevelOne offers a wide range of optional accessories to help users set up a complete IP surveillance solution.



Model: CAS-2101
Description: Mount Kit for Dome Cameras
Works with: FCS-3053/FCS-3055 /FCS-3063/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044



Model: CAS-2313
Description: Wall Mount for Indoor Domes
Works with: FCS-3053/FCS-3063/FCS-3064/FCS-3094



Model: CAS-2314
Description: Wall Mount for Outdoor Domes
Works with: FCS-3055/FCS-3082/FCS-3083/FCS-4043/FCS-4044



Model: CAS-2316
Description: Wall mount for mini dome mini fisheye
Works with: FCS-3065/FCS-3092/FCS-3093



Model: CAS-2504
Description: Pole Mount
Works with: FCS-5054/FCS-5055/FCS-5056/FCS-5065



Model: CAS-3001
Description: Flush Mount Kit
Works with: FCS-3055/FCS-3064/FCS-3082/FCS-3083



Model: CAS-3002
Description: Flush Mount Kit
Works with: FCS-3053/FCS-3063



Model: CAS-3003
Description: Flush Mount Kit
Works with: FCS-3056/FCS-3094



Model: CAS-3103
Description: Wall Mount Bracket
Works with: FCS-5053/FCS-5056/FCS-5057/FCS-5063/FCS-5064



Model: CAS-3104
Description: Bracket for Indoor Box Cameras
Works with: FCS-1150/FCS-1152/FCS-1153/FCS-1160



Model: CAS-3105
Description: Bracket for Zoom Box Cameras
Works with: FCS-1150/FCS-1152/FCS-1153/FCS-1160



Model: CAS-4001
Description: Pole Mount Kit
Works with: BOH-1400/BOH-1401/BOH-1410/BOH-1411



Model: CAS-4200
Description: USB Joystick
Works with: FCS-9300/FCS-9364/FCS-9464/FCS-9436/FCS-9432/FCS-9425/FCS-9416/FCS-9408/FCS-9404



Model: CAS-3300
Description: Ceiling Bracket
Works with: FCS-5055/FCS-5056/FCS-5065



Model: CAS-4312
Description: Wall Mount Bracket, Cable Management
Works with: FCS-4042



Model: CAS-2102
Description: Straight tube without bracket for pendant mounting
Works with: FCS-3055/FCS-3063/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044

Optional Accessories



Model: CAS-2103

Description: Straight tube with bracket for pendant mounting

Works with: FCS-3055/FCS-3063/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044



Model: CAS-2104

Description: Extension tube for pendant mounting

Works with: FCS-3055/FCS-3063/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044



Model: CAS-2402

Description: Corner mount

Works with: FCS-3055/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044/FCS-5053/FCS-5057/FCS-5063/FCS-5064



Model: CAS-2503

Description: Pole Mount for PTZ, hemispheric and dome cameras

Works with: FCS-3055/FCS-3063/FCS-3064/FCS-3082/FCS-3083/FCS-3094/FCS-4042/FCS-4043/FCS-4044/FCS-5053/FCS-5057/FCS-5063/FCS-5064



Model: CAS-2702

Description: Outdoor Junction Box

Works with: FCS-4042/FCS-4043/FCS-4044



Model: CAS-7301

Description: Wall mount Kit

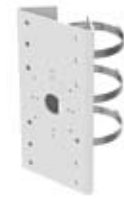
Works with: FCS-3084/FCS-3084/FCS-3086/FCS-3087



Model: CAS-7302

Description: Wall mount Kit with junction box

Works with: FCS-3084/FCS-3084/FCS-3086/FCS-3087



Model: CAS-7303

Description: Vertical pole mount

Works with: FCS-3084/FCS-3084/FCS-3086/FCS-3087



Model: CAS-7304

Description: Inclined ceiling mount

Works with: FCS-3084/FCS-3086/FCS-3087



Model: CAS-7305

Description: Power intake box

Works with: FCS-3084/FCS-3086/FCS-3087



Model: CAS-7306

Description: Pendant mount

Works with: FCS-3084/FCS-3086/FCS-3087



Model: CAS-7307

Description: Corner mount

Works with: FCS-3073/FCS-3084/FCS-3085/FCS-3086/FCS-3087/FCS-5059/FCS-5060/FCS-5068



Model: CAS-7308

Description: Rain shade

Works with: FCS-3084/FCS-3086/FCS-3087



Model: CAS-7309

Description: Rain shade

Works with: FCS-3084/FCS-3085/FCS-3086/FCS-3087



Model: CAS-7310

Description: Junction box for Dome Camera

Works with: FCS-3084/FCS-3086/FCS-3087



Model: CAS-7311

Description: Junction box for Bullet Camera

Works with: FCS-5059/FCS-5060/FCS-5068



Model: CAS-7312
Description: Power intake box for Bullet Camera
Works with: FCS-5059/FCS-5060/FCS-5068



Model: CAS-7313
Description: In-ceiling mount
Works with: FCS-3085



Model: CAS-7314
Description: Wall mount
Works with: FCS-3085



Model: CAS-7315
Description: Wall mount (Aluminum alloy)
Works with: FCS-3085



Model: CAS-7316
Description: Wall mount (Aluminum alloy with junction box)
Works with: FCS-3085



Model: CAS-7317
Description: Pendant mount
Works with: FCS-3085



Model: CAS-7318
Description: Rain shade
Works with: FCS-3085



Model: CAS-7319
Description: Junction Box
Works with: FCS-3085



Model: CAS-7320
Description: In-ceiling mount
Works with: FCS-3085



Model: CAS-7321
Description: In-ceiling mount with gangbox
Works with: FCS-3073



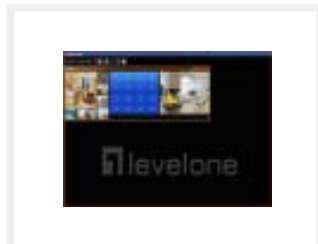
Model: CAS-7322
Description: Wall mount
Works with: FCS-3073



Model: CAS-7323
Description: Wall mount
Works with: FCS-3073



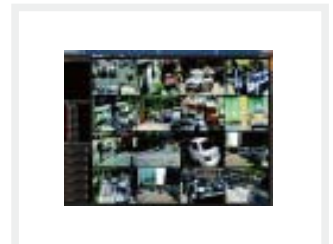
Model: CAS-7324
Description: Aluminum alloy
Works with: FCS-3073



Model: FCS-9310
Description: TV Wall Management System
Works with: FCS-9300



Model: FCS-9364R
Description: Redundancy Server
Works with: FCS-9364



Model: FCS-9364T
Description: Third-party device license
Works with: FCS-9364

Lens



CAS-1300
Vari-focal Lens, Megapixel, 2.8-8.5mm

- Sensing Area: 1/3" CCD
- Iris: DC-drive Auto Iris
- Diagonal: 118.1°~41.7°
- Horizontal: 95.4°~33.5°
- Vertical: 71.3°~25.0°



CAS-1400
Vari-focal Lens, 2-Megapixel, 2.8-12mm

- Sensing Area: 1/3" CCD
- Iris: DC-drive Auto Iris
- Diagonal: 105° - 35°
- Horizontal: 93° - 28°
- Vertical: 77° - 23°

Outdoor Camera Enclosure



BOH-1400
Camera PoE Outdoor Enclosure

- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Power Input: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1401
Camera PoE Outdoor Enclosure, IR LEDs

- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Built-in infrared LEDs for night viewing up to 50m
- Power Input: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1410
Camera PoE Outdoor Enclosure, FEVE Coating

- FEVE coating application enhance UV and acid protection
- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Power Input: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1411
Camera PoE Outdoor Enclosure, IR LEDs, FEVE Coating

- FEVE coating application enhance UV and acid protection
- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Built-in infrared LEDs for night viewing up to 50m
- Power Input: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



DOH-1000
Domed Outdoor Housing

- Designed for Indoor/outdoor applications
- IP66 rated camera outdoor dome housing
- Lightweight for Mounting on the wall
- Easy access for service and installation
- Withstands severe weather



DOH-1100
Heavy-Duty Domed Outdoor Housing

- Heavy-duty aluminium dome for outdoor and indoor installation
- 2-layer dome design keeps cameras cool
- Special fluorocarbon coating resists harsh acids and bases (i.e. salt water)
- Auto-sensing fan and heater for internal temperature control
- Vandal-proof polycarbonate cover
- IP-66 rated protection level

The LevelOne OneSecure software FCS-9364 has been developed by LevelOne to provide more advanced features for digital surveillance management. The OneSecure solution provides full camera control and support for all LevelOne cameras with 64-channel license free.

General		OneSecure	
Full Name	OneSecure Video Management Software		
Maximum Number of Clients	1 local, 5 remote (concurrent)		
Maximum Number of Cameras	100		
Free License	64 channels		
Compression	H.264, MPEG-4, MJPEG		
Live View			
Display Layout Mode	Local display: 1, 4, 5, 6, 8, 9, 10, 12, 16 Remote client display: 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64		
View Manager	An interface to define display layouts and the pre-set cameras within layout in the public or private view		
View Patrol	Automatic switch between different views or devices		
View Panel	Contains the list of pre-defined views for quick launch		
Device Panel	Drag and drop video source from device panel into display layout; display camera status		
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons		
Manual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key		
Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full		
Two-way Audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time		
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices		
Instant Playback	Instant playback in live view window		
e-Map			
Layout	Area maps with camera icons, small live view windows; hyperlinked		
Setup	e-Map image upload; camera positioning; vision angle and pointed direction of camera; view positioning; source positioning		
PTZ Mode	Mouse PTZ mode to control e-Map video streams		
PTZ			
Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls		
Preset Points and Tours	Create preset points; create auto tours between preset points		
Number of Preset Points	32		
Joystick	USB based joystick supported		
Support Protocol	Auto-detect camera's PTZ protocol. Available protocols: Pelco-P, Pelco-D, Dynacolor, Visca		
Recording			
Scheduled Recording	Record video with user defined schedule		
Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip		
Speed Up	Different recording frame rate settings for non-event and triggered event		
Manual Recording	Instant recording upon mouse click		
Pre-Event Recording	User-defined time period to record before event occurs. The maximum buffer is 5 seconds		
Post-Event Recording	User-defined time period to record after event occurs. The maximum buffer is 300 seconds		
Dual Stream Management	Recording of stream 1 or stream 2 of dual stream devices		
Search & Playback			
Recording Search	Search video recordings by time, event, channel and listed as clickable thumbnails for full-size view and snapshot download		
Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop		
Synchronized Playback	100 channels		
Manual Snapshot	Instant snapshot from playback upon mouse click		
Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)		
Video Export	Export video clips in AVI or RAW format; text overlay supported		
Event Management			
Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery; Disk full; Disk not found		
Event Response	Record video; Pop-up window with live video; Switch to hotspot window; Play beep sound; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Command a PTZ device to go to a preset point		
Manual Event	Manually activate external devices through digital output via live view monitor		
Event Handling	Define the schedule of event manager		
System			
Permission Control	Unlimited number of users, Active Directory, Customizable permissions for user groups		
Language	Multi-language support		
Language Import/Export	Possibility to import or export language packs for convenient local language management		
Customizable User Interface	Define the layout of user interface for live view and playback		
Quick Setup	Configure basic settings of NVR		
Remote Access			
PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-Map, event management, setup		
PC Web Browser	Microsoft Internet Explorer with live view, PTZ, playback, e-Map, event management, setup		
Mobile Client Program	Mobile device application (Active Mobile Client) supports live view, PTZ control, event or time based search and playback Supported devices: iPhone, iPad, iTouch and Android device		
Display Mode	Live Layout	Minimum	Recommended
Server PC with Local Client	1-16	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
	17-100	Intel i5 2.4 GHz, 4GB RAM	Intel i7-920 2.67 GHz, 4GB RAM
Server PC without Local Client	0	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
Remote Client PC	1-16	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
	17-64	Intel i5 2.4 GHz, 4GB RAM	Intel i7-920 2.67 GHz, 4GB RAM
PC Operating System	Windows 7, Windows 8, Windows Server 2012		
PC Web Browser	Internet Explorer 8, Internet Explorer 9, Internet Explorer 10		
Integration			
Unified Solution	Fully compatible with LevelOne cameras, encoders and CMS 2.0		
ISV CMS Integration	Software Development Kit (SDK) available		
Optional Accessory			
Model No.	FCS-9364R Redundancy Server, FCS-9364T Third-party device license, CAS-4200 USB Joystick		

