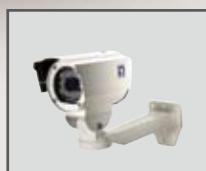


# LevelOne 2010 Product Catalog





## LevelOne

Over the years we've witnessed many developments in the networking industry. New technology opens new frontiers and we're proud to be a market leader in bringing high-quality products to global markets- quickly and cost-effectively.

The newest addition to the LevelOne product line is our line of Green Switches. System administrators all over the world are trying to reduce costs as well as their company's environmental footprint. LevelOne Green Technology uses Active Link Detection, Cable Length Detection and Sleep Mode to conserve network power consumption. These exciting new products are the ideal choice for system admins looking for the latest Green networking technology.

In addition, we recently introduced powerful PoE (Power over Ethernet) injectors and extenders that add extreme flexibility for system integrators and installers. As more devices are added to the network it becomes a real challenge to find suitable power sources.

PoE sends all data and power over a single cable so deployment time and costs are drastically reduced.

With over 18 years in the business, we have all the network solutions you need for any type of networking scenario deployment.

Please take a look through this catalog and if you have any questions or inquiries you can contact us at [sales@level1.com](mailto:sales@level1.com).



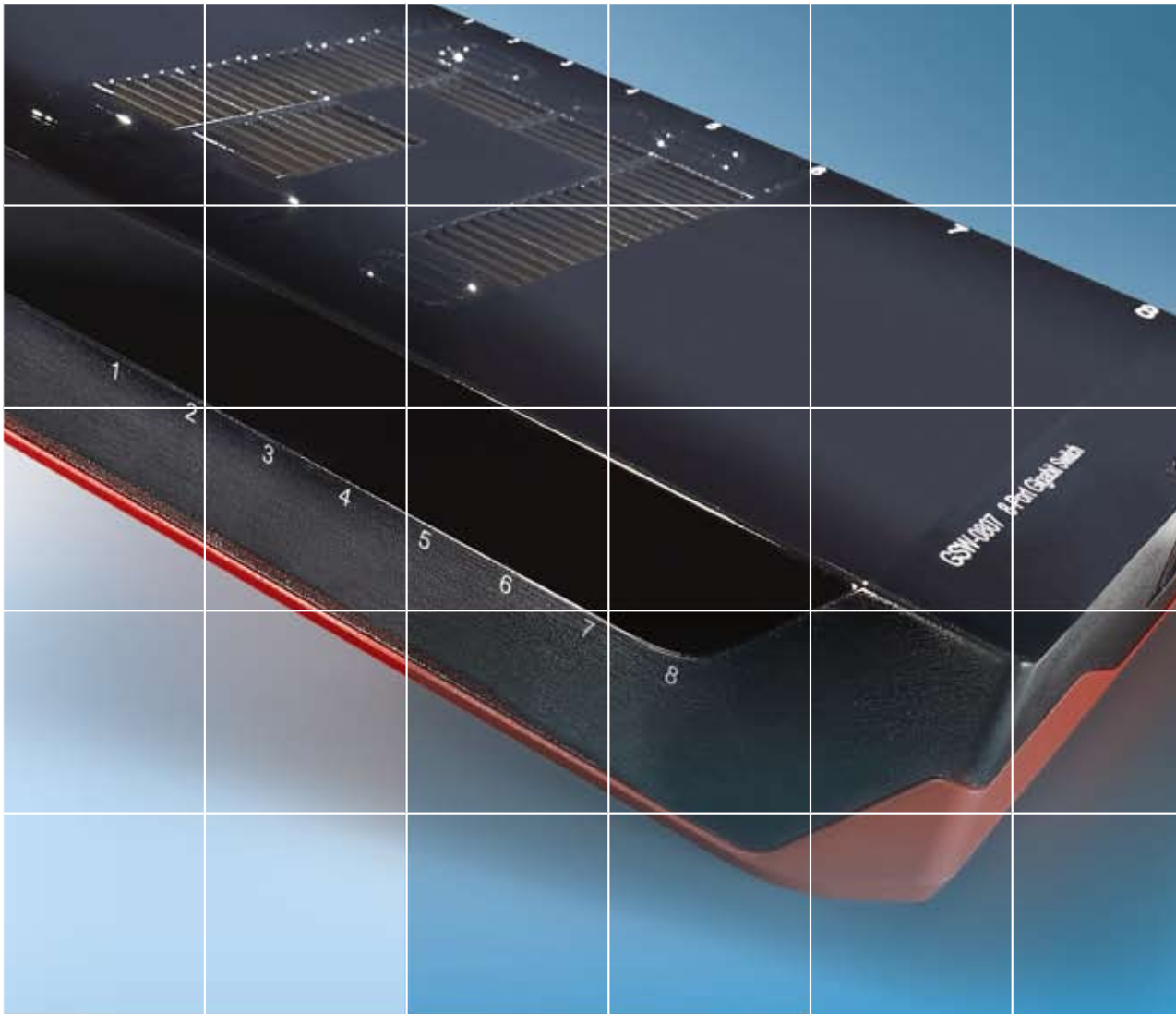
**GREEN SWITCH**



**PoE INJECTOR**

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## Ethernet Switches

High Performance Switches for Easy Network Management

- Unmanaged Fast Ethernet Switches
- Unmanaged Gigabit Ethernet Switches
- Web Smart Fast Ethernet Switches
- Web Smart Gigabit Ethernet Switches
- Managed Gigabit Ethernet Switches
- Layer 3 Managed Gigabit Ethernet Switches
- Accessories

## IP Power Switch

Offers Remote Power Control of up to 8 Connected Devices

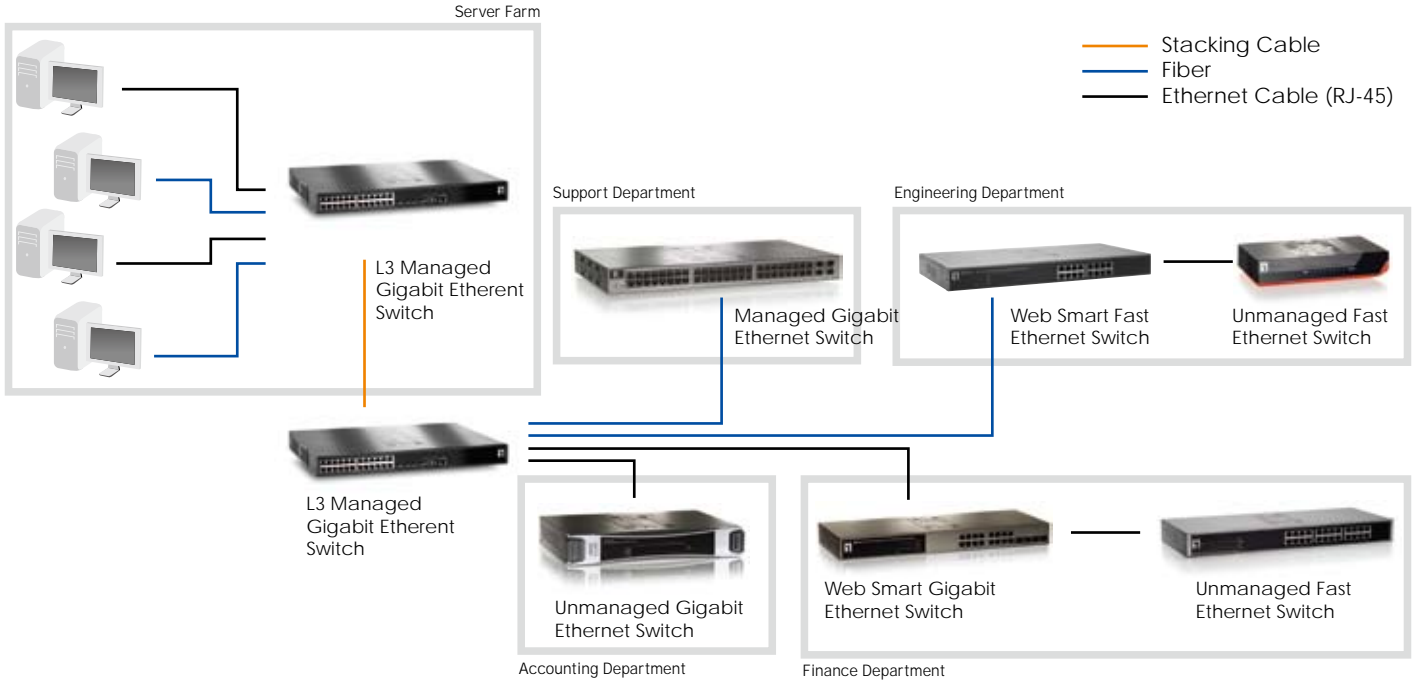
## Media Converters

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

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

# LevelOne Ethernet Switches

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've got the right switch for you. LevelOne also provides unique PoE and fiber optic options to help you build high-performance networks that are fast, yet flexible enough to match any deployment challenge you encounter.



## Unmanaged Fast Ethernet Switches



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

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

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

- Features store-and-forward architecture
- Performs filtering and forwarding at non-blocking full wire-speed
- Full/Half-duplex capability on each TX port for 200 Mbps bandwidth at each port
- Auto MDI-X function for unlinking at each port
- Provides power consumption of 2.8 Watts (FSW-0511)
- Provides power consumption of 4.1 Watts (FSW-0811)

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

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

## Ethernet Switches Comparison

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

## Unmanaged Fast Ethernet Switches



FSW-0512



FSW-0812

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

- Features 5 auto-negotiation RJ45 ports supporting auto-MDI/MDIX (FSW-0512)
- Features 8 auto-negotiation RJ45 ports supporting auto-MDI/MDIX (FSW-0812)
- PD network switch for flexible and easy installation without the need for a power adapter
- Delivers 200 Mbps bandwidth per port with non-blocking wire-speed switching architecture
- Compact design for desktop or wall-mounting
- Plug-and-play enabled for easy setup and configuration
- Supports MAC address auto-learning and auto-aging



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

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



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

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



FSW-1621



FSW-2421

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

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



FSW-1650



FSW-2450

### FSW-1650 / FSW-2450 16-Port 10/100 Rackmount Switch

- Provides 16 Fast Ethernet port connections (FSW-1650)
- Provides 24 Fast Ethernet port connections (FSW-2450)
- Wire-speed and non-blocking forwarding rate
- Supports auto-negotiation on all ports
- Store-and-forward switching for error-free transmission
- Full-duplex IEEE802.3x flow control
- Plug-and-play enabled for easy setup
- Accessory kit for mounting into a 19" server rack
- Supports 802.1p (2 Queues 8:1)



### FSW-2409TFX 24-Port TP with 1 Expansion Slot Fast Ethernet Switch

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

## Ethernet Switches Comparison

Model	FSW-0512 / FSW-0812	FSW-2106	FSW-1602TX	FSW-1621 / FSW-2421	FSW-1650 / FSW-2450	FSW-2409TFX
Ports/Expansion	4/7 x 10/100TX 1 x 10/100TX-PD	5 x 10/100TX 1 x MM 100FX-SC	16 x 10/100TX	16/24 x 10/100TX	16/24 x 10/100TX	24 x 10/100TX 1 x Expansion slot
Slots MAC Table	2K	2K	8K	8/4K	8K	8K
Buffer Memory	1 MB	96 KB	512 KB	160/192 KB	160 KB	160 KB
Backplane	1.0/1.6 Gbps	1.2 Gbps	3.2 Gbps	3.2/4.8 Gbps	3.2/4.8 Gbps	4.8 Gbps
Power supply	External	External	External	Internal	Internal	Internal

## Unmanaged Fast Ethernet Switches



FSW-0809



FSW-0822

### FSW-0809 / FSW-0822 4-Port PoE + 4-Port TP Fast Ethernet Switch

- Provides 8-port 10/100 Mbps Ethernet Switch with 4 shared PoE ports
- Fully compliant with the IEEE802.3af PoE standard
- Supports over current and circuit shorting protection
- Provides a store-and-forward and non blocking switching architecture
- Supports up to 1K MAC address table
- Provides 96 Kbytes packet buffer
- Provide a maximum power of 15.4W per PoE port
- Max. power consumption with PoE PD: 36.3W (30W PD)(FSW-0809) / 61.6W(FSW-0822)
- Internal power adapter(FSW-0822)



### FSW-0503 4-Port PoE + 1-Port Uplink Fast Ethernet Switch

- Provides 10/100 Mbps Fast Ethernet Switch with 4 Power over Ethernet(PoE) ports and one uplink port
- Fully compliant with the IEEE802.3af, IEEE802.3u and IEEE802.3 standards
- Power protection: Over Voltage Protection (OVP)/ Over Current Protection (OCP)/ Over Temp Protection (OTP)
- 19" chassis, POC-6000 (refer Page 64) support 8 slots for FSW-0503(-Z) for a large-scale rack-mount PoE solution
- Plug-and-play installation
- Supports up to 1K MAC address table
- Power Budget 3W



### FSW-0513 4-Port High Power PoE + 1-Port Uplink Fast Ethernet Switch

- Provides 10/100 Mbps Fast Ethernet Switch with 4 High Power over Ethernet(PoE) ports and one uplink port.
- Fully compliant with the IEEE802.3, IEEE802.3u and IEEE802.3x standard
- PoE output power of enabled ports (per port): 1-Port: 48W; 2-Port: 48W; 3-Port: 40W; 4-Port: 30W
- Power protection: Over Voltage Protection (OVP)/ Over Current Protection (OCP)/ Over Temp Protection (OTP)
- 19" chassis, POC-6000 (refer Page 64) support 8 slots for FSW-0513(-Z) for a large-scale rack-mount PoE solution.
- Plug-and-play installation
- Control Per PoE port on-off by dip switch
- Supports up to 2K MAC address table
- Power Budget 2.5W



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

- Provides auto-sensing for providing power to IEEE 802.3af with 15.4W per PoE port
- Provides surge (EFT) protection (3,000 VDC)
- Supports 4,000 VDC Ethernet ESD protection
- Supports redundant 12 ~ 48 VDC power input
- Case design meets IP-30 protection standard
- DIN-rail and wall mount design
- Provides broadcast storm protection
- Supports operating temperature from -10°C~60°C



IFE-0501



IFE-0502

### IFE-0501 / IFE-0502 4-Port PoE + 1-Port Multi/Single-mode SC Fiber Industrial Fast Ethernet Switch

- Multi-mode (2km) SC fiber optic connection (IFE-0501)
- Single-mode (30km) SC fiber optic connection (IFE-0502)
- Provides surge (EFT) protection (3,000 VDC)
- Supports 4,000 VDC Ethernet ESD protection
- Supports redundant 12 ~ 48 VDC power input
- Case design meets IP-30 protection standard
- DIN-rail and wall mount design
- Provides broadcast storm protection
- Supports operating temperature from -10°C~60°C

## Unmanaged Gigabit Ethernet Switches



GSW-0506



GSW-0806

### GSW-0506 / GSW-0806 5/8-Port Gigabit Ethernet Switch

- Supports auto-MDI/MDI-X, auto-negotiation and duplex modes on each port
- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3x
- Supports automatic DNS configuration
- Front-panel diagnostic LEDs
- Store-and-forward switching architecture
- Back pressure flow control for half-duplex
- Supports FCC class B, CE and VCCI

## Ethernet Switches Comparison

Model	FSW-0809 / FSW-0822	FSW-0503	FSW-0513	IFE-0500	IFE-0501 / IFE-0502	GSW-0506 / GSW-0806
Ports/Expansion	4 x 10/100TX 4 x 10/100TX-PoE	5 x 10/100TX 4 x 10/100TX-PoE	5 x 10/100TX 4 x 10/100TX-PoE	1 x 10/100TX 4 x 10/100TX-PoE	1 x MM 100FX-SC 4 x 10/100TX-PoE	5/8 x 10/100/1000T
Slots MAC Table	1K	1K	2K	1K	1K	8K
Buffer Memory	96 KB	512 KB	512 KB	512 KB	512 KB	104/128 KB
Backplane	1.6 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	10/16 Gbps
Power supply	External / Internal	External	External	Terminal Block	Terminal Block	External

## Unmanaged Gigabit Ethernet Switches



GSW-0507

GSW-0807

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

- Supports MDI/MDI-X auto crossover
- Provides half-duplex and full-duplex auto-detection
- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3x
- Provides wire-speed packet filtering and data forwarding
- Store-and-forward switching architecture
- Save up to 63% power with LevelOne Green Technology and supports 12K jumbo frame rate (GSW-0507)
- Save up to 84% power with LevelOne Green Technology and supports 9K jumbo frame rate (GSW-0807)



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

- Provides 4 10/100/1000 Mbps and 1 SFP (Small Form Pluggable) port with large 10 G switching bandwidth
- Auto-negotiation and auto-MDI/MDI-X on all ports
- Supports full-duplex IEEE 802.3x flow control
- Store-and-forward switching architecture
- Complies with IEEE802.3, 802.3u, 802.3ab and 802.3z standards
- Wire-speed packet filtering and forwarding rate
- Supports 9K jumbo frame
- Provides wall-mount Kit



GSW-0509

GSW-0809

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

- 5/8 auto-negotiation 10/100/1000 Mbps Ethernet ports
- Auto MDI/MDI-X at each port
- Support half and full-duplex modes
- Store-and-Forward switching technology
- Plug-and-Play no configuration required
- Internal power supply
- Supports 9K jumbo frame
- Save up to 79% power with LevelOne Green Technology (GSW-0509)
- Save up to 83% power with LevelOne Green Technology (GSW-0809)



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

- Complies with IEEE802.3, IEEE 802.3u, IEEE802.3ab
- Provides 16 10/100/1000 Mbps NWay ports
- Auto-MDI/MDI-X crossover detection for all ports
- Full wire-speed packet filtering and forwarding rate
- Supports back-pressure and flow control
- Store-and-forward architecture
- Supports 9K jumbo frame
- Save up to 49% power with LevelOne Green Technology



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

- Combines copper and fiber optic connectivity into one network switch
- Supports NWay auto-negotiation and duplex modes
- Provides 16 Gigabit ports and 1 SFP for optional fiber optical communication
- Provides maximum 32 Gbps backplane bandwidth through full-duplex mode
- Supports FCC Class A, CE and VCCI
- Supports 9K bytes jumbo frame
- Save up to 46% power with LevelOne Green Technology



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

- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3x flow control for full-duplex
- Supports auto-MDI/MDI-X for each port
- Supports auto-negotiation and duplex modes
- Supports 9K bytes jumbo frame
- Provide store-and-forward filters errors architecture
- Front-panel diagnostic LEDs
- Save up to 23% power with LevelOne Green Technology

## Ethernet Switches Comparison

Model	GSW-0507 / GSW-0807	GSW-0508	GSW-0509 / GSW-0809	GSW-1603	GSW-1621	GSW-2420
Ports/Expansion	5/8 x 10/100/1000T	4x 10/100/1000T 1x 1000FX-SFP	5/8 x 10/100/1000T	16x 10/100/1000T	16x 10/100/1000T 1 x 1000FX-SFP	24x 10/100/1000T
Slots MAC Table	1/4K	1K	1/4K	8K	8K	8K
Buffer Memory	104/128 KB	104KB	104/128 KB	500 KB	340 KB	500 KB
Backplane	10/16 Gbps	10 Gbps	10/16 Gbps	32 Gbp	32 Gbps	48 Gbps
Power supply	External	External	Internal	External	Internal	Internal



## Web Smart Gigabit Ethernet Switches



GSW-0841



GSW-1641

### GSW-0841 / GSW-1641 8/16-Port TP with 1-Port shared SFP Web Smart Gigabit Ethernet Switch

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



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

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



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

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



GSW-1676



GSW-2476

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

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



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

- 48 auto-negotiation Gigabit Ethernet ports
- Provides 4 mini-GBIC (Auto-Sense) for optional SFP transceiver to extend distance
- Full support for VLANs with GVRP
- Supports IEEE 802.1Q VLAN and 802.1p priority queues
- Supports static port trunk
- Support for jumbo frames up to 9KB



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

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




## Ethernet Switches Comparison




Model	GSW-0841 / GSW-1641	GSW-2440	GSW-2473	GSW-1676 / GSW-2476	GSW-4876	GSW-5270
Ports/Expansion	8/16 x 10/100/1000T 1 x 1000FX-SFP	24 x 10/100/1000T	24 x 10/100TX 2 x 10/100/1000T 2 x 1000FX-SFP	16/24 x 10/100/1000T 4 x 1000FX-SFP	48 x 10/100/1000T 4 x 1000FX-SFP	48 x 10/100TX 4 x 10/100/1000T 2 x 1000FX-SFP
Slots MAC Table	8K	8K	4K	8K	8K	8K
Buffer Memory	180/340 KB	500 KB	512 KB	400 KB	1 MB	128 KB
Backplane	16/32 Gbps	48 Gbps	8.8 Gbps	32/48 Gbps	48 Gbps	17.6 Gbps
Management	Web browser	Web browser	Web/Console	Web browser	Web browser	Web browser








Accessories

SFP Transceiver		
<b>Model</b>	<b>Model</b>	<b>Model</b>
GVT-0300 / GVT-0301 / GVT-0302	SFP-3001 / SFP-3211 / SFP-3611	SFP-3111
 GVT-0300	 SFP-3001	 SFP-3111
<b>Description</b>	<b>Description</b>	<b>Description</b>
1.25Gbps SFP transceiver, Duplex LC connector (550m / 10km / 80km)	1.25Gbps SFP transceiver, Duplex LC connector (500m / 10km / 80km) * SFP-3001 supports DDM function	1.25Gbps SFP transceiver, MM, MLX, Duplex LC connector (2km)
<b>Works with:</b>		
GSW-0508 / GSW-1621 / GSW-1656 / GSW-2456 / GSW-2453 / GSW-5150 / GSW-0841 / GSW-1641 / GSW-2473 / GSW-1676 / GSW-2476 / GSW-4876 / GSW-5270 / GSW-0809 / GSW-0891 / GSW-1290 / GSW-1291 / GSW-2690 / GSW-2693 / GSW-4896 / GSW-2692 / GSW-2493 / GSW-2495 / FGL-2870 / GEL-2870		




SFP Transceiver		
<b>Model</b>	<b>Model</b>	<b>Model</b>
SFP-3711	SFP-3841	SFP-9221 / SFP-9231 / SFP-9321 / SFP-9331 / SFP-9421 / SFP-9431
 SFP-3711	 SFP-3841	 SFP-9331
<b>Description</b>	<b>Description</b>	<b>Description</b>
1.25Gbps SFP transceiver, SM, EZX, Duplex LC connector (120km)	1.25Gbps transceiver, TX Copper, RJ45 type (100m)	1.25Gbps BI-DI SFP transceiver, SM, Simplex LC connector (10km / 20km / 40km)
<b>Works with:</b>		
GSW-0508 / GSW-1621 / GSW-1656 / GSW-2456 / GSW-2453 / GSW-5150 / GSW-0841 / GSW-1641 / GSW-2473 / GSW-1676 / GSW-2476 / GSW-4876 / GSW-5270 / GSW-0809 / GSW-0891 / GSW-1290 / GSW-1291 / GSW-2690 / GSW-2693 / GSW-4896 / GSW-2692 / GSW-2493 / GSW-2495 / FGL-2870 / GEL-2870		

SFP Transceiver		XFP Transceiver
<b>Model</b>	<b>Model</b>	<b>Model</b>
SFP-1101 / SFP-1311 / SFP-1411	SFP-7321 / SFP-7331 / SFP-7421 / SFP-7431	XFP-5901
 SFP-1311	 SFP-7421	 XFP-5901
<b>Description</b>	<b>Description</b>	<b>Description</b>
155Mbps SFP transceiver, Duplex LC connector (2km / 20km / 40km)	155Mbps BI-DI SFP transceiver, SM, Simplex LC connector (20km / 40km)	10Gbps Transceiver, SR, Duplex LC Connector, (MMF 300m)
<b>Works with:</b>	<b>Works with:</b>	<b>Works with:</b>
GSW-0891	GSW-0891	GTL-2690




XFP Transceiver		Unmanaged Ethernet Switches	
<b>Model</b>	<b>Model</b>	<b>Model</b>	<b>Model</b>
XFP-5211	MDU-0122FXT	MDU-0123FXC	
 XFP-5211	 MDU-0122FXT	 MDU-0123FXC	
<b>Description</b>	<b>Description</b>	<b>Description</b>	
10Gbps Transceiver, LR, Duplex LC Connector, (SMF 10km)	1-Port 100FX Multi-mode ST Module	1-Port 100FX Multi-mode SC Module	
<b>Works with:</b>	<b>Works with:</b>	<b>Works with:</b>	
GTL-2690	FSW-1609TFX/2409TFX	FSW-1609TFX/2409TFX	

Accessories




Unmanaged Ethernet Switches

Model	Model	Model
MDU-2453T	MDU-2453M	MDU-2453TM
		
<b>Description</b> 8-Port 10/100/1000TX Module	<b>Description</b> 8-Port SFP Module	<b>Description</b> 4-Port TP + 4-Port SFP Gigabit Ethernet Module
<b>Works with:</b> GSW-2453	<b>Works with:</b> GSW-2453	<b>Works with:</b> GSW-2453


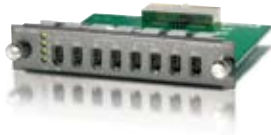
Managed Gigabit Ethernet Switches

Model	Model	Model
MDU-2493SXSC	MDU-2493LXSC	MDU-2493TX
		
<b>Description</b> 8-Port 100FX Multi-mode SC Module (2km)	<b>Description</b> 8-Port 100FX Single-mode SC Module (30km)	<b>Description</b> 8-Port 10/100TX Module
<b>Works with:</b> GSW-2493	<b>Works with:</b> GSW-2493	<b>Works with:</b> GSW-2493

