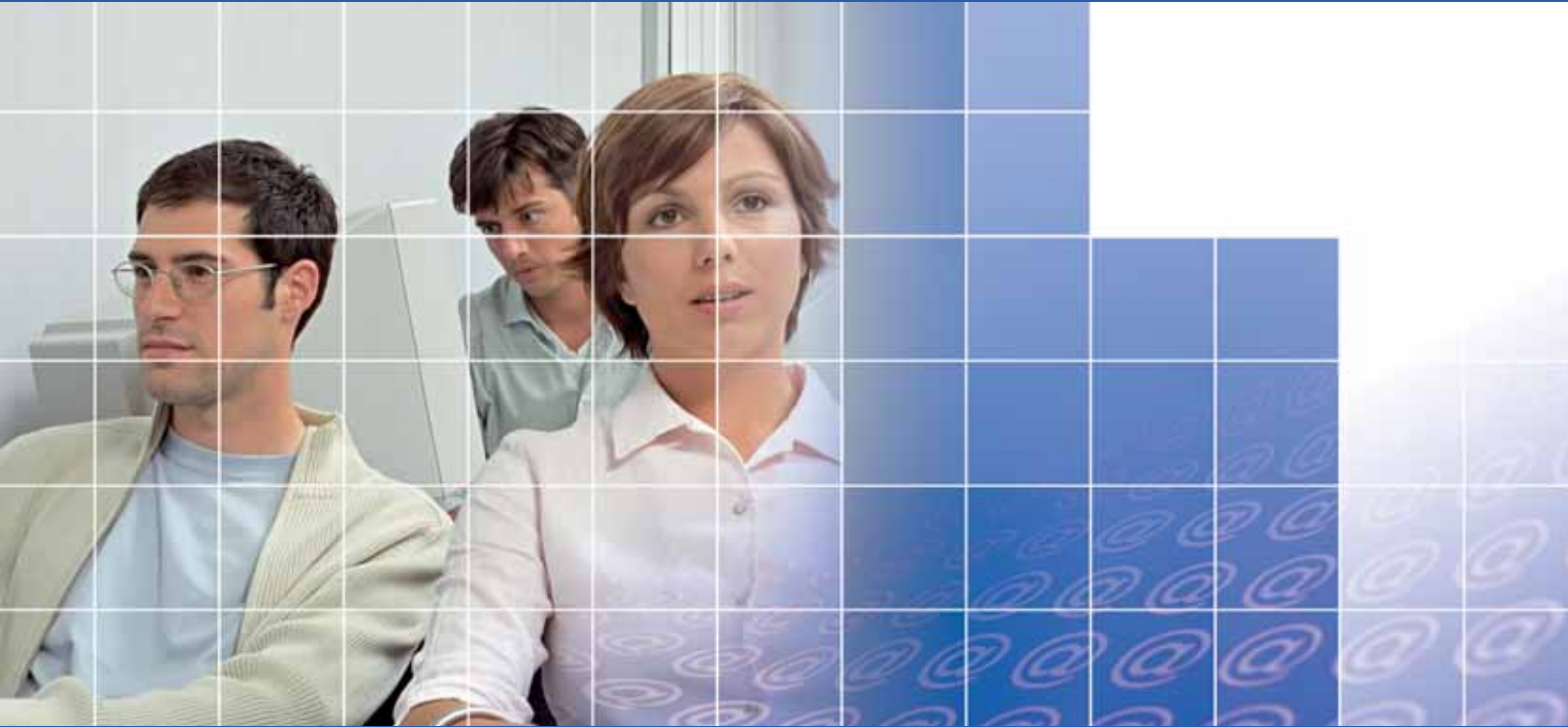
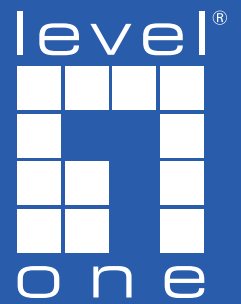


LevelOne

www.level1.com



Network & Communication

Catalog 2008

one world_one brand_one level_

10 years LevelOne - a successful brand

LevelOne provides all essential components of the Local Area Network and its internet connection. Research and development are located close to the manufacturers in Asia. LevelOne's quality management ensures best quality standards in all manufacturing processes.

Design creates awareness

LevelOne combines aesthetics with innovative technology for intelligent networks with comfort. Satisfied customers and competent future-oriented network topologies are the key for the acceptance on the market. High future security, representative design and a convincing functionality with know-how and creativity set standards.

One_Home, One_Office, One_Industry

Daily business, your customers, your products and the turnover need your full attention. Definitely you prefer to concentrate on your main business. You want to bind your customers and gain new customers. Exactly this aim is our first priority. According to the requirements of our customers - whether small, medium or large scale enterprises - we provide products and solutions in combination with service as stable basis for your success - safe, reliable and for an affordable price.



ONE_HOME_

Retail, Consumer Electronics



stays young



ONE_OFFICE_

Small & Medium Business, SoHo



ONE_INDUSTRY_

Enterprise Solutions



Products 2008	Page
Switches Fast and reliable switches for home-using and small offices	5
19" Switches Professional switches with powerful and future-proof features	8
Media converter Media converter for connections between classical copper- and fiber networks	20
Broadband router Topical and efficient router for safe and fast internet access	25
Wireless components Reliable wireless components to build-up wireless networks	34
Network cameras & management software Digital video-surveillance solutions for in- and outdoor area	43
Network attached storage (NAS) Configurable network storage for home- and professional use	55
Printer server Wired and wireless printer- and MFP-server to connect with USB end devices like hard discs, memory sticks and scanner	58
Network adapter Fast ethernet and gigabit network cards (copper, fiber) for PCI-bus, CardBus and USB	60
VoIP components Digital telephony via local network and internet - cost-effective and worldwide available	62
KVM switches desktop / professional Reliable KVM-switches to control several computer with one keyboard, mouse and monitor	66
Extender components (Cat.5/VGA/DVI) Long-distanced transfer of KVM- or audio/video information via CAT.5 or fiber	72
HomePlug adapter Powerful home networks via in-house power supply system	75

Compact Switch

Our LevelOne compact switch series provides switches that are specially designed for using small and home offices. Their compact design is the ideal and fast solution for the integration in small networks.

- supports auto-uplink and auto-negotiation on all ports
- speed auto detect & address learning
- store-and-forward technology
- full duplex and half duplex flow-control
- with magnetic base (FSW-0508/0808)



FSW-0508TX



GSW-0806

LevelOne Compact Switch

Model-No.	Item No.	Ports/Speed	MAC-Address-Memory	Buffer Memory	Backplane	Power Supply
FSW-0508TX	530135	5 x 10/100Mbps	1K	128KB	1,0G	external
FSW-0808TX	530136	8 x 10/100Mbps	1K	128KB	1,6G	external
GSW-0506	530145	5 x 10/100/1000 Mbps	8 K	112 KB	10,0G	external
GSW-0806	530146	8 x 10/100/1000 Mbps	8 K	112 KB	10,0G	external

Desktop Switch

The LevelOne desktop switch series provides gigabit ethernet and fiber, elegant design and state-of-the-art technology. It is the ideal solution for small and home offices.

- supports auto-uplink and auto-negotiation on all ports
- speed auto-detect & address learning
- store-and-forward technology
- full duplex and half duplex flow-control
- gigabit fiber uplink (GSW-0505)
- for desktop use and wall mounting



FSW-2218



GSW-0504

LevelOne Fast Ethernet Desktop Switch

Model-No.	Item No.	Ports/Speed	MAC-Address-Memory	Buffer Memory	Backplane	Power Supply
FSW-2215TX	520215	5 x 10/100Mbps	1 K	96 KB	1,0 G	internal
FSW-2218TX	520218	8 x 10/100Mbps	1 K	96 KB	1,6 G	internal
FSW-1602TX	530216	16 x 10/100Mbps	8 K	512KB	3,2 G	external
FSW-2106	530139	5 x 10/100Mbps + 1x 100FX (SC)	2 K	96 KB	2,0 G	external

LevelOne Gigabit Desktop Switch

Model-No.	Item No.	Ports/Speed	MAC-Address-Memory	Buffer Memory	Backplane	Power Supply
GSW-0504T	530405	5 x 10/100/1000 Mbps	4 K	128 KB	10,0 G	internal
GSW-0804T	530408	8 x 10/100/1000 Mbps	4 K	128 KB	16,0 G	internal
GSW-0505	530505	4 x 10/100/1000 Mbps + 1x SFP	4 K	128 KB	10,0 G	external

Desk & Rack Switches

The LevelOne desk & rack switches provide high performance and flexibility. Their wide operating range reaches from desktop use to 19" installations. Stands and 19" rackmount brackets are included.

- supports auto-uplink and auto-negotiation for each port
- supports full-duplex IEEE802.1x flow control, back pressure at half duplex
- store-and-forward technology
- incl. 19" rackmount brackets



FSW-1621/ 2421



Smart Serie

LevelOne desk & rack Switch

Model-No.	Item No.	Ports/Speed	Management	MAC-Address-Memory	Buffer	Backplane	Power Supply
FSW-1621	524617	16 x 10/100Mbps	-	8K	512 KB	3,2G	internal
FSW-2421	524625	24 x 10/100Mbps	-	4K	1536 KB	4,8G	internal
GSW-1621	520316	16x 10/100/1000Mbps + 1x SFP	-	8K	340 KB	32,0G	internal
GSW-2420	520420	24x 10/100/1000Mbps	-	8K	500 KB	48,0G	internal

additional features of smart managed switch :

- support VLAN, QoS/CoS, port trunking, mirroring
- broadcast storm control
- web based management



GSW-1641



LevelOne Smart Managed Switch

Model-No.	Item No.	Ports/Speed	Management	MAC-Address-Memory	Buffer	Backplane	Power Supply
GSW-0841	520841	8 x 10/100/1000Mbps + 1x SFP	Webbrowser/SNMP	8K	180 KB	16G	internal
GSW-1641	520641	16 x 10/100/1000Mbps + 1x SFP	Webbrowser/SNMP	8K	340 KB	32G	internal
GSW-2440	520440	24 x 10/100/1000Mbps	Webbrowser/SNMP	8K	500 KB	48G	internal

SNMP & PoE Switches

This LevelOne SNMP switch is optimized for the use in time critical network environments. Future-proof QoS functions like "Differentiated Service" and "Layer 4 Bandwidth Management" guarantee failure-free data transmission for multimedia applications like IP-TV, VoIP and video streaming.