* These specifications are based on following camera settings:

Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4

Dual stream mode: Stream 1 : 1280x1024, 3Mbps, 18fps, H.264. Stream 2 : 640x480, High Quality, 18fps, MJPEG



FCS-9300

OneSecure Central Management System

- Manage unlimited number of NVR servers
- Live view local up to 64 Channels
- Synchronized playback local up to 64 Channels
- Export video with RAW and AVI formats
- Event trigger, response and notification
- Mobile Client, Web Client, Workstation
- Location-based management with eMap
- TV Wall support by additional software license (FCS-9310)

FCS-9300

• General

Full Name	Central Management System v2.0
Maximum Number of NVR	Unlimited
Maximum Number of Clients	1 local, 5 remote (concurrent)
Maximum Number of Cameras	Unlimited
Compression	H.264, MPEG-4, MJPEG
NVR Management	Import management settings of NVR servers

• Live View

Display Layout Mode	1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom
View Manager	An interface to define display layouts and the pre-set cameras within layout in the public or private view
View Patrol	Automatic switch between different views or devices
View Panel	Contains the list of pre-defined views for quick launch
Layout Manager	An interface to define display layouts and the pre-set cameras within layouts; full-screen mode available
Device Panel	Drag and drop video source from device panel into display layout
Digital Zoom	Zoom in/out digitally by mouse scroll wheel
Manual Recording / Snapshot	Instant recording to Onesecure Server upon mouse click / Instant snapshot upon mouse click
Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full
Two-way audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices

• e-Map

Layout	Area maps with camera icons, small live view windows; view linker; source linker; event trigger
Setup	e-Map image upload; camera positioning; vision angle and pointed direction of camera; view positioning; source positioning
PTZ Mode	Mouse PTZ mode to control e-Map video streams

• PTZ

Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls
Preset Points and Tours	Activate NVR preset points or auto tours between preset points
Joystick	USB based joystick supported
Default Protocol	Auto-detect camera's PTZ protocol. Available protocols: Pelco-P, Pelco-D, Dynacolor, Visca

• Search & Playback

Recording Search	Search video recordings by time, event, channel from multiple NVRs, and listed as clickable thumbnails for full-size view and snapshot download
Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
Synchronized Playback	64 channels
Manual Snapshot	Instant snapshot from playback upon mouse click
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
Video Export	Export video clips in AVI or RAW format; text overlay supported

• Event Management

Event Source	Receive events from multiple Onesecure servers
Event Trigger	NVR: source loss and recovery; schedule service start and stop; disk status Device: video motion detection; passive IR sensor; external device through digital input; video loss and recovery; network loss and recovery
Event Response	NVR: play beep sound; execute system command to activate other programs; E-mail notification Device: pop-up window with live video; switch to hotspot window; play beep sound
Manual Event	Manually activate external devices through digital output via live view monitor

• System

Permission Control	Unlimited number of users, Active Directory, Customizable permissions for user groups
Language	Multi-language support
Language Import/Export	Possibility to import or export language packs for convenient local language management
Customizable User Interface	Define the layout of user interface for live view and playback

• Remote Access

PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-Map, event management, setup
PC Web Browser	Microsoft Internet Explorer with live view, PTZ, playback, e-Map, event management, setup
Mobile Client Program	Mobile device application (Active Mobile Client) supports live view, PTZ control, event or time based search and playback. Supported devices: iPhone, iPad, iTouch and Android device

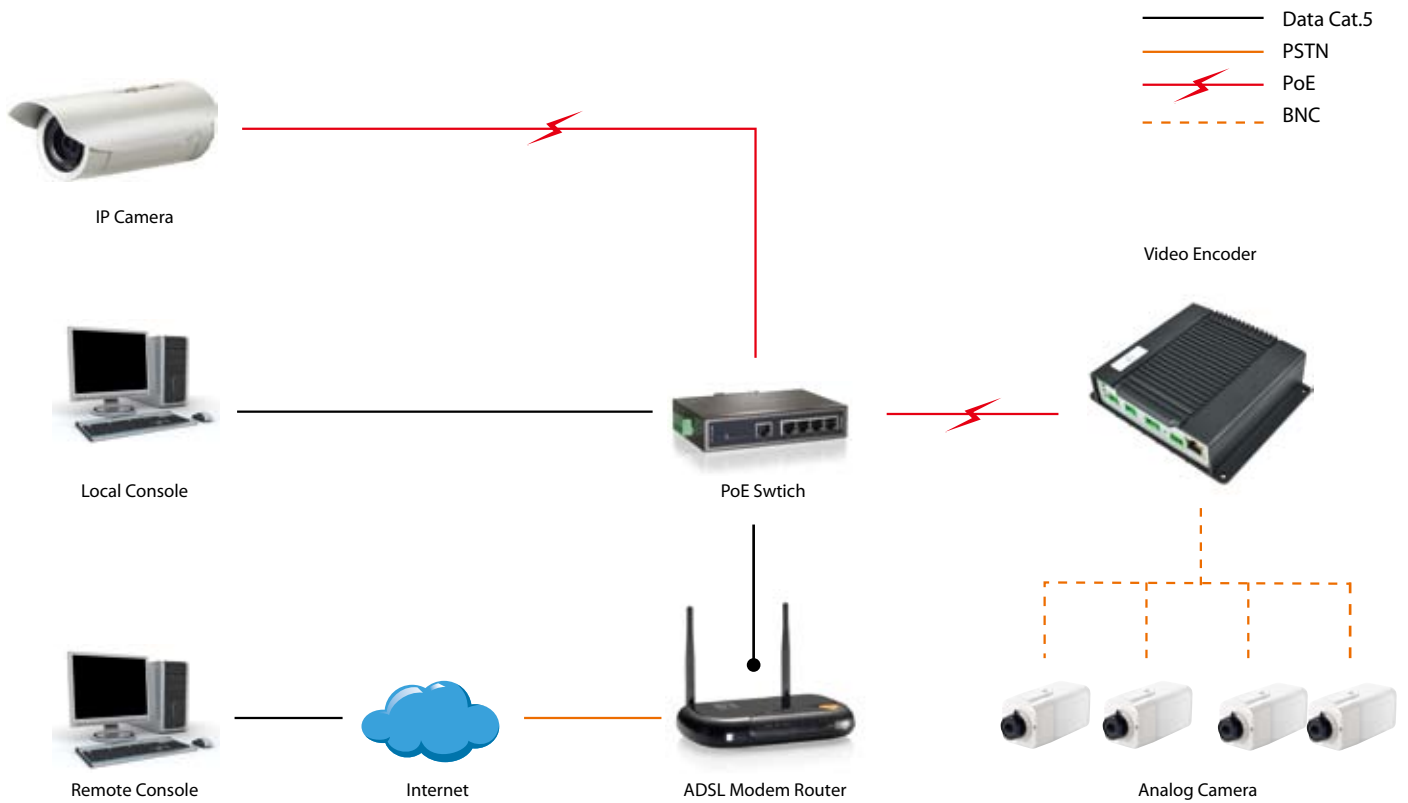
• System Requirements*

Display Mode	Live Layout	Channels	
		1-1,600	1,601-Unlimited
Server PC with Local Client	1-16	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
	17-64	Intel i5 2.4 GHz, 4GB RAM	Intel i7-920 2.67 GHz, 4GB RAM
Server PC without Local Client	0	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
Remote Client PC	1-16	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
	17-64	Intel i5 2.4 GHz, 4GB RAM	Intel i7-920 2.67 GHz, 4GB RAM
Operating System	Windows 7, Windows Server 2008, Windows Server 2003 SP2, Windows XP Professional SP3		
Browser	Microsoft Internet Explorer 8.0, 9.0, 10.0		

• Integration

Open Platform Solution	Support ONVIF compliant devices
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* These specifications are based on following camera settings:
 Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4
 Dual stream mode:
 Stream 1 : 1280x1024, 3Mbps, 18fps, H.264
 Stream 2 : 640x480, High Quality, 18fps, MJPEG



FCS-7004

4-Channel Video Encoder, 802.3af PoE

- 4 channels up to 30fps in D1 resolution per channel – total 120fps
- Real time H.264 High profile, MJPEG compression
- Dual Stream simultaneously
- Powered by DC12; 802.3af
- 2 Way Audio (line in, Line-out)
- 2 way Audio (Line, line out) X4
- free bundle 64 channel software with Smart Search
- IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
- DI/DO X4
- RS-485 & RS-422
- MicroSD/MicroSDHC/MicroSDXC memory card slot (card not included)

Network Video Recorders



NVR-1204
4-Channel Network Video Recorder



NVR-1209
9-Channel Network Video Recorder



NVR-1216
16-Channel Network Video Recorder

Model	NVR-1204	NVR-1209	NVR-1216
Product Type	Tower NVR	Tower NVR	Tower NVR
Maximum Number of Cameras	4	9	16
Free License	4	9	16
Maximum Resolution	10-Megapixel	10-Megapixel	10-Megapixel
Compression	H.264	H.264	H.264
Connector	Network	1 x 10/100/1000Mbps RJ-45, 1 x 10/100Mbps RJ-45	1 x 10/100/1000Mbps RJ-45, 1 x 10/100Mbps RJ-45
	Audio	-	-
	Video	1 x HDMI	1 x HDMI
	DI/DO	-	-
	USB	2 x USB2.0	2 x USB2.0
	Others	-	-
Throughput	16Mbps (Inbound)	36Mbps (Inbound)	48Mbps (Inbound)
HDD Interface	Maximum 2 SATA disks	Maximum 2 SATA disks	Maximum 2 SATA disks
PoE	Standard	-	-
	Power Budget	-	-
	Max. Power Per Port	-	-
Synchronized Playback	4	9	16
Remote Access	IE Browser, App (iOS & Android)	IE Browser, App (iOS & Android)	IE Browser, App (iOS & Android)
Video Export	AVI/RAW	AVI/RAW	AVI/RAW
ONVIF Compliant	V	V	V
Operating Temperature	0 °C ~ 40 °C (32°F ~ 104°F)	0 °C ~ 40 °C (32°F ~ 104°F)	0 °C ~ 40 °C (32°F ~ 104°F)
Optional Accessories	-	-	-



NVR-0316
16-Channel Network Video Recorder



NVR-0437
32-Channel PoE Network Video Recorder,
H.264/265, 16 PoE Outputs



NVR-5500
200-Channel Network Video Recorder, RAID

Model	NVR-0316	NVR-0437	NVR-5500	
Product Type	Desktop NVR	19" Rack Mount NVR	19" Rack Mount NVR	
Maximum Number of Cameras	16	32	200	
Free License	16	32	64	
Maximum Resolution	5-Megapixel	12-Megapixel	10-Megapixel	
Compression	H.264 / MPEG-4 / MJPEG	H.265/H.264+/H.264/MPEG4	H.264 / MPEG-4 / MJPEG	
Connector	Network	1 x 10/100/1000Mbps RJ-45	2 x 10/100/1000Mbps RJ-45	
	Audio	1 x line in, 1 x line out, 1 x Microphone in	1 x line in, 1 x line out	-
	Video	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA	2 x HDMI, 1 x VGA
	DI/DO	-	1 x DI/DO	-
	USB	2 x USB2.0	1 x USB3.0, 2 x USB2.0	8 x USB2.0
	Others	-	1 x RS232, 1 x RS485	1 x PS/2, 1 x eSATA, 1 x RS232
Throughput	64Mbps (Inbound)	512Mbps (Inbound: 256Mbps, Outbound: 256Mbps)	300Mbps (Inbound)	
HDD Interface	Maximum 2 SATA disks	Maximum 4 SATA disks	Maximum 8 SATA disks (RAID 0, 1, 5, 10)	
PoE	Standard	-	IEEE 802.3at	-
	Power Budget	-	200W	-
	Max. Power Per Port	-	30W	-
Synchronized Playback	4	16	64	
Remote Access	IE/Chrome Browser, App (iOS & Android)	IE Browser, App (iOS & Android)	IE Browser, App (iOS & Android)	
Video Export	AVI	MP4	AVI/RAW	
ONVIF Compliant	V	V	V	
Operating Temperature	5 °C ~ 45 °C	- 10 °C ~ 55 °C (14°F ~ 131°F)	0 °C ~ 40 °C (32°F ~ 104°F)	
Optional Accessories	-	-	CAS-1210 19" sliding rail set CAS-1211 26" sliding rail set	