Managed Gigabit Ethernet Switches

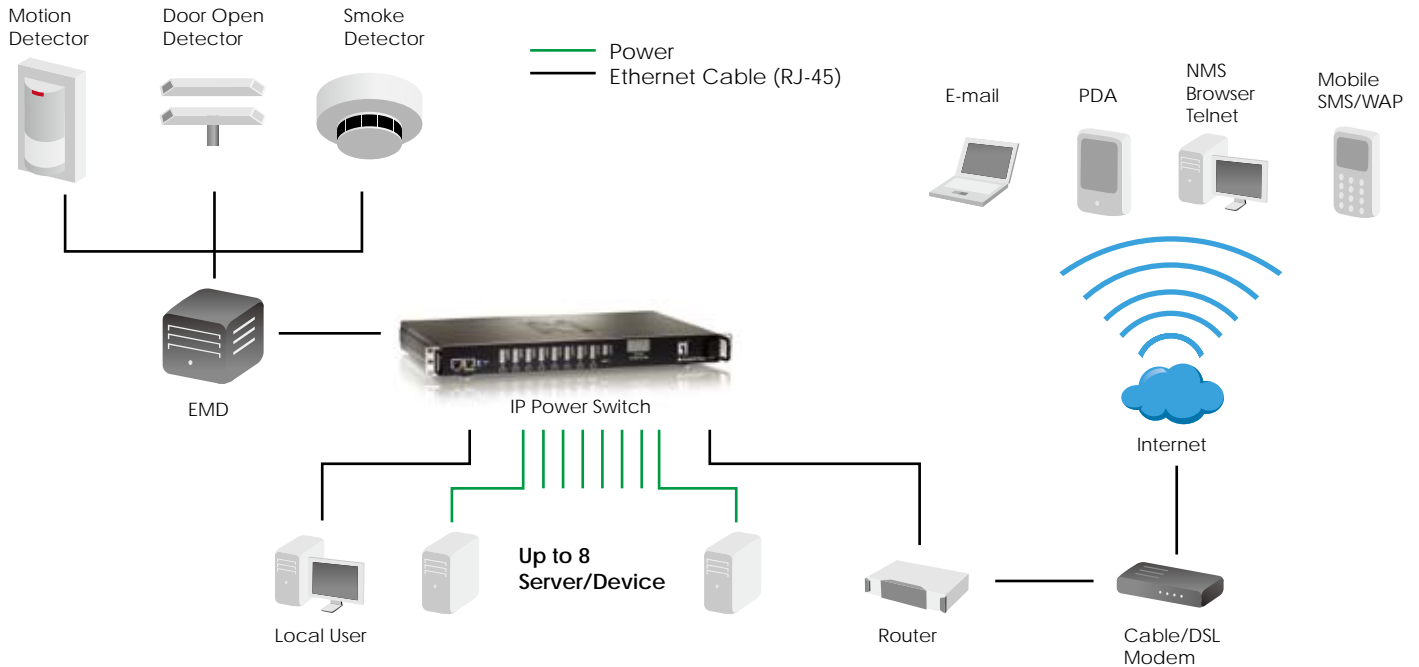
Model	Model	Model
MDU-0140	MDU-0142	MDU-1290T <i>n.a. in Europe</i>
		
<b>Description</b> 2-Port 10/100/1000TX Module	<b>Description</b> 2-Port SFP Module	<b>Description</b> 4-Port 10/100/1000TX Module
<b>Works with:</b> GSW-2493	<b>Works with:</b> GSW-2493	<b>Works with:</b> GSW-1290

Managed Gigabit Ethernet Switches

Model	Model
MDU-1290M <i>n.a. in Europe</i>	MDU-1290S <i>n.a. in Europe</i>
	
<b>Description</b> 4-Port SFP Module	<b>Description</b> 4-Port Stacking Module
<b>Works with:</b> GSW-1290	<b>Works with:</b> GSW-1290

## LevelOne IP Power Switch

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



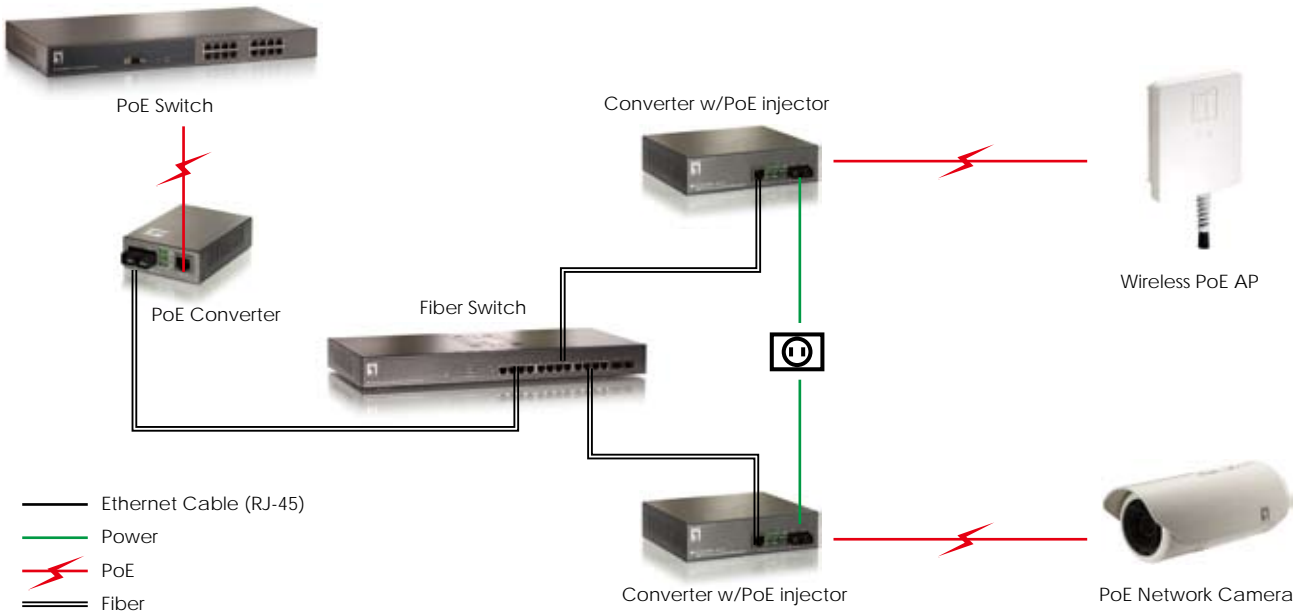
### IPS-0008 8-Port IP Power Switch

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

# LevelOne Media Converters

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

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



## Ethernet Media Converters



**FVT-0103TXFC / FVT-0104TXFC**  
10/100BASE-TX to 100BASE-FX  
Multi/Single-Mode Fiber Converter  
with PoE (SC)

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



**FVT-0203TXFC / FVT-0204TXFC**  
10/100BASE-TX to 100BASE-FX  
Multi/Single-Mode Fiber Converter  
with PoE Injector (SC)

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



**FVT-6001 / FVT-6301**  
10/100BASE-TX to  
100BASE-FX Fiber Converter  
with TS-1000 Support (SC)

- Complies with IEEE 802.3, 802.3u, 802.3x standards
- Converts network signals between UTP copper and fiber optic cabling
- SC fiber connector with TS-1000 support
- Designed as standalone converter that can also be used in module converter chassis
- Supports 10/100 auto-negotiation and auto MDI/MDI-X, half/full duplex mode
- Simplified troubleshooting with "Link-Loss-Forwarding"

### LevelOne Ethernet Media Converters Comparison

Model	FVT-0103TXFC	FVT-0104TXFC	FVT-0203TXFC	FVT-0204TXFC	FVT-6001	FVT-6301
Connector	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC	100TX to 100FX-SC
Mode	Multi	Single	Multi	Single	Multi	Single
Distance	2 km	20 km	2 km	20 km	2 km	30 km
Standards Compliance	802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3af/3x	802.3/3u/3x	802.3/3u/3x

## Ethernet Media Converters



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

- UTP to fiber switching media conversion
- Auto-negotiation speed in half/full duplex mode
- TX port supports auto MDI/MDI-X crossover
- Built-in Smart Link Error Detection technology
- Standalone converter or slotted into a converter chassis
- Hot-swappable



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

- UTP to fiber switching media conversion
- Auto-negotiation speed in half/full duplex mode
- TX port supports auto MDI/MDI-X crossover
- Built-in Smart Link Error Detection technology
- Provides standalone or mounted in converter chassis
- Hot-swappable



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

- UTP to fiber (mini-GBIC) media converter
- Auto-negotiation speed, half/full duplex
- Provides TX port support auto MDI/MDI-X
- Built-in Link-Loss-Forwarding technology
- Hot-swappable for chassis
- Provides standalone or mounted for converter chassis (Refer to page 18 accessories for optional SFP transceiver)

### LevelOne Ethernet Media Converters Comparison

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

## Converter Chassis



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

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



**FVT-4000**  
10-Slot Media Converter Chassis with  
Redundant Power Supply

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



**FVT-5000**  
16-Slot Managed Converter Chassis with  
Redundant Power Supply

- Provides support for 10/100TX to 100FX and 1000T to SFP modules
- Supports TS-1000 function for the 10/100 modules
- Hot-swappable on Converter and CPU modules
- Provides status check and management for SNMP, power, fan and media converter modules
- Features intelligent module identification capability and built-in Link-Loss-Forwarding technology
- Includes security features for network protection as well as back-door password entry
- Supports user friendly web-based user-interface and provides 19" standard rackmount size

### Converter Chassis Comparison

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

## VDSL2 Media Converters



**VDS-0200 / VDS-0201**  
Ethernet over VDSL2 Converter (Annex A/B)

- Support Annex A/B for internal splitter (option)
- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT compliance
- Provides 100/60 Mbps DownStream/UpStream for distance up to 300 meters
- Supports VDSL2 connection up to 2000 meters
- Line surge protection and five LED indicators
- Supports 2 RJ11 for DSL and phone interfaces and 2 RJ45 for Ethernet LAN port
- Trellis coding support up to 1024 discrete multi-tone bins and 4 Dip Switches for configuration settings
- Low-latency for video/voice/data applications
- Compact size design for desktop or rack mountable



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

- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
- Provides 100/60 Mbps DownStream/UpStream for distance up to 400 meters
- Supports VDSL2 connection up to 2000 meters
- Line surge protection and five LED Indicators
- Provides BNC connector for cable interfaces and 2 RJ45 for Ethernet LAN port
- Trellis coding support up to 1024 discrete multi-tone bins and 4 Dip Switches for configuration settings
- Auto MDIX for 10/100BaseT Ethernet LAN Ports
- Low-latency for video/voice/data applications
- Compact size design for desktop or rack mountable



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

- Provides 100/60 Mbps DownStream/UpStream for distance up to 300 meters
- Supports VDSL2 connection up to 2000 meters
- IEEE802.3af compliant - 48V Power-Sourcing-Ethernet (PSE) standard and line surge protection
- Maximum 15.4 Watt for class 3 output power
- 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
- Selectable fast/Interleaved modes and fixed data rate/ SNR margin
- Compact size design for desktop or rack mountable



**VDS-0130**  
Ethernet over VDSL2 Converter (PD)

- Provides 100/60 Mbps DownStream/UpStream for distance up to 300 meters
- Supports VDSL2 connection up to 2000 meters
- IEEE802.3af compliant PoE standard
- Compatible with Class 0 to Class 3 equipment for input voltage 36V – 60V and line surge protection
- 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
- Selectable fast and interleaved modes
- Selectable fixed data rate and fixed SNR margin



**VDS-0110**  
Ethernet over VDSL2 Converter (Sender)

- Provides 100/50 Mbps DownStream/UpStream for distance up to 300 meters
- Supports Line Powered VDSL2 connection
- Conforms Safety-Extra-Low-Voltage (SELV) standard
- Line surge protection
- 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
- Selectable fast and interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Compact size design for desktop or rackmount



**VDS-0111**  
Ethernet over VDSL2 Converter (Receiver)

- Provides 100/50 Mbps DownStream/UpStream for distance up to 300 meters
- Supports Line Powered VDSL2 connection
- Conforms Safety-Extra-Low-Voltage (SELV) standard
- Line surge protection
- 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
- Selectable fast and interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Powered by VDS-0110 through telephone line

### LevelOne VDSL2 Media Converter Comparison

Model	VDS-0200/0201	VDS-0202	VDS-0120	VDS-0130	VDS-0110	VDS-0111
Max. DL/UL Speeds/Distance	100/60 Mbps/300m	100/60 Mbps/400m	100/60 Mbps/300m	100/60 Mbps/300m	100/50 Mbps/300m	100/50 Mbps/300m
RJ-45 LAN Port	2	2	1	1	1	1
RJ-11 DSL Port	1	-	1	1	1	1
RJ-11 Telephone Port	1	-	-	-	-	-
BNC Port	-	1	-	-	-	-

Accessories

**Model**

GVT-0300 / GVT-0301 / GVT-0302



**Description**

1.25Gbps SFP transceiver, Duplex LC connector (550m / 10km / 80km)

**Works with:**

GVT-4000 / GVT-5000

**Model**

SFP-3711



**Description**

1.25Gbps SFP transceiver, SM, EZX, Duplex LC connector (120km)

**Works with:**

GVT-4000 / GVT-5000

**Model**

SFP-9221 / SFP-9231



**Description**

1.25Gbps BI-DI SFP transceiver, SM, Simplex LC connector (10km)

**Works with:**

GVT-4000 / GVT-5000

**Model**

RPS-4000



**Description**

Redundant Power Supply

**Works with:**

FVT-4000

**Model**

FVT-5001



**Description**

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

**Works with:**

FVT-5000

**Model**

SFP-3001 / SFP-3211 / SFP-3611



**Description**

1.25Gbps SFP transceiver, Duplex LC connector (500m / 10km / 80km)\* SFP-3001 supports DDM function

**Works with:**

GVT-4000 / GVT-5000

**Model**

SFP-3841



**Description**

1.25Gbps transceiver, TX Copper, RJ45 type (100m)

**Works with:**

GVT-4000 / GVT-5000

**Model**

SFP-9321 / SFP-9331



**Description**

1.25Gbps BI-DI SFP transceiver, SM, Simplex LC connector (20km)

**Works with:**

GVT-4000 / GVT-5000

**Model**

RPS-5000



**Description**

Redundant Power Supply

**Works with:**

FVT-5000

**Model**

FVT-5301



**Description**

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

**Works with:**

FVT-5000

**Model**

SFP-3111



**Description**

1.25Gbps SFP transceiver, MM, MLX, Duplex LC connector (2km)

**Works with:**

GVT-4000 / GVT-5000

**About BI-DI (WDM) SFP transceiver**

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.

**Model**

SFP-9421 / SFP-9431



**Description**

1.25Gbps BI-DI SFP transceiver, SM, Simplex LC connector (40km)

**Works with:**

GVT-4000 / GVT-5000

**Model**

GVT-5000

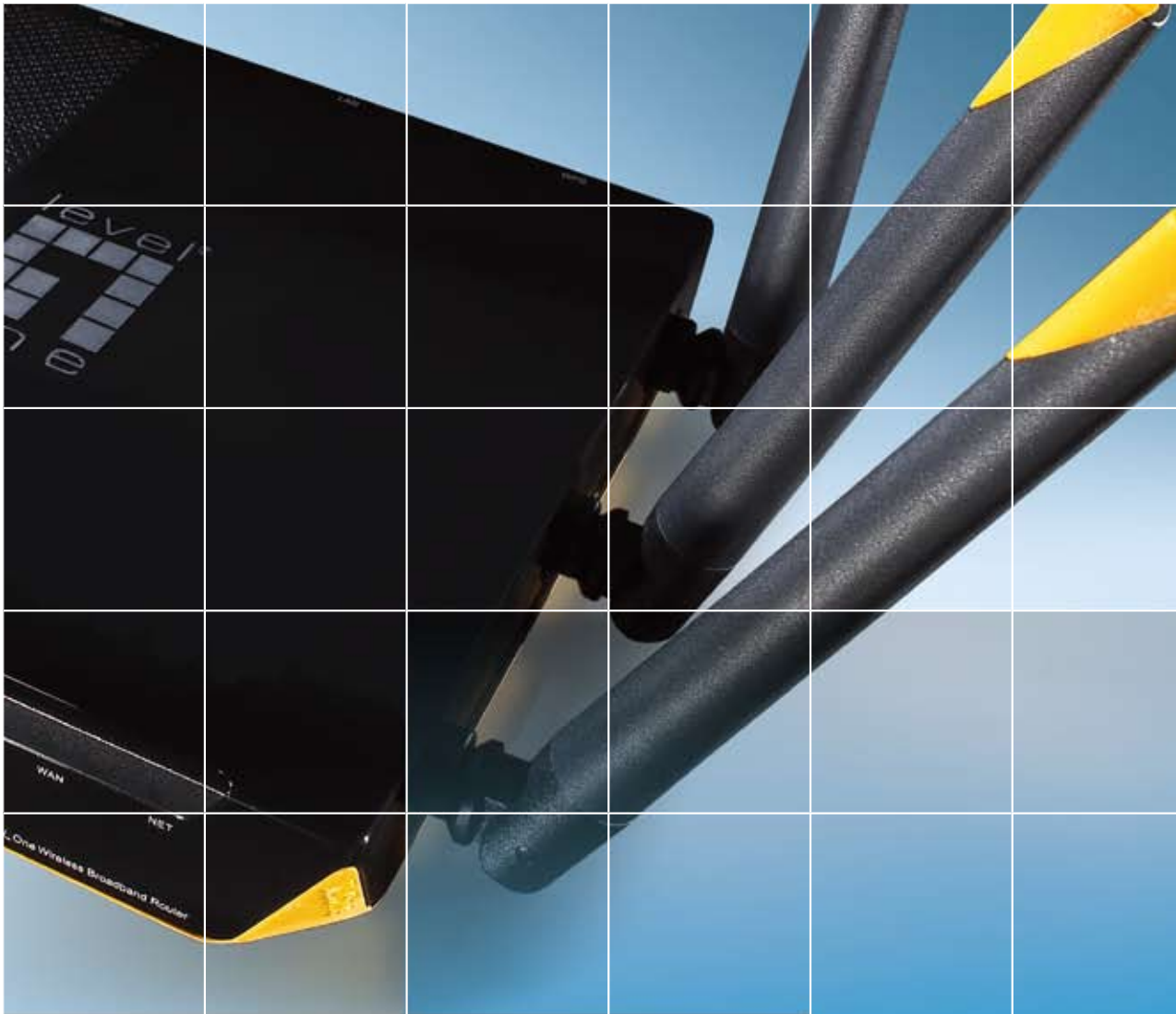


**Description**

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

**Works with:**

FVT-5000



## **Broadband Routers and Gateways**

High-Speed Routers for Quick and Secure Internet Access

## **Broadband DSL Modem/Routers**

Fast and Secure Access to the Internet

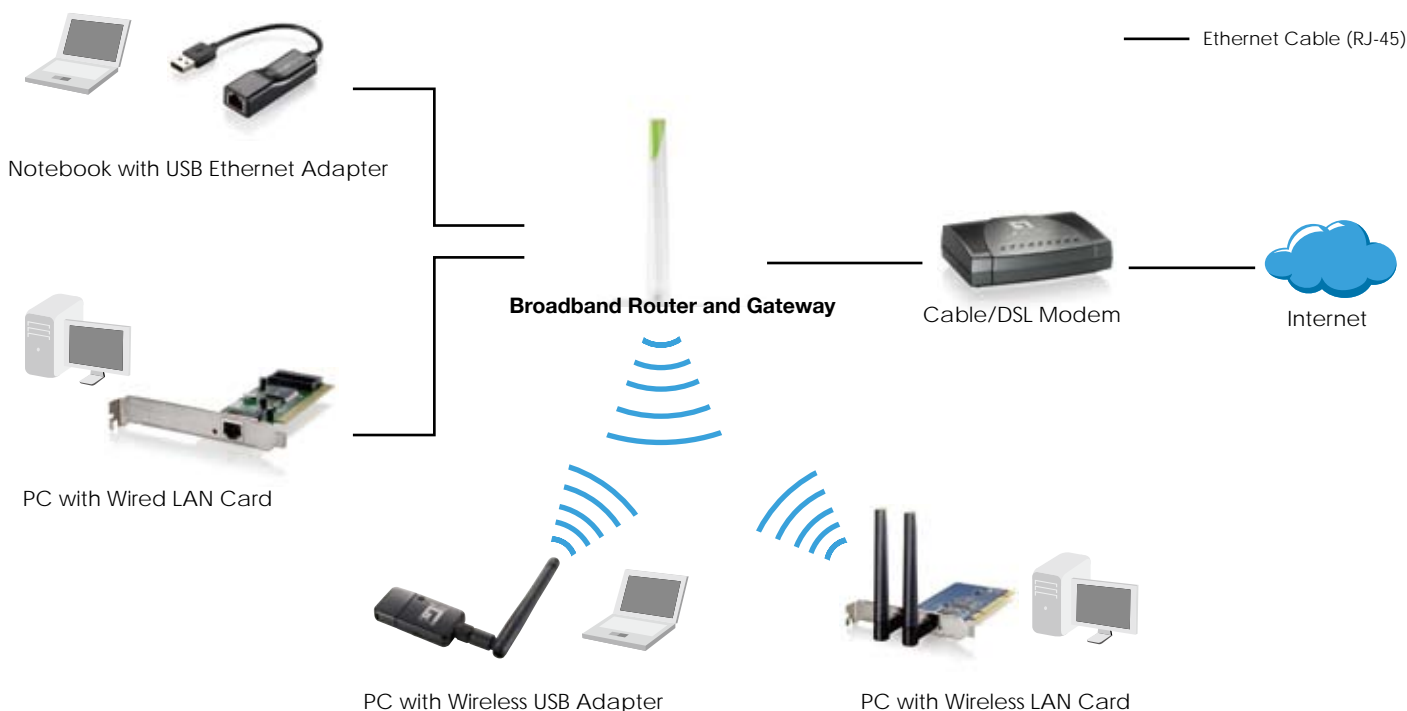
## **Network Adapters**

Wired and Wireless Network PCI Cards, CardBus and USB Adapters

- Wired
- Wireless
- Accessories

# LevelOne Broadband Routers and Gateways

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



## Wired



**FBR-1430**  
VPN Broadband Router

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



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

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



**FBR-1418TX**  
Broadband Router

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

### Broadband Routers and Gateways Comparison

Model	FBR-1430	FBR-4000	FBR-1418TX
10/100Mbps LAN	4	10	4
10/100Mbps WAN	1	4	1
Wireless Standards	-	-	-
Management	HTTP	HTTP/SNMP	HTTP/SNMP

## Wireless



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

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



**WBR-6000**  
**N\_One Wireless Router**

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



**WBR-6001**  
**N\_Max Wireless Router**

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



**WBR-6002**  
**N Wireless Router**

- Compliant with 802.11n wireless standard, 150 Mbps
- Auto-Channel selection to avoid interference from neighbors
- Simple Wireless Security with one-push WPS button
- Wireless signal on/off button
- Features built-In VPN pass-through, universal plug-and-play and advanced DDNS services
- Advanced dual firewall and full control of data traffic with Quality of Service (QoS)
- Easy step-by-step installation wizard
- Supports Wireless Internet Service Provider(WISP) Connection



**WBR-6003**  
**N Wireless Router**

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



**WBR-6800**  
**N Wireless 3G Router**

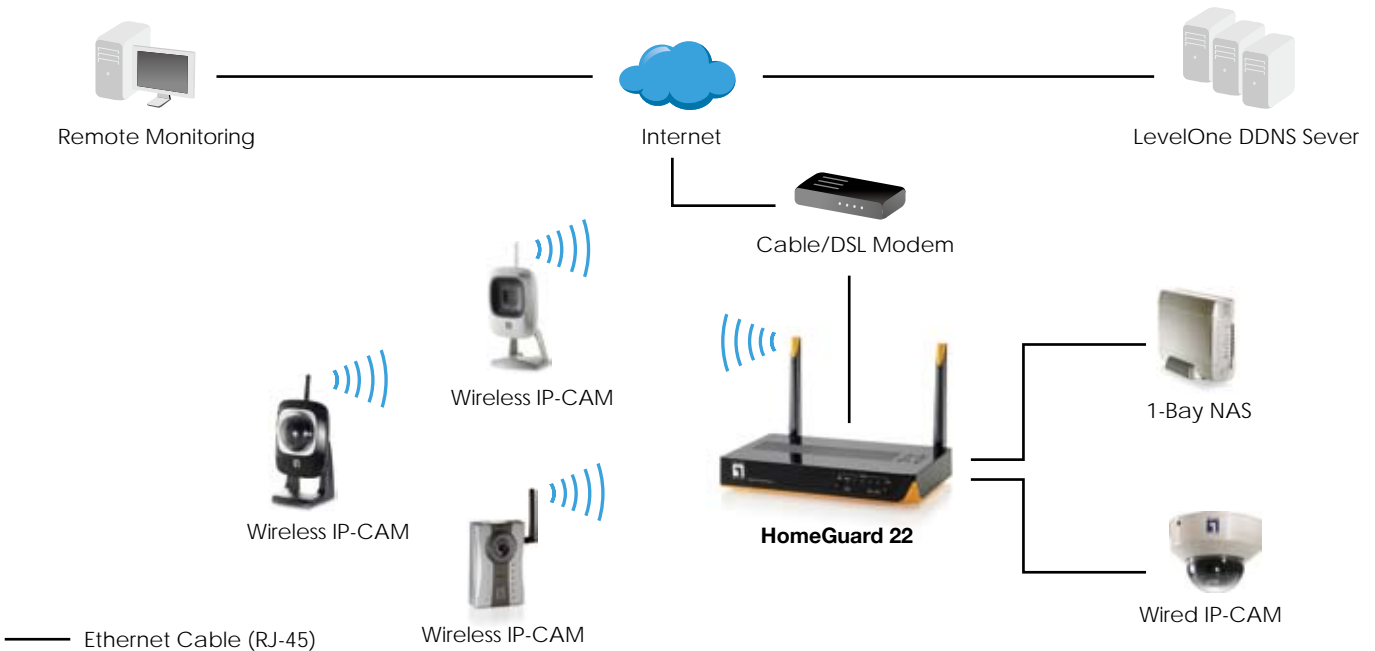
- Integrates with 1-Port Ethernet LAN: 10/100 Mbps MDI-MDI-X Auto-Sensing
- Provides 10/100Mbps RJ45 or 3G (USB) WAN interface for Broadband Internet Access
- Auto-Fallback Feature to Ensure Always-On Connectivity
- Secured Wireless with WEP, WPA or WPA2-PSK Encryption
- Backwards compatible with IEEE 802.11g/b standards
- Built-in Firewall and Quality of Service functions
- Quick Setup or Web-Based Interface Configuration and Management
- Features Built-In VPN Pass-Through, Universal Plug and Play and Advanced DDNS Services