Attached components like PoE-compatible network cameras, access points and VoIP phones receive their power through port-based supply (802.3af).

The place of the devices is herewith independent from the distance to an outlet.

- 8 ports 10/100/1000Mbps
- 2 SFP shared ports with port 7 and 8
- supports port-based, 802.1q tag-based, and private VLAN
- layer 4 bandwidth management, QoS 'DiffServ' (DSCP), active/passive IGMP snooping
- supports Q-in-Q VLAN for expanded performance and security
- supports MAC-based 802.3ad LACP with automatic link failure security
- supports 802.1x access control to improve network security
- IEEE802.1d and 802.1w rapid spanning tree for creation of redundant paths for critical applications
- supports Telnet, CLI and web management
- Internal power supply
- no fan

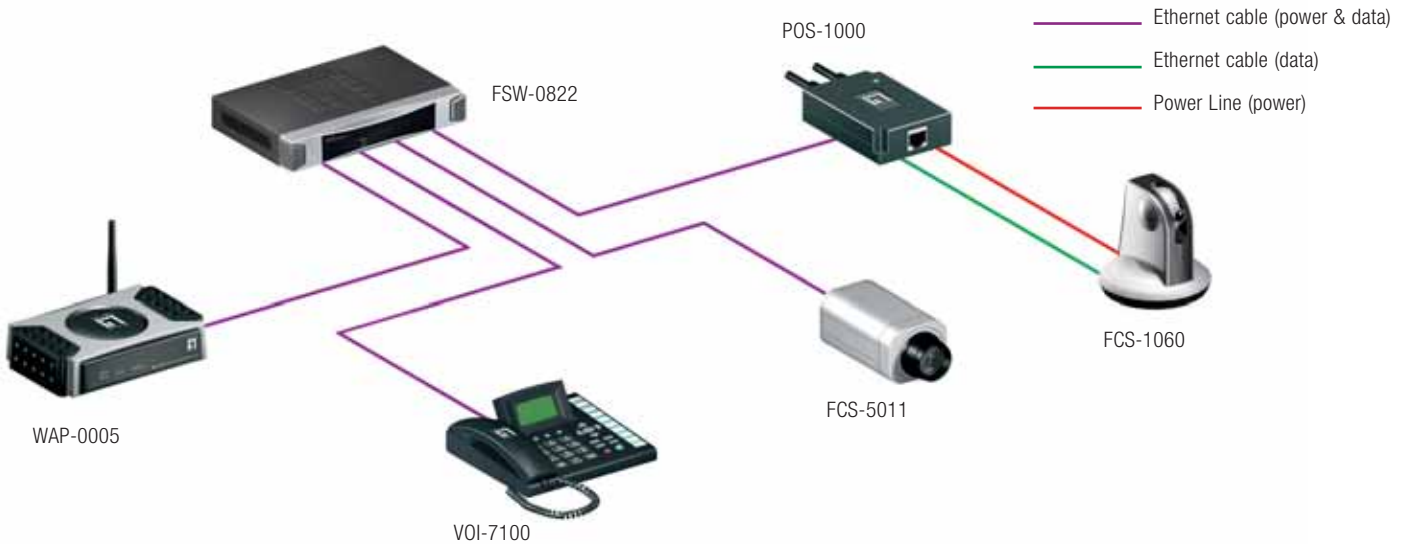
GSW-0890



GSW-0890

LevelOne Full Managed SNMP Switch

Model-No.	Item No.	Ports/Speed	Management	MAC-Address-Memory	Buffer	Backplane	Power Supply
GSW-0890	520009	8 x 10/100/1000 Mbps + 2 x SFP (shared)	WEB/CLI/Telnet	8K	144 KB	16G	internal



LevelOne Office/ Industrial PoE Switch

Model-No.	Item No.	Ports/Speed	Management	MAC-Address-Memory	Buffer	Backplane	Power Supply
FSW-0809	552809	8 x 10/100 Mbps (4+4 PoE) max. 30WPD	-	1K	768KB	1,6G	external
FSW-0822	520822	8 x 10/100 Mbps (4+4 PoE) max. 60WPD	-	1K	768KB	1,6G	internal
IES-0500	532500	4 x PoE 10/100 Mbps + 1x 10/100 Mbps	-	1K	k.A.	1,0G	external
IES-0501	532602	4 x PoE 10/100 Mbps + 1x 100FX (SC) Multi-mode	-	1K	k.A.	1,0G	external
IES-0502	532630	4 x PoE 10/100 Mbps + 1x 100FX (SC) Single-mode	-	1K	k.A.	1,0G	external

Unmanaged Switch

The ideal switch solution. High reliability, easy installation and best prices.

- full- and half-duplex mode
- auto-negotiation
- auto-uplink on all ports
- wire-speed transmission
- store-and-forward technology



GSW-2456

3-Slot Gigabit Chassis Switch

- 3 slots for SFP- or 10/100/1000T RJ45-modules
- up to 24 port gigabit fiber (SFP) / copper (RJ45)
- flexible combination of copper and fiber ports
- 9Kbyte jumbo packet support
- IEEE 802.3x Flow-Control
- store-and-forward technology
- 2 fans



MDU-2453TM



MDU-2453M



GSW-2453

LevelOne 19" Unmanaged Switch

Model-No.	Item No.	Ports	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
FSW-1610TX	524616	16 x 10/100 Mbps	8K	512 KB	3,2G	-
FSW-2410TX	524624	24 x 10/100 Mbps	8K	1536 KB	4,8G	-
GSW-2454	570570	24 x 10/100 Mbps + 2x Gigabit (RJ45)	8K	384 KB	8,8G	-
FSW-1609TFX	524517	16 x 10/100 Mbps + 1 fiber module slot	16K	512 KB	3,2G	1 x 100FX (MDU-0122FXT/MDU-0123FXC)
FSW-2409TFX	524525	24 x 10/100 Mbps + 1 fiber module slot	24K	1536 KB	4,8G	1 x 100FX (MDU-0122FXT/MDU-0123FXC)
GSW-1656	524717	16 x 10/100/1000Mbps + 4 x SFP-slot	8K	400 KB	32G	SFP
GSW-2456	524727	24 x 10/100/1000Mbps + 4 x SFP-slot	8K	400 KB	48G	SFP
GSW-2453	570760	19" chassis with 3 module slots	4K	256 KB	48G	SFP

LevelOne Modules for Unmanaged Switch

Model-No.	Item No.	Ports
MDU-0122FXT	526540	1-port fiber-module ST 100FX ST Duplex for FSW-1609/2409
MDU-0123FXC	526550	1-port fiber-module SC 100FX SC Duplex for FSW-1609/2409
MDU-2453T	570562	8-port Gigabit module 10/100/1000Mbps RJ45 for GSW-2453
MDU-2453M	570561	8-port Gigabit module for SFP fiber transceiver (GVT-0300/0301/0302)* for GSW-2453
MDU-2453TM	570563	8-port Gigabit module combo 4 x RJ45 + 4 x SFP* for GSW-2453

* for SFP-transceiver pls. see page 9

Smart Managed Switch

The LevelOne smart managed switches provide a wide variety of features. Starting with VLAN via port trunking to QoS services with DiffServ. The functions can be managed easily via web management.

- auto-uplink on all ports
- supports full/half duplex at 10/100Mbps
- supports full duplex at 1000Mbps
- wire-speed transmission
- configuration via webbrowser
- port-based VLAN
- port-based QoS
- supports IEEE802.1Q/p VLAN/QoS (GSW-2472TGX)
- supports port trunking
- supports IEEE802.3ad LACP (GSW-2472TGX)
- supports port mirroring
- ports can be configured separately
- store-and-forward technology



GSW-2472TGX

LevelOne 19" Smart Managed Fast Ethernet Switch

Model-No.	Item No.	Ports	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
GSW-2472TGX	551070	24 x 10/100Mbps + 2 x Gigabit RJ45/SFP	6K	384 KB	8,8G	2 x 1000 SX/LX/ZX
GSW-4870TGX	551048	48 x 10/100Mbps + 2 x Gigabit RJ45/SFP	8K	1536 KB	9,6G	2 x 1000 SX/LX/ZX
FSW-1670TX (PoE)	552009	16 x 10/100Mbps, davon 8 Ports mit PoE	4K	512 KB	3,2G	-



GSW-4876

LevelOne 19" Smart Managed Gigabit Ethernet Switch

Model-No.	Item No.	Ports	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
GSW-1676	551056	16 x 10/100/1000 T + 4 x SFP-Slot	4K	400 KB	32,0G	4 x 1000 SX/LX/ZX
GSW-2476	551066	24 x 10/100/1000 T + 4 x SFP-Slot	8K	400 KB	48,0G	4 x 1000 SX/LX/ZX
GSW-4876	551076	48 x 10/100/1000 T + 4 x SFP-Slot	8K	400 KB	96,0G	4 x 1000 SX/LX/ZX

LevelOne Transceiver series

Model-No.	Item No.	Ports	max. Operating Range
GVT-0300	570622	SFP Transceiver Multimode SX/LC Fiber	550m
GVT-0301	551071	SFP Transceiver Singlemode LX/LC Fiber	10km
GVT-0302	551072	SFP Transceiver Singlemode ZX/LC Fiber	70km



SFP-Transceiver

Managed Modular Switch

4-Slot Modular L2 SNMP Chassis Switch

- 3 slots for 8 port 10/100TX or 8 port 100FX modules
- 1 slot for 2 port 1000T copper or 2-port SFP module (back side)
- virtual stack management via IP-address
- supports port-based VLAN and 802.1Q VLAN
- 802.1d spanning tree for redundant backup paths
- IEEE802.1p Class of Service
- IGMP support for multimedia applications
- supports 802.3AD port trunk with LACP
- supports SNMP v.1 , v.3 network management, 4 RMON groups
- web management



MDU-2493TX

LevelOne 19" 4-Slot Modularized L2 SNMP Combo Switch

Model-No.	Item No.	Slots	Configuration	MAC-Address-Memory	Buffer Memory	Backplane
GSW-2493	570740	3	Webbrowser	8K	3 MB	8,8G

Module	Item No.	Ports	Module	Item No.	Ports
MDU-2493SXSC	570741	8-Port 100FX (SC) module, 2km	MDU-0140	570623	2-Port 1000T module
MDU-2493LXSC	570743	8-Port 100LX (SC) module, 30km	MDU-0142	570625	2-Port SFP module*
MDU-2493TX	570742	8-Port 100TX module			

* for SFP-transceiver pls. see page 9

Full Managed Switch

The LevelOne managed SNMP switches convince with their high performance and flexibility. The series is designed for the professional use in convergent networks, that combine VoIP and multimedia with the classical data network.