Network Video Recorders

NEW

NVR-0504
4-Channel PoE Network Video Recorder,
H.264/265, 4 PoE Outputs

NEW

NVR-0508
8-Channel PoE Network Video Recorder,
H.264/265, 8 PoE Outputs

NEW

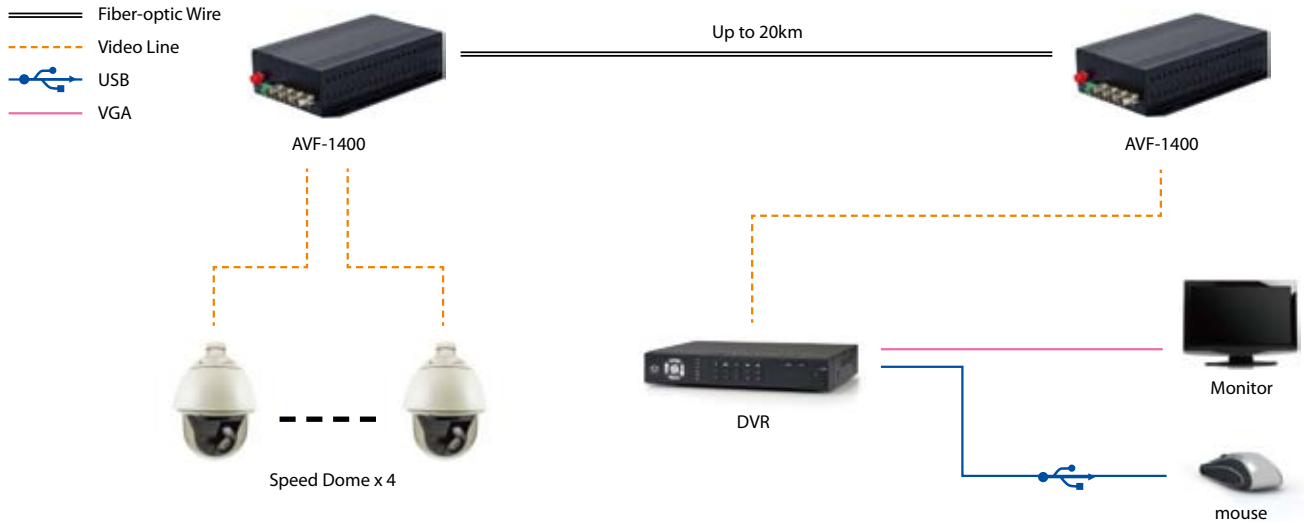
NVR-1316
16-Channel Network Video Recorder, H.264/265

Model	NVR-0504	NVR-0508	NVR-1316
Product Type	Desktop NVR	Desktop NVR	19" Rack Mount NVR
Maximum Number of Cameras	4	8	16
Free License	4	8	16
Maximum Resolution	8-Megapixel	8-Megapixel	12-Megapixel
Compression	H.265/H.264+/H.264/MPEG4	H.265/H.264+/H.264/MPEG4	H.265/H.264+/H.264/MPEG4
Connector	Network	1 x 10/100Mbps RJ-45, 4 x 10/100Mbps PoE RJ-45	1 x 10/100/1000Mbps RJ-45, 8 x 10/100Mbps PoE RJ-45
	Audio	1 x line in, 1 x line out	1 x line in, 1 x line out
	Video	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA
	DI/DO	-	1 x DI/DO
	USB	1 x USB2.0	1 x USB3.0
	Others	-	-
Throughput	120Mbps (Inbound: 40Mbps, Outbound: 80Mbps)	240Mbps (Inbound: 80Mbps, Outbound: 160Mbps)	316Mbps (Inbound: 160Mbps, Outbound: 256Mbps)
HDD Interface	Maximum 1 SATA disks	Maximum 2 SATA disks	Maximum 4 SATA disks
PoE	Standard	IEEE 802.3at	-
	Power Budget	40W	-
	Max. Power Per Port	30W	-
Synchronized Playback	4	8	16
Remote Access	IE Browser, App (iOS & Android)	IE Browser, App (iOS & Android)	IE Browser, App (iOS & Android)
Video Export	MP4	MP4	MP4
ONVIF Compliant	V	V	V
Operating Temperature	- 10 °C ~ 55 °C (14°F ~ 131°F)	- 10 °C ~ 55 °C (14°F ~ 131°F)	- 10 °C ~ 55 °C (14°F ~ 131°F)
Optional Accessories	-	-	-

The LevelOne AVF Video over Fiber Converter series is designed to transmit composite video signals over long distances via optical fiber. An ideal solution for analogue surveillance and Video Wall System applications.

Key Features

- Transmits analogue video signal over single fiber cable
- Uncompressed high quality video transmission
- Transmit up to 20 km without optical attenuation
- No RF interference or signal degradation over optical fiber
- No EMI and electromagnetic interference
- LED indicator status for instance system monitoring
- True Plug & Play design facilitates ease of installation
- Operation temperature -25 to 75 C (-13 to 167 F)



AVF-1000
1-Channel BNC over Fiber Extender Kit, RS485, 20km



AVF-1100
1-Channel BNC over Fiber Extender Kit, 20km



AVF-1160
16-Channel BNC over Fiber Extender Kit, 20km



AVF-1160R
16-Channel BNC over Fiber Extender Kit, 20km, Rack Mount

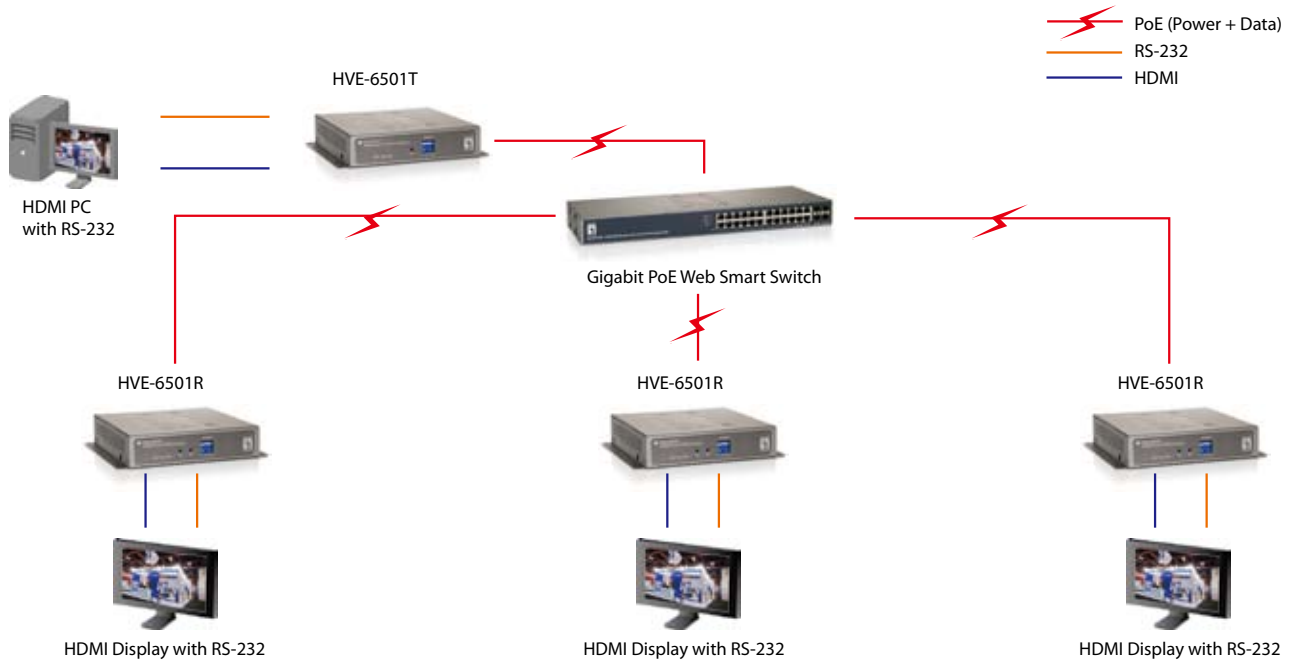


AVF-1200/AVF-1400/AVF-1800
2/4/8-Channel BNC over Fiber Extender Kit, 20km

Video Extender Comparison					
Model	AVF-1000	AVF-1100	AVF-1160	AVF-1160R	AVF-1200/AVF-1400/AVF-1800
Operating Distance	20km	20km	20km	20km	20km
Port	1 x BNC	1 x BNC	16 x BNC	16 x BNC	2/4/8 x BNC
RS-485	V	-	-	-	-
Rack-Mount	-	-	-	V	-
Accessory	CVH-2100 : Video Extender Chassis, 18-Slot, 3U, 19"				

LevelOne Digital Signage solutions provide several audio/video extenders allowing users to transmit high -quality signals (VGA, DVI, HDMI) over PoE IP or Cat.5. This solution enable for delivery compelling digital contents to targeted audience in various locations.

HDMI over IP Distribution Solution



HDMI over IP

- Complies with IEEE802.3af standard
- Plug and Play installation allows receivers to find the transmitter automatically in the same network.
- Multi-casting group with Gigabit Ethernet switch (required 802.1Q VLAN & IGMP function)
- Supports Point-to-Point, Point-to-Many and Many-to-Many network configuration
- Up to 16 transmitters and more than 200 receivers possible in a single system (HVE-6501T/HVE-6501R)
- Up to 9 transmitters and 81 receivers possible in a single video wall system (HVE-6601T/HVE-6601R)



HVE-6501T / HVE-6501R
HDMI over IP PoE Transmitter / Receiver



HVE-6601T / HVE-6601R
HDMI Video Wall over IP PoE Transmitter / Receiver

HDMI over IP Comparison				
Model	HVE-6501T	HVE-6501R	HVE-6601T	HVE-6601R
Transmitter /Receiver/Repeater	Transmitter	Receiver	Transmitter	Receiver
HDMI Input	1	-	1	-
HDMI Output	-	1	-	1
RJ45 Port	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
Resolution	1080p	1080p	1080p	1080p

HDMI over Cat.5

- Transmission Distance of up to 60m for 1080i or 40m for 1080p
- Easy installation and no software required
- Flexible multi-location audio/video broadcasting



HVE-9001/HVE-9000
HDSpider™ HDMI over Cat.5 Long Range Transmitter/Receiver



HVE-9002/HVE-9003
HDSpider™ HDMI over Cat.5 Transmitter with Local HDMI Output (Cascadable- HVE-9003)



HVE-9004
HDSpider™ 4-Port HDMI over Cat.5 Transmitter



HVE-9008
HDSpider™ 8-Port HDMI over Cat.5 Transmitter



HVE-9900
HDSpider™ HDMI over Cat.5 Short Range Receiver



HVE-9005
HDMI over Cat.5 Extender Kit

HDMI over Cat.5 Comparison						
Model	HVE-9001/HVE-9000	HVE-9002/HVE-9003	HVE-9004	HVE-9008	HVE-9900	HVE-9005
Transmitter /Receiver	Transmitter/Receiver	Transmitter	Transmitter	Transmitter	Receiver	Transmitter/Receiver
RJ45 Port	1/1	1/2	4	8	1	1/1
HDMI Input	1/-	1/-	1	1	-	1/-
HDMI Output	-/1	1	-	1	1	-/1
Audio Support	V	V	V	V	V	V

HDMI over Cat.5 Extender, 300m, 4K2K

- Extends Ultra HD HDMI signal 300m over single STP/UTP cable
- Displays up to 4K resolution, scaler built-in at Receiver
- Automatic or manual EDID management selectable
- Built-in video tuner to adjust focus and gain at Receiver
- Locking power and HDMI connectors
- Superior heat management, increase system stability
- Mounting accessories available (optional purchase)