### Broadband Routers and Gateways Comparison

Model	WSK-3000	WBR-6000	WBR-6001	WBR-6002	WBR-6003	WBR-6800
10/100Mbps LAN	4	4	4	4	4	1
10/100Mbps WAN	1	1	1	1	1	1
Wireless Standards	11b/g/n	11b/g/n	11b/g/n	11b/g/n	11b/g/n	11b/g/n
Management	HTTP	HTTP	HTTP/SNMP	HTTP	HTTP/SNMP	HTTP

# Surveillance simplicity at its finest

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



## Wireless



**WBR-6020**  
**N\_Max Wireless Router**

- Delivers *N\_Max* wireless performance at up to 300Mbps using 802.11n standard
- Increased wireless range with 3 antenna MIMO technology
- Save power with scheduled sleep mode, active link detection and WiFi disable button
- Simple security control with one-button WPS protection
- Quick and easy installation wizard
- Built-in firewall and Quality of Service (QoS)
- Features VPN-pass-through, universal plug-and-play (UPnP), DDNS



**WBR-6011**  
**N\_Max Wireless Router**

- 802.11n compliant, speeds up to 300Mbps
- Auto-Channel Selection to avoid interference from neighbors
- Wireless Signal On / Off Button
- Scheduled Wireless On / Off
- Simple Wireless Security with one-push WPS button
- Advanced Firewall and Traffic Priority Features.
- Supports WISP Connection
- Easy Step-by-Step Installation Wizard



**WBR-6022**  
**HomeGuard22 Residential Gateway**

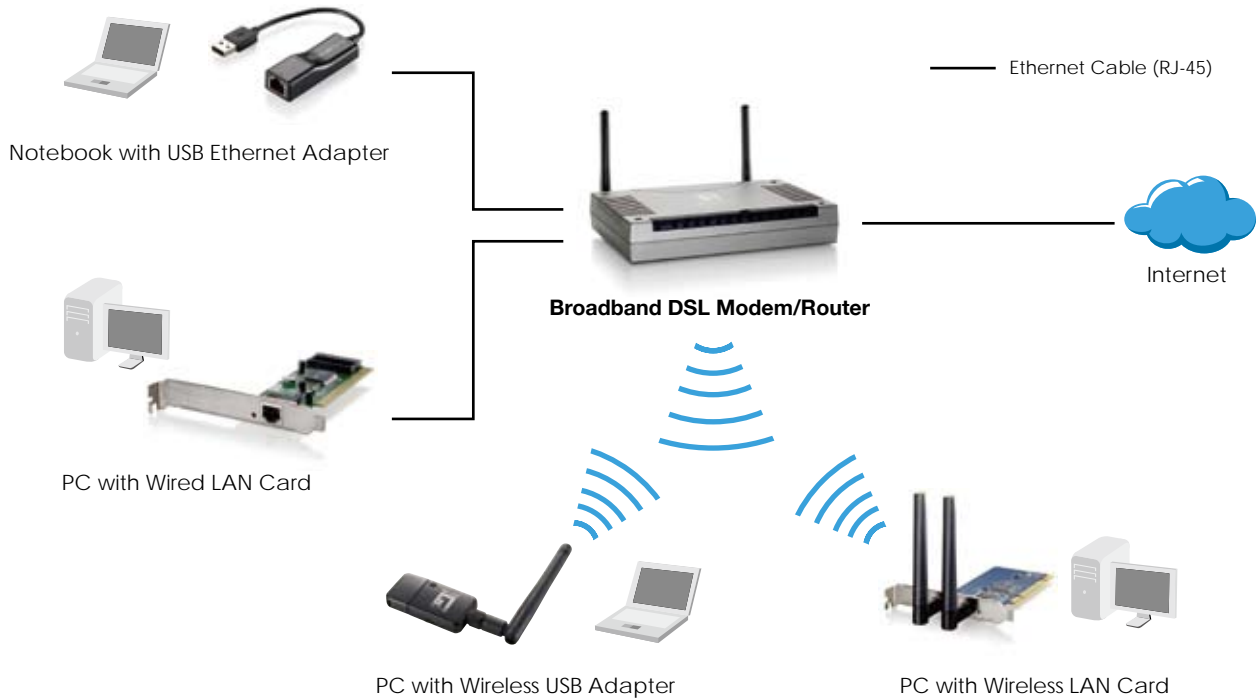
- High-speed 11n wireless data transfer with 3 antenna MIMO technology, up to 300Mbps
- Easily create a home surveillance network in your home or office
- Works well with LevelOne Network Cameras FCS-0010/0020/1030/1091/1081A/1101/3021; WCS-0010/0020/2030/1090 (refer page.41-42) and NAS FNS-1020 (refer page 50)
- Single web portal to control Network Camera and NAS
- Built-in LevelOne DDNS Service account for Internet remote control
- Save power with scheduled sleep mode and WiFi disable button

### Broadband Routers and Gateways Comparison

Model	WBR-6020	WBR-6011	WBR-6022
10/100Mbps LAN	4	4	4
10/100Mbps WAN	1	1	1
Wireless Standards	11b/g/n	11b/g/n	11b/g/n
Management	HTTP/SNMP	HTTP	HTTP/SNMP

# LevelOne Broadband DSL Modem/Routers

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



## Wired



**FBR-1161A/B**  
ADSL2/2+ Modem Router with 1 USB Port

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



**FBR-1461A/B**  
ADSL2/2+ Modem Router with QoS

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

## Wireless



**WBR-6601**  
150 Mbps N Wireless Modem Router

- High-speed broadband connection with ADSL2+
- Compliant with 802.11n wireless standard at network speeds of up to 150 Mbps
- Integrated 4-Port Ethernet Switch, one port can be configured as a WAN interface
- Control your bandwidth with Quality of Service (QoS)
- Supports wireless security including WEP, WPA/WPA2, and 802.1X
- Supports Wi-Fi Protected Setup (WPS) technology

## Broadband DSL Modem/ Routers comparison

Model	FBR-1161A/B	FBR-1461A/B	WBR-6601
Wireless Standards	-	-	11b/g/n
ADSL	1	1	1
10/100Mbps LAN	1	4	4 + 1 WAN
Management	HTTP/Telnet/SNMP	HTTP/Telnet/SNMP	HTTP

Wireless



**WBR-3600A/B**  
54 Mbps Wireless Modem/Router

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



**WBR-3470A/B**  
54 Mbps Wireless Modem + VOIP Router

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



**WBR-6600A/B**  
N\_Max Wireless Modem Router

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

Accessories

**Model**

WBO-0100\* *n.a. in Europe*

**Description**

Indoor 11b/g Wireless Booster (1W)

**Works with:**

WBR-3600A/B / 3470A/B

**Model**

WBO-1100\* *n.a. in Europe*

**Description**

Outdoor 11b/g Wireless Booster(1W)

**Works with:**

WBR-3600A/B / 3470A/B

**Model**

WBO-1200\* *n.a. in Europe*

**Description**

Outdoor 11b/g Wireless Booster(2W)

**Works with:**

WBR-3600A/B / 3470A/B

**Model**

WBO-1400\* *n.a. in Europe*

**Description**

Outdoor 11b/g Wireless Booster(4W)

**Works with:**

WBR-3600A/B / 3470A/B

**Model**

WBO-2500\* *n.a. in Europe*

**Description**

Indoor 11n Wireless Booster(500mW)

**Works with:**

WBR-6001; WBR-6600A/B

\*The output power of these products may conflict with the wireless communication regulations in your country. Please check in advance before purchasing.

Broadband DSL Modem/ Routers comparison

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

# LevelOne Network Adapters

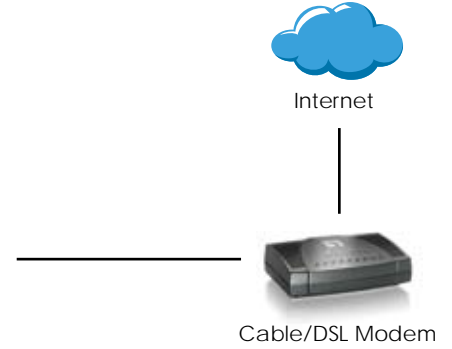
LevelOne network adapters come in many different interfaces to suit your needs. And with high-speed data transfer rates that follow all IEEE standards and protocols, you can rely on solid performance especially when bandwidth-hungry applications are being used.

Extends Wireless LAN Coverage

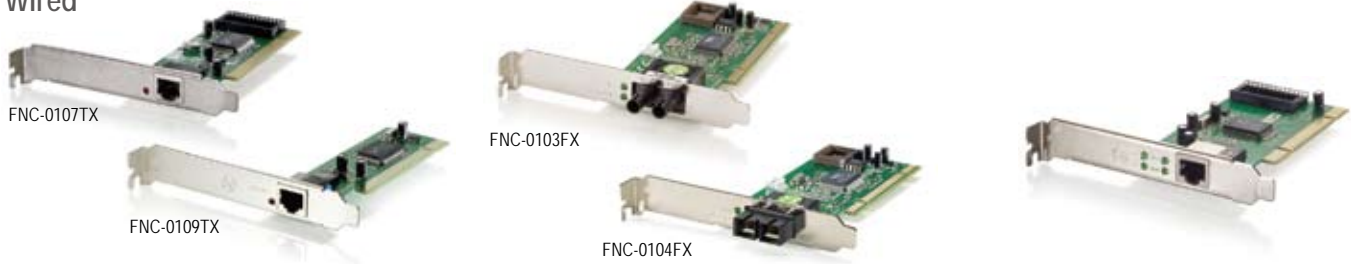


— Ethernet Cable (RJ-45)

Up to 300Mbps High Transfer Rate



## Wired



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

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

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

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

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

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

## Wired Network Adapters Comparison

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

Wired



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

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



**FNC-0115**  
100FX Multi-mode SC Fiber Optic PCI Express Card

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



GNC-0107



GNC-0111

**GNC-0107 / GNC-0111**  
1000BASE-SX Fiber Optic PCI/PCI Express Card (SC)

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



USB-0201



USB-0401

**USB-0201 / USB-0401**  
USB Gigabit Ethernet Adapter

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



USB-0202



USB-0301

**USB-0202 / USB-0301**  
USB Fast Ethernet Adapter

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

Wireless



**WNC-0301**  
54 Mbps Wireless PCI Card

- Highly efficient mechanism to provide unbeatable performance
- Security protection with 64/128-bit WEP/WPA/WPA2
- Operates in 2.412 ~ 2.484 GHz frequency
- Ad-Hoc, Infrastructure WLAN network wireless roaming
- Data rate auto fall-back under noisy environment or longer range distance

Wired Network Adapters Comparison

Model	FNC-0600TXM	FNC-0115	GNC-0107	GNC-0111	USB-0201 / USB-0401	USB-0202 / USB-0301
Interface	PCI	PCI-e	PCI	PCI-e	USB	USB
Standard	802.3i/3u/3x	802.3u/3x 802.1Q	802.3z/3ab/3x 802.1Q/1P	802.3z/3x 802.1Q	802.3i/3u/3ab	802.3u/x
Expansion Slots	10/100TX	100FX	10/100/1000SX	1000SX	10/100/1000T	10/100TX
Port	5 x RJ-45	SC Multi Mode	SC Multi Mode	SC Multi Mode	RJ-45	RJ-45
Wake On LAN	-	■	-	-	-	-



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

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



#### WNC-0601 N\_Max Wireless PCI Card

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



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

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



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

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



#### WUA-0614 N Wireless USB Adapter

- High speed wireless connection, speeds up to 150 Mbps
- Quick and easy installation
- Portable and mini-sized design
- Supports 64/128-bit WEP, WPA and WPA2 encryption for high level security
- Support Wi-Fi Protected Setup (WPS) configuration
- Detachable antenna 2dbi



#### WUA-0624 N Wireless USB Adapter

- High speed wireless connection, speeds up to 150 Mbps
- Quick and easy installation
- Portable and mini-sized design
- Supports 64/128-bit WEP, WPA and WPA2 encryption for high level security
- Support Wi-Fi Protected Setup (WPS) configuration
- Detachable antenna 4dbi

#### Wireless Network Adapters Comparison

Model	WNC-0301	WNC-0600 / WPC-0600	WNC-0601	0305USB	WUA-0315	WUA-0614 / WUA-0624
Interface	32-bit PCI	32-bit PCI / CardBus	32-bit PCI	USB 1.0/1.1/2.0	USB 1.0/1.1/2.0	USB 1.0/2.0
Standard Compliant	11b/g	11b/g/n	11b/g/n	11b/g	11b/g	11b/g/n
Wireless Speed	54 Mbps	300 Mbps	300 Mbps	54 Mbps	54 Mbps	150 Mbps
Antenna Type	Internal	3 dBi / Internal	Internal	Internal	Internal	External
Frequency Range	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835 GHz	2.4 ~ 2.4835GHz	2.4GHz ~ 2.4835GHz

Wireless



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

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

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

- Extended and high-speed wireless connectivity with wireless 802.11n technology
- Hardware push button for Wi-Fi protected setup
- Backward compliant with IEEE802.11b/g
- Operates on the 2.4 GHz frequency band
- Software AP function converts client device into AP
- Supports 64/128-bit WEP, WPA-PSK, WPA WPA2-PSK and WPA2 encryption
- Supports Windows 2000, XP and Vista
- USB 2.0/1.1/1.0 interface

**WUA-0603**  
**N Wireless USB Adapter**

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



**WUA-0605**  
**N\_Max Wireless USB Adapter**

- Compatible with IEEE 802.11b, 802.11g and 802.11n
- Data transmission rate is up to 300Mbps
- Supports WEP, WPA and WPA2 encryption with 802.1x support for high level security
- Hardware Wi-Fi Protected Setup (WPS) Push Button
- Supports USB 2.0 interface

Accessories

Model	Description	Works with:	Model	Description	Works with:
SUS-1003	Small USB Stand with extension cable	All LevelOne USB adapters	WBO-0100* <small>n.a. in Europe</small>	Indoor 11b/g Wireless Booster (1W)	WNC-0301
SAN-3000	MIMO Antenna Stand	WNC-0600	WBO-2500* <small>n.a. in Europe</small>	Indoor 11n Wireless Booster(500mW)	WNC-0600 / WNC-0601
WBO-0500 <small>n.a. in Europe</small>	11b/g Wireless Booster (500mW)	WNC-0301	*The output power of these products may conflict with the wireless communication regulations in your country. Please check in advance before purchasing.		

Wireless Network Adapters Comparison

Model	WNC-0600USB	WUA-0600	WUA-0603	WUA-0605
Interface	USB 1.0/1.1/2.0	USB 1.0/1.1/2.0	USB 1.1/2.0	USB 1.1/2.0
Standard Compliant	11b/g/n	11b/g/n	11b/g/n	11b/g/n
Wireless Speed	300 Mbps	300 Mbps	150 Mbps	300 Mbps
Antenna Type	Internal	Internal	Internal	Internal
Frequency Range	2.4~2.4835 GHz	2.4~2.4835 GHz	2.4 ~ 2.4835GHz	2.4~2.4835 GHz



## Wireless Bridges/ Access Points

Connecting Devices through Channels in the Air

- Wireless Access Points
- Wireless Bridge

## Antennas

Long Range, Short Range, Indoor, Outdoor

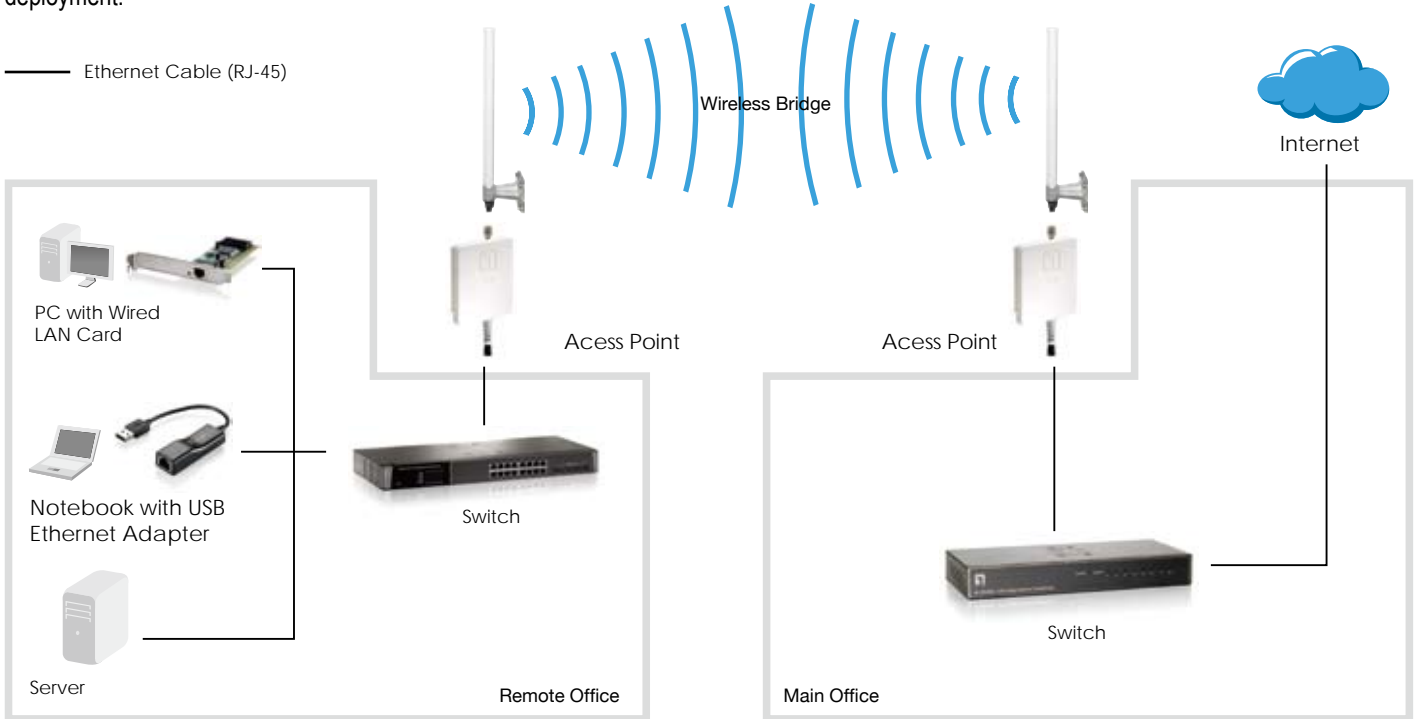
- 2.4 GHz Antennas
- 5 GHz Antennas
- Dual Band (2.4/5 GHz) Antennas
- Accessories

## Wireless Solutions

All LevelOne's Wireless Solutions in One Place

# LevelOne Wireless Bridges/Access Points

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



## Wireless Access Points (Indoor)



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

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



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

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



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

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

### Wireless Access Point Comparison

Model	WAP-3000	WAP-3100	WAP-0007	WAP-0008
Wireless Standard	11b/g	11b/g	11b/g	11b/g
Antenna Connector	RP-SMA	RP-SMA	RP-SMA	RP-SMA
PoE	-	■	-	-
IP Rating	-	-	-	-

## Wireless Access Points (Indoor)



**WAP-3101**  
Ceiling Mount PoE Wireless Access Point

- Complies wireless network speed up to 108Mbps with Super G and backward compliant with 802.11b/g standards
- Support Multi-SSID function (4 SSID) in AP mode
- Embedded 2 4dBi directional antennas in MIMO configuration
- Compliant with IEEE 802.3af PoE standard
- Supports WEP, WPA, WPA2 and IEEE 802.1x for high level security
- Browser-based interface configuration and management
- Support QoS (WMM) to enhance user performance and density



**WAP-6002**  
N Wireless Access Point

- Create or Extend Your Wireless Network
- N Wireless Performance at up to 150 Mbps
- Multi-SSID with Isolation
- AP, Repeater, WDS AP, WDS Bridge, Client Bridge, Client Router and Router Modes
- Firewall and User Access Controls
- Advanced Wireless Security with WPA2 and 802.1x
- SNMP for Remote Configuration



**WAP-6010**  
N\_Max Wireless Access Point

- Complies with the IEEE 802.11b/g and IEEE802.11n standards
- Excellent throughput rated at up to 300 Mbps for bandwidth-hungry applications
- Push button Wi-Fi protected setup, fast and easy wireless security
- Web-based configuration and management
- Supports AP/AP client/WDS/repeater modes
- Provides WEP, WPA, WPA2 and IEEE 802.1x for high level security
- Supports SNMP v1/v2c
- Supports WMM to enhance user performance and density

## Wireless Access Points (Outdoor)



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

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



**WAB-3001**  
Wireless 11g Outdoor PoE AP with  
Built-In 9dBi Antenna

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



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

- Provides high speed data rate of up to 54 Mbps
- ACK timeout adjustment for long distance applications
- Point-to-point and point-to-multipoint topology
- SNMP remote configuration management
- Optional Hi-Power RF transmission
- 802.11i and 802.1x security support
- PoE power supply and data transmission
- IP66 weather-proof design
- Works well with LevelOne Outdoor Antennas (refer page 33-35)

### Wireless Access Point Comparison

Model	WAP-3101	WAP-6002	WAP-6010	WAP-1001	WAB-3001	WAB-3002
Wireless Standard	11b/g, Super G	11b/g/n	11b/g/n	11b/g, Super G	11b/g	11b/g
Antenna Connector	Built-in 4dBi	RP-SMA	RP-SMA	Built-in 12 dBi	Built-in 9 dBi	N-type
PoE	■	-	-	■	■	■
IP Rating	-	-	-	IP66	IP66	IP66

### Wireless Access Points (Outdoor)



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

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



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

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

### Wireless Bridge



**WBA-4000**  
11a 108 Mbps Outdoor PoE Wireless Bridge

- Compliant with 802.11a and supports Turbo A mode for 108 Mbps connectivity
- Provides operating range up to 17 km at 7 Mbps data rate with 5 GHz 22 dBi antenna
- Supports point-to-point and point-to-multi point bridge operation modes
- Provides 64/128/152-bit WEP encryption and built-in surge protector
- Provides for adjustable output power: 100 mW, 50 mW, 25 mW, 13 mW, and 6 mW
- Supports IP-68 rated water-resistant and weatherproof

### Wireless Access Point / Bridge Comparison

Model	WAB-7000	WAB-7400	WBA-4000
Wireless Standard	11a/b/g	11a/b/g	11a, Turbo A
Antenna Connector	N-type	N-type	N-type
PoE	■	■	■
IP Rating	IP66	IP65	IP68

### Accessories

Model	Description	Works with:	Model	Description	Works with:	Model	Description	Works with:
WBO-0100* <small>n.a. in Europe</small>	Indoor 11b/g Wireless Booster (1W)	WAP-0007 / WAP-0008 / WAP-3000 / WAP-3100	WBO-5100* <small>n.a. in Europe</small>	Outdoor 11a Wireless Booster (1W)	WBA-4000	ANC-2350 / ANC-2330	200 Series N plug - RPSMA plug Cable 1.5m / 3m	WAB-3002 / WAP-7000 / WAP-7400
WBO-1100* <small>n.a. in Europe</small>	Outdoor 11b/g Wireless Booster(1W)	WAP-0007 / WAP-0008 / WAP-3000 / WAP-3100	WBO-0500 <small>n.a. in Europe</small>	11b/g Wireless Booster (500 mW)	WAP-0007 / WAP-0008 / WAP-0010 / WAP-3000 / WAP-3100	ANC-4230	400 series N plug - N plug Cable 3m	WAB-3002 / WAP-7000 / WAP-7400
WBO-1200* <small>n.a. in Europe</small>	Outdoor 11b/g Wireless Booster(2W)	WAP-0007 / WAP-0008 / WAP-3000 / WAP-3100	ANC-2210	200 series N plug- N plug Cable 1m	WAB-3002 / WAP-7000 / WAP-7400	ANC-4130 / ANC-4160	400 Series N plug - N jack Cable 3m / 6m	WAB-3002 / WAP-7000 / WAP-7400
WBO-1400* <small>n.a. in Europe</small>	Outdoor 11b/g Wireless Booster(4W)	WAP-0007 / WAP-0008 / WAP-3000 / WAP-3100	ANC-2310	200 series N plug- RPSMA plug Cable 1m	WAB-3002 / WAP-7000 / WAP-7400	ANC-1430 / ANC-1440 / ANC-1470 <b>NEW</b>	RPSMA plug - RPSMA jack (3m/5m/10m)	Indoor antennas

\*The output power of these products may conflict with the wireless communication regulations in your country. Please check in advance before purchasing.