State-of-the-art QoS technologies (DiffServ), VLAN, PoE and virtual stack management guarantee a future secure investment.

Managed SNMP Switch

- optimized for VoIP- / video applications
- high density backplane
- IP multicast (IGMP)
- port-based bandwidth control
- IEEE802.1p Class of Service (CoS)
- Layer-4 bandwidth management on user level (GSW-2494)
- port-based VLAN/802.1Q/VLAN
- QoS with "DiffServ" (differentiated services)
- broadcast storm filter
- port security / access control
- IEEE802.1x user authentication
- supports 802.1d spanning tree protocol
- supports 802.3ad port trunk with LACP
- configuration via web management, Telnet, SNMP
- virtual stacking with up to 16x GSW2494/2693/2690/1291

Power over Ethernet (PoE):

The gigabit switches GSW-1291 and GSW-2693 support PoE according to IEEE 802.3af. Therefore devices such as access points, cameras and VoIP phones can be supplied with power via the network cable. The max. power according to standard is 15,4W per port. You can find further information about PoE devices on page 24



GSW-1291



GSW-2494



LevelOne 19" Managed SNMP Switch

Model-No.	Item No.	Ports/Speed	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
GSW-2690	570729	24 x 10/100TX + 2 x Gigabit (RJ45/SFP)	8K	384 KB	8,8G	2 x 1000 SX/LX/ZX
GSW-1291 (PoE)	570728	12 x 10/100/1000T + 2 x SFP	4K	256 KB	24G	2 x 1000 SX/LX/ZX
GSW-2693 (PoE)	570793	24 x 10/100TX + 2 x Gigabit (RJ45/SFP)	8K	256 KB	8.8G	2 x 1000 SX/LX/ZX
GSW-2494	570750	24 x 10/100/1000T + 2 x SFP	8K	256 KB	48G	2x 1000 SX/LX/ZX

Managed SNMP Copper/Fiber Combo Gigabit Switch

8x TP + 16x SFP Managed Stackable Gigabit Switch

- 24-port gigabit: 8 x 10/100/1000Mbps and 16 x SFP slots for SFP transceiver
- modules: GVT-0300/0301/0302
- jumbo frame support up to 9Kbyte
- layer 4 bandwidth management
- virtual stack management - up to 16 devices are controlled via one IP
- port-based VLAN (IEEE802.1q tag-based VLAN, up to 256 active VLANs, IEEE802.1q with GVRP/GARP)
- QoS (IEEE802.1p, 2 priority buffer, supports priority Q-in-Q-tag)

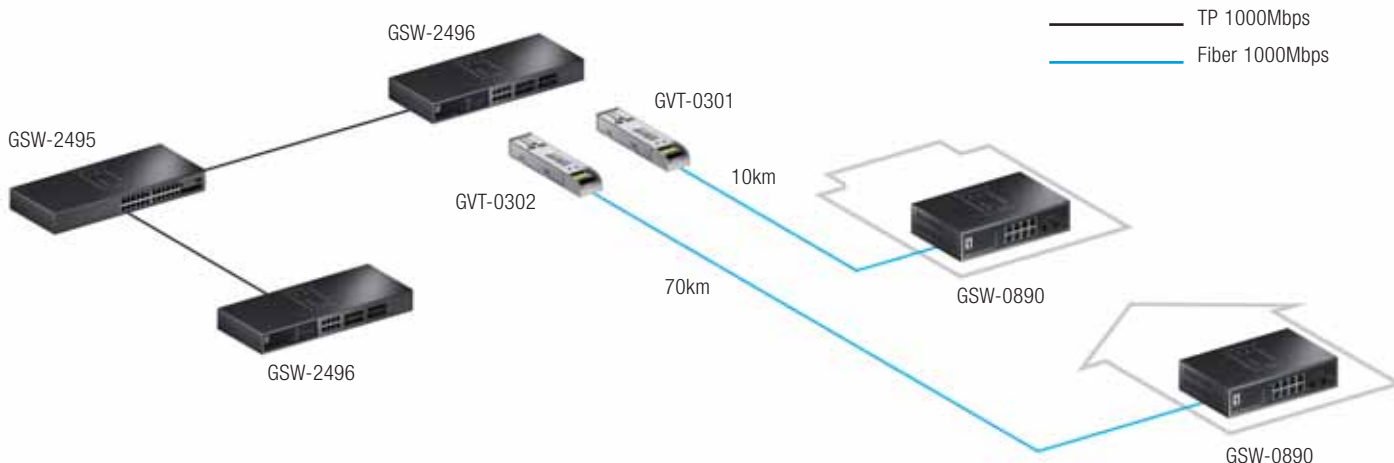
- supports layer 4 TCD/UDP port and ToS classification
- VoIP/video optimized by QoS "DiffServ" (DSCP)
- SNMP support V1, V2, V3
- spanning tree / rapid spanning tree
- port trunking (8 groups, 12 ports per group)
- port mirroring
- broadcast/multicast storm detection
- web management, Telnet, CLI (IP, RS232)



GSW-2496

LevelOne Managed SNMP Copper/Fiber Combo Switch

Model-No.	Item No.	Ports/Speed	MAC-Address-Memory	Buffer Memory	Backplane
GSW-2496	570799	8x 10/100/1000 + 16x SFP-Slots, Webbrowser/SNMP	8K	1400 KB	48G



LevelOne Transceiver Series

Model-No.	Item No.	Ports	max. Operating Range
GVT-0300	570622	SFP Transceiver Multimode SX/LC Fiber	550m
GVT-0301	551071	SFP Transceiver Singlemode LX/LC Fiber	10km
GVT-0302	551072	SFP Transceiver Singlemode ZX/LC Fiber	70km



SFP-Transceiver

Managed Stackable SNMP L2/L3 Switch

24 Port + 4G RJ45/SFP L2 SNMP Stacking Switch

- 24 x 10/100Mbps ports plus 2 gigabit ports for fiber or copper
- 2 x RJ45 stacking ports can also be used as 10/100/1000 copper ports
- complies with IEEE802.3, 802.3u, 802.3ab and 802.3z
- supports stacking of 8 devices with 4Gbps stack backplane
- supports IEEE 802.3ad LACP and static trunking, up to 4 trunks with 8 ports per group
- supports port-based, IEEE802.1Q tag based and private VLAN
- QoS function (Quality of Service) works with 4 internal queues to avoid delay of time-critical data

- IEEE802.1d and 802.1w rapid spanning tree to create a redundant security path for critical applications
- supports 802.1x access control to improve network security
- supports port mirroring, IGMP snooping, broadcast storm control

- supports Telnet, CLI, SNMP v1/v2c/v3 and webbased management
- 1 CPU fan

GSW-2692

GSW-2692



LevelOne 19" Stackable Managed SNMP Switch

Model-No.	Item No.	Ports	Configuration	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
GSW-2692	570736	24x 10/100TX + 2x Gigabit (RJ45/SFP) + 2x Stacking Port (RJ45)	WEB, Konsole, CLI, Telnet	8K	512 KB	12.8G	2 x 1000 SX/LX/ZX

20G + 4G Copper/SFP L3 Stackable Switch

- 20 ports gigabit copper + 4 combo SFP/copper
- expanded stacking architecture for up to 8 devices
- supports RIPc1/v2, OSPF, PIM-PM/SM, DVMFP, VRRP L3 routing
- supports spanning tree protocols: 802.1d/w/s
- advanced networkmanagement features: SNMPv1/v2/v3, RMON (1,2,3,9 Group) MIB
- management interface: CLI, webinterface, Telnet
- strong security functions: port security, SSL/HTTP, SSH/Secure Shell, RADIUS/RACACS+ Client

- supports port-based VLAN and 802.1Q VLAN
- supports 802.1p Class of Service
- supports optional redundant power supply
- 4 regulated fans

GSW-2495



GSW-2495

LevelOne 19" Managed Layer 3 Stackable Routing Switch

Model-No.	Item No.	Ports	Configuration	MAC-Address-Memory	Buffer Memory	Backplane	Expandable
GSW-2495	570795	20 x 10/100/1000Mbps + 4 x (RJ45/SFP)	WEB, Konsole, CLI, Telnet	16K	256 KB	88G	4 x SFP

Stacking Cable for GSW-2495

Model-No.	Item No.	Length
L3C-0030	570796	30cm
L3C-0130	570797	130cm

Redundant Power Supply for GSW-2495


Model-No.	Item No.
L3R-1000	570798

LevelOne Fast Ethernet and Gigabit Switches

Model	Compact Switches		Desktop Switches		
	 FSW-0508TX	 FSW-0808TX	 FSW-2215	 FSW-2218	 FSW-1602TX
10/100 Mbps Ports	5	8	5	8	16
10/100/1000 Mbps Ports	-	-	-	-	-
Fiber	-	-	-	-	-
Buffer Memory	48KB	96KB	128KB	96KB	512KB
MAC- Address Memory	1K	1K	1K	1K	8K
Backplane	1.0Gbps	1.6Gbps	1.0Gbps	1.6Gbps	3.2Gbps
Rack Mountable	-	-	-	-	-
Port Trunking	-	-	-	-	-
Port Mirroring	-	-	-	-	-
QoS	-	-	-	-	-
Port Based VLAN	-	-	-	-	-
PoE	-	-	-	-	-
Management	-	-	-	-	-
Fan	-	-	-	-	-
Power supply	external	external	internal	internal	external