HVE-9100 (HVE-9111T + HVE-9111R)
HDMI over Cat.5 Extender Kit, 300m, 4K2K



HVE-9111T
HDMI over Cat.5 Transmitter, 300m



HVE-9111R
HDMI over Cat.5 Receiver, 300m, 4K2K



HVE-9111RF
HDMI over Cat.5 Receiver, 300m, 1080p



HVE-9114T
HDMI over Cat.5 Transmitter, 300m, 4 Channel Outputs



HVE-9118T
HDMI over Cat.5 Transmitter, 300m, 8 Channel Outputs

HDMI over Cat.5 Comparison					
Model	HVE-9111T	HVE-9111R	HVE-9111RF	HVE-9114T	HVE-9118T
Transmitter /Receiver	Transmitter	Receiver	Receiver	Transmitter	Transmitter
RJ45 Port	1	1	1	4	8
HDMI Input	1	-	-	1	1
HDMI Output	-	1	1	-	-
Audio Support	V	V	V	V	V
Resolution	-	4K	1080p	-	-

HDMI over Cat.5 Extender Series, HDBaseT, 100m, 4K2K

- Plug and Play - no driver or software installation needed
- Built-in EDID Hot Plug Detection (HPD)
- HDMI outputs with EDID management
- Maximum distance of HDMI, IR, and RS-232 up to 100m
- Bi-Directional RS-232 pass through and IR Control
- Supports video resolutions up to Ultra HD 3840 x 2160 (4K x 2K) @ 30Hz and 1080p Full HD
- Full HDCP and HDMI Compliance
- Support Dolby TrueHD, DTS-HD Master Audio, Dolby Digital Plus, LPCM 7.1 audio.
- Support 3D, CEC & Lip Sync pass-through
- Screw-in power socket for added safety



HVE-9200
HDMI over Cat.5 Extender Kit, HDBaseT,
100m



HVE-9200P
HDMI over Cat.5 Extender Kit, HDBaseT, 100m,
802.3af PoE



HVE-9211PR
HDMI over Cat.5 Receiver, HDBaseT, 100m,
802.3af PoE



HVE-9211R
HDMI over Cat.5 Receiver, HDBaseT, 100m



HVE-9214PT
HDMI over Cat.5 Transmitter, HDBaseT, 100m,
4 Channel Outputs, 802.3af PoE



HVE-9214T
HDMI over Cat.5 Transmitter, HDBaseT,
100m, 4 Channel Outputs

HDBaseT HDMI over Cat.5 Comparison						
Model	HVE-9200	HVE-9200P	HVE-9211PR	HVE-9211R	HVE-9214PT	HVE-9214T
Transmitter/Receiver	Transmitter / Receiver	Transmitter / Receiver	Receiver	Receiver	Transmitter	Transmitter
RJ-45 Port	1 / 1 (Receiver)	1 / 1 (Receiver)	1	1	4	4
HDMI Input	1 (Transmitter)	1 (Transmitter)	-	-	1	1
HDMI Output	1 (Receiver)	1 (Receiver)	1	1	-	-
Audio Support	V	V	V	V	V	V
PoE	-	V	V	-	V	-

Power Adapter



Models	POW-4801
Name	48V DC Power Adapter
Output	
DC Voltage	48VDC
Current Range	1.35A
Rated Power	64.8W
Input	
110 - 240VAC	V
Mechanical	
Casing	plastic
Installation*	-
Operating Temperature	
0°C to 40°C	V
-40°C to 75°C	-
Output Connector	
DC Jack with latch	V
Open Wire for Terminal Block	V
DC Plug	V



Home

Networking

Ethernet Switch	54
Network Card	55-56
Broadband Router / Print Server / Wireless Range Extender	57
KVM Switch	58

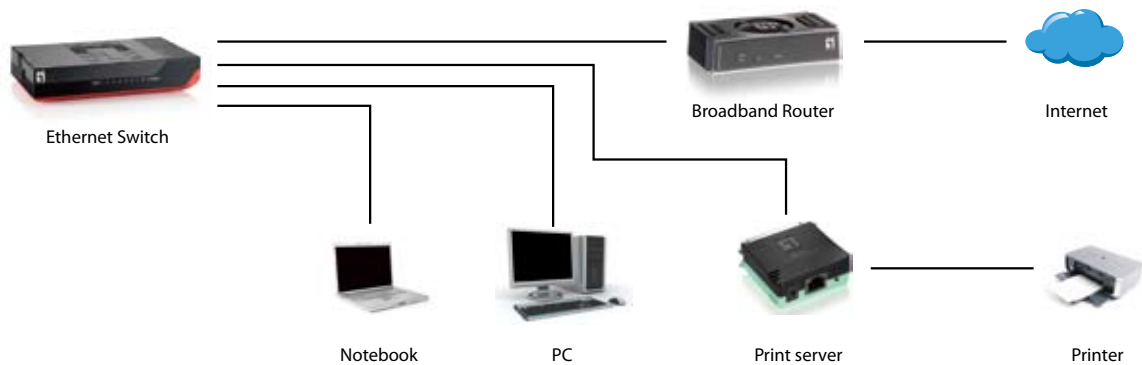
Security

Network Camera	59-60
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Allowing users to either create a Local Area Network (LAN) or connect additional network devices, such as network cameras, storage devices or print servers. The built-in store-and-forward architecture filters errors and forwards packets in a non-blocking environment.

Key Features

- Complies with IEEE 802.3(10Mbps), 802.3u(100Mbps), 802.3ab (1000Mbps)
- Features store-and-forward architecture
- Provides half-duplex and full-duplex auto-detection
- Supports Auto-MDI/MDI-X for each port
- Front-panel diagnostic LEDs
- Wire-speed and non-blocking forwarding rate
- Supports IEEE 802.3x full-duplex / half-duplex backpressure flow control



Unmanaged Fast Ethernet Switch

Unmanaged Gigabit Ethernet Switch



FSW-0508TX
5-Port Fast Ethernet Switch



FSW-0808TX
8-Port Fast Ethernet Switch



GSW-0507
5-Port Gigabit Switch

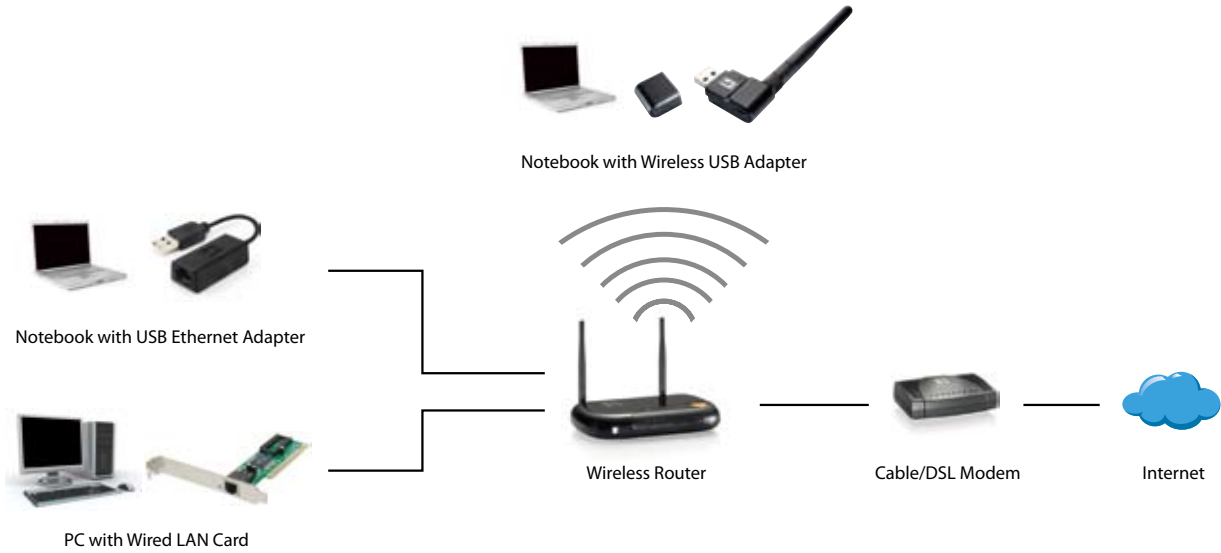


GSW-0807
8-Port Gigabit Switch



Ethernet Switch Comparison				
Model	FSW-0508TX	FSW-0808TX	GSW-0507	GSW-0807
10/100 Mbps Port	5	8	-	-
10/100/1000 Mbps Port	-	-	5	8
Mac Address Table	2K	1K	8K	8K
Jumbo Frame	-	-	9K	9K
Buffer Memory	48KB	96KB	125KB	125KB
Green Technology	-	-	V	V

The LevelOne USB Network Adapter allow you to connect to the Internet easily through the built-in USB port on your laptop or gaming console. Network PCI Card are highly integrated and cost-effective add-on solution for desktop PC.



Wired Network Adapter



USB-0301
Fast Ethernet USB Network Adapter



USB-0401
Gigabit USB Network Adapter

NEW



USB-0402
Gigabit USB-C Network Adapter



USB-0502
Gigabit USB Network Adapter, USB Hub

Wired Network Adapter Comparison				
Model	USB-0301	USB-0401	USB-0402	USB-0502
Interface	USB 2.0	USB 3.0	USB 3.0	USB 3.0
Ethernet Port	1 x 10/100Mbps	1x 10/100/1000Mbps	1x 10/100/1000Mbps	1 x 10/100/1000Mbps
Jumbo Frame	-	4K	9K	4K
Wake-on-LAN	V	V	V	V
Mac OS Compatible	V	V	V	V
USB Hub	-	-	-	3 x USB3.0

Wireless Network Adapter

- Supports Auto-Channel Selection to avoid interference from neighbors
- Supports 64/128-bit WEP, WPA, WPA2 encryption for high level security
- Operation at 2.4/5GHz frequency band to meet worldwide regulations



WUA-0605
N300 Wireless USB Network Adapter



NEW

WUA-1810A (1-11CH)
WUA-1810E (1-13CH)
AC1200 Dual Band Wireless USB Network Adapter

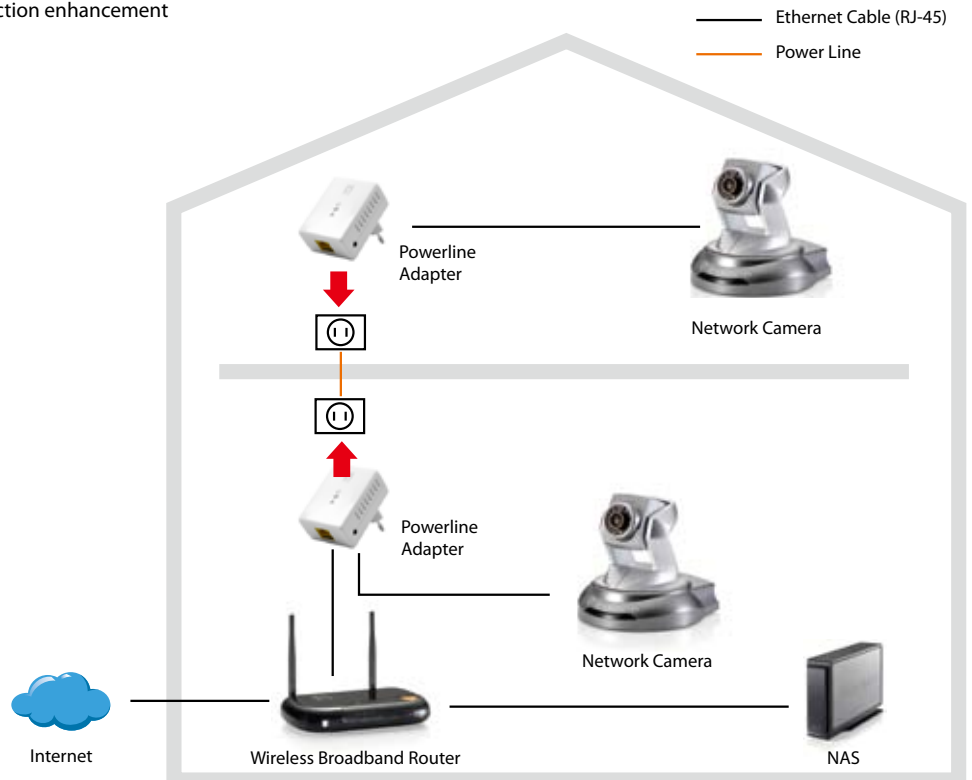
Wireless Network Adapter Comparison		
Model	WUA-0605	WUA-1810A/WUA-1810E
Interface	USB 2.0	USB 3.0
Antenna	2 x 2dBi Internal	2 x 5dBi Detachable
Wireless	300Mbps (11b/g/n)	300Mbps 2.4GHz, 867Mbps 5GHz (11b/g/n/ac)
WPS	V	V