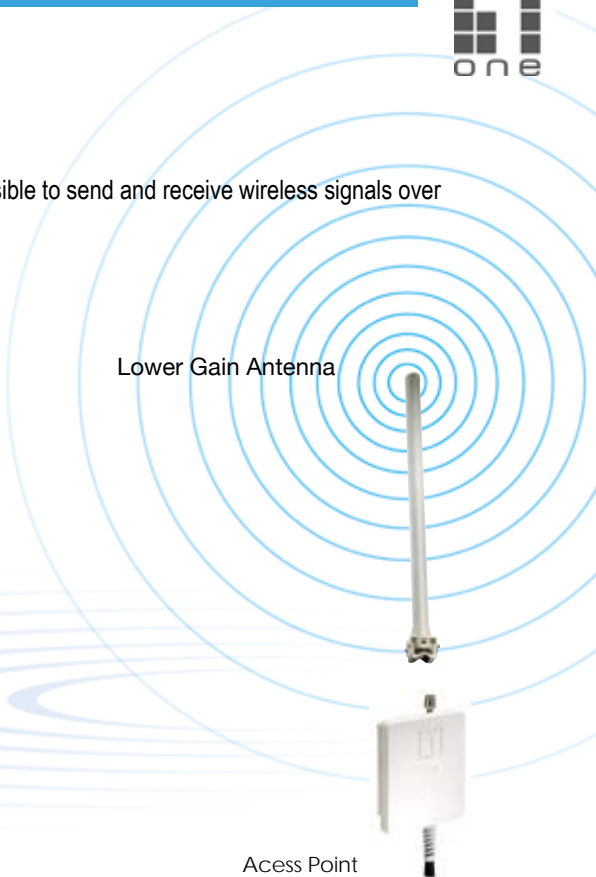
# LevelOne Antennas

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



Notebook with Wireless USB Adapter

Lower Gain Antenna



Higher Gain Antenna



Notebook with Wireless PCI Card Adapter

Access Point

## 2.4 GHz Antennas



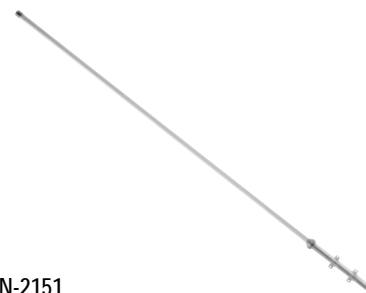
**OAN-0500**  
5 dBi Omni-directional Indoor Antenna

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



**OAN-1070**  
7 dBi Omni-directional Indoor Antenna Kit

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



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

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

### Antennas Comparison

Model	OAN-0500	OAN-1070	OAN-2151
Operating Area	Indoor	Indoor	Outdoor
Gain	5 dBi	7 dBi	15 dBi
Standard	b/g	b/g	b/g/n
Connector	RP-SMA Plug	Quick RP-SMA Plug	N-Jack
Range	40~200m	60~400m	800~3000m
Angle (horz/vert)	360°/35°	360°/23°	360°/150°

## 2.4 GHz Antennas



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

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



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

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



**WAN-2185**  
8.5 dBi Pico cell Indoor/Outdoor Antenna

- Compatible with 802.11b/g standard Wireless networks
- Extend Wireless Network Indoor and Outdoor
- Waterproof, UV resistant
- Includes extension cord for easy connection to LevelOne Access Points and Routers
- Includes wall-mounting kit for easy quick and installation
- Operates on 2.4~2.5 GHz frequencies range



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

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



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

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



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

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

### Antennas Comparison

Model	OAN-2090	WAN-1112	WAN-2185	WAN-2140	WAN-2181	WAN-2218
Operating Area	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Outdoor	Outdoor	Outdoor
Gain	9 dBi	12 dBi	8.5 dBi	14 dBi	18 dBi	18 dBi
Standard	b/g	b/g	b/g	b/g	b/g/n	b/g
Connector	N-Jack	SMA-Jack	N-Jack	N-Jack	N-Jack	N-Jack
Range	400~1000m	200~800m	350~1200m	300-3500m	1500~5000m	1500~5000m
Angle (horz/vert)	360°/15°	84°/23°	70°/65°	30°/33°	17°/17°	15°/15°

## 5 GHz Antennas



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

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



**WAN-4220**  
11a 22 dBi Directional Grid Outdoor Antenna

- For IEEE 802.11a applications at the range between 5.725~5.850 GHz frequency band
- Easy to install for vertical or horizontal polarization
- Directional operation provides extended point-to-point coverage
- Low wind resistance



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

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

## Dual Band (2.4/5 GHz ) Antennas

NEW



**WAN-4232**  
11a 23 dBi Directional Panel Outdoor Antenna

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



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

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

## Antennas Comparison

Model	OAN-4101	WAN-4220	WAN-4231	WAN-4232	WAN-1160
Operating Area	Outdoor	Outdoor	Outdoor	Outdoor	Indoor
Gain	10 dBi	22 dBi	23 dBi	23 dBi	6/8 dBi
Standard	a	a	a	a	a/b/g
Connector	N-Jack	N-Jack	N-Jack	N-Jack	Quick RP-SMA Plug
Range	600~2400m	1500~5000m	1500~5000m	1500~5000m	25~180m
Angle (horz/vert)	360°/7°	13°/10°	10°/10°	10°/10°	80°/80°

Accessories

**Model**

WAS-4002



*n.a. in Europe*

**Description**

11a Wireless Antenna Splitter

**Works with:**

WAN-4220 / 4231; OAN-4101

**Model**

WBO-0100\*



*n.a. in Europe*

**Description**

Indoor 11b/g Wireless Booster (1W)

**Works with:**

OAN-0500 / 1070

**Model**

WBO-5100\*



*n.a. in Europe*

**Description**

Outdoor 11a Wireless Booster (1W)

**Works with:**

OAN-4101; WAN-4220 / 4231 / 4232

**Model**

ANC-2310



**Description**

200 series N plug - RPSMA plug Cable 1m

**Works with:**

LevelOne outdoor antennas

**Model**

ANC-2350 / ANC-2330



**Description**

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

**Works with:**

LevelOne outdoor antennas

**Model**

SAN-3000



**Description**

MIMO Antenna Stand

**Works with:**

OAN-0500 / 1070

**Model**

WBO-1100\* / WBO-1200\*



*n.a. in Europe*

**Description**

Outdoor 11b/g Wireless Booster (1W / 2W)

**Works with:**

LevelOne 11b/g outdoor antenna

**Model**

ANC-1430 / ANC-1440 / ANC-1470



**NEW**

**Description**

RPSMA plug - RPSMA jack (3m/5m/10m)

**Works with:**

Indoor antennas

**Model**

ANC-4230



**Description**

400 series N plug - N plug Cable 3m

**Works with:**

LevelOne outdoor antennas

**Model**

ANC-4130 / ANC-4160



**Description**

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

**Works with:**

LevelOne outdoor antennas

**Model**

WBO-0500



*n.a. in Europe*

**Description**

11b/g Wireless Booster (500 mW)

**Works with:**

OAN-0500 / 1070

**Model**

WBO-1400\*



*n.a. in Europe*

**Description**

Outdoor 11b/g Wireless Booster (4W)

**Works with:**

LevelOne 11b/g outdoor antenna

**Model**

ANC-2210



**Description**

200 series N plug - N plug Cable 1m

**Works with:**

LevelOne outdoor antennas

**Model**

ANA-6100



**Description**

6GHz N jack to N plug Outdoor Lighting Arrestor

**Works with:**

LevelOne outdoor antennas

**Model**

ANA-3100



**Description**

3GHz N jack to N plug Outdoor Lighting Arrestor

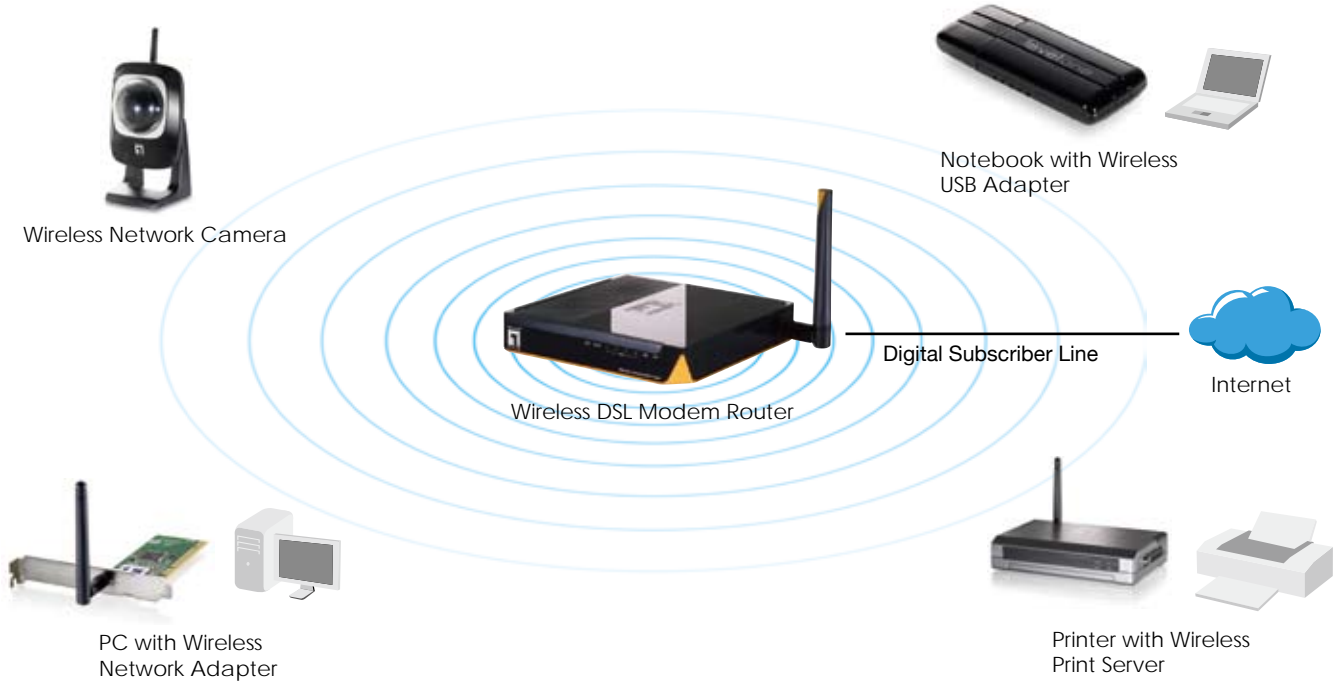
**Works with:**

LevelOne outdoor antennas

\*The output power of these products may conflict with the wireless communication regulations in your country. Please check in advance before purchasing.

# LevelOne Wireless Solutions

Wireless is a rapidly growing segment for home and small office networking. LevelOne is leading the way when it comes to providing quality products that stream data at the fastest speeds while also offering the highest levels of security. And our award-winning 802.11n series give users fast and secure networks accompanied by unique and stylish designs.



Model	Description	See Page
<b>Wireless Broadband Routers and Gateways</b>		
WSK-3000	N_Max Wireless Starter Kit	P.21
WBR-6000	N_One Wireless Router	P.21
WBR-6001	N_Max Wireless Router	P.21
WBR-6002	N Wireless Router	P.21
WBR-6003	N Wireless Router	P.21
WBR-6800	N Wireless 3G Router	P.21
WBR-6020	N_Max Wireless Router	P.22
WBR-6011	N_Max Wireless Router	P.22
WBR-6022	HomeGuard22 Residential Gateway	P.22

Model	Description	See Page
<b>Wireless Broadband Routers and Gateways</b>		
WBR-6601	150 Mps N Wireless Modem Router	P.23
<b>Wireless Broadband DSL Modem/Routers</b>		
WBR-3600A/B	54 Mbps Wireless Modem/Router	P.24
WBR-3470A/B	54 Mbps Wireless Modem + VOIP Router	P.24
WBR-6600A/B	N_Max Wireless ADSL2+ Modem Router	P.24
<b>Wireless Network Adapters</b>		
WNC-0301	54 Mbps Wireless Adapter	P.26
WNC-0600	N_One Wireless PCI Adapter	P.27
WPC-0600	N_One Wireless CardBus Adapter	P.27
WNC-0601	N_Max Wireless PCI Card	P.27

Model	Description	See Page
<b>Wireless Network Adapters</b>		
WNC-0305USB	54 Mbps Wireless USB Adapter	P.27
WUA-0315	11g Wireless USB Adapter	P.27
WUA-0614	N Wireless USB Adapter	P.27
WUA-0624	N Wireless USB Adapter	P.27
WNC-0600USB	N_One Wireless USB Adapter	P.28
WUA-0600	N_Max Wireless USB Adapter	P.28
WUA-0603	N Wireless USB Adapter	P.28
WUA-0605	N_Max Wireless USB Adapter	P.28

Model	Description	See Page	Model	Description	See Page	Model	Description	See Page
<b>Wireless Bridge/Access Points</b>			<b>Antennas</b>			<b>Wireless Network Cameras</b>		
WAP-3000	11g 54Mbps Wireless Access Point	P.30	OAN-0500	5dBi Omni-directional Indoor Antenna	P.33	WCS-0030	150 Mbps Wireless H.264 MegaPixel Network Camera	P.40
								
WAP-3100	11g 54Mbps PoE Wireless Access Point	P.30	OAN-1070	7dBi Omni-directional Desktop Indoor Antenna Kit	P.33	WCS-0010	Wireless Network Camera with Mic	P.41
								
WAP-0007	11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)	P.30	OAN-2151	15 dBi Omni-Directional Outdoor Antenna	P.33	WCS-0020	Wireless Pan/Tilt/Zoom Network Camera	P.41
								
WAP-0008	11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD)	P.30	OAN-2090	9 dBi Omni-Directional Indoor/Outdoor Antenna Kit	P.34	WCS-2030	Wireless Network Camera with Mic	P.41
								
WAP-3101	Ceiling Mount PoE Wireless Access Point	P.31	WAN-1112	12dBi Directional Patch Indoor/Outdoor Antenna Kit	P.34	WCS-2060	Wireless Pan/Tilt/Zoom Network Camera	P.41
								
WAP-6002	N Wireless Access Point	P.31	WAN-2185	8.5 dBi Pico Cell Outdoor Antenna	P.34	WCS-2010	Wireless Pan/Tilt/Zoom Network Camera	P.41
								
WAP-6010	N_Max Wireless Access Point	P.31	WAN-2140	14 dBi Directional Panel Outdoor Antenna	P.34	WCS-2040	Wireless Pan/Tilt/Zoom Network Camera	P.41
								
WAP-1001	11b/g 108Mbps Outdoor PoE Wireless Access Point	P.31	WAN-2181	18dBi Directional Panel Outdoor Antenna	P.34	WCS-1090	Wireless Day/Night Network Camera	P.42
								
WAB-3001	Wireless 11g Outdoor PoE AP with Built-In 9dBi Antenna	P.31	WAN-2218	18 dBi Directional Yagi Outdoor Antenna	P.34	WCS-2070	Wireless Day/Night Network Camera w/ Built-In IR LEDs	P.42
								
WAB-3002	Wireless 11g Outdoor PoE AP	P.31	OAN-4101	11a 10dBi Omni-Directional Outdoor Antenna	P.35	<b>Wireless Storage</b>		
						WAP-0007	11b/g 54Mbps Wireless Access Point + Storage (2.5" HDD)	P.50
WAB-7000	Wireless 11a/b/g Outdoor PoE AP	P.32	WAN-4220	11a 22dBi Directional Grid Outdoor Antenna	P.35			
						WAP-0008	11b/g 54Mbps Wireless Access Point + Storage (3.5" HDD)	P.50
WAB-7400	Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP	P.32	WAN-4231	11a 23dBi Directional Panel Outdoor Antenna	P.35			
						<b>Wireless Print/USB Servers</b>		
<b>Wireless Bridge</b>			WAN-4232	11a 23dBi Directional Panel Outdoor Antenna	P.35	WPS-1133	54 Mbps Wireless Print Server with 2 USB and 1 Parallel Port	P.77
WBA-4000	11a 108 Mbps Outdoor PoE Wireless Bridge	P.32						
			WAN-1160	11a/b/g 6/8dBi Directional Antenna	P.35	WUS-3200	54 Mbps Wireless Multifunction Print Server with 2 USB Ports	P.77
								
						WPS-9123	54 Mbps Wireless Print Server with 2 USB Port and 1 Parallel Port	P.77
								
						<b>VoIP Solution</b>		
						WBR-3470A/B	Wireless 54 Mbps Modem + VoIP Router	P.78
								



## **Network Cameras**

Digital Surveillance Solutions for  
Indoor and Outdoor Applications

- Wired
- Wireless
- Accessories

## **Video Servers/ Captured Cards**

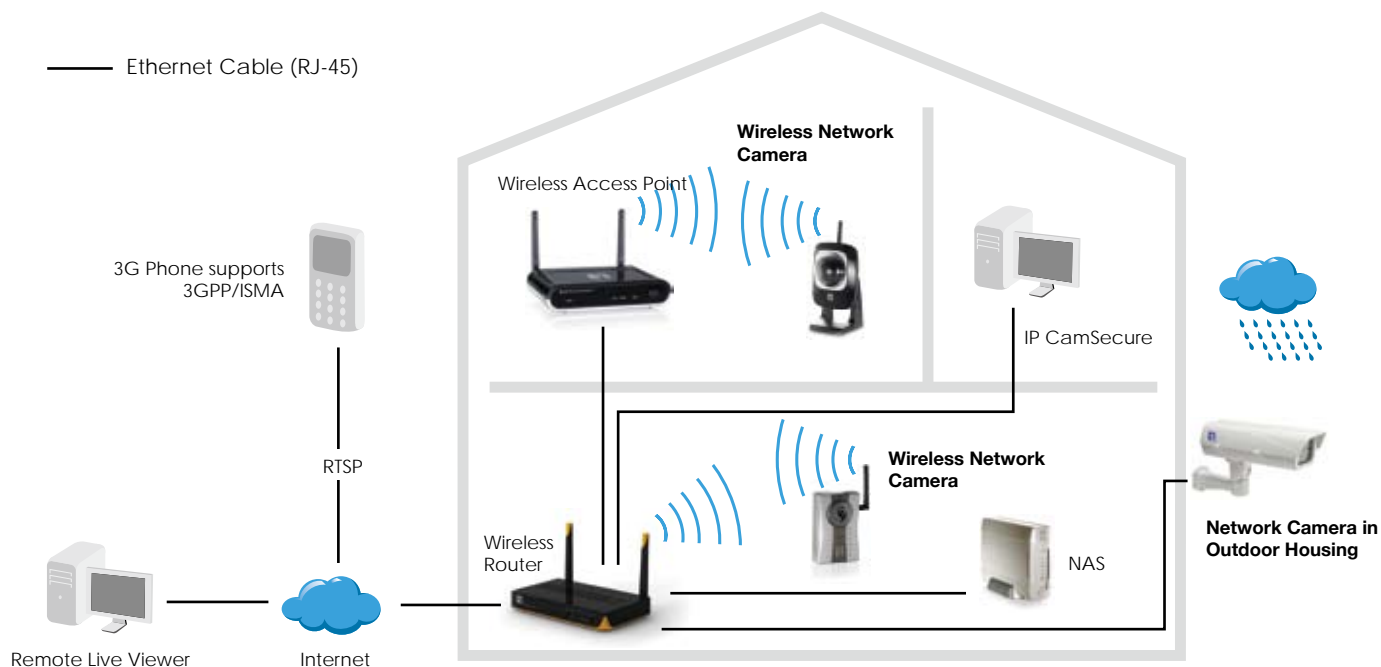
Convert your CCTV signals to digital

## **IP Surveillance Software**

View and Manage up to 64 Cameras  
from a Single Station

# LevelOne Network Cameras

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



## Network Cameras



**FCS-0030**  
H.264 MegaPixel Network Camera

- 1/4" MegaPixel CMOS Sensor
- Support H.264 codec compression for high-quality video resolutions at up to 1280 x 800 pixels
- Built-in PIR sensor for human temperature detection
- Built-in white LED for low lux
- Supports two-way audio
- Built-in micro SD memory card slot
- Works well with WBR-6022 HomeGuard22 (refer page 22)



**WCS-0030**  
150 Mbps Wireless H.264 MegaPixel Network Camera

- 1/4" MegaPixel CMOS Sensor
- Support H.264 codec compression for high-quality video resolutions at up to 1280 x 800 pixels
- Built-in PIR sensor for human temperature detection
- Built-in white LED for low lux
- Supports two-way audio
- Built-in micro SD memory card slot
- Simple Wireless Security with one-push WPS button
- Compliant with 802.11n wireless standard, 150 Mbps
- Works well with WBR-6022 HomeGuard22 (refer page 22)



**FCS-1121**  
H.264 MegaPixel PoE Network Camera

- 1/4" Mega-Pixel CMOS Sensor
- Support H.264 codec compression for high-quality video resolutions at up to 1280 x 800 pixels
- Simultaneous dual stream for optimized quality and bandwidth
- 1 DI/DO for External Alarm and Sensor Device
- Built-in SD memory card slot
- Build-in 802.3af PoE (Power over Ethernet) Compliant
- Removable IR-Cut Filter for Day and Night Function
- Support WiMAX, Digital frame, power line application

### Network Cameras Comparison

Model	FCS-0030	WCS-0030	FCS-1121
Indoor / Outdoor	Indoor	Indoor	Indoor/Outdoor with DOH-1x00
Day / Night	Day	Day	Day
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio	■	■	■
Frame Rate	1280 x 800: 30fps 640 x 400: 30fps	1280 x 800: 30fps 640 x 400: 30fps	1280 x 800: 30fps 640 x 400: 30fps

## Network Cameras



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

- 1/6" Color CMOS sensor
- Features a bi-directional microphone for easy setup as an intercom with display
- Up to 30 frames per second in full VGA resolution
- Supports UPnP for easy set-up and installation
- Supports DDNS for dynamic IP
- Bundled with LevelOne IP CamSecure Lite surveillance management software
- Remote viewing over the Internet or via 3G mobile
- Easily mounts on the wall
- Works well with WBR-6022 HomeGuard22 (refer page 22)



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

- 1/4" CMOS sensor for crystal clear picture quality
- Provides VGA resolution at 30/25 frames per second
- 2-way audio: Built-in microphone and audio in/out jacks
- Dual streaming MPEG4 and Motion-JPEG support
- UPnP, DDNS, motion detection, and alarm snapshot
- 3GPP supported for view FCS-0020 over your 3G mobile phone or PDA (3GPP-compliant devices only)
- Easily mounts on the wall
- Works well with WBR-6022 HomeGuard22 (refer page 22)



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

- Built-in 1/4" Color CMOS sensor
- Provides built-in Omni-directional microphone
- Able to view and record live video up to 32 cameras simultaneously
- Supports 4x digital zoom
- Supports UPnP for easy set-up and installation
- Friendly GUI for easy configuration
- Plug-and-play for easy installation
- Works well with WBR-6022 HomeGuard22 (refer page 22)



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

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



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

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



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

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

### Network Cameras Comparison

Model	FCS-0010 / WCS-0010	FCS-0020 / WCS-0020	FCS-1030 / WCS-2030	FCS-1060 / WCS-2060	FCS-1010 / WCS-2010	FCS-1040 / WCS-2040
Indoor / Outdoor	Indoor	Indoor	Indoor	Indoor/Outdoor w/ DOH-1x00	Indoor/Outdoor w/ DOH-1x00	Indoor/Outdoor w/ DOH-1x00
Day / Night	Day	Day	Day	Day	Day	Day
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MPEG4	MPEG4	MPEG4	MJPEG/MPEG4
2 Way Audio	■	■	-	-	-	■
Frame Rate	160x120: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	160x120: 30/25 fps 320x240: 30/25 fp 640x480: 30/25 fps	160x120: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	160x120: 30/25 fps 176x144: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 10 fps	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 15/12 fps

Network Cameras



**FCS-1101**  
PoE Network Camera with Audio

- Provides 1/3" Color CCD sensor
- Supports AGC, AES and AWB
- Simultaneous Motion JPEG & MPEG-4 Dual Streaming
- Excellent image quality with up to 30 fps in full D1 resolution
- Supports two-way audio
- Supports 3GPP/ISMA RTSP
- Intelligent motion detection
- UPnP for fast and easy installation
- Works well with WBR-6022 HomeGuard22 (refer page 22)



**FCS-1081A**  
PoE Network Camera with Audio

- Provides 1/3" Color CCD sensor
- Provides for flexible deployment with PoE capability
- Provides full D1 resolution at 30/25 fps
- Supports 4mm CS-mount lens changeable with different lens specifications
- Provides backlight compensation, auto-iris control, auto white balance supported
- Optional lenses with CAS-1000A (3.5-8mm) and CAS-1000B (6-60mm)
- Optional outdoor housing: BOH-1000 / 1100 / 1300
- Supports two-way audio
- Works well with WBR-6022 HomeGuard22 (refer page 22)



**FCS-1091 / WCS-1090**  
Wired/Wireless Day/Night Network Camera with Audio

- Features a high-definition Sony progressive 1/4" CCD sensor for high-resolution image capturing
- Day/night viewing with automatic infrared filter switching
- Provides 4 motion detection areas with individual sensitivity set-up
- Features a bi-directional microphone for easy setup as an intercom with display
- Dual live video streaming to multiple users
- Remote viewing over the Internet or via 3G mobile
- PoE compliant for easy network deployment (FCS-1091)
- Works well with WBR-6022 HomeGuard22 (refer page 22)



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

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



**FCS-3021**  
PoE Dome Network Camera with Audio

- Provides 1/4" progressive CMOS color sensor
- Features a 3-axis sensor module for ceiling mount application
- Supports simultaneous dual-streaming
- Extended Input/Output for sensor & alarm
- Features 2-way Audio
- 3-6mm vari-focal lens F1.2-1.5
- Versatile panning, tilting and rotating adjustment
- Supports 3GPP for mobile phone surveillance
- Works well with WBR-6022 HomeGuard22 (refer page 22)



**FCS-3000**  
Day/Night Dome Network Camera with Audio

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

Network Cameras Comparison

Model	FCS-1101	FCS-1081A	FCS-1091 / WCS-1090	FCS-1070 / WCS-2070	FCS-3021	FCS-3000
Indoor / Outdoor	Indoor/Outdoor w/ BOH-1x00	Indoor/Outdoor w/ BOH-1x00	Indoor/Outdoor w/ BOH-1x00	Indoor	Indoor	Indoor/Outdoor
Day / Night	Day	Day	Day/Night	Day/Night	Day	Day/Night
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio	■	■	■	■	■	■
Frame Rate	160x120: 30/25 fps 320x240: 30/25 fps 704x480: 30/25 fps	160x120: 30/25 fps 320x240: 30/25 fps 704x480: 30/25 fps	160x120: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 15/12 fps	176x144: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 15/12 fps

## Network Cameras



**FCS-5030**  
Network Camera with Infrared LEDs

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



**FCS-5011**  
Outdoor WDR PoE Network Camera with IR LEDs

- 1/3.3" wide dynamic range CMOS sensor
- WDR (Wide Dynamic Range) helps handling a wide range of lighting conditions in a scene, such as backlight situation
- 3.3-12mm vari-focal board lens with auto-iris for a variety of monitoring fields
- Built-in infrared LEDs for night viewing up to 15M
- Durable outdoor housing that is vandal-proof and IP66-rated water-proof
- IEEE 802.3af Power over Ethernet (PoE) compliant
- Extended I/O for sensor and alarm functions
- RS-485 interface for rotators to control pan and tilt
- Vandal-proof and IP66-rated water-proof