Model	Office Switches				
	 FSW-2106	 GSW-0505	 FSW-1621	 FSW-2421	 FSW-0822
10/100 Mbps Ports	5	-	16	24	8
10/100/1000 Mbps Ports	-	4	-	-	-
Fiber	1 x 100Mbps (SC) mm	1 x SFP module slot	-	-	-
Buffer Memory	96KB	128KB	160KB	192KB	96KB
MAC- Address Memory	2K	4K	8K	8K	1K
Backplane	1.2Gbps	10Gbps	3.2Gbps	4.8Gbps	1.6Gbps
Rack Mountable	-	-	-	-	■
Port Trunking	-	-	-	-	-
Port Mirroring	-	-	-	-	-
QoS	-	-	-	-	-
VLAN	-	-	-	-	-
PoE (802.3af)	-	-	-	-	■
Management	-	-	-	-	-
Fan	-	-	-	-	-
Power supply	external	external	internal	internal	internal





Desktop Gigabit Switches

			
GSW-0506	GSW-0806	GSW-0504	GSW-0804
-	-	-	-
5	8	5	8
-	-	-	-
112KB	144KB	128KB	128KB
8K	8K	4K	4K
10Gbps	16Gbps	10Gbps	16Gbps
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
external	external	internal	internal

Office Gigabit Switches

				
GSW-1621	GSW-2420	GSW-0841	GSW-1641	GSW-2440
-	-	-	-	-
16	24	8	16	24
1 x SFP module slot	-	1 x SFP module slot	1 x SFP module slot	-
340KB	500KB	180KB	340KB	500KB
8K	8K	8K	8K	8K
32Gbps	48Gbps	16Gbps	32Gbps	48Gbps
■	■	■	■	-
-	-	■	■	■
-	-	■	■	■
-	port/tagged/DSCP	port/tagged/DSCP	port/tagged/DSCP	port/tagged/DSCP
-	-	port/tagged	port/tagged	port/tagged
-	-	-	-	-
-	-	web	web	web
■	■	■	■	■
internal	internal	internal	internal	internal

LevelOne 19" Fast Ethernet Switches



Model	Fast Ethernet Switches			
	 FSW-1610TX	 FSW-2410TX	 FSW-1609TX	 FSW-2409TX
10/100 Mbps Ports	16	24	16	24
10/100/1000 Mbps Ports	-	-	-	-
Fiber	-	-	1 x module slot 100Mbps (SC/ST) mm	1 x module slot 100Mbps (SC/ST) mm
Backplane Bandwidth	3.2Gbps	4.8Gbps	3.2Gbps	4.8Gbps
Buffer Memory	512KB	1536KB	512KB	1536KB
MAC- Address Memory	16K	24K	16K	24K
Rack Mountable	■	■	■	■
Management	-	-	-	-
PoE	-	-	-	-
Fan	-	-i	-	-
Power supply	internal	internal	internal	internal


LevelOne 19" Web Smart Switches

Model	Web Smart Switches			
	 FSW-1670TX	 GSW-2472TGX	 GSW-4870TGX	 GSW-1676
10/100 Mbps Ports	16	24	48	-
10/100/1000 Mbps Ports	-	2	2	16
Fiber	-	2 x SFP module slot	2 x SFP module slot	4 x SFP module slot
Backplane Bandwidth	3.2Gbps	8.8Gbps	13.6Gbps	32Gbps
Packet Buffer	512KB	384KB	1536KB	400KB
MAC- Address Memory	4K	6K	4K	8K
Trunking (Group/Link)	-	7	7	8
Port Mirroring	■	■	■	■
VLAN Group	-	24	26	255
QoS (Level/Queue)	■	8	■	■
Management	Web	Web	Web	Web
PoE (802.3af)	■	-	-	-
Fan	■	-	■	■
Power supply	internal	internal	internal	internal





LevelOne 19" Gigabit Switches





Gigabit Switches

			
GSW-2454	GSW-1656	GSW-2456	GSW-2453
24	16	24	-
2	4	4	-
-	-	-	-
8.8Gbps	32Gbps	48Gbps	4.8Gbps
320KB	340KB	340KB	256KB
8K	8K	8K	4K
■	■	■	■
-	-	-	-
-	-	-	-
-	■	■	■
internal	internal	internal	internal

	
GSW-2476	GSW-4876
-	-
24	48
4 x SFP module slot	4 x SFP module slot
400KB	48Gbps
8K	1,6MB
8	8K
■	10
255	■
■	4096
Web	4
-	Web
-	-
■	■
internal	internal

LevelOne 19" SNMP Switches

Model	L2/L3 SNMP Switches			
	 GSW-0890	 GSW-2690	 GSW-2693	 GSW-1291
10/100 Mbps Ports	-	24	24	-
10/100/1000 Mbps Ports	8	2	2	12
Fiber 100Mbps	2	-	-	-
Fiber 1000Mbps	-	2 shared ports (RJ45/SFP)	2 shared ports (RJ45/SFP)	2 shared ports (RJ45/SFP)
Expansion Slots w/ Optional Module	- GVT-0300: up to 550m GVT-0301: up to 10km GVT-0301: up to 70km	- GVT-0300: up to 550m GVT-0301: up to 10km GVT-0301: up to 70km	- GVT-0300: up to 550m GVT-0301: up to 10km GVT-0301: up to 70km	- GVT-0300: up to 550m GVT-0301: up to 10km GVT-0301: up to 70km
PoE (802.3af)	-	-	■	■
Backplane	16G	8.8G	8.8G	24G
Buffer Memory	144KB	384KB	256KB	384KB
MAC- Address Memory	8K	8K	8K	8K
Virtual Stack	up to 16 x GSW-2690, GSW-2494, GSW-1291 GSW-2693	up to 16 x GSW-2690, GSW-2494, GSW-1291 GSW-2693	up to 16 x GSW-2690, GSW-2494, GSW-1291 GSW-2693	up to 16 x GSW-2690, GSW-2494, GSW-1291 GSW-2693
Real Stack	-	-	-	-
Trunking - Static	4/8	6/8	6/8	6/8
Trunking LACP - 802.3ad	■	■	■	■
Port Mirroring	■	■	■	■
Spanning Tree	802.1D/w/s	802.1D/s	802.1D/w/s	802.1D/w/s
VLAN Port-based	256	256	256	256
VLAN 802.1Q - tagged	■	■	■	■
VLAN - Q-in-Q	■	-	■	■
IGMP Snooping	■	■	■	■
QoS Port-based	8/4	8/4	8/2	8/2
QoS - 802.1p	■	■	■	■
QoS - DSCP	■	■	■	■
Management	SNMP, Web, Console, Telnet	SNMP, Web, Console, Telnet	SNMP, Web, Console, Telnet	SNMP, Web, Console, Telnet
Layer 3 Routing	-	-	-	-
Security - Port-based	■	■	■	■
Security - ACL	■	■	■	■
Security - 802.1x	■	■	■	■
Security - TACACS+	-	-	-	-
Fan	■	■	■	■
Power supply	internal	internal	internal	internal

			
GSW-2494	GSW-2493	GSW-2692	GSW-2495
-	-	24	-
24	-	2 (4 without stacking)	24
-	up to 24	-	-
2	2 modular	2 shared ports (RJ45/SFP)	4 shared ports (RJ45/SFP)
-	MDU-2493SXSC: 8 x 100Mbps SC MM MDU-2493LXSC: 8 x 100Mbps SC SM MDU-2493TX: 8 x 10/100Mbps MDU-0140: 2x10/100/1000Mbps MDU-0142: 2x1000 Mbps SFP	2 x 4G Stacking	1 x 10G Uplink module
GVT-0300: up to 550m GVT-0301: up to 10km GVT-0301: up to 70km			
-	-	-	-
48G	8.8G	12.8G	108G
384KB	3072KB	512KB	256KB
8K	8K	8K	16K
up to 16 x GSW-2690, GSW-2494, GSW-1291 GSW-2693	up to 8 x GSW-2493, GSW-2491TXM	up to 8 x GSW-2692	up to 8 x GSW-2495
-	-	■	■
6/8	7/4	8/4	6/8
■	■	■	■
■	■	■	■
802.1D/s	802.1D	802.1D/w/s	802.1D/w/s
256	256	255	256
■	■	■	■
■	-	-	■
■	■	■	■
8/4	8/2	8/4	8/8
■	■	■	■
■	-	■	■
SNMP, Web, Console, Telnet	SNMP, Web, Console, Telnet	SNMP, Web, Console	SNMP, Web, Console, Telnet
-	-	-	-
■	■	■	■
■	-	■	■
■	■	■	■
-	-	■	■
■	■	■	■
internal	internal	internal	internal (optional redundant)

Media Converter

10 slot converter chassis with redundant power supply

- converters can be used separately (power supply included)
- converters are hot-swappable
- supports ethernet, fast ethernet, gigabit, singlemode fiber and multimode fiber media converters
- standard 19" design
- compatible converters: FVT-4001, FVT-4002, FVT-4301, GVT-4000, GVT-4001
- converters can be used as 'stand-alone' (power supply included)