Powerline Network Adater

- Extends your home network through existing electrical wiring with data transfer speeds of up to 500Mbps
- QoS control for traffic prioritization and bandwidth management
- Security push button for software free configuration
- Simple Plug and Play installation
- Compact, lightweight design
- 128-bit AES encryption for network protection enhancement



PLI-4052
500Mbps Powerline Adapter, EU Power Plug



Broadband Router



WBR-6013
N300 Wireless Router



WGR-8031
AC1200 Dual Band Wireless Gigabit Router

Broadband Router Comparison		
Model	WBR-6013	WGR-8031
LAN	4 x 10/100Mbps	4 x 10/100/1000Mbps
WAN (Internet)	1 x 10/100Mbps	1 x 10/100/1000Mbps
Wireless	300Mbps (802.11b/g/n)	1200Mbps (802.11a/b/g/n/ac)
Antenna	2 x 5dBi Fixed	2 x 5dBi Dual Band Fixed
WDS	-	-
WPS	✓	✓
Built-in modem	-	-
Wireless Signal On/Off	✓	✓
Green Technology	-	-

Print Server

- Supports multiple operating systems
- Supports multiple network printing protocols
- Easy to use web-based user interface
- Includes Internet Printing Protocol (IPP) support



FPS-1031
Parallel Print Server



FPS-1032
USB Print Server

Print Server Comparison		
Model	FPS-1031	FPS-1032
Parallel/USB Port	1 x Parallel	1 x USB

Wireless Range Extender

- Provides stable signals and extends coverage
- Compatible with IEEE 802.11a/b/g/n/ac wireless standards
- Simple wireless connectivity and security with WPS push button
- Share your wireless network up to 300/1200Mbps



WRE-8011E
AC1200 Dual Band Wireless Range Extender, EU Power Plug



WRE-6001C
N300 Wireless Range Extender, EU Power Plug

Wireless Range Extender Comparison		
Model	WRE-8011E	WRE-6001C
Wireless	1200Mbps (802.11a/b/g/n/ac)	300Mbps (11b/g/n)
Antenna	2 x 3dBi 2.4G Internal 2 x 4dBi 5G Internal	2 x 3dBi Internal
PoE	-	-
Power Supply	Internal	Internal
Frequency Range	2.4GHz/5GHz	2.4GHz
Multiple-SSID	8 (2.4GHz & 5GHz)	-
Operating Mode	Repeate/Bridge/AP	Repeate/AP
IP Rating	-	-

KVM Switch

Cable KVM Switch

- Plug and Play operation, no software installation or power supply required
- LED display for easy status monitoring
- Easy switching between computers with auto-scan, keyboard hotkeys and push button selection



KVM-0260
2-Port USB DVI-I Dual Link Cable KVM Switch, two-way audio



KVM-0290
2-Port USB HDMI Cable KVM Switch



KVM-0223
2-Port USB VGA Cable KVM Switch, VGA, USB, two-way audio

Cable KVM Switch Comparison				
	Model	KVM-0260	KVM-0290	KVM-0223
PC Port	Keyboard/Mouse	USB	USB	USB
	Video	DVI-D	HDMI	VGA
	Audio / Microphone	Audio/Microphone	-	Audio/Microphone
Console Port	Keyboard/Mouse	USB	USB	USB
	Video	DVI-D	HDMI	VGA
	Audio / Microphone	Audio/Microphone	-	Audio/Microphone
Feature	No. of computers managed	2	2	2
	Resolution	1920 x 1200	1920 x 1200	2048 x 1536

Desktop KVM Switch

- Slim and stylish design for minimizing desktop footprint
- Plug-and-play operation, no software installation or power supply required



KVM-0221
2-Port USB KVM Switch with Audio



KVM-0222
2-Port USB KVM Switch



KVM-0421
4-Port USB KVM Switch with Audio



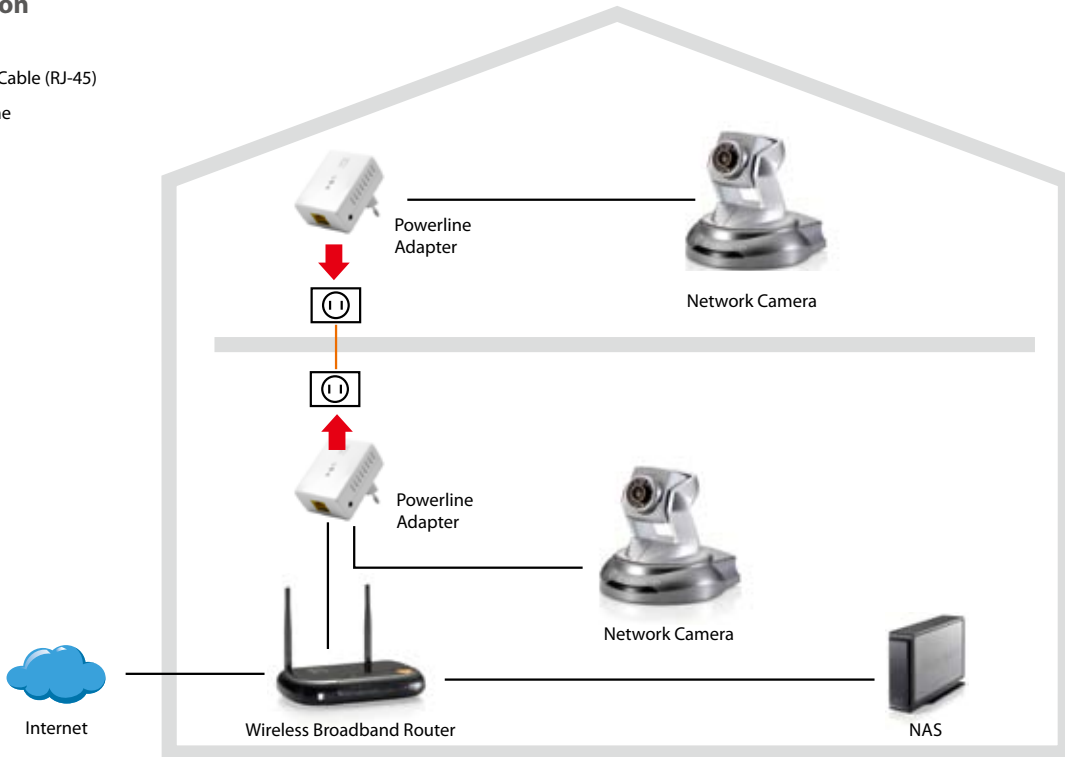
KVM-0422
4-Port USB KVM Switch

Desktop KVM Switch Comparison					
	Model	KVM-0221	KVM-0222	KVM-0421	KVM-0422
PC Port	Keyboard/Mouse	USB	USB	USB	USB
	Video	VGA	VGA	VGA	VGA
	Audio / Microphone	Audio / Microphone	-	Audio / Microphone	-
Console Port	Keyboard/Mouse	USB	USB	USB	USB
	Video	VGA	VGA	VGA	VGA
	Audio / Microphone	Audio / Microphone	-	Audio / Microphone	-
Feature	No. of computers managed	2	2	4	4
	Resolution	2048 x 1536	2048 x 1536	2048 x 1536	2048 x 1536

From Wired, wireless, day and night, pan/tilt/zoom to indoor and outdoor. All LevelOne cameras come with free Free 64-CH Monitoring Software (supports Apple/Android App) that enables users to view, manage, and capture streaming images from any location over the Internet.

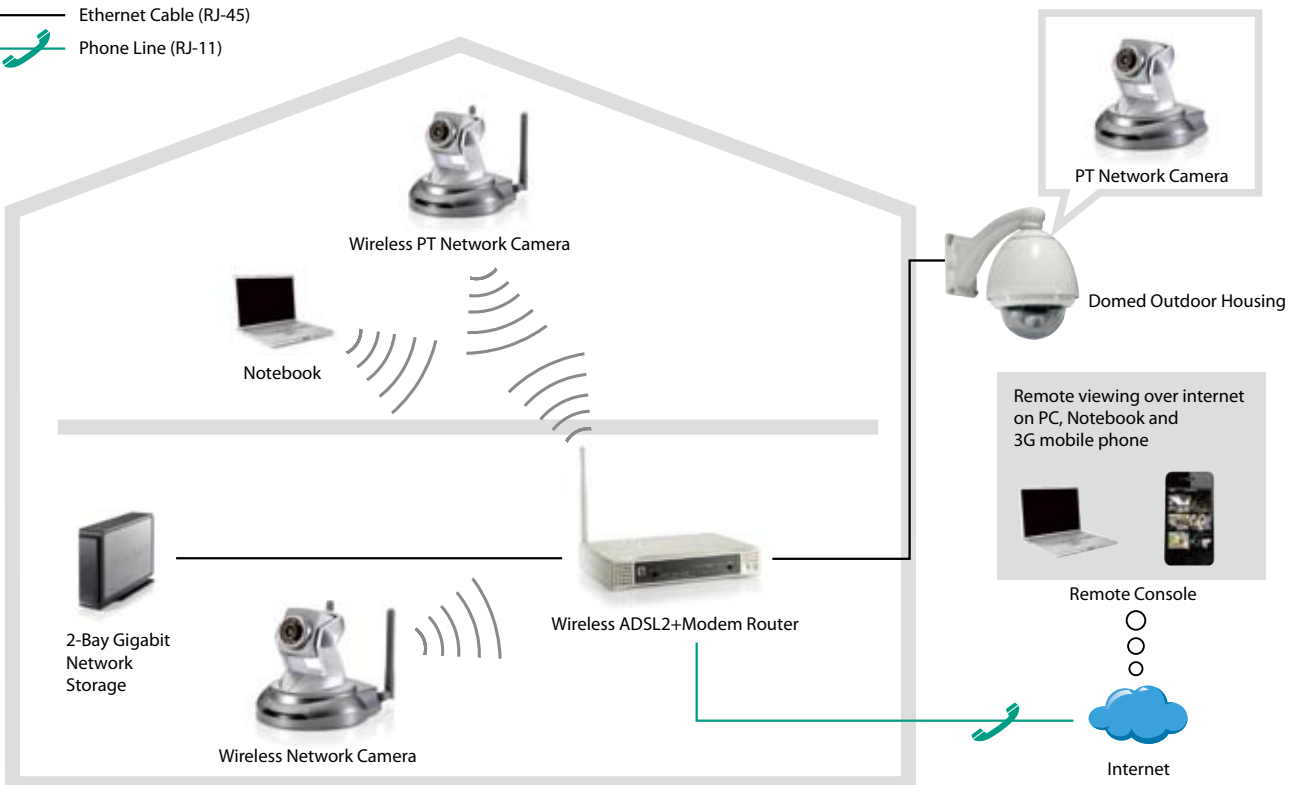
Indoor Solution

- Ethernet Cable (RJ-45)
- Power Line



Outdoor Solution

- Ethernet Cable (RJ-45)
- Phone Line (RJ-11)