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

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



**FCS-4020**  
Day/Night Speed Dome Camera

- Provides Wide Dynamic Range(WDR) for High Contrast Environments
- Built-in SD/SDHC Card Slot for On-board Storage
- Powerful pan/tilt/zoom speed dome network camera
- Supports 35x optical zoom
- Supports 360° pan and 90° tilt, continuous rotation
- Auto-removable IR-cut filter for day/night viewing
- Extended I/O for sensor and alarm (4 DI/1 DO)
- Vandal-proof and waterproof IP66 rated for indoor and outdoor deployment
- Two-way audio



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

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



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

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

### Network Cameras Comparison

Model	FCS-5030	FCS-5011	FCS-4010	FCS-4020	FCS-4000/4100/4200	FCS-4300/4400/4500
Indoor / Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor
Day / Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night
MJPEG / MJPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
2 Way Audio	■	■	■	■	■	■
Frame Rate	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 30/25 fps	176x144: 30/25 fps 352x240: 30/25 fps 720x480: 30/25 fps	176x144: 30/25 fps 320x240: 30/25 fps 640x480: 30/25 fps	176x144: 30/25 fps 320x240: 30/25 fps 704x480: 30/25 fps	160x120: 30/25 fps 320x240: 30/25 fps 704x480: 30/25 fps	176x120: 30/25 fps 352x240: 30/25 fps 704x480: 30/25 fps

Accessories

**Model**

CAS-4000A



**Description**

Wall Mount Kit

**Works with:**

FCS-4000 / 4100 / 4200

**Model**

CAS-4000D



**Description**

Pole Mount Kit

**Works with:**

FCS-4000 / 4100 / 4200

**Model**

CAS-1200



**Description**

3.5-8mm Vari-focal Lens

**Works with:**

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

**Model**

BOH-1200



**Description**

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

**Works with:**

FCS-1091 / 1121

**Model**

CAS-4000B



**Description**

Ceiling Mount Kit

**Works with:**

FCS-4000 / 4100 / 4200

**Model**

CAS-4000E



**Description**

Housing for Cables and Accessories

**Works with:**

FCS-4300 / 4400 / 4500

**Model**

BOH-1000



**Description**

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

**Works with:**

FCS-1081A / 1101 / 1091 / 1121

**Model**

BOH-1300



**Description**

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

**Works with:**

FCS-1081A / 1101 / 1091 / 1121

**Model**

CAS-4000C



**Description**

Corner Mount Kit

**Works with:**

FCS-4000 / 4100 / 4200

**ModelNo.**

CAS-1100



**Description**

6-60mm Vari-focal Lens

**Works with:**

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

**Model**

BOH-1100



**Description**

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

**Works with:**

FCS-1081A / 1101 / 1091 / 1121

**Model**

POM-1100



**Description**

PoE Module

**Works with:**

BOH-1100 / 1200 / 1300

Accessories

**Model**  
BOH-1001



**Description**  
Pole Mount Kit

**Works with:**  
BOH-1000 / 1100 / 1200

**Model**  
DOH-1100



**Description**  
Heavy-Duty Domed Outdoor Housing

**Works with:**  
FCS-1010 / 1040 / 1060

**Model**  
POW-1201



**Description**  
12V/1.25A Switching Power Adapter

**Works with:**  
FCS-1081A / 1091 / 1101 / 3021

**Model**  
CAS-4100



**Description**  
Recessed Ceiling Mount Kit

**Works with:**  
FCS-3021

**Model**  
BOH-1301



**Description**  
Pole Mount Kit

**Works with:**  
BOH-1300

**Model**  
CAS-4010



**Description**  
Pole Mount Kit

**Works with:**  
FCS-4010

**Model**  
CAS-3015



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

**Works with:**  
FCS-1070 / 1091 / 4x00; WCS-2070 / 1090

**Model**  
CAS-4200



**Description**  
USB Joystick for P/T/Z Network Camera

**Works with:**  
FCS-4010

**Model**  
DOH-1000



**Description**  
Dome-type Outdoor Housing

**Works with:**  
FCS-1010 / 1040 / 1060

**Model**  
CAS-4011



**Description**  
Corner Mount Kit

**Works with:**  
FCS-4010

**Model**  
CAS-3030

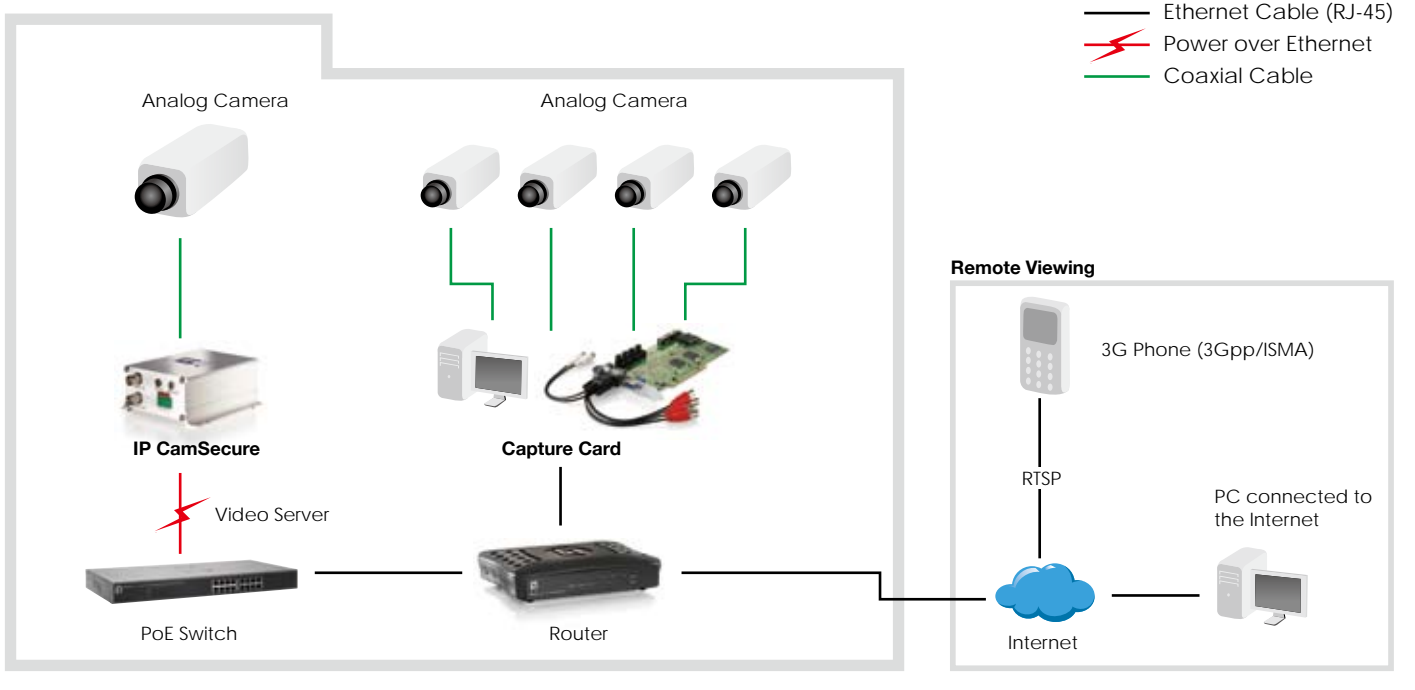


**Description**  
IR Illuminator (30m, 80° view angle, IP66 Housing)

**Works with:**  
FCS-1070 / 1091 / 4x00; WCS-2070 / 1090

# LevelOne Video Servers/Captured Card

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



**FCS-8005**  
Analog Camera Capture Card

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



**FCS-8006**  
Analog Camera Capture Card

- Integrate analog with digital cameras on a single optimized surveillance system
- Support 16 analog cameras monitoring
- Advanced motion detection and alarm functions
- View up to 120(NTSC)/100(PAL) frames per second
- Superior video resolution up to 704x480(NTSC)/704x576(PAL)
- 4 ports audio inputs
- MPEG-4 compression mode
- Free software included (Industry-leading 32-channel IP CamSecure Lite™ software)
- Supports Windows 2000/XP/Vista

# LevelOne Surveillance Software

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



FCS-94xx Series

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

	IP CamSecure Professional	IP CamSecure Lite
<b>Main Features</b>		
Max # of Cameras Live View, Monitor and Record	FCS-94 04/08/16/25/36/64 4/8/16/25/36/64	FCS-9032 32
Compatibility	*Compatible with LevelOne Network Cameras. More network cameras of other major manufacturers supported by FCS-92xx and FCS-94xx.	
Multi-Language Embedded	English, German, French, Spanish, Italian, Portuguese, Danish, Greek, Korean, Traditional / Simple Chinese, Japanese, Russian and Thai.	
Hybrid Camera Management	Monitor IP digital and CCTV analog cameras in one surveillance system	
Dual Monitor	User is able to monitor multiple channels with reasonable image size or live view and playback simultaneously	NO
Smart Guard	Events triggered by general motion detection, missing/ foreign object detection, signal lost, camera occlusion, lose focus, external input or system status	NO
Motion Detection	Camera-based motion detection with image exclude filter for image areas of no interest in specific period status	
Smart Search	Search unusual events with specific parameters from recorded video	General Motion Only
Alarm Notification	Play sound, send emails, make phone calls, Pan/Tilt/Zoom PRESET GO, signal digital output, on screen display and instant recording.	Instant recording
Counting Application	Count how many times objects moving between different locations	NO
Video Compression	MJPEG / MPEG-4	
Audio	Support full duplex real time audio	
User Account	Multiple user authentication levels with password restriction rules for unlimited users	
Log Viewer	All unusual events ,system events by date/time and/or cameras	
Recording	Continuous recording, manual recording/snapshot, record by schedule, record by digital input or triggered event, and record moving only (pre/post record buffer is up to 60 seconds).	
3GPP	**Monitor in 3G mobile devices which are equipped with 3G video playback.	NO
DDNS	Support DdDNS and Dynu.	NO
UPnP	Search for IP cameras via UPnP	
Upgrade	No extra charge required for the further upgrade	
<b>Playback</b>		
Simultaneously Playback	16 Channels	1 Channel
Image Enhancer	Improve recorded video to get better image during playback and can be applied during export	
Search for Recordings	Search for recordings based on date, time or specific video parameters.	Search for motion in continuous recordings
Playback	Controllable speed 1/16x~16x or frame by frame	
Video Clip Export	Export single BMP/JPEG images to file or printer	Export video in AVI
<b>P/T/Z and I/O</b>		
Pan/Tilt/Zoom Support	Control of P/T/Z cameras and preset positions	
Preset Patrolling	Multiple cameras patrolling	
Go to Preset on Event	Yes	NO
Input/Output Control	Support digital input/output control	
<b>Remote Access Via Remote Client Application</b>		
Remote Client Application	Remote Live Viewer/ Remote Playback	Remote Live Viewer
Pan/Tilt/Zoom Support	Control of P/T/Z cameras	
Max # of Cameras Live View	Up to 16 Channels from different servers	1 Channel
Max # of Cameras Playback	Up to 16 Channels	No
<b>Remote Access Via Web Browser</b>		
Max # of Cameras Live View	Up to 4 Channels	1 Channel
<b>Minimum System Requirements</b>		
CPU	Intel Pentium D 930(1~16-Channel Monitoring), Intel Core 2 Duo(17~32-Channel Monitoring), Intel Core 2 Quad(33~64-Channel Monitoring)	Intel Core 2 Duo
RAM	1 GB above	
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 845G/865G, or above (ATI recommended)	
OS	MS Windows 2000 / XP Pro SP2 / 2003 / Vista	

\*Please visit [www.level1.com](http://www.level1.com) for the compatible product list.

\*\*This feature depends on the mobile telecom service provided and the mobile phone model. LevelOne does not guarantee that this feature will work in all countries. The specification is subject to change. Please visit [www.level1.com](http://www.level1.com) for the latest specification.

**FCS-94xx  
IP CamSecure Pro Mega Series**

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

- Complete system and event log database
- Relies on hard disk drive storage instead of video tapes
- Broadcast live video over the Internet for remote viewing
- Support both digital and analogue cameras in one system
- Control pan/tilt/zoom features on cameras

\* For levelOne Cameras, Capture Cards and Video Servers. It also supports many other Network Cameras.



IP CamSecure Pro Mega Series	
Model name	FCS-94 04/08/16/25/36/64
Simultaneous Monitoring	4/8/16/25/36/64
Camera Support	
LevelOne	FCS-0010, FCS-0020, FCS-1010, FCS-1030, FCS-1040, FCS-1050, FCS-1060, FCS-1070, FCS-1081, FCS-1081A, FCS-1091, FCS-1101, FCS-3000, FCS-3011, FCS-3021, FCS-4x00, FCS-7011, WCS-0010, WCS-0020, WCS-1090, WCS-2010, WCS-2030, WCS-2040, WCS-2060, WCS-2070, FCS-4010, FCS-5011, FCS-5030, FCS-8005, FCS-8004
ACTi	SED 2100, SED 2120, SED 2140, SED 2400, SED 2420, SED 2600, SED 2610, SEM 1110, ACM SERIES, CAM 5300, CAM 5130, CAM 5140, CAM 5150, CAM 5500, CAM 6100, CAM 6200, CAM 6500, CAM 6510, CAM 6520, CAM 6600, CAM 7100, CAM 7120, CAM 7200, CAM 7220, CAM 7300, CAM 7320, CAM 6620, SED 2310, SED 2320, CAM 5200, CAM 5XXX, CAM 6220, CAM 6XXX, CAM 7XXX, SEM 1XXX
Arecont Vision	AV1300, AV2000, AV2100, AV3100, AV3130, AV5100, AV8180, AV8360
Atlantis Land	A02-OIPCAM1, A02-OIPCAM2, A02-OIPCAM3, A02-IPCAM5, A02-IPCAM6, A02-IPCAM7, A02-IPCAM8, A02-IPCAM9, A02-IPCAM10, A02-IPCAM11, A02-IPCAM12, A02-IPCAM13, A02-IPCAM14, A02-IPCAM15, A02-IPCAM16, A02-IPCAM17
AXIS	205, 206, 206M, 206W, 207, 207W, 207MW, 210, 210A, 211, 211A, 212, 213, 214, 216FD, 221, 225FD, 231D, 232D, 240Q, 241Q, 241QA, 241S, 241SA, 242S, 2460, 233D
D-Link	DCS-6620, DCS-6620G, DCS-5220, DCS-5300, DCS-5300G, DCS-2120, DCS-3420, DCS-3220, DCS-3220G, DCS-2100, DCS-2100G, DVS-104, DVS-301, DCS-900, DCS-G900, DCS-950, DCS-950G
ETROUISION	EVxx10
TRON	HNCB-E1SN, HNG-E1SAW0S4, HWD125MN, HECMC4V0C4
FINE	TCP-690, TCP-690DN, TCP-HP930, WB-8211SD, WB-8411, CDV-3V930, TCP-690U, TCP-HP930U, WB-8211SDU, CDV-3V930U, EP-936, EP-908, EP-601, EP-201, EP-221, EP-221DN
IQinvision	IQeye301, IQeye301m, IQeye301w, IQeye302, IQeye302w, IQeye303, IQeye303w, IQeye501, IQeye511, IQeye601, IQeye602, IQeye603, IQeye701, IQeye702, IQeye703, IQeye705, IQeye751, IQeye752, IQeye753, IQeye755
JVC	VN-C20U, VN-E4(U), VN-C205U, VN-C215U, VN-C655U
Lumenera	le045c, le045c-dn, le075c, le075c-dn, le165c, le165c-dn, le175c, le175c-dn, le259c, le275c, le275c-dn, le375c, le375c-dn, le11059c
MOBOTIX	M10D-Night, M12D-Sec, M12D-HT-DNight, M12D-Sec-Dnight, M12M-Web, M22M-IT, M22M-Sec, M22M-Sec-Night, D12Di-HT, D12Di-Sec
Panasonic	BB-HCM311, BB-HCM331, BB-HCM371, BB-HCM381, BB-HCE481, BB-HCS301, BB-HCM511, BB-HCM515, BB-HCM581, BL-C10, BL-C1, BL-C20, BL-C30, BL-C111, BL-C131, KX-HCM110, KX-HCM280A, WV-NP472, WV-NS324, WV-NF284, WV-NP1000, WV-NP1004, WV-NM100, WV-NP240, WV-NP244, WV-NS202, WV-NW484, WV-NW964
PIXORO	100, 120/126/128, 200/206, 201, 205, 207, 240, 241, 261, 262, 263, 300, 400/42X, 461, 463, 1000, 1401, 2000, 4000, 8504, 405, 405M, 410, 411/412
PLANET	ICA-510, ICA-700, ICA-151W, ICA-151, ICA-750, ICA-107W, ICA-107P, ICA-107
PROBE	IP Fixed Camera, IP PTZ Camera
SAMSUNG	C6475
SONY	SNC-DF40, SNC-DF70, SNC-P1, SNC-P5, SNC-RZ25, SNC-RZ50, SNC-RX550, SNC-CS50, SNC-CS3, SNC-Z20, SNC-RZ30, SNC-CS10, SNC-CS11, SNT-V704, SNC-RX530, SNC-DF50, SNC-DF80
TOSHIBA	IK-WB02A, IK-WR01A, IK-WB21A, IK-WB15A
VIVOTEX	VS 2101, VS 2401, VS 2402, VS 2403, VS 3100, VS 3101, VS 3102, VS 3102-XLTH, VS 3103, VS 3107, VS 3108, VS 6000, VS 6100, VS 6104, VS 7000, VS 7101, SD 6000, SD 6101, SD 61x2, FD 6000, FD 61x1, FD 61x2, TC 5330, TC 5331, TC 5630, TC 5631, IP 21x1, IP 21x2, IP 31x1 TLFN, IP 31x1, IP 31x2, IP 31x7, IP 31x8, IP 3129, IP 3132, IP 3133, IP 3134, IP 3135-PLNX, IP 3135, IP 3136-PLNX, IP 3136, IP 3137, IP 51x2, IP 51x4, IP 5104, IP 5114, IP 5124, IP 5134, IP 6000, IP 61x2, IP 61x4, IP 61x7, IP 6104, IP 6114, IP 6114, IP 6124, IP 6134, IP 7000, IP 71x4, IP 71x7, IP 7135, IP 7136, IP 7137, IP 7151, IP 7152, PT 31x2, PT 31x3, PT 31x4, PT 31x7, PT 31X2, PT 31X3, PT 3134, PT 51x4, PT 5104, PT 5114, PT 5124, PT 5134, PT 6000, PT 61x4, PT 6104, PT 6114, PT 6124, PT 6134, PT 7000, PT 7135, PT 7137, PZ 6000, PZ 61x2, PZ 61x4, IP 7131, IP 7132, IP 7138, IP 7139, VS 7100, FD7131
ZAVIO	D611E, D611A, D610A, F611E, F611A, F610A, V111T, S610A, F721E, F721A, F720A, F711E, F711A, F710A, F211A, F210A, F212A, F310A, F312A, M210A, M212A, M610A, M612A, F613A, F510E, F510W, F511E, F511W, F711E, F710E, D510E, D511E, M310A, M312A



## Storage

Network Storage Devices for  
Home and Office Users

- Network Attached Storage (NAS)

## HomePlug Powerline Adapters

Transmit Data Via Your Home Electrical Network

## Docking Station

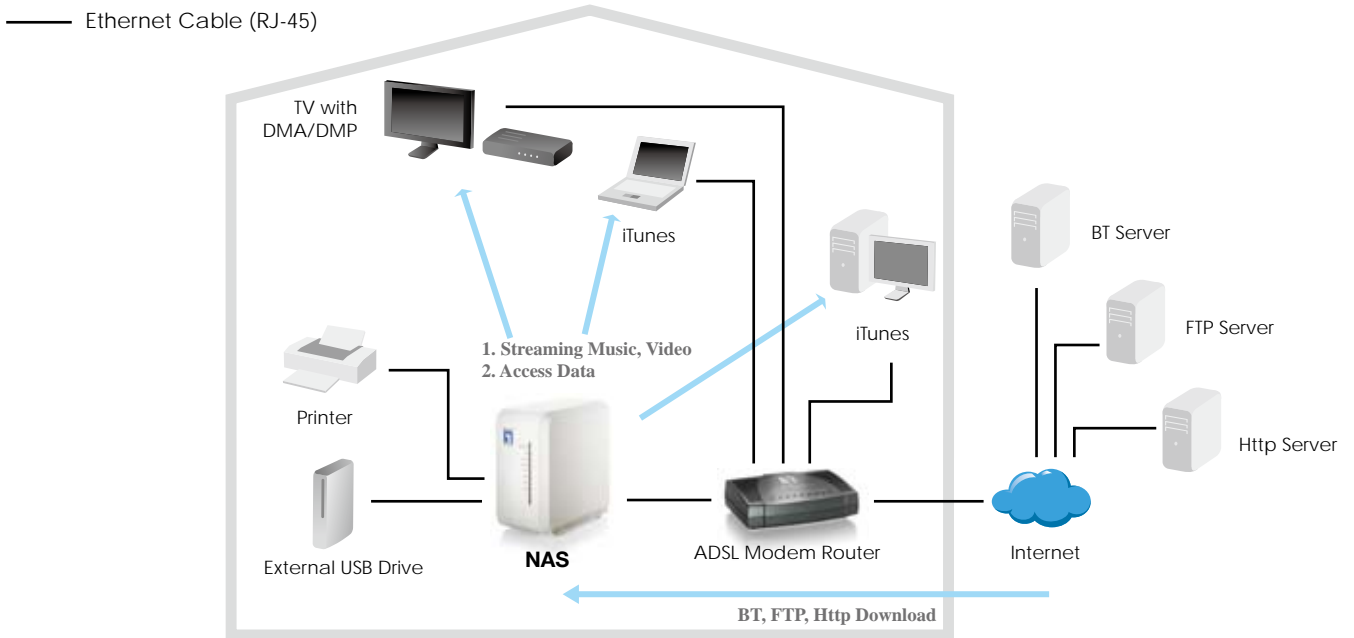
Expand Your Computer's Connections

## Bluetooth Communication

Build Your Personal Area Network

# LevelOne Storage

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



## Network Attached Storage (NAS)



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

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



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

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



**FNS-1020**  
1-Bay Simple Network Storage

- Stream music and video to your PC, media players or gaming console
- Download files without PC supports HTTP, FTP and BitTorrent
- Share files between computers and over Internet
- Two high speed USB 2.0 ports for extra storage
- Single 3.5 inch SATA or IDE hard disk bay
- Web Interface Configuration and Management
- Easy to Setup and Use
- Supports Windows 2000/XP/Vista, Mac OS X, Linux
- FNS-1020 (H/W: V2.0) provides 8MB flash memory - works well with WBR-6022 HomeGuard2 (refer page 22)

## Network Attached Storage (NAS)



**GNS-2000**  
2-Bay Gigabit Network Storage

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



**GNS-4000**  
4-Bay SATA NAS  
with 1 Gigabit Ethernet Port (3.5" HDD)

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



**GNS-8000B**  
4-Bay Rack-Mountable SATA NAS  
with 2 Gigabit Ethernet Ports (3.5" HDD)

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

### Network Attached Storage Comparison

Model	WAP-0007	WAP-0008	FNS-1020	GNS-2000	GNS-4000	GNS-8000B
Processor	AMRISC20000	AMRISC	32-bit AMRISC	Marvell 88F5182	Freescall MPC8343	Intel Celeron M
Flash Memory	4MB	4MB	4MB(V1)/8MB(V2)	16 MB	16 MB	32 MB
DRAM	SDRAM 32MB	SDRAM 32MB	SDRAM 32MB	SDRAM 64 MB	DDRII 128 MB	SDRAM 512 MB
Drive Bay	1	1	1	2	4	4
Drive Interface	2.5" IDE	3.5" IDE/SATA	3.5" IDE/SATA	3.5" IDE/SATA	3.5" SATA	3.5" SATA
10/100 Mbps Ports	1	1	1	-	-	-
10/100/1000 Mbps Ports	-	-	-	1	1	2
802.11b/g	■	■	-	-	-	-
SCSI(Ultra 160)	-	-	-	-	-	1
USB 2.0	2	2	2	2	2	2
FTP Server	■	■	■	■	■	■
BitTorrent Download	-	■	■	■	-	-
UPnP Media/DLNA Server	-	-	■	■	■	-
JBOD	-	-	-	■	-	■
RAID 0	-	-	-	■	■	■
RAID 1	-	-	-	■	■	■
RAID 5	-	-	-	-	■	■
RAID 10	-	-	-	-	■	-
Hot Spare	-	-	-	-	-	■
Hot Swappable	-	-	-	-	■	■
Rack Mountable	-	-	-	-	-	■
UPnP	■	■	■	■	■	-
Dimension L * W *H (mm)	162 * 92 * 25	215* 150 * 48	215 * 150 * 48	214 * 175 * 115	229.6 * 152.5 * 188.2	570 * 430 * 44