FVT-4000



FVT-4000



GVT-4000



FVT-4001/4301



GVT-4001

LevelOne converter series

Model-No.	Item No.	Ports	max. Operating Range	installable in FVT-4000
FVT-4000	531410	10 slot media converter chassis, redundant power supply	-	-
FVT-4001	531063	10/100Base-TX on 100FX converter SC multimode	2km	■
FVT-4002	531052	10/100Base-TX on 100FX converter ST multimode	2km	■
FVT-4301	531071	10/100Base-TX on 100FX converter SC singlemode	30km	■
GVT-4000	531404	10/100/1000Base-T on SFP converter	550m/10km/70km	■
GVT-4001	531402	10/100/1000Base-T on 1000SX converter SC multimode	550m	■
FVT-0103TXFC	530063	100TX on 100FX PoE converter (PD) SC multimode*	2km	-
FVT-0104TXFC	530053	100TX on 100FX PoE converter (PD) SC singlemode*	20km	-
FVT-0203TXFC	530023	100TX on 100FX converter with PoE Injector (PSE) SC multimode*	2km	-
FVT-0204TXFC	530024	100TX on 100FX converter with PoE Injector (PSE) SC singlemode*	20km	-
GVT-1000	530404	standalone converter 1000T to SFP (miniGBIC)	550m/10km/70km	

*pls. see page 22 for details concerning PoE-converters

LevelOne transceiver series

Model-No.	Item No.	Ports	max. Operating Range
GVT-0300	570622	SFP transceiver multimode SX/LC fiber	550m
GVT-0301	551071	SFP transceiver singlemode LX/LC fiber	10km
GVT-0302	551072	SFP transceiver singlemode ZX/LC fiber	70km



SFP-Transceiver

Managed Media Converter

managed converter chassis with redundant power supply

- provides 16 slots and one redundant power supply
- converter modules are hot-swappable
- provides status control and management via SNMP for power, fan and mediaconverter
- configuration and status control of the converter and modules via console, Telnet, web and SNMP interface
- supports link loss forwarding technology
- supports TS-1000 for 10/100 modules
- web management
- 19" standard design

FVT-5000



FVT-5000



FVT-5001



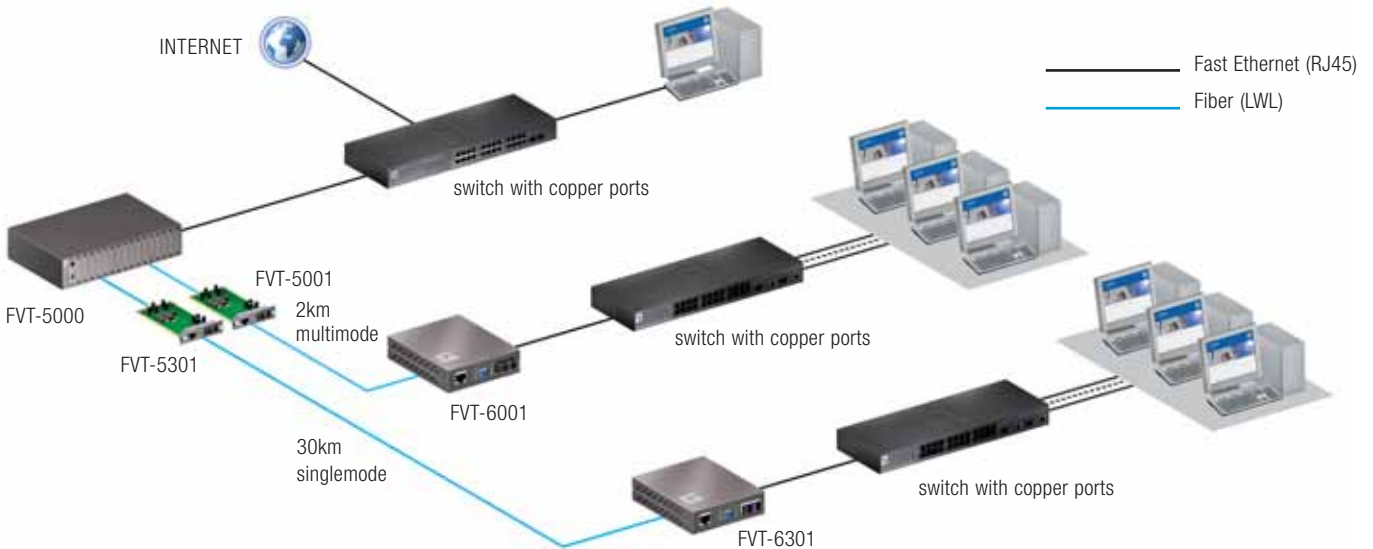
GVT-0300



GVT-5000



FVT-6001/6301



Managed "stand-alone" converter

- 10/100Mbps copper/RJ45 to 100FX fiber SC media converter
- up to 2km operating range with multimode fiber (FVT-6001)
- up to 30km operating range with singlemode fiber (FVT-6301)
- manageable stand-alone solution alternative to FVT-5000
- hot swappable: installable in converter chassis FVT-4000

- supports 10/100Mbps auto-negotiation and auto-uplink on copper side
- integrated link loss forwarding technology
- power supply included

FVT-6001/6301

LevelOne managed converter series

Model-No.	Item No.	Ports	max. operating range	installable in
FVT-5000	532000	19" converter chassis 16-Slot, redundant power supply	-	-
FVT-5001	532502	10/100Base-TX to 100Base-FX converter module SC multimode	2km	FVT-5000
FVT-5301	532530	10/100Base-TX to 100Base-FX converter module SC singlemode	30km	FVT-5000
GVT-5000	532500	10/100/1000Base-T to SFP converter module	550m/10km/70km	FVT-5000
FVT-6001	532602	10/100Base-TX to 100Base-FX converter SC multimode	2km	FVT-4000
FVT-6301	532630	10/100Base-TX to 100Base-FX converter SC singlemode	30km	FVT-4000

PoE LAN Media Converter

PoE Converter

- 10/100Base-TX to 100Base-FX fiber media conversion
- receives power from PoE-switch/injector
- power supply via IEEE802.3af PoE PSE
- supports LFP (Link Fault Passthrough) and Far End Fault
- optional power supply (not included)

FVT-0103

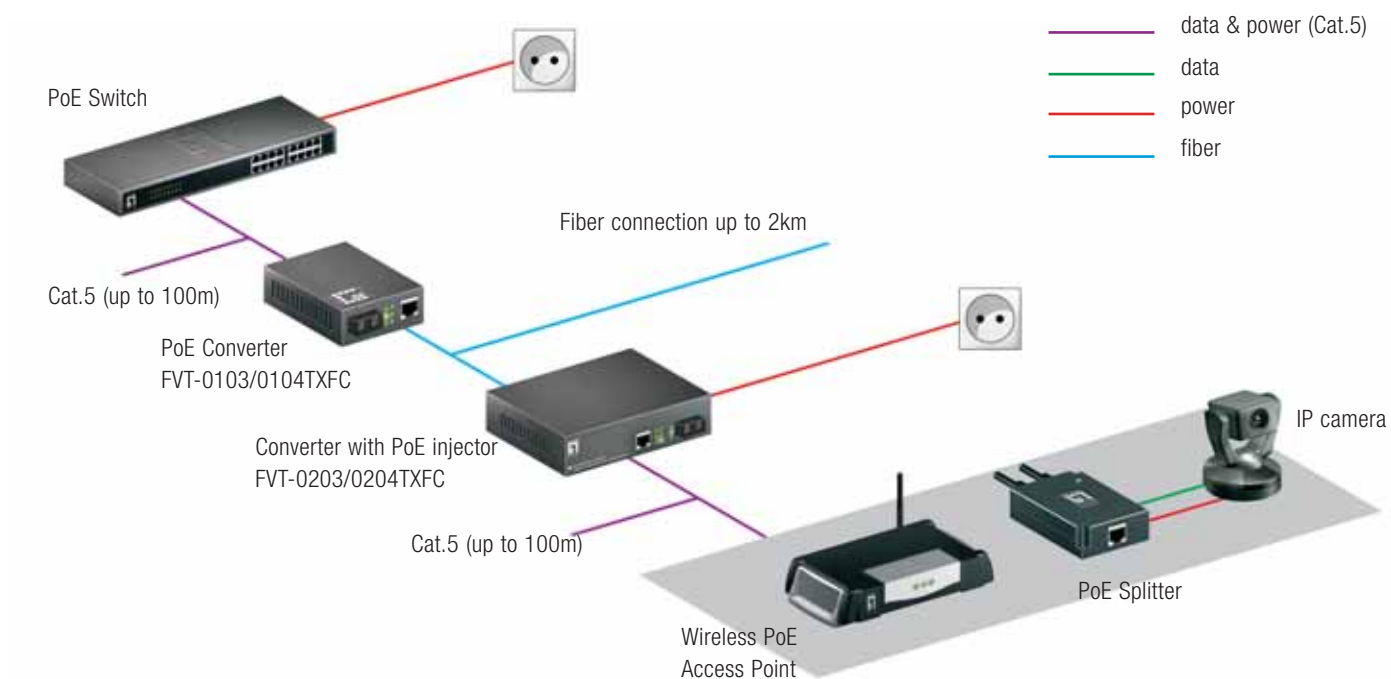
FVT-0104

Converter with PoE-injector

- 10/100Base-TX to 100Base-FX converter
- supplies PoE capable devices with power via ethernet cable
- complies with IEEE 802.3af PoE PSE (Power Sourcing Equipment) standard
- supports LFP (Link Fault Passthrough) and far end fault

FVT-0203TXFC

FVT-0204TXFC



LevelOne PoE LAN Converter series

Model-No.	Item No.	Ports	max. Operating Range
FVT-0103TXFC	530063	100TX to 100FX PoE converter (PD) SC multimode	2km
FVT-0104TXFC	530053	100TX to 100FX PoE converter (PD) SC singlemode	20km
FVT-0203TXFC	530023	100TX to 100FX converter with PoE injector (PSE) SC multimode	2km
FVT-0204TXFC	530024	100TX to 100FX converter with PoE injector (PSE) SC singlemode	20km

PoE LAN Adapter

PoE Splitter

- complies with IEEE802.3af PoE standard
- extends networking devices with PoE function
- provides standard voltage range of 5V, 7.5V and 12V
- compatible with network camera, printer server, access point, converter, etc.