Fixed Network Cameras



FCS-0051
Fixed Network Camera, 5-Megapixel, 802.3af PoE



FCS-0032
Fixed Network Camera, 3-Megapixel, 802.3af PoE

Fixed Network Cameras Comparison		
Model	FCS-0051	FCS-0032
Sensor / Resolution	CMOS 5M, 15fps at 2592 x 1944	CMOS 3M, 15 fps at 2048 x 1536
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264 High Profile, MJPEG	H.264/MJPEG
Lens type	Fixed focal, f2.8mm / F2.0, Fixed iris, Manual focus	Fixed focal, f3.6mm / F2.0, Fixed iris, Fixed focus
Horizontal viewing Angle	92.6°	70.8°
ICR (IR-Cut Filter Removal)	-	-
IRLED /Type/ Distance	-	-
Digital Noise Reduction	2DNR	2DNR
Wide Dynamic Range	Basic WDR (74 dB)	-
Pan/Tilt/Zoom	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software
Power Input	802.3af PoE	802.3af PoE
Audio	2-way (Built-in Microphone, Line-out)	-
Local storage	MicroSDHC/MicroSDXC memory card slot (card not included)	-
Operation Temperature	-10°C ~ 45°C (14°F ~ 113°F)	-10°C ~ 45°C (14°F ~ 113°F)
Approvals	CE, FCC	CE, FCC

P/T/Z Network Cameras



FCS-6020
PT Network Camera, 2-Megapixel,
802.3af PoE, IR LEDs



WCS-6020
PT Network Camera, 2-Megapixel, 150Mbps
802.11n, IR LEDs



WCS-6050
PT Network Camera, 5-Megapixel, 150Mbps
802.11n, IR LEDs



FCS-1041
PTZ Network Camera, 2-Megapixel,
802.3af PoE, 10x Optical Zoom

P/T/Z Network Cameras Comparison				
Model	FCS-6020	WCS-6020	WCS-6050	FCS-1041
Sensor / Resolution	CMOS 2M, 30fps at 1092 x 1080	CMOS 2M, 30fps at 1092 x 1080	CMOS 5M, 10fps at 2060 x 1920	CMOS 2M, 30 fps at 1920x1080
AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES	AGC/AWB/AES
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MJPEG	H.264, MPEG4, MJPEG
Lens type	Fixed focal, f4.0mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f4.0mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f4.0mm / F2.0, Fixed iris, Fixed focus	Zoom, f=4.9-49mm/F1.8-3.0, Auto iris, Auto-focus
Horizontal viewing Angle	62°	62°	62°	66.6°
ICR (IR-Cut Filter Removal)	V	V	V	V
IRLED /Type/ Distance	10M	10M	10M	-
Digital Noise Reduction	2DNR	2DNR	2DNR	3DNR
Wide Dynamic Range	-	-	-	Basic WDR (74 dB)
Pan/Tilt/Zoom	355° / 135° / -	355° / 135° / -	355° / 135° / -	355° / 135° / Optical Zoom 10X, Digital Zoom 4X
Power Input	DC12V 1.5A / 802.3af PoE	DC12V 1.5A	DC12V 1.5A	DC12V 1.5A / 802.3af PoE
Audio	2-way (Built-in microphone, Line-out)	2-way (Built-in microphone, Line-out)	2-way (Built-in microphone, Line-out)	2-way (Built-in microphone, Line-out)
Local storage	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	SD/SDHC card slot (card not included)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC



Industrial

Networking

Media Converter	62-63
Switch	64-69
PoE Injector	69
Fiber Optical Transceiver	70-71

Power

Power Supply Unit	72-74
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Unmanaged Fast Ethernet



IEC-1000
RJ45 to SC Fast Ethernet Industrial Media Converter, -40°C to 75°C, Multi-Mode Fiber



IEC-1020
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 20km, -40°C to 75°C



IEC-1040
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 40km, -40°C to 75°C



IEC-1100
RJ45 to SC Fast Ethernet Industrial Media Converter, Multi-Mode Fiber, 2km, -10°C to 60°C



IEC-1120
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 20km, -10°C to 60°C

Model	IEC-1000	IEC-1020	IEC-1040	IEC-1100	IEC-1120
Media Conversion	RJ45 to MMF SC	RJ45 to SMF SC	RJ45 to SMF SC	RJ45 to MMF SC	RJ45 to SMF SC
Data Rate	100Mbps	100Mbps	100Mbps	100Mbps	100Mbps
Operating Distance	2km	20km	40km	2km	20km
Operation Temperature	-40°C to 75°C	-40 to 75°C	-40 to 75°C	-10 to 60°C	-10 to 60°C
Power Input	10-48VDC (Terminal Block) 12VDC (DC Jack)	10-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)

Unmanaged Fast Ethernet



IEC-1140
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 40km, -10°C to 60°C



IEC-1800
RJ45 to SC Fast Ethernet Industrial Media Converter, Multi-Mode Fiber, 2km, -40°C to 75°C, IEC61850



IEC-1820
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 20km, -40°C to 75°C, IEC61850



IEC-1840
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode Fiber, 40km, -40°C to 75°C, IEC61850



IEC-4000
RJ45 to SFP Fast Ethernet Industrial Media Converter, -40°C to 75°C

Model	IEC-1140	IEC-1800	IEC-1820	IEC-1840	IEC-4000
Media Conversion	RJ45 to SMF SC	RJ45 to MMF SC	RJ45 to SMF SC	RJ45 to SMF SC	RJ45 to SFP
Data Rate	100Mbps	100Mbps	100Mbps	100Mbps	100Mbps
Operating Distance	40km	2km	20km	40km	Depends on transceiver
Operation Temperature	-10°C to 60°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Power Input	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-60VDC (Terminal Block) 18-36VAC (Terminal Block)

Unmanaged Fast Ethernet



IEC-4001
RJ45 to SC Fast Ethernet Industrial Media Converter, Multi-Mode
Fiber, 2km, -40°C to 75°C



IEC-4002
RJ45 to ST Fast Ethernet Industrial Media Converter, Multi-Mode
Fiber, 2km, -40°C to 75°C



IEC-4301
RJ45 to SC Fast Ethernet Industrial Media Converter, Single-Mode
Fiber, 30km, -40°C to 75°C

Model	IEC-4001	IEC-4002	IEC-4301
Media Conversion	RJ45 to MMF SC	RJ45 to MMF ST	RJ45 to SMF SC
Data Rate	100Mbps	100Mbps	100Mbps
Operating Distance	2km	2km	30km
Operation Temperature	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Power Input	12-60VDC (Terminal Block) 18-36VAC (Terminal Block)	12-60VDC (Terminal Block) 18-36VAC (Terminal Block)	12-60VDC (Terminal Block) 18-36VAC (Terminal Block)

Unmanaged Gigabit Ethernet



IEC-2000
RJ45 to SFP Gigabit Industrial Media Converter, -40°C to 75°C



IEC-2001
RJ45 to SC Gigabit Industrial Media Converter, Multi-Mode
Fiber, 550m, -40°C to 75°C



IEC-2002
RJ45 to SC Gigabit Industrial Media Converter, Multi-Mode
Fiber, 2km, -40°C to 75°C

Model	IEC-2000	IEC-2001	IEC-2002
Media Conversion	RJ45 to SFP	RJ45 to MMF SC	RJ45 to MMF SC
Data Rate	1000Mbps	1000Mbps	1000Mbps
Operating Distance	Depends on transceiver	550m	2km
Operation Temperature	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Power Input	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)	12-48VDC (Terminal Block) 12VDC (DC Jack)

Unmanaged Fast Ethernet



IFS-0501
5-Port Fast Ethernet Industrial Switch, -40°C to 75°C



IFS-0502
5-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, 2km, -40°C to 75°C



IFS-0503
5-Port Fast Ethernet Industrial Switch, 1 x SC Single-Mode Fiber, 30km, -40°C to 75°C



IFS-0504
5-Port Fast Ethernet Industrial Switch, 1 x ST Multi-Mode Fiber, 2km, -40°C to 75°C



IES-0500
5-Port Fast Ethernet Industrial Switch, -20°C to 70°C

Model	IFS-0501	IFS-0502	IFS-0503	IFS-0504	IES-0500
RJ45 Port	5 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	5 x 10/100Mbps
RJ45 PoE Port	-	-	-	-	-
Fiber Port	-	1 x 100BASE-FX MMF SC	1 x 100BASE-FX SMF SC	1 x 100BASE-FX MMF ST	-
MAC Table	1K	1K	1K	1K	2K
Buffer Memory	1Mbit	1Mbit	1Mbit	1Mbit	384Kbit
Jumbo Frame	-	-	-	-	-
PoE	-	-	-	-	-
PoE Power Budget	-	-	-	-	-
Power Input	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	12-48VDC (Terminal Block)
Operation Temperature	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C	-20°C to 70°C
Optional Accessories	-	-	-	-	-

Unmanaged Fast Ethernet



IES-0510
5-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, -20°C to 70°C



IES-0520
5-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, -40°C to 85°C



IES-0820
8-Port Fast Ethernet Industrial Switch, -40°C to 75°C



IES-0830
8-Port Fast Ethernet Industrial Switch, IEC61850, -40°C to 85°C



IES-0831
8-Port Fast Ethernet Industrial Switch, 2 x SC Multi-Mode Fiber, IEC61850, -40°C to 85°C

Model	IES-0510	IES-0520	IES-0820	IES-0830	IES-0831
RJ45 Port	4 x 10/100Mbps	4 x 10/100Mbps	8 x 10/100Mbps	8 x 10/100Mbps	6 x 10/100Mbps
RJ45 PoE Port	-	-	-	-	-
Fiber Port	1 x 100BASE-FX MMF SC	1 x 100BASE-FX MMF SC	-	-	2 x 100BASE-FX MMF SC
MAC Table	2K	2K	2K	2K	2K
Buffer Memory	384Kbit	768Kbit	768Kbit	448Kbit	448Kbit
Jumbo Frame	-	-	-	-	-
PoE	-	-	-	-	-
PoE Power Budget	-	-	-	-	-
Power Input	12-48VDC (Terminal Block)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)
Operation Temperature	-20°C to 70°C	-40°C to 85°C	-40°C to 75°C	-40°C to 85°C	-40°C to 85°C
Optional Accessories	-	-	-	-	-

Unmanaged Fast Ethernet



IES-0920
9-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, -40°C to 85°C



IES-1610
16-Port Fast Ethernet Industrial Switch, -20°C to 70°C



IES-1611
16-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, -20°C to 70°C



IES-1620
16-Port Fast Ethernet Industrial Switch, -40°C to 85°C



IES-1621
16-Port Fast Ethernet Industrial Switch, 1 x SC Multi-Mode Fiber, -40°C to 85°C

Model	IES-0920	IES-1610	IES-1611	IES-1620	IES-1621
RJ45 Port	8 x 10/100Mbps	16 x 10/100Mbps	15 x 10/100Mbps	16 x 10/100Mbps	15 x 10/100Mbps
RJ45 PoE Port	-	-	-	-	-
Fiber Port	1 x 100BASE-FX MMF SC	-	1 x 100BASE-FX MMF SC	-	1 x 100BASE-FX MMF SC
MAC Table	2K	4K	4K	4K	4K
Buffer Memory	768Kbit	1.625Mbit	1.625Mbit	1.625Mbit	1.625Mbit
Jumbo Frame	-	-	-	-	-
PoE	-	-	-	-	-
PoE Power Budget	-	-	-	-	-
Power Input	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)
Operation Temperature	-40°C to 85°C	-20°C to 70°C	-20°C to 70°C	-40°C to 85°C	-40°C to 85°C
Optional Accessories	-	-	-	-	-

Unmanaged Gigabit Ethernet



IES-0600
6-Port Gigabit Industrial Switch, 1 x SFP, 1 x SFP/RJ45 Combo, -40°C to 75°C



IES-0823
8-Port Gigabit Industrial Switch, 2 x SFP/RJ45 Combo, -30°C to 70°C

Model	IES-0600	IES-0823
RJ45 Port	5 x 10/100/1000Mbps	8 x 10/100/1000Mbps
RJ45 PoE Port	-	-
Fiber Port	2 x 100/1000BASE-X SFP	2 x 1000BASE-X SFP
MAC Table	1K	8K
Buffer Memory	1024KB	1.125Mbit
Jumbo Frame	10K	9K
PoE	-	-
PoE Power Budget	-	-
Power Input	9-56VDC (Terminal Block)	12-32VDC (Terminal Block) 12VDC (DC Jack, optional)
Operation Temperature	-40°C to 75°C	-30°C to 70°C
Optional Accessories	-	-

Managed Gigabit



IES-0880
8-Port L2 Managed Gigabit Industrial Switch, -40°C to 75°C



IES-1070
10-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit RJ45, -20°C to 70°C