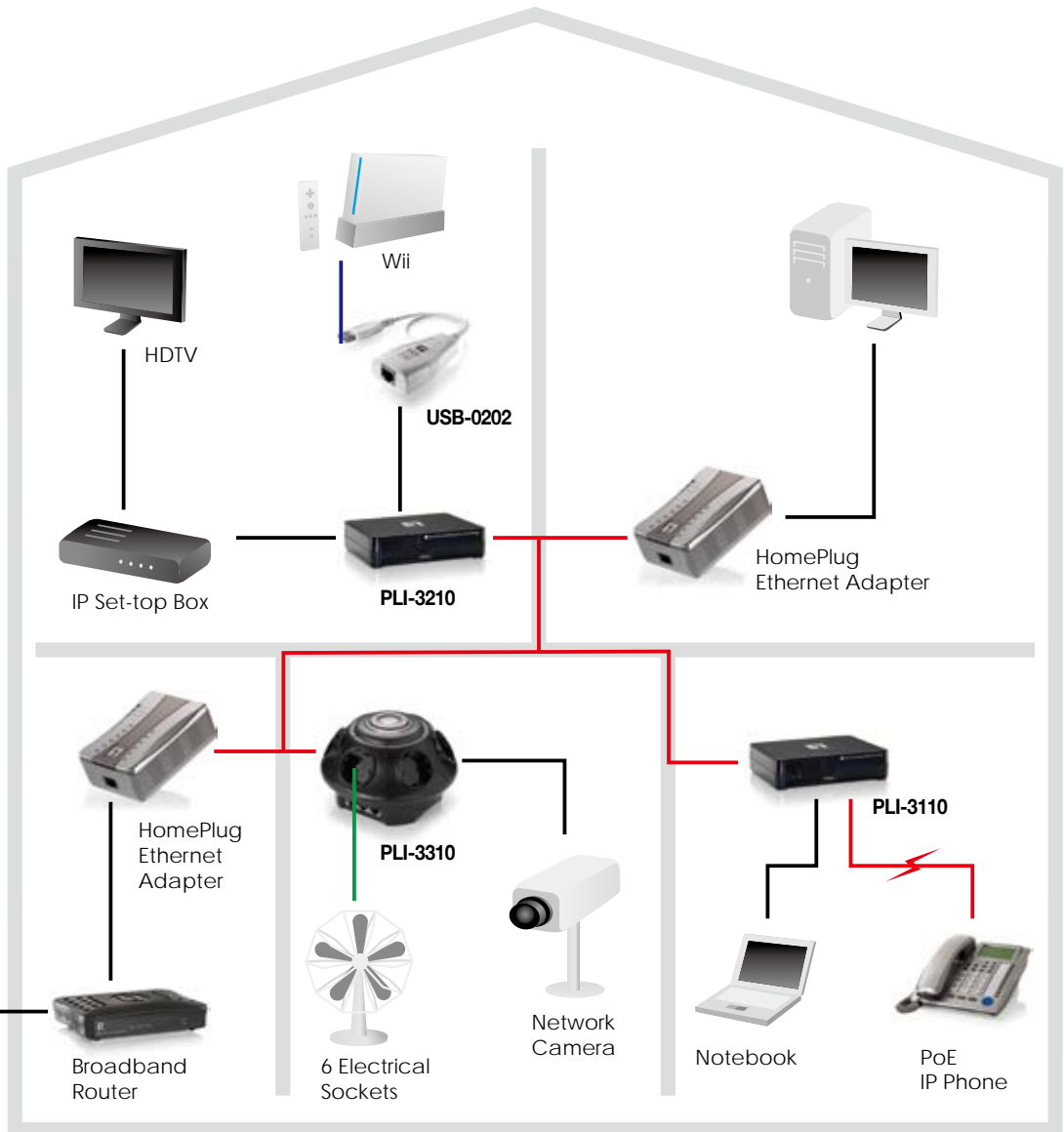
# LevelOne HomePlug Powerline Adapters

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

- Ethernet Cable (RJ-45)
- Power Line
- Power Cord
- USB
- ⚡ PoE



Internet





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

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



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

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



**PLI-3110**  
HomePlug Pro PoE

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



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

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



**PLI-3310**  
HomePlug Pro Power Bridge

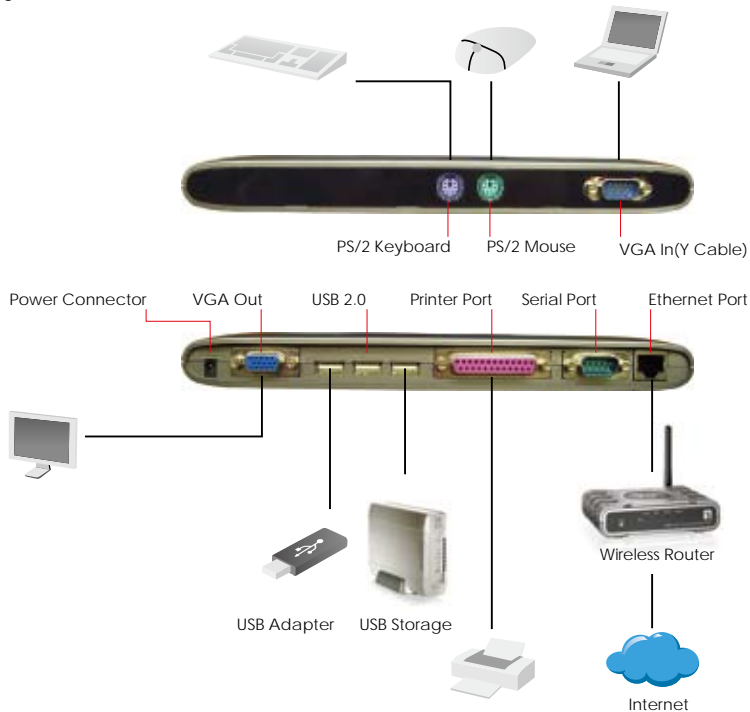
- Send data over your home's existing electrical wiring
- Provides up to 200 Mbps data transfer rate
- 3-Port Bridge for adding additional network devices
- 6 built-in electrical sockets for the most practical HomePlug solution available
- All electrical sockets are filtered, no interference with networking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

#### HomePlug Powerline Adapters Comparison

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

## LevelOne Docking Station

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

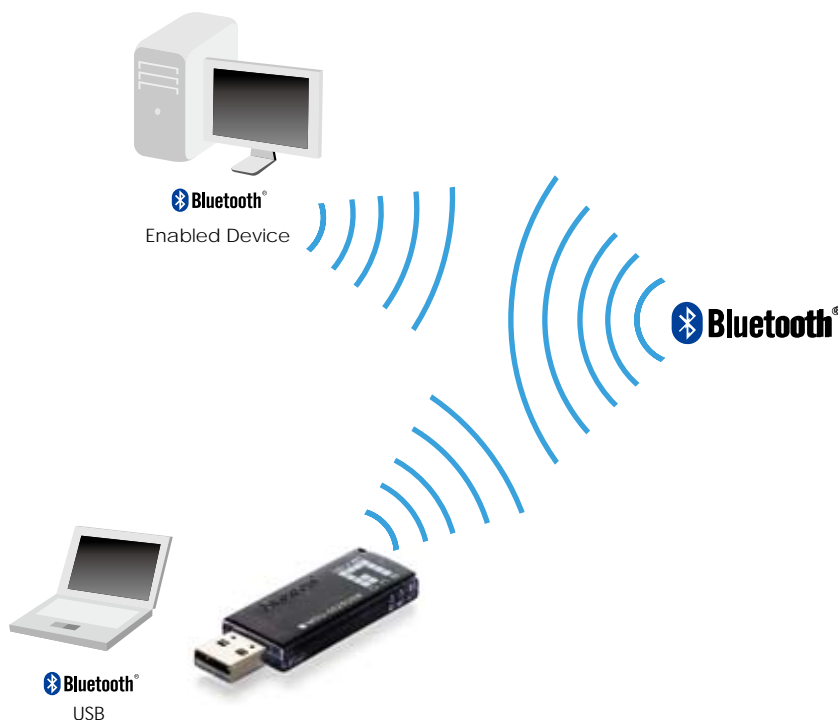


**UDS-1000**  
**USB 2.0 Docking Station**

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

## LevelOne Bluetooth Communication

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



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

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



## **KVM Switches KVM Consoles KVM Extenders**

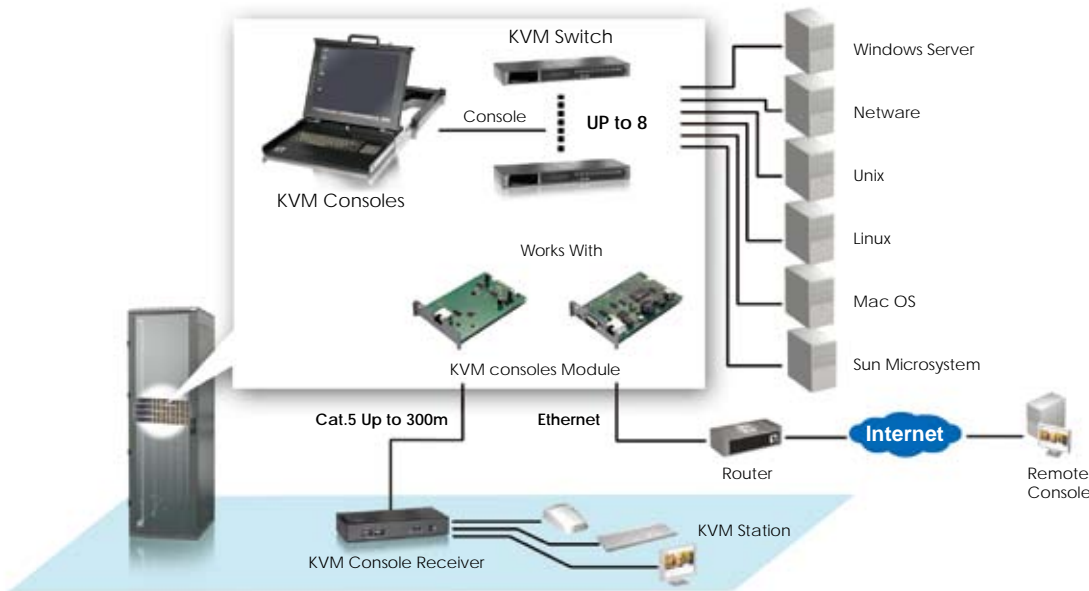
Control Multiple Computers with One Device and  
Provide a Great Solution for Presenting Current  
Information to a Network of Displays

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

# LevelOne KVM Switches/Consoles/Extenders

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

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



## Cable KVM Switches



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

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

### KVM-0223 2-Port USB Cable KVM Switch with Audio

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

### KVM-0260 2-Port USB DVI KVM with Audio

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

### KVM Switches Comparison

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

## Desktop KVM Switches



KVM-0211



KVM-0212



KVM-0221



KVM-0222



KVM-0411



KVM-0412

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

- Slim desktop KVM switch minimizes desktop footprint
- Control and manage 2 computers by using a single PS/2 keyboard mouse and monitor
- High 2048x1536 pixels VGA resolution
- Easy switching between computers with auto-scan, keyboard hotkeys and push button selection
- LED display for easy monitoring of PC activity
- Plug-and-play operation, no software installation or power supply required
- Audio support allow user to connect the audio ports of each computer to the KVM switch (KVM-0211)

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

- Slim and stylish design for minimizes desktop footprint
- Control and manage 2 computers by using a single USB keyboard, mouse and monitor
- High 2048x1536 pixels VGA resolution
- USB interface power supply
- Easy switching between computers with keyboard hotkeys push button and utility (or software) selection
- Plug-and-play operation, no software installation or power supply required
- Audio support allow user to connect the audio ports of each computer to the KVM switch (KVM-0221)

### KVM-0411 / KVM-0412 4-Port D-Sub PS/2 KVM Switch

- Flexible switching for an uninterrupted multimedia
- Control and manage 4 computers by using a single PS/2 keyboard mouse and monitor
- Offers user-programmable simultaneous or independent PC and audio switching
- High 2048x1536 pixels VGA resolution
- Auto-scan mode for PCs monitoring
- LED display for easy monitoring of PC activity
- Plug-and-play operation, no software installation or power supply required
- Audio support allow user to connect the audio ports of each computer to the KVM switch (KVM-0411)



KVM-0421



KVM-0422



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

- Control and manage 4 computers by using a single USB keyboard, mouse and monitor
- High 2048x1536 pixels VGA resolution
- USB interface power supply
- Easy switching between computers with keyboard hotkeys push button and utility (or software) selection
- Plug-and-play operation, no software installation or power supply required
- At-a-glance LED for easy monitoring of PC activity
- Audio support allow user to connect the audio ports of each computer to the KVM switch (KVM-0421)

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

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

## KVM Switches Comparison

Model	Ports	Console Interface	Computer Interface	Platform Support	Max. Local Resolution	Audio
KVM-0211/KVM-0212	2	PS/2, D-Sub	PS/2, D-Sub	PC	2048x1536	■ / -
KVM-0221/KVM-0222	2	USB, D-Sub	USB, D-Sub	PC, Mac, Sun	2048x1536	■ / -
KVM-0411/KVM-0412	4	PS/2, D-Sub	PS/2, D-Sub	PC	2048x1536	■ / -
KVM-0421/KVM-0422	4	USB, D-Sub	USB, D-Sub	PC, Mac, Sun	2048x1536	■ / -
KVM-0306	3	PS/2, USB, DVI	USB, DVI	PC, Mac, Sun	1600x1200	■

## Rackmount KVM Switches



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

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



KVM-0811



KVM-1611

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

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



KVM-0831



KVM-1631

**KVM-0831 / KVM-1631**  
8/16-Port D-Sub Combo KVM Switch with 1 Expansion Slot

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

### KVM Switches/Rackmount KVM Switches Comparison

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

## Rackmount KVM Consoles



**KVM-0115US / KVM-0115DE**  
15" Rackmount KVM Console with US/DE Keyboard Layout

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



**KVM-0117US / KVM-0117DE**  
17" Rackmount KVM Console with US/DE Keyboard Layout

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



**KVM-0217US / KVM-0217DE**  
17" Modularized Rackmount KVM Console with US/DE Keyboard Layout

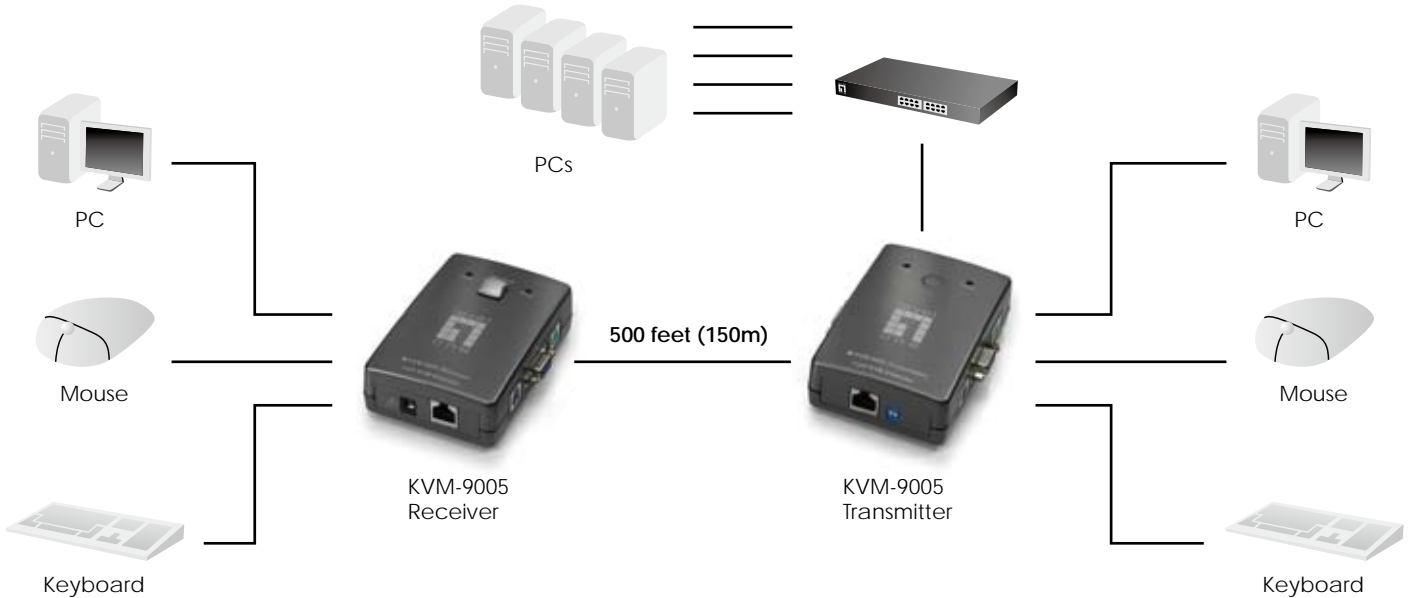
- Daisy chain up to 7 additional KVM switches to control up to 64/128 computers
- Easy for computer access with hotkey mode, OSD invocation keys and supports OSD tree structure
- Auto scan mode enables continuous monitoring of user selected computers
- Two-layer security access with support for 8 unique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

### Rackmount KVM Consoles Comparison

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

# LevelOne KVM Extenders

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



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

## KVM Extenders



### KVM-9000 IP KVM Extender

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



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

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



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

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

## KVM Extenders Comparison

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

Accessories

**Model**

KVM-9007



**Description**

KVM Cat.5 Console Receiver

**Works with:**

KVM-0831 / KVM-1631 / KVM-0217

**Model**

ACC-2001 / ACC-2002



**Description**

1.8m / 3.0m PS/2 KVM Cable

**Works with:**

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

**ModelNo.**

ACC-2101 / ACC-2102 / ACC-2103



**Description**

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

**Works with:**

KVM-0831 / KVM-1631 / KVM-0217

**Model**

KCM-0831



**Description**

8-Port D-Sub Combo KVM Module

**Works with:**

KVM-0217

**Model**

ACC-1000



**Description**

KVM Cat.5 Console Module

**Works with:**

KVM-0831 / KVM-1631 / KVM-0217

**Model**

ACC-2006 / ACC-2010



**Description**

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

**Works with:**

KVM-0410 / KVM-0420

**Model**

ACC-2009



**Description**

90cm Daisy Chain Cable

**Works with:**

KVM-0811 / KVM-1611

**Model**

KCM-1631



**Description**

16-Port D-Sub Combo KVM Module

**Works with:**

KVM-0217

**Model**

ACC-2000



**Description**

KVM IP Console Module

**Works with:**

KVM-0831 / KVM-1631 / KVM-0217

**Model**

ACC-2003 / ACC-2004 / ACC-2005



**Description**

1.8m / 3.0m / 5.0m USB KVM Cable

**Works with:**

KVM-0420

**Model**

ACC-2109



**Description**

90cm Daisy Chain Cable

**Works with:**

KVM-0831 / KVM-1631 / KVM-0217



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

Send Power and Data Using only Cat.5 Cables

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

## Power over Ethernet (PoE) Solutions

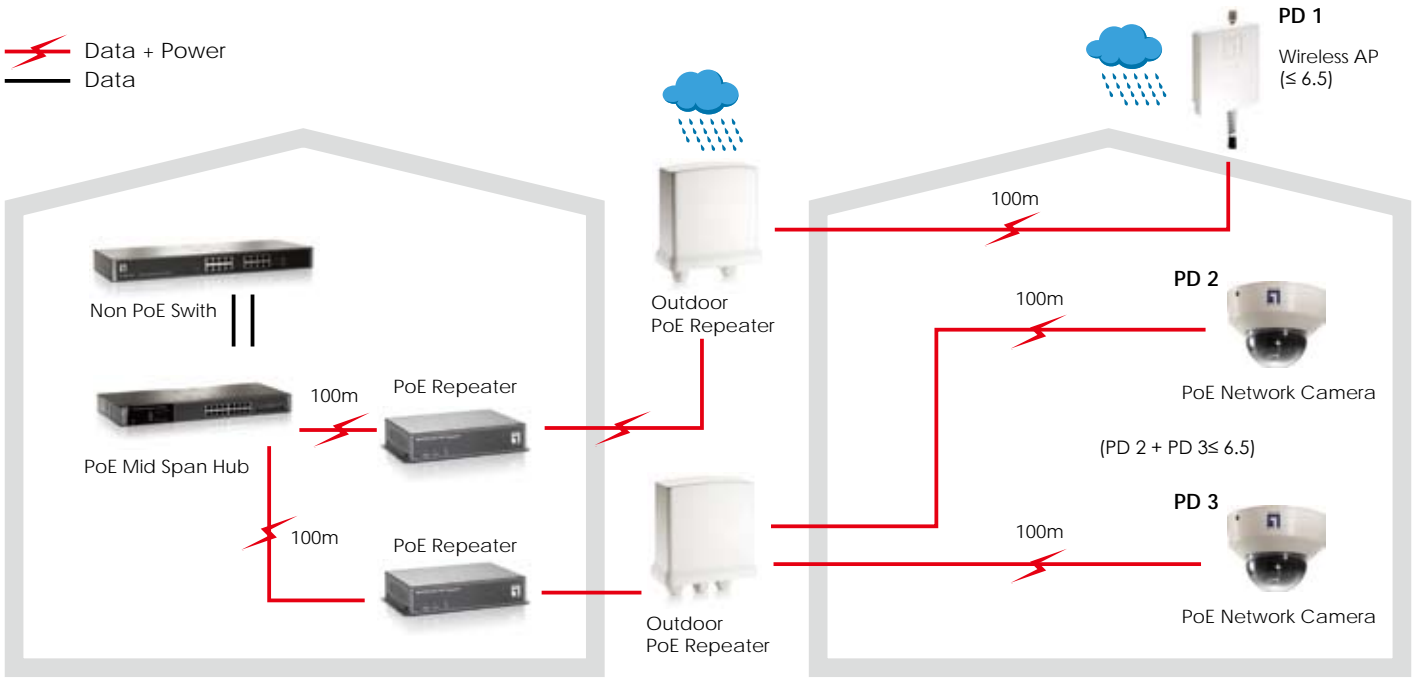
All of LevelOne's PoE Products

Conveniently Located in One Place

- PoE Switches
- PoE Converters
- PoE Bridge/Access Point
- PoE Network Cameras
- PoE HomePlug
- PoE PD/PSE
- PoE Video Server
- PoE VoIP Phone

# LevelOne PoE PD/PSE/Repeaters

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



## PoE Hubs



**POH-0850TX**  
8-Port PoE Mid Span Hub

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



**POH-2450**  
24-Port PoE Mid Span Hub

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

## PoE Kit



**POS-1000**  
PoE Splitter

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

### PoE Hubs Comparison

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

### PoE PD/PSE Comparison

Model	802.3af	Power Output	Power Input
POS-1000	■	5/7.5/9/12-V DC	48V DC/0.3A PoE

## PoE Kit



**POI-2000**  
PoE Injector

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



**PIS-3100**  
PoE Adapter Combo Kit

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



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

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



**POI-4000**  
High Power PoE Injector

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



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

- 12DC 2.5A High Power PoE Splitter
- Split Power over Ethernet (PoE) to remote devices
- DC Output: 12V DC (default), 9,6,5,3.3V DC (Optional)
- Ethernet 100Mbps Wire Speed
- Simple to install plug-and-play
- IP66 Waterproof design



## PoE Repeaters

**POR-0100**  
Indoor PoE Repeater

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

### PoE PD/PSE Comparison

Model	POI-2000	PIS-3100(PD)	PIS-3100(PSE)	POS-4000	POI-4000	POS-4001
802.3af	-	-	■	■	■	
Power Output	48V DC 300mA PoE	12V DC/2A	48V DC 650mA PoE	12V/2.5A	48V DC/0.8A PoE	12V DC/2.5A
Power Input	100-240V, 50-60Hz, 0.25A	48V DC PoE	100-240V, 50-60Hz, 0.6A	48V DC/0.3A PoE	19V/3.16A	48V DC

### PoE Repeaters Comparison

Model	802.3af	RJ-45 Input	RJ-45 Output	Indoor/Outdoor
POR-0100	■	1	1	Indoor

### PoE Repeaters



**POR-0102**  
2-Port Indoor PoE Repeater

- Extends Cat.5 cable installations to beyond 100 meters
- 2-Port Ethernet Power Sourcing Equipment (PSE)
- Forwards Power over Ethernet (PoE) to remote device
- Fully transparent-no restrictions to network traffic
- No power required
- Simple to install-works instantly
- Compatible with IEEE 802.3af PoE standard



**POR-1100 / POR-1102**  
Outdoor PoE Repeater

- Extends Cat.5 cable installations to beyond 100 meters
- Forwards Power over Ethernet (PoE) to remote device
- No Power required
- Fully transparent-no restrictions to network traffic
- Supports all network devices
- Compatible with universal IEEE 802.3af PoE Standard
- IP66 weatherproof design
- 2-Port Ethernet Power Sourcing Equipment (POR-1102)

### PoE Rack



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

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



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

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



**POC-6000**  
8-Bay PoE Switch Chassis

- Supports 8 slots for FSW-0513(-Z)/FSW-0503(-Z), send high power to up to 32 devices (refer page 6)
- Supports 1000 watts power
- Standard 4U 19-inch chassis central power management unit
- Optimal solution to outdoor P/T/Z and Dome network cameras
- Switches does not include a power adapter

### PoE Measurement



**PPM-1000**  
PoE Power Measurer

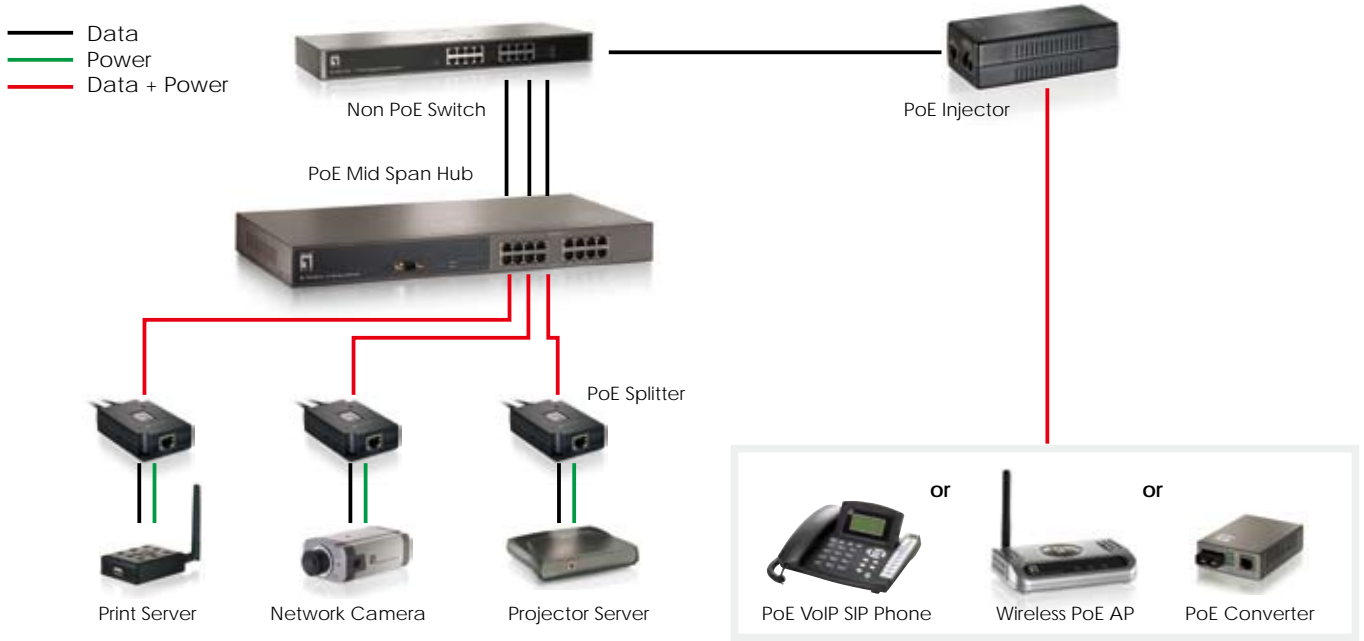
- Ensure your PoE device works correctly
- Measure available power (watt) and voltage in a PoE line
- Portable and compact size
- LED display and indicators to reveal the power status
- Built-in temperature sensor
- Replaceable external battery pack for true portability
- Detachable neck strap
- Build-in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

### PoE Repeaters Comparison

Model	POR-0102	POR-1100	POR-1102
802.3af	■	■	■
RJ-45 Input	1	1	1
RJ-45 Output	2	1	2
Indoor/Outdoor	Indoor	Outdoor (IP66)	Outdoor (IP66)

# LevelOne PoE Solutions


What do you do when you need to build a network in a challenging environment? No electrical outlets nearby? LevelOne has the answer and our PoE solutions give you great flexibility by sending both power and data over the same Cat.5 cable. Now you don't need to worry about placing wireless access points, network cameras, or VoIP phones near the power source, giving you greater creative control when building your network.