POS-1000



PoE injector

- complies with IEEE802.3af Power over Ethernet
- power supply and data transmission via ethernet cable
- high security via overvoltage protection
- power supply up to a distance of 100m

POI-2000



PoE combi set

- Consists of POS-1000 and POI-2000

PIS-3000



LevelOne PoE LAN - Adapter

Model-No.	Item No.	Function
POS-1000	552001	PoE splitter 1x RJ45-jack, 1x RJ45 plug + power connection
POI-2000	552002	1 port PoE injector (1x data in, 1x data out) for 5V, 7.5V, 12V

PoE LAN Midspan Hub

LevelOne MidSpan hubs supply PoE compatible devices like network cameras, access points and VoIP phones with power. Power supply and data transfer are both realized via ethernet cable so that PoE compatible devices are independent from the distance to an outlet.

8-Port PoE Midspan Hub

- complies with IEEE802.3af Power over Ethernet
- 8 ports to switches of any manufacturer
- 8 ports to PoE devices oder PoE splitters
- supports max. PSE performance (15.4W, class 0) on all ports
- utility for power management
- 19" design, 1 U

POH-0850TX



24-Port PoE Midspan Hub

- complies with IEEE802.3af Power over Ethernet
- 24 ports to switches of any manufacturer
- 24 ports to PoE devices or PoE splitters
- detailed power management via web interface
- 19" design, 1 U

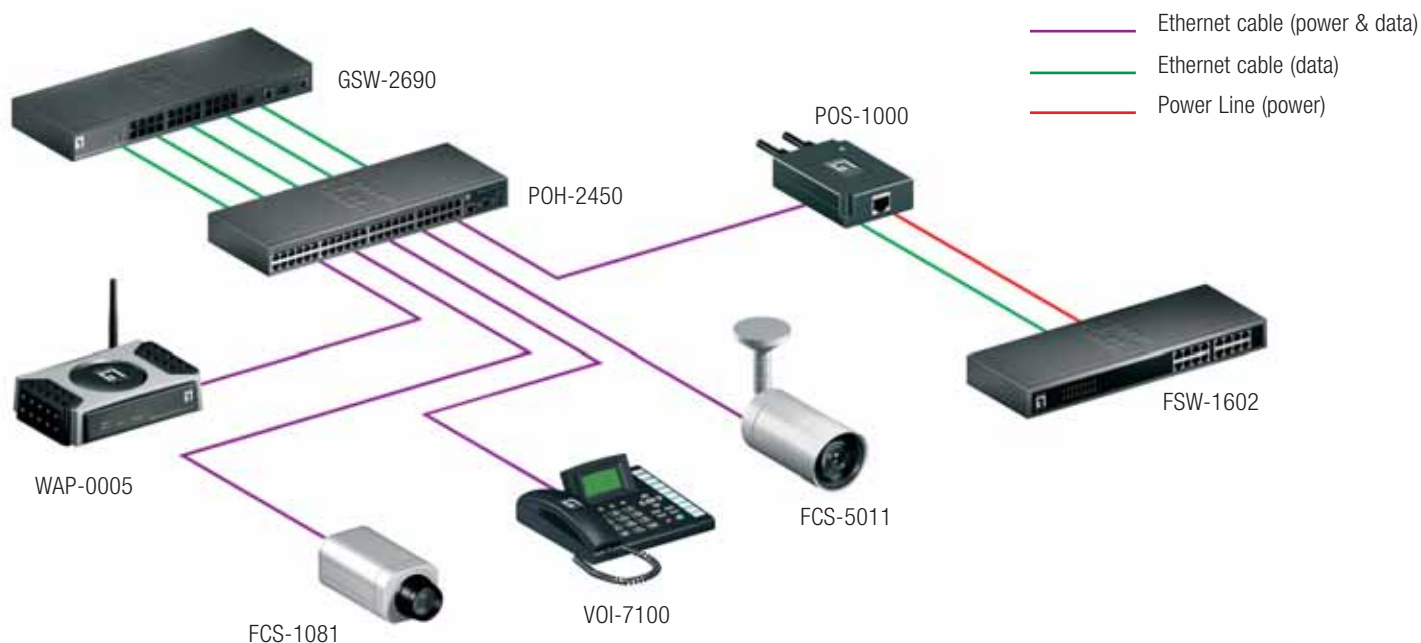
POH-2450



LevelOne PoE LAN - 19" Midspan Hub

Model-No.	Item No.	Function
POH-0850TX	552008	8 port PoE injector 19"- midspan hub (8x data IN, 8x data OUT)
POH-2450	552024	24 port PoE injector 19" - midspan hub (24x data IN, 24x data OUT)

PoE LAN - Power over Ethernet



PoE Switches

Model-No.	Item No.	Function	please see page
FSW-0809	552809	PoE switch 8x 10/100Mbps, thereof 4x PoE ports (max. 30W PD)	7
FSW-0822	520822	PoE switch 8x10/100Mbps, thereof 4xPoE ports (max. 60W PD)	7
FSW-1670	552009	PoE switch (websmart) 16x 10/100Mbps with 8x PoE ports	9
GSW-1291	570728	PoE SNMP switch 12x 10/100/1000Mbps + 2x SFP (for GVT-0300/0301/0302)	11
GSW-2693	570793	PoE SNMP switch 24x 10/100Mbps + 2x gigabit (SFP/RJ45)	11

PoE Wireless Access Points

WAP-0005	540524	PoE professional access point 108Mbps	36
WAP-0009	540518	PoE access point 54Mbps	36
WAP-1001	540529	PoE outdoor access point 11b/g (2,4GHz)	36
WAB-4000	540600	PoE outdoor bridge 11a (5GHz)	41

PoE Network Cameras

FCS-1081	571081	PoE indoor network camera (outdoor with BOH-1000)	46
FCS-5011	511071	PoE indoor day/night network camera with IR	46

VoIP Phone

VOI-7100	511071	PoE VoIP SIP desk phone	65
----------	--------	-------------------------	----

Broadband Router

Broadband Router

- integrated 4 port fast ethernet switch: 10/100Mbps MDI/MDIX auto-detection
- provides a 10/100Mbps WAN interface for the connection to DSL or cable modem with one broadband internet access
- integrated NAT function: common use of one internet connection by several PCs
- Web management for configuration and administration: easy configuration independent from operating system
- integrated firewall to protect your network
- VPN support: passthrough at PPTP, L2TP and IPsec
- easy update: use of web management or windows application to update with a new firmware

FBR-1418TX



FBR-1418TX

LevelOne Broadband Router

Model-No.	Item No.	Function
FBR-1418TX	560154	Broadband router with firewall and 4-port switch

VPN Broadband Router

- integrated 4 port fast ethernet switch and one DMZ port
- provides a 10/100mbps interface for the connection with DSL- or cablemodem with broadband internet access
- integrated NAT function: common use of one internet connection by several PCs
- integrated firewall to protect your network
- supports VPN: PPTP and IPsec
- supports 10 VPN tunnel
- web management for configuration and administration: operating system independent and easy user installation

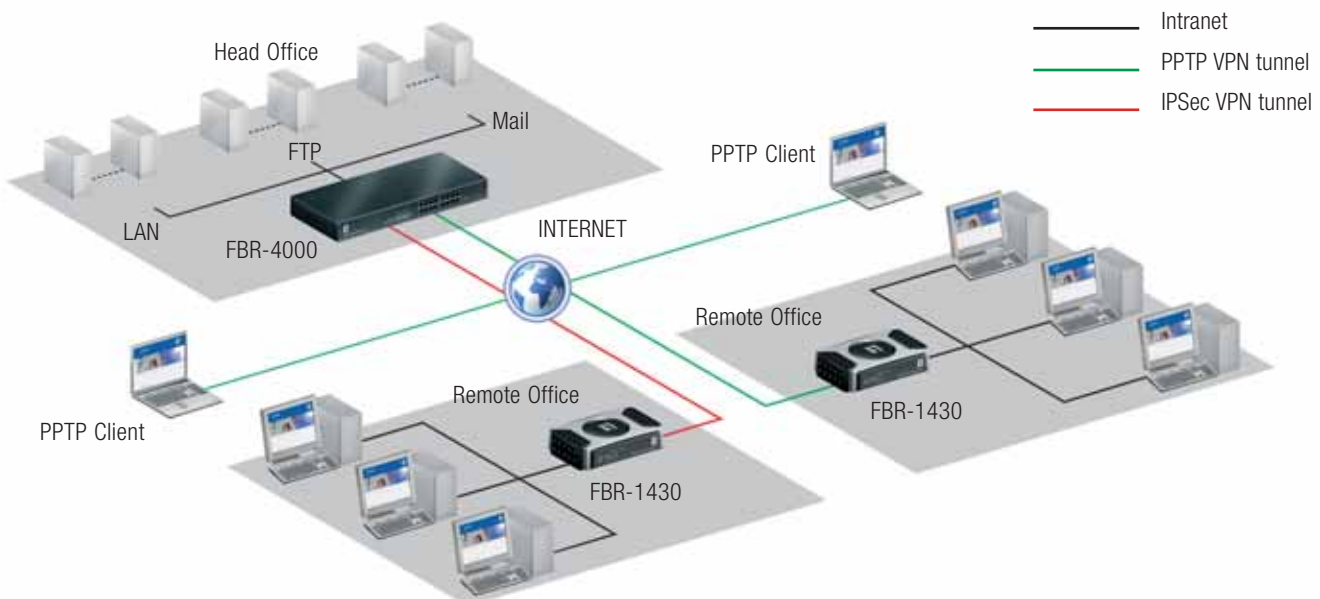
FBR-1430



FBR-1430

LevelOne VPN Broadband Router

Model-No.	Item No.	Function
FBR-1430	560160	VPN broadband router with firewall and 4-port switch



Load Balancing Firewall Router

2-WAN VPN Router

- continuous operation via 2 WAN ports with traffic load balance and automatic loss security
- enables virtual private networks (VPNs) with up to 70 tunnels, hardware-based DES, 3DES IP-Sec and 256bit AES encoding
- Intel IXP422 CPU, 64MB DRAM
- supports QoS and broadband management at high performance for critical applications
- supports firewall functionality for safe data connections
- supports URL blockfiltering as well as port and service blocking for additional security
- multi-DMZ with up to 7 DMZ IPs
- Quality of Service
- configuration and administration via webbrowser