IES-1071
10-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit SFP, -20°C to 70°C



IES-1080
10-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit RJ45, -40°C to 85°C



IES-1081
10-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit SFP, -40°C to 85°C

Model	IES-0880	IES-1070	IES-1071	IES-1080	IES-1081
RJ45 Port	8 x 10/100/1000Mbps	8 x 10/100/1000Mbps 2 x 10/100/1000Mbps	8 x 10/100Mbps	8 x 10/100Mbps 2 x 10/100/1000Mbps	8 x 10/100Mbps
RJ45 PoE Port	-	-	-	-	-
Fiber Port	-	-	2 x 1000BASE-X SFP	-	2 x 1000BASE-X SFP
MAC Table	4K	8K	8K	8K	8K
Buffer Memory	1Mbit	2Mbit	2Mbit	2Mbit	2Mbit
Jumbo Frame	-	-	-	-	-
PoE	-	-	-	-	-
PoE Power Budget	-	-	-	-	-
Power Input	12-32VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)
Operation Temperature	-40°C to 75°C	-20°C to 70°C	-20°C to 70°C	-40°C to 85°C	-40°C to 85°C
Management	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console
Optional Accessories	-	-	-	-	-

Managed Fast Ethernet



IES-1090
10-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit SFP/RJ45 Combo, -40°C to 85°C



IES-1870
18-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit RJ45, -20°C to 70°C



IES-1880
18-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit RJ45, -40°C to 85°C



IES-1890
18-Port L2 Managed Fast Ethernet Industrial Switch, 2 x Gigabit SFP/RJ45 Combo, -40°C to 80°C



IES-2892
28-Port Modular L2 Managed Fast Ethernet Industrial Switch, 3 x Fast Ethernet Module Slot, 1 x Gigabit Module Slot, -40°C to 85°C

Model	IES-1090	IES-1870	IES-1880	IES-1890	IES-2892
RJ45 Port	8 x 10/100Mbps 2 x 10/100/1000Mbps	16 x 10/100Mbps 2 x 10/100/1000Mbps	16 x 10/100Mbps 2 x 10/100/1000Mbps	16 x 10/100Mbps 2 x 10/100/1000Mbps	Depends on port module
RJ45 PoE Port	-	-	-	-	-
Fiber Port	2 x 1000BASE-X SFP	-	-	2 x 1000BASE-X SFP	Depends on port module
MAC Table	8K	8K	8K	8K	8K
Buffer Memory	2Mbit	2Mbit	2Mbit	2Mbit	3Mbit
Jumbo Frame	-	-	-	-	-
PoE	-	-	-	-	-
PoE Power Budget	-	-	-	-	-
Power Input	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	12-48VDC (Terminal Block) 12VDC (DC Jack, optional)	PSU Options: + / - 48VDC (36- 75VDC), 88-370VDC and 90-264VAC, 90-264VAC
Operation Temperature	-40°C to 85°C	-20°C to 70°C	-40°C to 85°C	-40°C to 80°C	-40°C to 85°C
Management	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console
Optional Accessories	-	-	-	-	MDU-2892S-4-Port Gigabit SFP Combo Module for IES-2892 Slot 4 MDU-2892T-8-Port Fast Ethernet Module for IES-2892 Slot 1/2/3 MDU-2892FX-6-Port SC Multimode Fiber Module for IES-2892 Slot 1/2/3

Unmanaged Fast Ethernet PoE



IFP-0501
5-Port Fast Ethernet PoE Industrial Switch, 4 PoE Outputs, 802.3at PoE+, 126W, -40°C to 75°C



IFP-0502
5-Port Fast Ethernet PoE Industrial Switch, 4 PoE Outputs, 802.3at PoE+, 1 x SC Multi-Mode Fiber, 2km, 126W, -40°C to 75°C



IFP-0503
5-Port Fast Ethernet PoE Industrial Switch, 4 PoE Outputs, 802.3at PoE+, 1 x SC Single-Mode Fiber, 30km, 126W, -40°C to 75°C



IFP-0504
5-Port Fast Ethernet PoE Industrial Switch, 4 PoE Outputs, 802.3at PoE+, 1 x ST Multi-Mode Fiber, 2km, 126W, -40°C to 75°C



IES-0521
5-Port Fast Ethernet PoE Industrial Switch, 802.3af PoE, 4 PoE Outputs, 61.6W, -40°C to 85°C

Model	IFP-0501	IFP-0502	IFP-0503	IFP-0504	IES-0521
RJ45 Port	1 x 10/100Mbps	-	-	-	1 x 10/100Mbps
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps
Fiber Port	-	1 x 100BASE-FX MMF SC	1 x 100BASE-FX SMF SC	1 x 100BASE-FX MMF ST	-
MAC Table	1K	1K	1K	1K	1K
Buffer Memory	1Mbit	1Mbit	1Mbit	1Mbit	512Kbit
Jumbo Frame	-	-	-	-	-
PoE Power Budget	126W	126W	126W	126W	61.6W
Max. PoE Power Per Port	36W	36W	36W	36W	15.4W
Power Input	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	9-56VDC (Terminal Block)	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)
Operation Temperature	-40°C ~ 75°C	-40°C ~ 75°C	-40°C ~ 75°C	-40°C ~ 75°C	-40°C to 85°C
Optional Accessories	-	-	-	-	-

Unmanaged Fast Ethernet PoE



IES-0522
5-Port Fast Ethernet PoE Industrial Switch, 802.3af PoE, 4 PoE Outputs, 1 x SC Multi-Mode Fiber, 61.6W, -40°C to 85°C



IFP-0801
8-Port Fast Ethernet PoE Industrial Switch, 4 PoE Outputs, 802.3at PoE+, 126W, -40°C to 75°C



IFP-0802
8-Port Fast Ethernet PoE Industrial Switch, 8 PoE Outputs, 802.3at PoE+, 200W, -40°C to 75°C



IES-0822
8-Port Fast Ethernet PoE Industrial Switch, 802.3af PoE, 4 PoE Outputs, 1 x SC Multi-Mode Fiber, 61.6W, -40°C to 85°C



IES-0821
8-Port Fast Ethernet PoE Industrial Switch, 802.3af PoE, 4 PoE Outputs, 61.6W, -40°C to 85°C

Model	IES-0522	IFP-0801	IFP-0802	IES-0822	IES-0821
RJ45 Port	-	4 x 10/100Mbps	-	3 x 10/100Mbps	4 x 10/100Mbps
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	8 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps
Fiber Port	1 x 100BASE-FX MMF SC	-	-	1 x 100BASE-FX MMF SC	-
MAC Table	1K	1K	1K	1K	1K
Buffer Memory	512Kbit	1Mbit	1Mbit	1Mbit	1Mbit
Jumbo Frame	-	-	-	-	-
PoE Power Budget	61.6W	126W	200W	61.6W	61.6W
Max. PoE Power Per Port	15.4W	36W	36W	15.4W	15.4W
Power Input	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)	44-56VDC (Terminal Block)	44-56VDC (Terminal Block)	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)
Operation Temperature	-40°C to 85°C	-40°C ~ 75°C	-40°C ~ 75°C	-40°C to 85°C	-40°C to 85°C
Optional Accessories	-	-	-	-	-

Unmanaged Fast Ethernet PoE



IES-0811
8-Port Fast Ethernet PoE
Industrial Switch, 802.3af PoE, 4
PoE Outputs, 1.6W, -20°C to 70°C



IES-0812
8-Port Fast Ethernet PoE
Industrial Switch, 802.3af PoE, 4
PoE Outputs, 1 x SC Multi-Mode
Fiber, 61.6W, -20°C to 70°C



IES-1020
10-Port Fast Ethernet PoE
Industrial Switch, 802.3at PoE+,
2 x Gigabit SFP/RJ45 Combo, 8 PoE
Outputs, -40°C to 75°C, 240W



IES-1420
14-Port Fast Ethernet PoE
Industrial Switch, 802.3at PoE+,
2 x Gigabit SFP/RJ45 Combo, -40°C
to 75°C, 12 PoE Outputs, 480W



IES-1820
18-Port Fast Ethernet PoE
Industrial Switch, 802.3at PoE+,
2 x Gigabit SFP/RJ45 Combo, -40°C
to 75°C, 16 PoE Outputs, 480W

Model	IES-0811	IES-0812	IES-1020	IES-1420	IES-1820
RJ45 Port	4 x 10/100Mbps	3 x 10/100Mbps	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	8 x 10/100Mbps	12 x 10/100Mbps	16 x 10/100Mbps
Fiber Port	-	1 x 100BASE-FX MMF SC	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP
MAC Table	1K	1K	4K	4K	4K
Buffer Memory	1Mbit	1Mbit	2.25Mbit	2.25Mbit	2.25Mbit
Jumbo Frame	-	-	-	-	-
PoE Power Budget	61.6W	61.6W	240W	480W	480W
Max. PoE Power Per Port	15.4W	15.4W	30W	30W	30W
Power Input	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)	47-55VDC (Terminal Block) 47-55VDC (DC Jack, optional)	47-55VDC (Terminal Block)	47-55VDC (Terminal Block)	47-55VDC (Terminal Block)
Operation Temperature	-20°C to 70°C	-20°C to 70°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Optional Accessories	-	-	-	-	-

Unmanaged Gigabit Ethernet PoE



IES-0610
6-Port Gigabit PoE Industrial
Switch, 802.3at PoE+, 4 PoE
Outputs, 1 x SFP, 1 x SFP/RJ45
Combo, -40°C to 75°C, 126W



IES-0620
6-Port Gigabit PoE Industrial
Switch, 802.3at PoE+, 4 PoE
Outputs, 1 x SFP, 1 x SFP/RJ45
Combo, -40°C to 75°C, 126W,
voltage booster



IGP-0801
8-Port Gigabit PoE Industrial
Switch, 4 PoE Outputs, 802.3at
PoE+, 126W, -40°C to 75°C



IGP-0802
8-Port Gigabit PoE Industrial
Switch, 8 PoE Outputs, 802.3at
PoE+, 200W, -40°C to 75°C

Model	IES-0610	IES-0620	IGP-0801	IGP-0802
RJ45 Port	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	4 x 10/100/1000Mbps	-
RJ45 PoE Port	4 x 10/100/1000Mbps	4 x 10/100/1000Mbps	4 x 10/100/1000Mbps	8 x 10/100/1000Mbps
Fiber Port	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP	-	-
MAC Table	1K	1K	1K	1K
Buffer Memory	1024KB	1024KB	1Mbit	1Mbit
Jumbo Frame	10K	10K	-	-
PoE Power Budget	126W	126W	126W	200W
Max. PoE Power Per Port	36W	36W	36W	36W
Power Input	48-55VDC (Terminal Block)	12-55VDC (Terminal Block)	44-56VDC (Terminal Block)	44-56VDC (Terminal Block)
Operation Temperature	-40°C to 75°C	-40°C to 75°C	-40°C ~ 75°C	-40°C ~ 75°C
Optional Accessories	-	-	-	-

Managed Fast Ethernet PoE



IES-0852
8-Port Web Smart Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 4 PoE Outputs, 120W, -40°C to 85°C



IES-0853
8-Port Web Smart Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 4 PoE Outputs, 1 x SC Multi-Mode Fiber, 120W, -40°C to 85°C



IES-1084
10-Port L2 Managed Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 2 x Gigabit RJ45, 8 PoE Outputs, 181.6W, -40°C to 85°C



IES-1085
10-Port L2 Managed Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 2 x Gigabit SFP, 8 PoE Outputs, 181.6W, -40°C to 85°C



IES-1881
18-Port L2 Managed Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 16 PoE Outputs, 480W, 2 x Gigabit SFP/SC Combo, -40°C to 85°C