Model	Description	See Page	Model	Description	See Page	Model	Description	See Page
<b>PoE Switches</b>			<b>PoE Switches</b>			<b>PoE Switches</b>		
 FSW-0512	5-Port Fast Ethernet PD Switch	P.5	 FSW-0503	4-Port PoE + 1-Port Uplink Fast Ethernet Switch	P.6	 FSW-1671	16-Port 10/100 Rackmount Smart Switch with 8 PoE Ports	P.8
 FSW-0812	8-Port Fast Ethernet PD Switch	P.5	 FSW-0513	4-Port High Power PoE Switch (120W)	P.6	 GSW-0891	8-Port PoE Fast Ethernet TP + 2-port Gigabit Combo L2 SNMP Switch	P.10
 FSW-0809	4-Port PoE + 4-Port TP Fast Ethernet Switch	P.6	 IFE-0500	4-port PoE + 1-port TP Industrial Fast Ethernet Switch	P.6	 GSW-1291	12-port PoE with 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch	P.10
 FSW-0822	4-Port PoE + 4-Port TP Fast Ethernet Switch	P.6	 IFE-0501	4-Port PoE + 1-Port Multi-mode SC Industrial Fast Ethernet Switch	P.6	 GSW-2693	24-Port PoE Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch	P.10
			 IFE-0502	4-Port PoE + 1-Port Single-mode SC Industrial Fast Ethernet Switch	P.6			

Model	Description	See Page
<b>PoE Converters</b>		
FVT-0103TXFC 	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter with PoE (SC)	P.15
FVT-0104TXFC 	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter with PoE (SC)	P.15
FVT-0203TXFC 	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter with PoE Injector (SC)	P.15
FVT-0204TXFC 	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter with PoE Injector (SC)	P.15
<b>PoE Bridge/Access Point</b>		
WAP-3100 	11g 54 Mbps Wireless PoE Access Point	P.30
WAP-3101 	Ceiling Mount PoE Wireless Access Point	P.31
WAP-1001 	11g 108 Mbps Outdoor PoE Wireless Access Point	P.31
WAB-3001 	Wireless 11g Outdoor PoE AP with Built-In 9dBi Antenna	P.31
WAB-3002 	Wireless 11g Outdoor PoE AP	P.31
WAB-7000 	Wireless 11 a/b/g Outdoor PoE AP	P.32
WAB-7400 	Dual Radio PoE Mesh Access Point	P.32

Model	Description	See Page
<b>Wireless Bridge</b>		
WBA-4000 	11a 108 Mbps Outdoor PoE Wireless Bridge	P.32
<b>PoE Network Cameras</b>		
FCS-1101 	PoE Network Camera	P.41
FCS-1081A 	PoE Network Camera with Audio	P.41
FCS-1091 	Day/Night PoE Network Camera	P.41
FCS-3021 	PoE Dome Network Camera	P.42
FCS-5011 	Outdoor WDR PoE Network Camera with IR LEDs	P.43
<b>HomePlug Powerline Adapter</b>		
PLI-3110 	HomePlug Pro PoE	P.53
<b>PoE PD/PSE/Repeaters</b>		
POH-0850TX 	8-port PoE Mid Span Hub	P.62
POH-2450 	24-port PoE Mid Span Hub	P.62
POS-1000 	PoE Splitter	P.63

Model	Description	See Page
<b>PoE PD/PSE/Repeaters</b>		
POI-2000 	PoE Injector	P.63
PIS-3100 	PoE Adapter Combo Kit	P.63
POS-4000 	High Power PoE Splitter 12V	P.63
POI-4000 	High Power PoE Injector	P.63
POR-0100 	Indoor PoE Repeater	P.63
POR-0102 	2-Port Indoor PoE Repeater	P.64
POR-1100 	Outdoor PoE Repeater	P.64
POR-1102 	2-Port Outdoor PoE Repeater	P.64
POI-2100 	19-inch 8-slot PSE Rack for PIS-3100	P.64
<b>PoE VoIP Phone</b>		
VOI-7100 	SIP VoIP PoE Phone	P.79



## Audio/Video Extenders

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

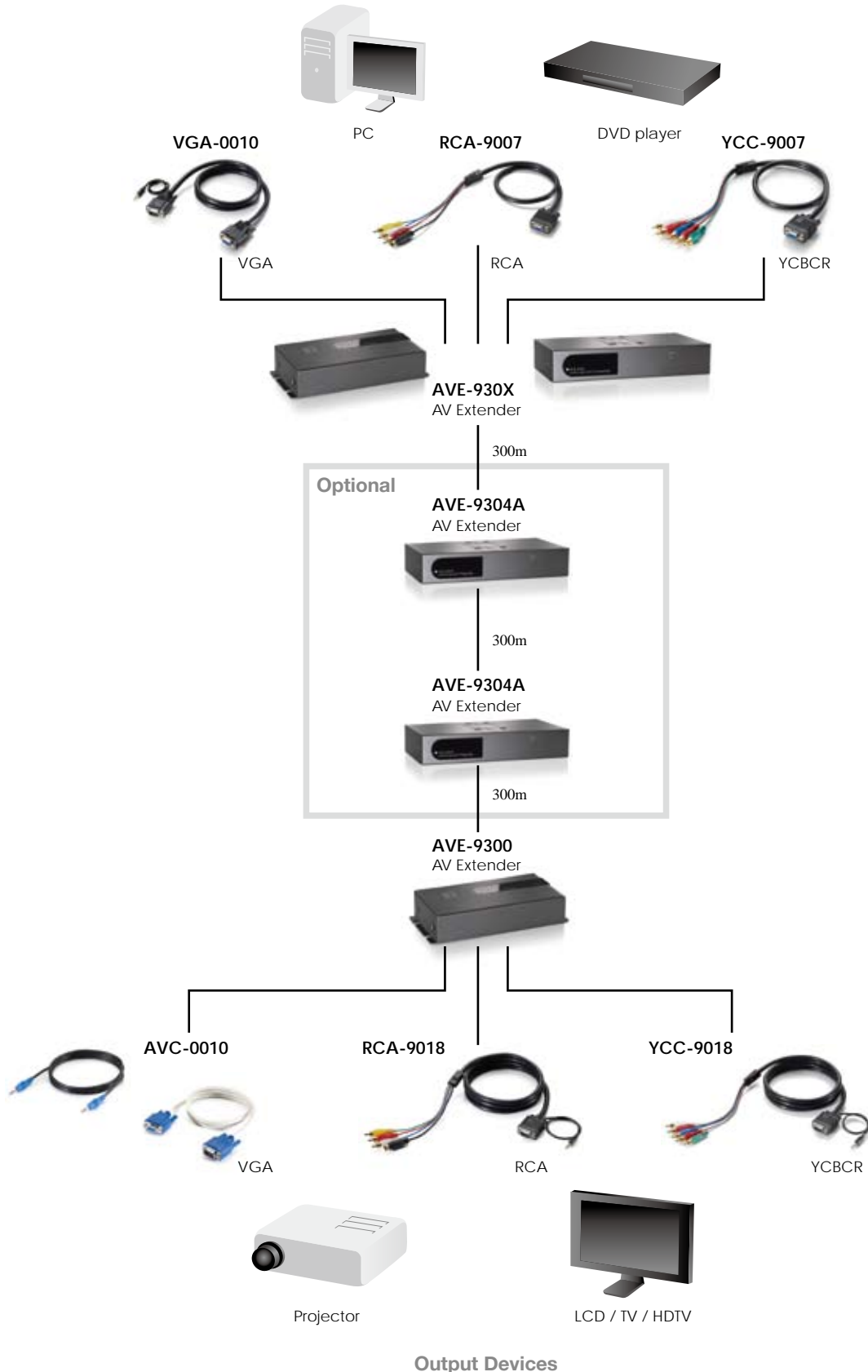
- Audio and Video Extenders (VGA, 150/300m)
- Accessories for Audio and Video Extenders (VGA)
- Audio and Video Extenders (DVI)
- Audio and Video Extenders (HDMI)
- Audio and Video Extenders (via Fiber)

## IP Audio Broadcasting

Schedule different audio in different zone

# LevelOne Audio/Video Extenders

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



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



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

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



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

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



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

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

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



**AVE-9300 / AVE-9301**  
1-Port Cat.5 VGA Receiver or Transmitter

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



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

- Provides 4, 8 or 16 ports long range cat.5 A/V transmitter
- Broadcast audio/video signals over Ethernet cable
- Supports 2048x1536 VGA resolution over 300m
- Flexible multi-location audio/video broadcasting
- Flexible cable kit choices for different video applications
- Units can be stacked into 3 layer stackable units (with AVE-9304A) for extending broadcast signal to 900m away
- Repeater and receiver units feature video gain and focus control



**AVE-9304A**  
4+1-Port Long-Range Cat.5 A/V Repeater

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

### Audio and Video Extenders Comparison

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

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

**Model**  
RCA-9007



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

**Works with:**  
AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316

**Model**  
RCA-9018



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

**Works with:**  
AVE-9300 / AVE-9304A

**Model**  
YCC-9007



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

**Works with:**  
AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316

**Model**  
YCC-9018



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

**Works with:**  
AVE-9300 / AVE-9304A

**Model**  
VGA-0010



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

**Works with:**  
AVE-9301 / AVE-9304 / AVE-9308 / AVE-9316

**Model**  
AVC-0010



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

**Works with:**  
AVE-9300 / AVE-9304A

**ModelNo.**  
AVC-0011



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

**Works with:**  
AVE-9300 / AVE-9304A

## Audio and Video Extenders (DVI)



**ADE-8011**  
Audio Extender

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



**ADE-8201**  
1-Port DVI Transmitter

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



**ADE-8001**  
Short-Range DVI Receiver

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



**ADE-8002**  
Long-Range DVI Receiver

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



**ADE-8202**  
2-Port DVI Broadcaster with Audio

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



**ADE-8204 / ADE-8208**  
4/8-Port DVI Broadcaster with Audio

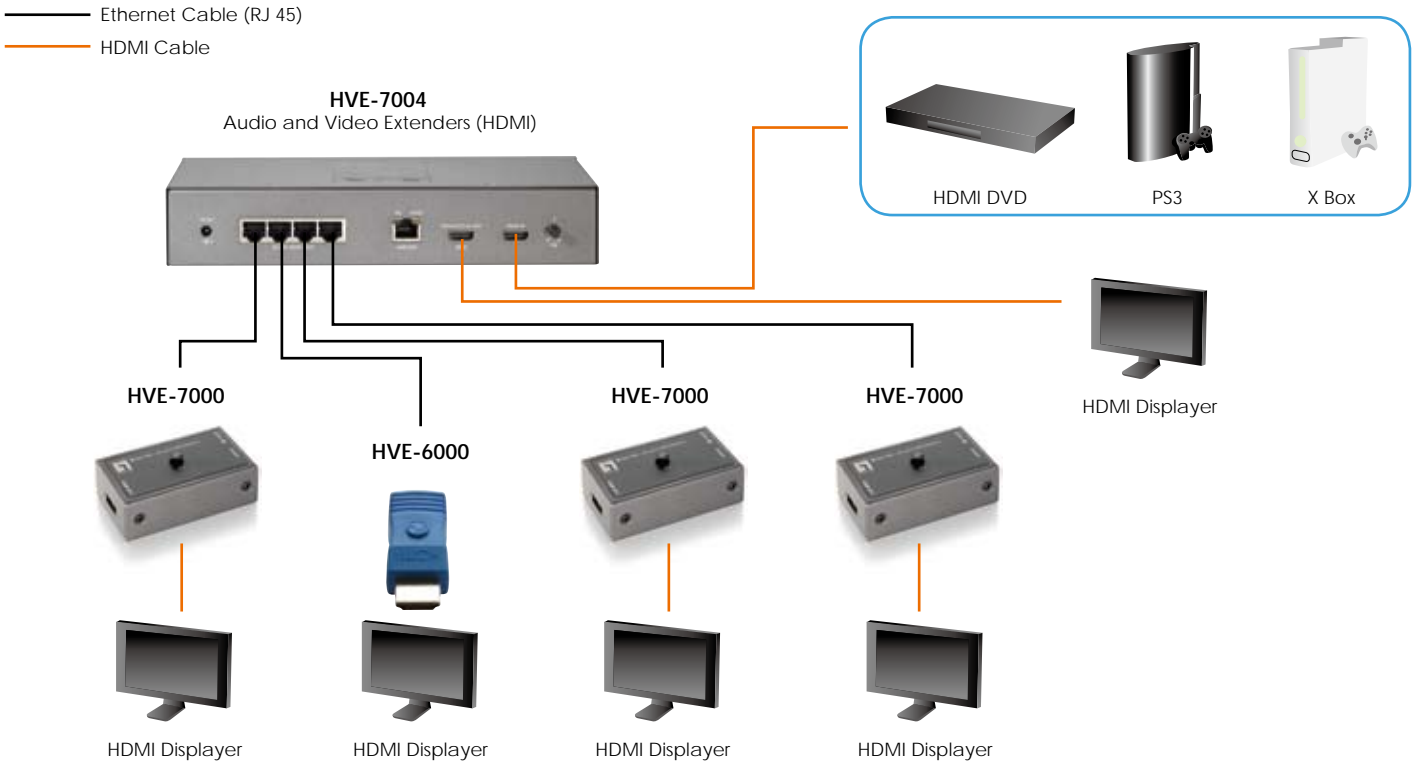
- Provides 4 or 8 ports DVI broadcaster with audio
- Transmits DVI signal via Cat.5, Cat.5e, Cat.6 cable
- Transmits stereo audio via 4-wire phone cable
- Supports high DVI resolution up to 1920x1200
- DVI signal transmission distance up to 70 meters at 1024x768 resolution when used with ADE-8002
- Transmits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

### Audio and Video Extenders Comparison

Model	Description	Interface	Aspect ratio	Resolution	Distance
ADE-8011	Audio Extender	Audio	-	-	100m
ADE-8201	1-Port Video Transmitter	DVI-D	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002
ADE-8001	DVI Receiver	DVI-D	XGA (4:3)	1024x768	15m@1024x768
ADE-8002	LR DVI Receiver	DVI-D	XGA (4:3)	1024x768	70m@1024x768
ADE-8202	2-Port Video/Audio Broadcaster	DVI-D/Audio	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002
ADE-8204 / 8208	4/8-Port Video/Audio Broadcaster	DVI-D/Audio	XGA (4:3)	1024x768	15m/70m@1024x768 with ADE-8001/8002

# LevelOne Audio and Video Extenders (HDMI)

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



## Audio and Video Extenders (HDMI)



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

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



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

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



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

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

### Audio and Video Extenders Comparison

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

## Audio and Video Extenders (HDMI)



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

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



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

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



**HVE-9001**  
HDSpider™ HDMI Cat.5 Sender

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

## Audio and Video Extenders (via Fiber)



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

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



**HVE-0201**  
HDMI Fiber Optic Audio/Video  
Extender (SC) 200m

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



**DVE-0500**  
DVI Fiber Optic Video Extender (500M)

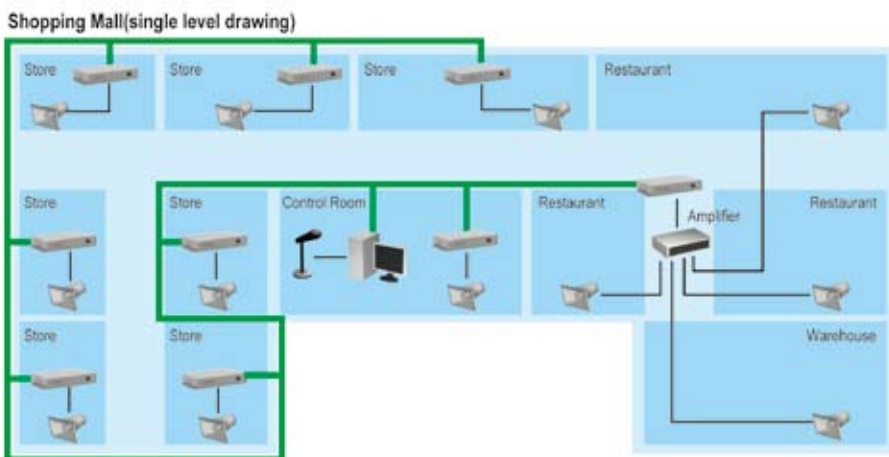
- Transmission of DVI signals via optical fiber up to 500m
- Able to connects via an LC duplex connector to a 4 channel fiber optic cable to transmit the DVI signal
- Provides long distance digital image transmission via fiber optic cable
- Provides high-resolution image quality
- Signal is protected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

### Audio and Video Extenders Comparison

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

# IP Audio Broadcasting

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



**Illustrations**

- Level1 IAT Terminal
- PC to Run Level1 Audiocast Manager
- Installed Standard Ethernet Network
- Microphone For Announce



**IAT-1000**  
LevelOne Audiocast Terminal

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

## LevelOne IP Audiocast Manager

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



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

\* The IP Audiocast Manager Lite is the free version that comes with the IAT-1000  
 \* Please note that the Ethernet environment has to support broadcast streaming.  
 \* The IAT-1900/1920 software has to run with USB Key license



## Print Servers

Share Your Printer and Peripheral  
Devices over a Wired or Wireless Network

- Wired Print Servers
- Wireless Print Servers

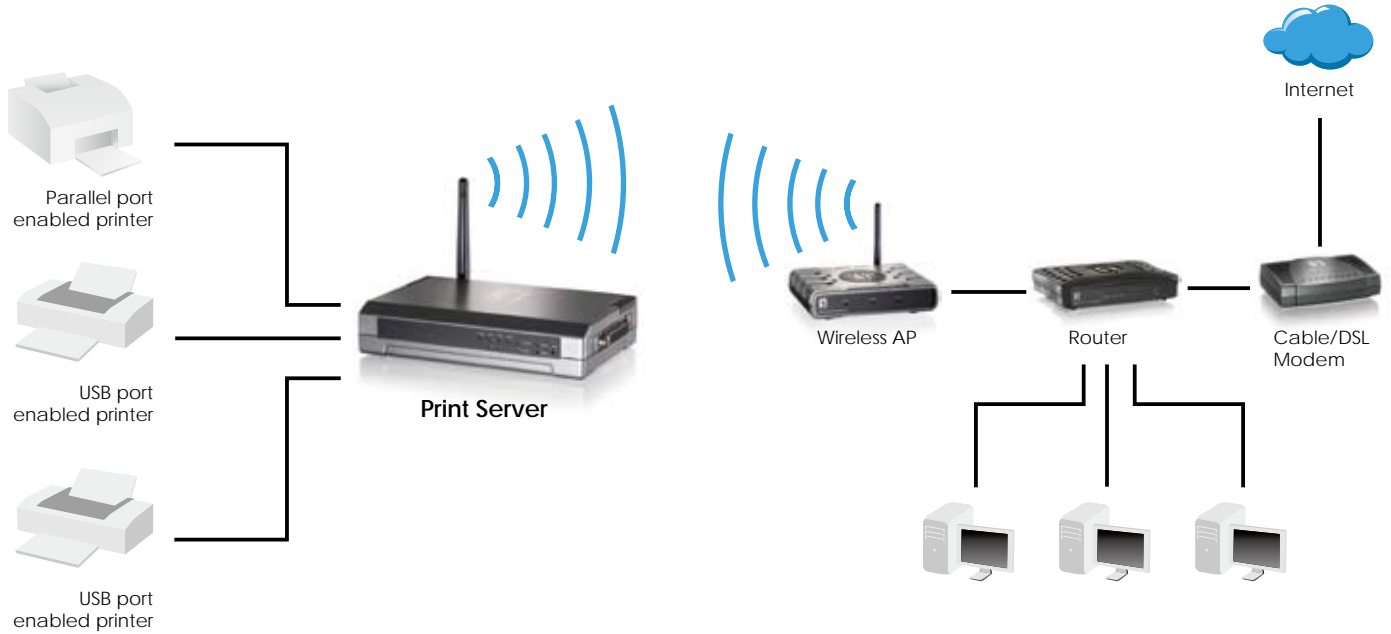
## Voice over IP (VoIP)

Easy and Affordable Solutions for  
the Voice over Internet Protocol

- VoIP Gateways
- VoIP PBX
- VoIP Phone
- Accessories

# LevelOne Print Servers

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



## Wired Print Servers



**FPS-1031**  
Print Server with 1 Parallel Port

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



**FPS-1032**  
Print Server with 1 USB Port

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



**FPS-1033**  
Print Server with 2 USB and 1 Parallel Ports

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

### Wired Print Servers Comparison

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

### Wireless Print Servers



**FUS-3100**  
Multifunction Print Server with 1 USB Ports

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



**FPS-3003**  
Multifunction Print Server with 2 USB Ports

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



**WPS-1133**  
54 Mbps Wireless Print Server with 2 USB and 1 Parallel Ports

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



**WUS-3200**  
54 Mbps Wireless Multifunction Print Server with 2 USB Ports

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



**WPS-9123**  
54 Mbps Wireless Print Server with 2 USB and 1 Parallel Ports

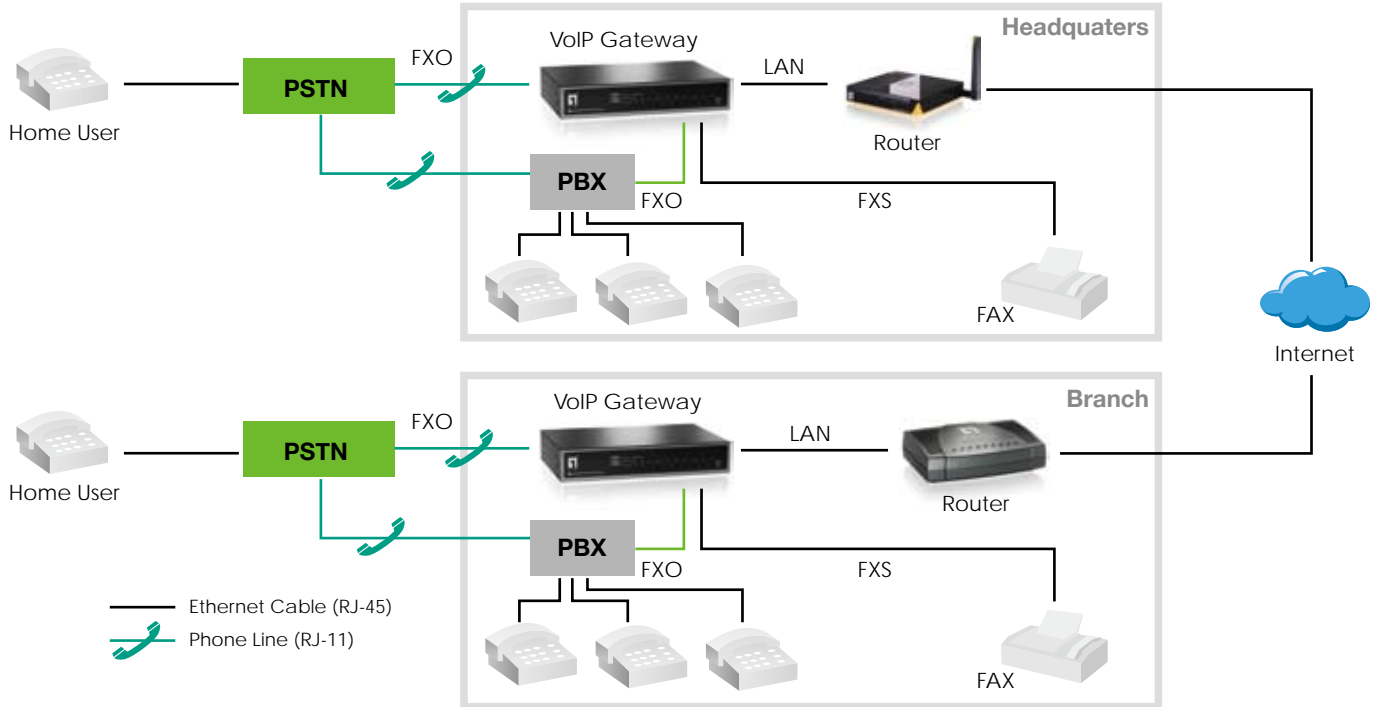
- Provides 2 USB and 1 parallel printer ports - Share printer resources to network users
- Shares printer to all LAN users and provides peer-to-peer printing (TCP/IP/IPX/NetBEUI)
- Supports server-based printing (Novell/Windows)
- Easy to install and setup with web-based interface
- Supports fault-tolerant upgrade capability
- Supports TCP/IP, IPX/SPX, NetBEUI and AppleTalk network protocols
- Supports LPR, IPP, SMB/TCP, Raw Printing and Unix Logical printing protocols