FBR-2500



LevelOne 2-WAN Load Balancing Firewall Router

Model-No.	Item No.	Function
FBR-2500	560250	2-WAN Load Balancing Router with VPN server, 7x virtual DMZ and 4-port switch

4- WAN VPN Router

- continuous operation via 4 WAN links with traffic load balance and automatic loss security
- 2 dedicated DMZ ports, ten 10/100mbps LAN ports
- enables virtual private networks (VPNs) with up to 40 tunnels, hardware-based DES, 3DES IP-Sec and 256bit AES encoding
- supports QoS and broadband management at high performance for critical applications
- supports URL blockfiltering as well as port and service blocking for additional security
- configuration via web management
- extended NAT functions as DMT, DDNS, virtual servers, SNMP and ARP proxy
- 5 access filters for LAN user
- supports up to 80000 simultaneous sessions
- CAVIUM NITROX 166MHz CPU
- 32MB RAM / 2MB ROM

FBR-4000



LevelOne 4-WAN Load Balancing Firewall Router

Model-No.	Item No.	Function
FBR-4000	560400	4-WAN Load Balancing Router with firewall, VPN server, 2x DMZ and 10-port switch

Access Controller / Access Point Manager

AMG-2000 is a (W)LAN access manager that combines basically four different functions:

Broadbandrouter, access control, central access point management and an accounting system.

2 WAN ports create a failsafe internet connection. LevelOne AMG-2000 controls LAN user-access with the help of a user-account and a password.

You can configure different user groups with individual access authorization (private/public net). 50-120 user can work with the system at the same time.

WLAN access management enables the central configuration and administration of 12 access points (WAP-0006/WAP-0009).

Because of the integrated time- and volumebased accounting system you can configure a commercial wireless LAN (hotels, restaurants).

Access Controller / Internet Gateway

- provides administration of the entire LAN and wireless LAN from one fixed point
- integrated router with 2 WAN-ports incl. fail-over function
- integrated billing profiles for on-demand customers to calculate according to time and volume (AAA)

- supports 500 local accounts, 2000 on-demand accounts for up to 120 users at the same time
- supports login portal and homepage forwarding
- ideal for hot spots, hotels and restaurants

Central Access Point Manager

- security / configuration settings of the WAP-0006/0009 will be set via the AMG-2000
- saves and copies the configuration of the APs
- transfers settings fast and easy to new installed APs
- extensive security functions incl. WEP, WPA, WPA-PSK and IEEE802.11x
- supports up to 12x WAP-0006/0009



AMG-2000



LevelOne Access Controller / Access Point Manager

Model-No.	Item No.	Function	Ports
AMG-2000	540200	Access Controller and AP Manager	RJ45: 2x WAN, 5x LAN (4x public/1x private)

Wireless Broadband Router

Wireless Broadband Router with QoS

- integrated 4 port fast ethernet switch: 10/100mbps MDI-MDI-X auto-sensing
- 10/100mbps WAN interface for connection of a DSL or cable modem for broadband internet access
- internal NAT function: allows several PCs and devices to share one internet connection
- web management for configuration and administration
- supports IEEE802.11b and 802.11g wireless connections up to 54mbps (802.11g)
- provides ideal roaming within IEEE802.11b/g WLAN infrastructure
- supports WEP, WPA and WPA2 encryption
- supports Quality of Service: complete control of exiting data traffic
- detachable antenna

WBR-3408



WBR-3408

LevelOne Wireless Broadband Router

Model-No.	Item No.	Function
WBR-3408	540558	Wireless QoS router with firewall and 4-port switch

Wireless Broadband Router 108Mbps

- IEEE802.11g wireless AP
- data transmission rate up to 108mbps
- complies with 802.11b
- for connection of a DSL/-cable modem
- 4 port switch
- NAT/NAPT (network address port translation)
- PPPoE & PPTP support
- Dial-on-demand and auto disconnect for PPPoE
- DHCP server / client
- web management
- firmware upgrade via HTTP, TFTP
- stateful packet inspection firewall protects against DoS (Denial of Service) attacks
- logs and e-mail alerts
- access control
- UPnP (universal plug-and-play) support
- ALGs (application layer gateways) and special application DMZ / multi-DMZ
- dynamic DNS
- virtual servers (port forwarding)

WBR-3405TX



WBR-3405

LevelOne Wireless Broadband Router 108 Mbps

Model-No.	Item No.	Function
WBR-3405TX	540545	Wireless Router 108mbps with firewall and 4-port switch

MIMO-XR Wireless Broadband Router

- complies with IEEE802.11b/g standard
- wider operating range, less blind spots and higher data transfer rate with MIMO technology
- supports wireless security with 64/128bit WEP, WPA (TKIP with IEEE(802.1x) and WPA2 (AES with 802.1x)
- 4 port switch
- extended QoS multimedia support WMM (IEEE802.1e)
- supports DDNS, UPNP, DMZ, port forwarding
- security via SPI firewall and access control

WBR-5400



WBR-5400

LevelOne Wireless MIMO-XR Router

Model-No.	Item No.	Function
WBR-5400	540554	Wireless MIMO-XR Router with 4 port switch

Wireless Internet Starter Kit

Wireless Internet Starter Kit WSK-1000

- consists of router WBR-3408 and USB dongle WNC-0305USB

WBR-3408:

- integrated 4 port fast ethernet switch: 10/100Mbps MDI/MDI-X auto-sensing
- provides 10/100Mbps WAN interface for connection of a DSL or cable modem for broadband internet connection
- internal NAT function: allows several PCs and devices to share one internet connection
- web-manangement for configuration and administration

- supports IEEE802.11b/g wireless connections with up to 54Mbps data transfer rate at 802.11g mode
- provides local roaming within IEEE802.11b/g WLAN infrastructure
- supports WEP and WPA/WPA2 encryption
- supports Quality of Service (QoS): Complete control of exiting data traffic

WNC-0305USB:

- supports USB 1.0, 1.1 and 2.0
- Features pls. see page 39

WSK-1000



LevelOne Wireless Internet Starter Kit

Model-No.	Item No.	Function
WSK-1000	540581	Wireless Internet Starter Kit WBR-3408 + WNC-0305USB

Wireless *N_One* Broadband Router 300Mbps

Wireless Broadband Router

- 4 x LAN 10/100Mbps ports, 1x WAN port for connection to an ADSL modem
- compatible with 2.4Ghz draft 802.11n and downwards compatible to 54Mbps 802.11b/g
- security with 64/128bit WEP, WPA-PSK, WPA2-PSK encryption
- high-speed wireless LAN with up to 300Mbps
- QoS: optimized data flow for multimedia data
- wider operating range and higher data transmission rate by MIMO technology
- data security by configurable Anti-DoS firewall (SPI) and MAC-address filtering
- supports DDNS (DynDNS, TZO), VPN pass through
- DHCP server, special applications, virtual server / DMZ
- supports PPPoE / static IP / PPTP / DHCP
- web management, system status, security log

WBR-6000



LevelOne Wireless *N_One* 300Mbps (Draft-N)

Model-No.	Item No.	Speed	Function
WBR-6000	540564	11/54/144/300Mbps	Wireless <i>N_One</i> Broadband Router with 4-port switch
WNC-0600	540561	11/54/144/300Mbps	Wireless <i>N_One</i> PCI adapter
WPC-0600	540560	11/54/144/300Mbps	Wireless <i>N_One</i> Cardbus adapter
WNC-0600USB	540567	11/54/144/300Mbps	Wireless <i>N_One</i> USB adapter

ADSL 2/2+ Modem Router

ADSL 2/2+ Modem Router

- integrated ADSL2/2+ modem
- ports: 1x WAN, 1x LAN + 1x USB for direct connection to a PC
- downwards compatible to ADSL
- security by firewall with DoS recognition
- dynamic domain name system (DDNS)
- supports virtual private network (VPN) pass through
- easy installation via USB-connection and installation CD



FBR-1161

LevelOne ADSL2+ Modem Router 1W 1L 1USB

Model-No.	Item No.	ANNEX Mode	Function
FBR-1161A	560159	Annex A	Modem Router with USB and LAN for connection to a PC
FBR-1161B	560162	Annex B	Modem Router with USB and LAN for connection to a PC

ADSL 2/2+ QoS Modem Router

ADSL 2/2+ QoS Modem Router

- ports: 1x WAN, 4x LAN
- downwards compatible to ADSL
- firewall with DoS recognition and SPI
- easy Sign-On (EZSO) web management
- automatic QoS with differentiated services
- Quality of Service (QoS) for data prioritisation and bandwidth management
- Dynamic domain name system (DDNS)
- supports virtual private network (VPN) pass through



FBR-1461

LevelOne ADSL 2/2+ Modem Router

Model-No.	Item No.	ANNEX Mode	Function
FBR-1461A	560161	Annex A	Modem Router with 4-port switch, firewall and "Easy Sign-On" for simple installation
FBR-1461B	560163	Annex B	Modem Router with 4-port switch, firewall and "Easy Sign-On" for simple installation

VoIP Wireless Modem Router with WLAN

- 2x FXS ports (RJ11) to connect analog phones
- 1x FXO port to connect to conventional telephone network
- compatible with SIP (RFC3261) and supports communication codecs G.711, G.723.1 and 729.ab
- supports calling features like call waiting, call transfer (attended), call forward (busy / no answer / unconditional), call hold/retrieve, caller ID display/blocking, anonymous call blocking
- integrated ADSL2/2+ modem and router function for common internet use
- 54mbps wireless 802.11b/g with up to date WPA-PSK/WPA2-PSK encryption
- security via SPI firewall with Anti-DoS
- QoS to optimize data transmission and bandwidth control
- Easy Sign-On (EZSO) technology for user friendly installation
- virtual private network (VPN) pass-through, DDNS, virtual server, etc.
- detachable antenna