Model	IES-0852	IES-0853	IES-1084	IES-1085	IES-1881
RJ45 Port	4 x 10/100Mbps	3 x 10/100Mbps	2 x 10/100/1000Mbps	-	2 x 10/100/1000Mbps
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	8 x 10/100Mbps	8 x 10/100Mbps	16 x 10/100Mbps
Fiber Port	-	1 x 100BASE-FX MMF SC	-	2 x 1000BASE-X SFP	2 x 1000BASE-LX SMF SC
MAC Table	1K	1K	8K	8K	8K
Buffer Memory	1Mbit	1Mbit	2Mbit	2Mbit	2Mbit
Jumbo Frame	-	-	-	-	-
PoE Power Budget	120W	120W	181.6W	181.6W	480W
Max. PoE Power Per Port	30W	30W	30W	30W	30W
Power Input	47-57VDC (Terminal Block) 47-57VDC(DC Jack, optional)	47-57VDC (Terminal Block) 47-57VDC(DC Jack, optional)	47-57VDC (Terminal Block) 47-57VDC(DC Jack, optional)	47-57VDC (Terminal Block) 47-57VDC(DC Jack, optional)	802.3at in 48VDC (47-55VDC Terminal Block)
Operation Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Management	Web	Web	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console
Optional Accessories	-	-	-	-	-

Managed Fast Ethernet PoE



IES-0881
8-Port L2 Managed Fast Ethernet PoE Industrial Switch, 802.3af PoE, 4 PoE Outputs, 2 x Gigabit SFP/RJ45 Combo, 61.6W, -40°C to 85°C



IES-0882
8-Port L2 Managed Fast Ethernet PoE Industrial Switch, 802.3at PoE+, 4 PoE Outputs, 2 x Gigabit SFP/RJ45 Combo, 120W, -40°C to 85°C

PoE Injector



IGP-0101
Industrial Gigabit PoE+ Injector, 36W, 802.3at PoE+

Model	IES-0881	IES-0882
RJ45 Port	2 x 10/100Mbps, 2 x 10/100/1000Mbps	2 x 10/100Mbps, 2 x 10/100/1000Mbps
RJ45 PoE Port	4 x 10/100Mbps	4 x 10/100Mbps
Fiber Port	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP
MAC Table	8K	8K
Buffer Memory	2Mbit	2Mbit
Jumbo Frame	-	-
PoE Power Budget	61.6W	120W
Max. PoE Power Per Port	15.4W	30W
Power Input	47-57VDC (Terminal Block)	802.3af in 48VDC (47-55VDC Terminal Block) 802.3at in 55VDC (47-57VDC Terminal Block)
Operation Temperature	-40°C to 85°C	-40°C to 85°C
Management	SNMP/Web/Telnet/Console	SNMP/Web/Telnet/Console
Optional Accessories	-	-

Model	IGP-0801
PoE	802.3af/at
RJ-45 Input	1x10/100/1000Mbps
RJ45 PoE Output	1x10/100/1000Mbps
PoE Power Budget	36W

Fiber Optical Transceiver

155Mbps/1.25Gbps



SFP-2100
125Mbps Multi-mode Industrial SFP Transceiver, 2km, 850nm, -20°C to 85°C



SFP-2200
125Mbps Multi-mode Industrial SFP Transceiver, 2km, 1310nm, -40°C to 85°C



SFP-2230
125Mbps Single-mode Industrial SFP Transceiver, 30km, 1310nm, -40°C to 85°C



SFP-2260
125Mbps Single-mode Industrial SFP Transceiver, 60km, 1310nm, -40°C to 85°C



SFP-2280
125Mbps Single-mode Industrial SFP Transceiver, 80km, 1310nm, -40°C to 85°C



SFP-2300
125Mbps Single-mode Industrial SFP Transceiver, 20km, 1550nm, -40°C to 85°C

Transceiver Comparison						
Model	SFP-2100	SFP-2200	SFP-2230	SFP-2260	SFP-2280	SFP-2300
Mode	Multi-mode	Multi-mode	Single-mode	Single-mode	Single-mode	Single-mode
Date Rate	125Mbps	125Mbps	125Mbps	125Mbps	125Mbps	125Mbps
Wavelength	850nm	1310nm	1310nm	1310nm	1310nm	1550nm
Operating Distance	2km (50/125μm)	2km (50/125μm)	30km (9/125μm)	60km (9/125μm)	80km (9/125μm)	20km (9/125μm)
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Temperature	-20~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C



SFP-4200
1.25Gbps Multi-mode Industrial SFP Transceiver, 550m, 850nm, -20°C to 85°C



SFP-2310
125Mbps Single-mode Industrial SFP Transceiver, 100km, 1550nm, -40°C to 85°C



SFP-2320
125Mbps Single-mode Industrial SFP Transceiver, 120km, 1550nm, -40°C to 85°C



SFP-4210
1.25Gbps Single-mode Industrial SFP Transceiver, 10km, 1310nm, -40°C to 85°C



SFP-4240
1.25Gbps Single-mode Industrial SFP Transceiver, 40km, 1310nm, -40°C to 85°C



SFP-4270
1.25Gbps Single-mode Industrial SFP Transceiver, 70km, 1550nm, -40°C to 85°C

Transceiver Comparison						
Model	SFP-4200	SFP-2310	SFP-2320	SFP-4210	SFP-4240	SFP-4270
Mode	Multi-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Date Rate	1.25Gbps	125Mbps	125Mbps	1.25Gbps	1.25Gbps	1.25Gbps
Wavelength	850nm	1550nm	1550nm	1310nm	1310nm	1550nm
Operating Distance	550m (50/125μm)	100km (9/125μm)	120km (9/125μm)	10km (9/125μm)	40km (9/125μm)	70km (9/125μm)
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Temperature	-20~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

1.25Gbps BIDI



SFP-4310
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 10km, TX 1310nm / RX 1550nm, -40°C to 85°C



SFP-4320
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 10km, TX 1550nm / RX 1310nm, -40°C to 85°C



SFP-4330
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 20km, TX 1310nm / RX 1550nm, -40°C to 85°C



SFP-4340
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 20km, TX 1550nm / RX 1310nm, -40°C to 85°C



SFP-4350
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 40km, TX 1310nm / RX 1550nm, -40°C to 85°C



SFP-4360
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 40km, TX 1550nm / RX 1310nm, -40°C to 85°C

Transceiver Comparison						
Model	SFP-4310	SFP-4320	SFP-4330	SFP-4340	SFP-4350	SFP-4360
Mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Date Rate	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps
Wavelength	T1310nm/R1550nm	T1550nm/R1310nm	T1310nm/R1550nm	T1550nm/R1310nm	T1310nm/R1550nm	T1550nm/R1310nm
Operating Distance	10km (9/125µm)	10km (9/125µm)	20km (9/125µm)	20km (9/125µm)	40km (9/125µm)	40km (9/125µm)
Connector	Simplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC
Temperture	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C



SFP-4370
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 60km, TX 1310nm / RX 1550nm, -40°C to 85°C



SFP-4380
1.25Gbps Single-mode BIDI Industrial SFP Transceiver, 60km, TX 1550nm / RX 1310nm, -40°C to 85°C

Transceiver Comparison		
Model	SFP-4370	SFP-4380
Mode	Single-mode	Single-mode
Date Rate	1.25Gbps	1.25Gbps
Wavelength	T1310nm/R1550nm	T1550nm/R1310nm
Operating Distance	60km (9/125µm)	60km (9/125µm)
Connector	Simplex LC	Simplex LC
Temperture	-40~85°C	-40~85°C

Power Supply Unit



Models	POW-2410	POW-2420	POW-2430	POW-2440
Name	Industrial Power Supply, 24VDC, 30W	Industrial Power Supply, 60W, 24VDC	Industrial Power Supply, 24VDC, 75W	Industrial Power Supply, 120W, 24VDC
Output				
DC Voltage	24VDC	24VDC	24VDC	24VDC
Current Range	0-1.5A	0-2.5A	0-3A	0-5A
Rated Power	36W	60W	76.8W	120W
Input				
12 - 36VDC	-	-	-	-
85 - 264VAC / 120 - 370VDC	V	V	V	-
88 - 132VAC / 176 - 264VDC	-	-	-	V
90 - 264VAC	-	-	-	-
Protection				
Over Voltage Protection	27.6-32.4V	27.6-32.4V	29-34V	29-33V
Overload Protection	105-160%	105-160%	105-150%	105-150%
Constant Current Limiting	V	V	-	V
Mechanical				
Casing	plastic	plastic	aluminum	aluminum
Installation*	D	D	D	D
Dimensions (WxHxD)	78x56x93	78x56x93	55.5x100x125.2	65.5x100x125.2
Operating Temperature				
-10°C to 60°C	-	-	V	V
-20°C to 60°C	V	V	-	-
-20°C to 75°C	-	-	-	-
-40°C to 75°C	-	-	-	-
Regulatory Approvals				
CE / FCC	V	V	V	V
UL60950-1	V	V	-	-
UL508	-	-	V	V
E Mark	-	-	-	-

* D: DIN-Rail Mounting, P: Panel Mounting, R: Rack Mounting, W: Wall Mounting



Models	POW-4810	POW-4820	POW-4830	POW-4840
Name	Industrial Power Supply, 48VDC, 40W, PoE Ready	Industrial Power Supply, 48VDC, 75W, PoE Ready	Industrial Power Supply, 48VDC, 85W, PoE Ready	Industrial Power Supply, 120W, 48VDC, PoE Ready
Output				
DC Voltage	48-56VDC	48-53VDC	48VDC	48-53VDC
Current Range	0-0.83A	0-1.6A	0-1.78A	0-2.5A
Rated Power	39.8W	76.8W	85W	120W
Input				
12 - 36VDC	-	-	V	-
85 - 264VAC / 120 - 370VDC	V	V	-	-
88 - 264VAC / 120 - 370VDC	-	-	-	-
88 - 132VAC / 176 - 264VDC	-	-	-	V
Protection				
Over Voltage Protection	57.6-64.8V	58-65V	58V	58-65V
Overload Protection	105-150%	105-150%	110-160%	105-150%
Constant Current Limiting	V	V	-	V
Mechanical				
Casing	plastic	aluminum	aluminum	aluminum
Installation*	D	D	D, P	D
Dimensions (WxHxD)	40x90x100	55.5x100x125.2	50x148x165	65.5x100x125.2
Operating Temperature				
-10°C to 60°C	-	V	V	V
-20°C to 60°C	V	-	-	-
-20°C to 75°C	-	-	-	-
-40°C to 75°C	-	-	-	-
Regulatory Approvals				
CE / FCC	V	V	V	V
UL60950-1	V	-	V	V
UL508	V	V	-	V
E Mark	-	-	V	-

* D: DIN-Rail Mounting, P: Panel Mounting, R: Rack Mounting, W: Wall Mounting

Power Supply Unit



Models	POW-4850	POW-4860	POW-5510
Name	Industrial Power Supply, 48VDC, 240W, PoE Ready	Industrial Power Supply, 48VDC, 480W, PoE Ready	Industrial Power Supply, 55VDC, 85W
Output			
DC Voltage	48-55VDC	48-55VDC	55VDC
Current Range	5A	10A	0-1.55A
Rated Power	240W	480W	85W
Input			
12 - 36VDC	-	-	V
85 - 264VAC / 120 - 370VDC	-	-	-
88 - 264VAC / 120 - 370VDC	V	V	-
88 - 132VAC / 176 - 264VDC	-	-	-
Protection			
Over Voltage Protection	56-65V	56-65V	60V
Overload Protection	110-150%	110-150%	110-180%
Constant Current Limiting	V	V	-
Mechanical			
Casing	aluminum	aluminum	aluminum
Installation*	D	D	D,P
Dimensions (WxHxD)	63x113.5x125.2	85x124x125.2	50x148x165
Operating Temperature			
-10°C to 60°C	-	-	V
-20°C to 60°C	-	-	-
-20°C to 75°C	V	V	-
-40°C to 75°C	-	-	-
Regulatory Approvals			
CE / FCC	V	V	V
UL60950-1	V	V	V
UL508	V	V	-
E Mark	-	-	-

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Models	POW-1212
Name	Industrial Power Adapter, Open Wire Ends, 36W, 12VDC
Output	
DC Voltage	12VDC
Current Range	0-3A
Rated Power	36W
Input	
90 - 264VAC	V
Mechanical	
Casing	plastic
Installation*	-
Operating Temperature	
0°C to 55°C	-
-40°C to 75°C	V
Output Connector	
DC Jack with latch	-
Open Wire for Terminal Block	V
DC Plug	-

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