#### Wireless Print Servers Comparison

Model	MFP Server	802.11b/g	Parallel Port	USB Port	WEP	TCP/IP
WPS-1133	-	■	1	2	■	■
WUS-3200	■	■	-	2	■	■
WPS-9123	-	■	1	2	■	■

# LevelOne Voice over IP (VoIP) Solutions

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



## VoIP Gateways



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

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



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

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



**WBR-3470A/B**  
Wireless 54 Mbps Modem + VoIP Router

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

### VoIP Solutions Comparison

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

## VoIP PBX



**VOI-9300**  
SIP VoIP PBX with 4 FXO Ports

- Advanced telephony management and feature rich IP PBX solution
- Supports 100 extensions, 100 voicemail accounts and 30 concurrent calls
- Features a web-calling feature for online interaction and provides call detail record (CDR)
- Provides a VPN server for secured connectivity
- Supports ITU-T G.711a/u, GSM/MS-GSM, G.729A/B, VAD and CNG speech codec
- Features powerful interactive voice response system and voice message recording function
- Provides built-in SIP proxy register server IP phone

## VoIP Phone



**VOI-7000**  
SIP 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 VoIP and SIP features
- Provides 2 MB flash memory and 8 MB for SDRAM
- Registers up to 3 different telephone numbers
- Enhanced security features of HTTP1.1 authentication for web setup and MD5 for SIP authentication
- Plug-and-play enabled user easy to set-up with keypad



**VOI-7100**  
SIP VoIP PoE Phone

- Traditional phone for digital use
- User friendly and packed with PoE, VoIP and SIP
- Provides 2 MB flash memory and 8 MB for SDRAM
- Registers up to 3 different telephone numbers
- Enhanced security features to protect local area networks and provides plug-and-play enabled user easy to set-up with keypad



**VOI-7010**  
SIP VoIP Phone

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



**VOI-7011**  
SIP VoIP Phone with 1 FXO Port

- Provides IP phone with FXO port for connecting to IP network and PSTN network
- SIP compliant with 3 SIP account registration support
- Provides cost effective VoIP IP phone for home and business use
- Configures traditional office phone features
- IP PBX support for full office phone network setup
- Provides VPN support and supports plug-and-play enabled with easy set-up with keypad
- Supports lightweight single headset with microphone

## Accessories

### Model

DHM-1000



### Description

Lightweight Single Headset w/ Microphone

### Works with:

VOI-7010 / VOI-7011

## VoIP Solutions Comparison

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

**LevelOne Ethernet Switches****Unmanaged Fast Ethernet Switches** Page 04-06

FSW-0508TX	5-Port Fast Ethernet Switch
FSW-0808TX	8-Port Fast Ethernet Switch
FSW-0511	5-Port Fast Ethernet Switch
FSW-0811	8-Port Fast Ethernet Switch
FSW-2215	5-Port Fast Ethernet Switch
FSW-2218	8-Port Fast Ethernet Switch
FSW-0512	5-Port Fast Ethernet PD Switch
FSW-0812	8-Port Fast Ethernet PD Switch
FSW-2106	5-Port TP + 1-Port SC Fast Ethernet Switch
FSW-1602TX	16-Port Fast Ethernet Switch
FSW-1621	16-Port Fast Ethernet Switch
FSW-2421	24-Port Fast Ethernet Switch
FSW-1650	16-Port 10/100 Rackmount Switch
FSW-2450	24-Port 10/100 Rackmount Switch
FSW-2409TFX	24-Port TP with 1 Expansion Slot Fast Ethernet Switch
FSW-0809	4-Port PoE + 4-Port TP Fast Ethernet Switch
FSW-0822	4-Port PoE + 4-Port TP Fast Ethernet Switch
FSW-0503	4-Port PoE + 1-Port Uplink Fast Ethernet Switch
FSW-0513	4-Port High Power PoE Switch + 1 Port Uplink Fast Ethernet Switch
IFE-0500	4-Port PoE + 1-Port TP Industrial Fast Ethernet Switch
IFE-0501	4-Port PoE + 1-Port Multi-mode SC Fiber Industrial Fast Ethernet Switch
IFE-0502	4-Port PoE + 1-Port Single-mode SC Fiber Industrial Fast Ethernet Switch

**Unmanaged Gigabit Ethernet Switches** Page 06-08

GSW-0506	5-Port Gigabit Ethernet Switch
GSW-0806	8-Port Gigabit Ethernet Switch
GSW-0507	5-Port Gigabit Ethernet Switch
GSW-0807	8-Port Gigabit Ethernet Switch
GSW-0508	4-Port TP+1-Port SFP Gigabit Ethernet Switch
GSW-0509	5-Port Gigabit Switch with Internal Power
GSW-0809	8-Port Gigabit Switch with Internal Power
GSW-1603	16-Port Gigabit Ethernet Switch
GSW-1621	16-Port TP with 1-Port shared SFP Gigabit Ethernet Switch
GSW-2420	24-Port Gigabit Ethernet Switch
GSW-1656	16-Port TP with 4-Port shared SFP Gigabit Ethernet Switch
GSW-2456	24-Port TP with 4-Port shared SFP Gigabit Ethernet Switch
GSW-2650	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Switch
GSW-2453	3-Slot Modularized Combo Gigabit Ethernet Switch
GSW-1657	16-Port Gigabit Ethernet Switch
GSW-2457	24-Port Gigabit Ethernet Switch
GSW-5150	48-Port Fast Ethernet TP + 3-Port Gigabit Ethernet TP/SFP Switch

**Web Smart Fast Ethernet Switches** Page 08

FSW-1671	16-Port 10/100 Rackmount Smart Switch with 8 PoE Ports
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**Web Smart Gigabit Ethernet Switches** Page 09

GSW-0841	8-Port TP with 1-Port shared SFP Web Smart Gigabit Ethernet Switch
GSW-1641	16-Port TP with 1-Port shared SFP Web Smart Gigabit Ethernet Switch
GSW-2440	24-Port Web Smart Gigabit Ethernet Switch
GSW-2473	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo Web Smart Switch
GSW-1676	16-Port TP with 4-Port shared SFP Web Smart Gigabit Ethernet Switch
GSW-2476	24-Port TP with 4-Port shared SFP Web Smart Gigabit Ethernet Switch
GSW-4876	48-Port TP with 4-Port shared SFP Web Smart Gigabit Ethernet Switch
GSW-5270	48-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo and SFP Web Smart Switch

**Managed Gigabit Ethernet Switches** Page 10-11

GSW-0890	8-Port TP with 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch
GSW-0891	8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo L2 SNMP Switch
GSW-1290	4-Port Combo with 2 Expansion Slots L2 SNMP Gigabit Ethernet Switch
GSW-1291	12-Port PoE with 2-Port shared SFP L2 SNMP Gigabit Ethernet Switch
GSW-2693	24-Port PoE Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch
GSW-2690	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo L2 SNMP Switch
FGL-2870	24-Port Fast Ethernet + 4-Port Gigabit Ethernet Combo SFP L2 SNMP Switch
GEL-2870	24-Port Gigabit Ethernet + 4-Port Gigabit Ethernet Combo SFP L2 SNMP Switch
GSW-4896	48-Port TP with 4-Port shared SFP L2 SNMP Gigabit Ethernet Switch
GSW-2692	24-Port Fast Ethernet TP + 2-Port Gigabit Ethernet Combo Stackable L2 SNMP Switch
GSW-2493	4-Slot Modularized L2 SNMP Combo Switch

**Layer 3 Managed Gigabit Ethernet Switches** Page 11

GTL-2690	20-Port Gigabit Ethernet + 4-Port Gigabit Ethernet Combo SFP L3 SNMP Stackable Switch
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**Accessories** Page 12-13**LevelOne IP Power Switch****IP Power Switch** Page 14

IPS-0008	8-Port IP Power Switch
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**LevelOne Media Converters****Media Converters** Page 15-16

FVT-0103TXFC	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter with PoE (SC)
FVT-0104TXFC	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter with PoE (SC)
FVT-0203TXFC	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter with PoE Injector (SC)
FVT-0204TXFC	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter with PoE Injector (SC)
FVT-6001	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter with TS-1000 Support (SC)
FVT-6301	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter with TS-1000 Support (SC)
FVT-4001	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter (SC)
FVT-4301	10/100BASE-TX to 100BASE-FX Single-Mode Fiber Converter (SC)
FVT-4002	10/100BASE-TX to 100BASE-FX Multi-Mode Fiber Converter (ST)
GVT-4000	10/100/1000BASE-TX to 1000BASE-FX Converter (SFP)
GVT-4001	10/100/1000BASE-TX to Multi-mode 1000BASE-FX Converter (SC)

**Converter Chassis** Page 16

FVT-4000	10-Slot Media Converter Chassis with Redundant Power Supply
FVT-5000	16-Slot Managed Converter Chassis with Redundant Power Supply

**VDSL2 Media Converters** Page 17

VDS-0200	Ethernet over VDSL2 Converter (Annex A)
VDS-0201	Ethernet over VDSL2 Converter (Annex B)
VDS-0202	Ethernet over VDSL2 Converter (BNC)
VDS-0120	Ethernet over VDSL2 Converter (PSE)
VDS-0130	Ethernet over VDSL2 Converter (PD)
VDS-0110	Ethernet over VDSL2 Converter (Sender)
VDS-0111	Ethernet over VDSL2 Converter (Receiver)

**Accessories** Page 18**LevelOne Broadband Routers and Gateways****Wired** Page 20

FBR-1430	VPN Broadband Router
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FBR-4000	Multi-WAN VPN Load Balancing Router
FBR-1418TX	Broadband Routers

## Wireless Page 21-22

WSK-3000	N_Max Wireless Starter Kit
WBR-6000	N_One Wireless Router
WBR-6001	N_Max Wireless Router
WBR-6002	N Wireless Router
WBR-6003	N Wireless Router
WBR-6800	N Wireless 3G Router
WBR-6020	N_Max Wireless Router
WBR-6011	N_Max Wireless Router
WBR-6022	HomeGuard22 Residential Gateway

## LevelOne Broadband DSL Modem/Routers

### Wired Page 23

FBR-1161A	ADSL2+ Modem Router with 1 USB Port
FBR-1161B	ADSL2+ Modem Router with 1 USB Port
FBR-1461A	ADSL2+ Modem Router with QoS
FBR-1461B	ADSL2+ Modem Router with QoS

### Wireless Page 23-24

WBR-6601	150 Mbps N Wireless Modem Router
WBR-3600A	54 Mbps Wireless Modem/Router (Annex A)
WBR-3600B	54 Mbps Wireless Modem/Router (Annex B)
WBR-3470A	54 Mbps Wireless Modem + VOIP Router (Annex A)
WBR-3470B	54 Mbps Wireless Modem + VOIP Router (Annex B)
WBR-6600A	N_Max Wireless ADSL2+ Modem Router (Annex A)
WBR-6600B	N_Max Wireless ADSL2+ Modem Router (Annex B)

### Accessories Page 24

## LevelOne Network Adapters

### Wired Page 25-26

FNC-0107TX	Fast Ethernet PCI card with Wake-on LAN
FNC-0109TX	Fast Ethernet PCI card
FNC-0103FX	100FX Multi-mode ST Fiber Optic PCI Card
FNC-0104FX	100FX Multi-mode SC Fiber Optic PCI Card
GNC-0105T	Gigabit Ethernet 32-bit PCI Card
FNC-0600TXM	5-Port Fast Ethernet SNMP PCI Switch Card
FNC-0115	100FX Multi-mode SC Fiber Optic PCI Express Card
GNC-0107	1000FX Multi-mode SC Fiber Optic PCI Card
GNC-0111	1000FX Multi-mode SC Fiber Optic PCI Express Card
USB-0201	USB Gigabit Ethernet Adapter
USB-0401	USB Gigabit Ethernet Adapter
USB-0202	USB Net Connector
USB-0301	USB Fast Ethernet Adapter

### Wireless Page 26-28

WNC-0301	54 Mbps Wireless PCI Card
WNC-0600	N_One Wireless PCI Adapter
WPC-0600	N_One Wireless CardBus Adapter
WNC-0601	N_Max Wireless PCI Card
WNC-0305USB	54 Mbps Wireless USB Adapter
WUA-0315	11g Wireless USB Adapter
WUA-0614	N Wireless USB Adapter (Detachable Antenna - 2dbi)
WUA-0624	N Wireless USB Adapter (Detachable Antenna - 4dbi)

WNC-0600USB	N_One Wireless USB Adapter
WUA-0600	N_Max Wireless USB Adapter
WUA-0603	N Wireless USB Adapter
WUA-0605	N_Max Wireless USB Adapter

## Accessories Page 28

## LevelOne Wireless Bridges/Access Points

### LevelOne Wireless Access Points Page 30-32

WAP-3000	11g 54 Mbps Wireless Access Point
WAP-3100	11g 54 Mbps PoE Wireless Access Point
WAP-0007	11b/g 54 Mbps Wireless Access Point + Storage (2.5" HDD)
WAP-0008	11b/g 54 Mbps Wireless Access Point + Storage (3.5" HDD)
WAP-3101	Ceiling Mount PoE Wireless Access Point
WAP-6002	N Wireless Access Point
WAP-6010	N_Max Wireless Access Point
WAP-1001	11b/g 108 Mbps Outdoor PoE Wireless Access Point
WAB-3001	Wireless 11g Outdoor PoE AP with Built-In 9 dBi Antenna
WAB-3002	Wireless 11g Outdoor PoE AP
WAB-7000	Wireless 11a/b/g Outdoor PoE AP
WAB-7400	Wireless 11a/b/g Dual Radio Outdoor PoE Mesh AP

### Wireless Bridge Page 32

WBA-4000	11a 108 Mbps Outdoor PoE Wireless Bridge
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### Accessories Page 32

## LevelOne Antennas

### 2.4GHz Antennas Page 33-34

OAN-0500	5 dBi Omni-directional Indoor Antenna
OAN-1070	7 dBi Omni-directional Desktop Indoor Antenna Kit
OAN-2151	15 dBi Omni-Directional Outdoor Antenna
OAN-2090	9 dBi Omni-Directional Indoor/Outdoor Antenna Kit
WAN-1112	12 dBi Directional Patch Indoor/Outdoor Antenna Kit
WAN-2185	8.5 dBi Pico Cell Outdoor Antenna
WAN-2140	14 dBi Directional Panel Outdoor Antenna
WAN-2181	18 dBi Directional Panel Outdoor Antenna
WAN-2218	18 dBi Directional Yagi Outdoor Antenna

### 5GHz Antennas Page 35

OAN-4101	11a 10 dBi Omni-Directional Outdoor Antenna
WAN-4220	11a 22 dBi Directional Grid Outdoor Antenna
WAN-4231	11a 23 dBi Directional Panel Outdoor Antenna
WAN-4232	11a 23 dBi Directional Panel Outdoor Antenna

### Dual Band (2.4/5 GHz) Antennas Page 35

WAN-1160	11a/b/g 6/8 dBi Directional Antenna
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### Accessories Page 36

## LevelOne Wireless Solution

### Wireless Solution Page 37-38

## LevelOne Network Cameras

### Network Cameras Page 40-43

FCS-0030	H.264 MegaPixel Network Camera
WCS-0030	150 Mbps Wireless H.264 MegaPixel Network Camera

FCS-1121	H.264 Megapixel PoE Network Camera
FCS-0010	Network Camera
WCS-0010	Wireless Network Camera with Mic
FCS-0020	P/T/Z Network Camera
WCS-0020	Wireless P/T/Z Network Camera
FCS-1030	Network Camera
WCS-2030	Wireless Network Camera with Mic
FCS-1060	P/T/Z Network Camera
WCS-2060	Wireless P/T/Z Network Camera
FCS-1010	P/T/Z Network Camera
WCS-2010	Wireless P/T/Z Network Camera
FCS-1040	P/T/Z Network Camera
WCS-2040	Wireless P/T/Z Network Camera
FCS-1101	PoE Network Camera with Audio
FCS-1081A	PoE Network Camera with Audio
FCS-1091	Day/Night PoE Network Camera with Audio
WCS-1090	Wireless Day/Night Network Camera
FCS-1070	Day/Night Network Camera with Built-In IR LEDs
WCS-2070	Wireless Day/Night Network Camera with Built-In IR LEDs
FCS-3021	PoE Dome Network Camera with Audio
FCS-3000	Day/Night Dome Network Camera with Audio
FCS-5030	Network Camera with Infrared LEDs
FCS-5011	Outdoor WDR PoE Network Camera with IR LEDs
FCS-4010	Day/Night Speed Dome Pro Network Camera
FCS-4020	Day/Night Speed Dome Pro Network Camera (35x optical zoom)
FCS-4000	Day/Night P/T/Z Speed Dome Network Camera (18x Optical zoom)
FCS-4100	Day/Night P/T/Z Speed Dome Network Camera (26x Optical zoom)
FCS-4200	Day/Night P/T/Z Speed Dome Network Camera (36x Optical zoom)
FCS-4300	Day/Night P/T/Z Speed Dome Network Camera (18x Optical zoom)
FCS-4400	Day/Night P/T/Z Speed Dome Network Camera (26x Optical zoom)
FCS-4500	Day/Night P/T/Z Speed Dome Network Camera (36x Optical zoom)

#### Accessories Page 44-45

#### LevelOne Video Servers/Captured Card

##### Video Servers/Captured Card Page 46

FCS-8005	Analog Camera Capture Card
FCS-8006	Analog Camera Capture Card

#### LevelOne IP Surveillance Software

##### IP Surveillance Software Page 47-48

FCS-9032	IP CamSecure Lite
FCS-94xx	IP CamSecure Pro Mega Series

#### LevelOne Network Attached Storage (NAS)

##### Network Attached Storage (NAS) Page 50-51

WAP-0007	54 Mbps Wireless Access Point + Storage (2.5" HDD)
WAP-0008	54 Mbps Wireless Access Point + Storage (3.5" HDD)
FNS-1020	1-Bay Simple Network Storage
GNS-2000	2-Bay Gigabit Network Storage
GNS-4000	4-Bay SATA NAS with 1 Gigabit Ethernet Port (3.5" HDD)
GNS-8000B	4-Bay Rackmount SATA NAS with 2 Gigabit Ethernet Ports (3.5" HDD)

#### LevelOne HomePlug Powerline Adapters

##### HomePlug Powerline Adapters Page 53

PLI-2030	200 Mbps HomePlug Ethernet Adapter
PLI-2030 x2	200 Mbps HomePlug Ethernet Adapter Starter Kit
PLI-3110	HomePlug Pro PoE
PLI-3210	HomePlug Pro 4-Port Bridge
PLI-3310	HomePlug Pro Power Bridge

#### LevelOne Docking Station

##### Docking Station Page 54

UDS-1000	Interface Docking Station
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#### LevelOne Bluetooth Communication

##### Bluetooth Communication Page 54

MDU-0025USB	Bluetooth 2.0 EDR Class1 USB Adapter
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#### LevelOne KVM Switches/Consoles/Extenders

##### Cable KVM Switches Page 56

KVM-0213	2-Port PS/2 KVM Switch with Audio
KVM-0223	2-Port USB Cable KVM Switch with Audio
KVM-0260	2-Port USB DVI KVM with Audio

##### Desktop KVM Switches Page 57

KVM-0211	2-Port D-Sub PS/2 KVM Switch with Audio
KVM-0212	2-Port D-Sub PS/2 KVM Switch
KVM-0221	2-Port D-Sub USB KVM Switch with Audio
KVM-0222	2-Port D-Sub USB KVM Switch
KVM-0411	4-Port D-Sub PS/2 KVM Switch with Audio
KVM-0412	4-Port D-Sub PS/2 KVM Switch
KVM-0421	4-Port D-Sub USB KVM Switch with Audio
KVM-0422	4-Port D-Sub USB KVM Switch
KVM-0306	3-Port DVI Combo KVM Switch with Audio

##### Rackmount KVM Switches Page 58

KVM-0410	4-Port D-Sub PS/2 KVM Switch
KVM-0420	4-Port D-Sub Combo KVM Switch
KVM-0811	8-Port D-Sub PS/2 KVM Switch
KVM-1611	16-Port D-Sub PS/2 KVM Switch
KVM-0831	8-Port D-Sub Combo KVM Switch with 1 Expansion Slot
KVM-1631	16-Port D-Sub Combo KVM Switch with 1 Expansion Slot

##### Rackmount KVM Consoles Page 58

KVM-0115US	15" Rackmount KVM Console with US Keyboard Layout
KVM-0115DE	15" Rackmount KVM Console with DE Keyboard Layout
KVM-0117US	17" Rackmount KVM Console with US Keyboard Layout
KVM-0117DE	17" Rackmount KVM Console with DE Keyboard Layout
KVM-0217US	17" Modularized Rackmount KVM Console with US Keyboard Layout
KVM-0217DE	17" Modularized Rackmount KVM Console with DE Keyboard Layout

##### KVM Extenders Page 59

KVM-9000	IP KVM Extender
KVM-9005	KVM Cat.5 Extender Kit
KVM-9006	USB Cat.5 KVM Extender

##### Accessories Page 60

**LevelOne PoE PD/PSE****PoE Hubs** **Page 62**

POH-0850TX	8-Port PoE Mid Span Hub
POH-2450	24-Port PoE Mid Span Hub

**PoE Kit** **Page 62-63**

POS-1000	PoE Splitter
POI-2000	PoE Injector
PIS-3100	PoE Adapter Combo Kit
POS-4000	High Power PoE Splitter 12V
POI-4000	High Power PoE Injector
POS-4001	Outdoor High Power PoE Splitter (12V)

**PoE Repeater** **Page 63-64**

POR-0100	Indoor PoE Repeater
POR-0102	2-Port Indoor PoE Repeater
POR-1100	Outdoor PoE Repeater
POR-1102	2-Port Outdoor PoE Repeater

**PoE Rack** **Page 64**

POI-2100	19-inch 8-slot PSE Rack for PIS-3100
POC-4000	8-Bay High Power PoE Chassis (for POI-4000)
POC-6000	8-Bay PoE Switch Chassis

**PoE Measurement** **Page 64**

PPM-1000	PoE power Measurement
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**LevelOne Power over Ethernet (PoE) Solution****Power over Ethernet (PoE) Solution** **Page 65-66****LevelOne Audio/Video Extenders****Audio and Video Extenders (VGA, 150m)** **Page 69**

AVE-9201	1-Port Cat.5 Audio/Video Broadcaster
AVE-9205	5-Port Cat.5 Audio/Video Broadcaster
AVE-9200	Cat.5 Audio/Video Receiver

**Audio and Video Extenders (VGA, 300m)** **Page 69**

AVE-9300	1-Port Long-Range Cat.5 A/V Receiver
AVE-9301	1-Port Long-Range Cat.5 A/V Transmitter
AVE-9304	4-Port Long-Range Cat.5 A/V Transmitter
AVE-9308	8-Port Long-Range Cat.5 A/V Transmitter
AVE-9316	16-Port Long-Range Cat.5 A/V Transmitter
AVE-9304A	4+1Ports Long-Range Cat.5 A/V Repeater

**Accessories for AVE-xxxx** **Page 70****Audio and Video Extenders (DVI)** **Page 71**

ADE-8011	Audio Extender
ADE-8201	1-Port DVI Transmitter
ADE-8001	Short-Range DVI Receiver
ADE-8002	Long-Range DVI Receiver
ADE-8202	2-Port DVI Broadcaster with Audio
ADE-8204	4-Port DVI Broadcaster with Audio
ADE-8208	8-Port DVI Broadcaster with Audio

**Audio and Video Extenders (HDMI)** **Page 72-73**

HVE-6000	Short-Range Cat.5 HDMI Receiver
HVE-7000	Long-Range Cat.5 HDMI Receiver

HVE-7004	4-Port Cat.5 HDMI Transmitter
HVE-7008	8-Port Cat.5 HDMI Transmitter
HVE-9000	HDSpider™ HDMI Cat.5 Receiver (Long)
HVE-9900	HDSpider™ HDMI Cat.5 Receiver (Short)
HVE-9001	HDSpider™ HDMI Cat.5 Sender
HVE-9002	HDSpider™ HDMI Cat.5 Sender + 1 HDMI Out
HVE-9003	HDSpider™ HDMI Cat.5 Sender (Cascadable)

**Audio and Video Extenders (via Fiber)** **Page 73**

HVE-0201	HDMI Fiber Optic Audio/Video Extender (SC ) 200m
DVE-0500	DVI Fiber Optic Video Extender (500M)

**IP Audio Broadcasting****IP Audio Broadcasting** **Page 74**

IAT-1000	LevelOne IP Audiocast Terminal
IAT-1900	IP Audiocast Manager-unlimited License
IAT-1920	IP Audiocast Manager-20 License

**LevelOne Print Servers****Wired Print Servers** **Page 76-77**

FPS-1031	Print Server with 1 Parallel Port
FPS-1032	Print Server with 1 USB Port
FPS-1033	Print Server with 2 USB and 1 Parallel Ports
FUS-3100	Multifunction Print Server with 1 USB Port
FPS-3003	Multifunction Print Server with 2 USB Ports

**Wireless Print Servers** **Page 77**

WPS-1133	54 Mbps Wireless Print Server with 2 USB and 1 Parallel Port
WUS-3200	54 Mbps Wireless Multifunction Print Server with 2 USB Ports
WPS-9123	54 Mbps Wireless Print Server with 2 USB Port and 1 Parallel Port

**LevelOne VoIP Solution****VoIP Gateways** **Page 78**

VOI-8001	8-Port FXS H.323/SIP VoIP Gateway
VOI-8002	8-Port FXO H.323/SIP VoIP Gateway
VOI-8003	4-Port FXO + 4-Port FXS VoIP Gateway
WBR-3470A	Wireless 54 Mbps Modem + VoIP Router (Annex A)
WBR-3470B	Wireless 54 Mbps Modem + VoIP Router (Annex B)

**VoIP PBX** **Page 79**

VOI-9300	SIP VoIP PBX with 4 FXO Ports
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**VoIP Phone** **Page 79**

VOI-7000	SIP VoIP Phone
VOI-7100	SIP VoIP PoE Phone
VOI-7010	SIP VoIP Phone
VOI-7011	SIP VoIP Phone with 1 FXO Port

**Accessories** **Page 79**



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