WBR-3470



WBR-3470

LevelOne VoIP Wireless Modem Router

Model-No.	Item No.	Function/Connections
WBR-3470A	540565	Annex A: Wireless VoIP Modem Router with 2x FXS, 1x FXO, 1x ADSL, 4x LAN
WBR-3470B	540566	Annex B: Wireless VoIP Modem Router with 2x FXS, 1x FXO, 1x ADSL, 4x LAN

ADSL 2/2+ Wireless Modem Router

Wireless ADSL Modem Router 2/2+

- ports: 1x WAN, 4x LAN
- downwards compatible to ADSL
- firewall with DoS recognition and SPI
- supports PPPoE, IPoA and PPPoA
- supports DDNS, DHCP and UPnP
- URL-filter, access control, local password
- virtual server (port forwarding)
- complies with IEEE802.11b/g for wireless lan
- encoding with WEP 64/128bit, WPA-PSK and WPA2
- frequency band: 2.412 ~2.484ghz
- detachable antenna



WBR-3460

LevelOne Wireless ADSL 2/2+ Modem Router

Model-No.	Item No.	ANNEX Mode	VPN	Wireless
WBR-3460A	560161	Annex A	8 tunnel (IPsec)	54Mbps
WBR-3460B	560163	Annex B	8 tunnel (IPsec)	54Mbps

Wireless ADSL/2+ Starter Kit

- consists of router WBR-3460 and USB dongle WNC-0305USB
- **WBR-3460:**
 - ports: 1x WAN, 4x LAN
 - downwards compatible to ADSL
 - firewall with DoS recognition and SPI
 - supports PPPoE, IPoA and PPPoA
 - supports DDNS, DHCP and UPnP
 - URL-filter, access control, local password
 - virtual server (port forwarding)
- complies with IEEE802.11b/g for wireless lan
- encoding with WEP 64/128bit, WPA-PSK and WPA2
- frequency band: 2.412 ~2.484ghz
- detachable antenna
- **WNC-0305USB:**
 - supports USB 1.0 / 1.1 and 2.0







WSK-2000

LevelOne Wireless ADSL Starter Kit

Model-No.	Item No.	Annex	Function
WSK-2000 A	540583	Annex A:	Wireless ADSL Starter Kit WBR-3460A + WNC-0305USB
WSK-2000 B	540584	Annex B:	Wireless ADSL Starter Kit WBR-3460B + WNC-0305USB

LevelOne Broadband/ ADSL Router

Functions	Modell	Broadband Router		Wireless Broadband Router	
		 FBR-1418TX	 FBR-1430	 WBR-3405	 WBR-3408
Network Interface	WAN (10/100Mbps, RJ45)	1	1	1	1
	LAN Port (10/100Mbps, RJ45)	4	4	4	4
	WLAN	-	-	108Mbps	54Mbps
	ADSL2+Annex A/B	-	-	-	-
Wireless Security	WEP (64/128-bit)	-	-	■	■
	WPA-PSK/WPA2-PSK	-	-	WPA-PSK	■
	802.1x	-	-	■	-
VPN Functions	NAT	■	■	■	■
	VPN Pass Trough	■	■	■	■
	VPN (IPSec)	-	■	-	-
	PPTP	-	■	-	-
Firewall Functions	Access Control	■	■	■	■
	Content/IP packet based Filtering	■	■	■	■
	Stateful Packet Inspection	■	■	■	■
	DoS/Hacker Attack Logging	■	■	■	■
Network Features	DHCP Server	■	■	■	■
	DDNS	■	■	■	■
	DMZ Host	■	■	■	■
	Virtual Server	■	■	■	■
	UPnP	■	■	■	■
	QoS	-	-	-	■
Management Functions	SNMP	■	-	■	■
	Web management	■	■	■	■

Wireless *N_One* 300Mbps

LevelOne presents wireless generation *N_One* which supports data transfer rates up to 300Mbps. The new wireless LAN standard guarantees high bandwidth, especially for video and music. It is backwards compatible to the old ones 802.11b/g.

Advanced MIMO technology creates in combination with QoS stable and high-performanced connections - perfect for Wireless IPTV (HD-quality), VoIP, E-Commerce and online-gaming.

300Mbps Wireless *N_One* Router (Draft-N)

- 4 x LAN 10/100Mbps ports, 1x WAN port for connection to an ADSL modem
- compatible with 2.4GHz Draft 802.11n and downwards compatible to 54Mbps 802.11b/g
- security with 64/128bit WEP, WPA-PSK, WPA2-PSK encryption
- high-speed Wireless LAN up to 300Mbps
- QoS: optimized data flow for multimedia data
- wider operating range, less blind spots and higher data transmission rate with MIMO technology
- data security with configurable Anti-DoS firewall (SPI) and MAC-address filtering
- supports DDNS (DynDNS, TZO), VPN pass through
- DHCP server, special applications, virtual server / DMZ
- supports PPPoE / static IP / PPTP / DHCP
- web-management, system status, security log

WBR-6000

300Mbps Wireless *N_One* Adapter (Draft-N)

- compatible with 2.4GHz Draft 802.11n and downwards compatible to 54Mbps 802.11b/g
- wider operating range, less blind spots and higher data transmission rate with MIMO technology
- supports CCX 2.0 (Cisco Compatible Extensions) for signal monitoring and fast roaming
- supports wireless security with 64/128bit WEP, WPA (TKIP with IEEE802.1x) and WPA2 (AES with 802.1x)
- supports WMM (IEEE802.1e QoS standard), extended multimedia support
- plug-and-play installation

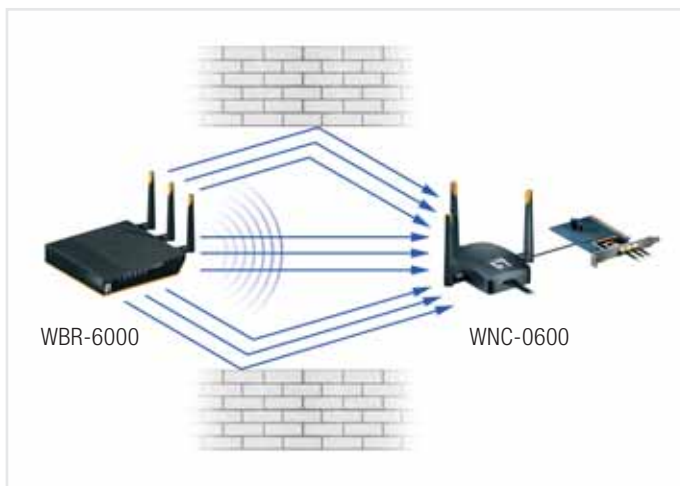
WNC-0600/WPC-0600/WNC-0600USB



WNC-0600



WPC-0600



WBR-6000

WNC-0600



WBR-6000

LevelOne Wireless *N_One* 300Mbps (Draft-N)

Model-No.	Item No.	Speed	Function
WBR-6000	540564	11/54/144/300Mbps	<i>N_One</i> 300Mbps Wireless Broadband Router
WGR-6000	540568	11/54/144/300Mbps	<i>N_One</i> 300Mbps Wireless Gigabit Router
WAP-6000	540569	11/54/144/300Mbps	<i>N_One</i> 300Mbps Access Point
WNC-0600	540561	11/54/144/300Mbps	<i>N_One</i> Wireless PCI adapter
WPC-0600	540560	11/54/144/300Mbps	<i>N_One</i> Wireless Cardbus adapter
WNC-0600USB	540567	11/54/144/300Mbps	<i>N_One</i> Wireless USB adapter

Wireless Indoor Access Point

MIMO-XR Wireless Access Point

- complies with IEEE802.11b/g
- web management
- integrated 4 port fast ethernet switch: 10/100mbps MDI/MDIX auto-sensing
- provides stable data transmission and improved wireless operating range
- decreases blind spots and provides stable connections
- high quality roaming within IEEE802.11b/g WLAN infrastructure
- supports 64/128bit WEP, WPA, WPA2, 802.1X RADIUS encryption
- integrated MIMO-MRC technology for increased radio operating range
- supports AP, WDS and hybrid operating mode

WAP-0010



WAP-0010

LevelOne MIMO-XR Wireless Access Point

Model-No.	Item No.	Function	Extras
WAP-0010	540555	MIMO Access Point with extended operating range	multimedia support, 4 port switch

Wireless Access Point Storage 3,5"

- integration possibility for one 3,5" SATA/IDD HDD
- data transmission rate up to 54Mbps
- 2 x USB high speed connections for external mass memory devices
- integrated FTP server function
- integrated download manager for http and ftp
- complies with wireless LAN standards IEEE802.11b/g (DSSS) 2.4Ghz
- wireless security via up to date WEP/WPA encryption
- provides wireless client, AP, WDS and hybrid WDS operating mode for simultaneous operating as AP and bridge or AP and AP client
- Network connection 1 x 10/100mbps (RJ45)
- easy access via network environment in Windows or Samba from a Linux operating system

WAP-0008



WAP-0008

LevelOne Wireless Access Point Storage 3.5"

Model-No.	Item No.	Function
WAP-0008	540538	Wireless Storage Access Point with integration possibility for one 3,5" SATA/IDE HDD

Wireless Access Point Storage 2,5"

- integration possibility for one 2,5" IDE HDD
- 2 x USB high speed USB 2.0 ports
- easy access via network environment in Windows or Samba from a Linux operating system
- backup of USB memory devices per button click
- high data transfer rate up to 54Mbps
- complies with IEEE802.11b/g WLAN standards
- provides wireless client, AP, WDS, and hybrid WDS operating mode
- wireless security via 64/128bit WEP and WPA-PSK encryption
- detachable antenna

WAP-0007



WAP-0007

LevelOne Wireless Access Point Storage 2.5"

Model-No.	Item No.	Function
WAP-0007	540528	Wireless Storage Access Point with integration possibility for one 2,5" IDE HDD



Wireless Indoor Access Point

54Mbps Access Point

- high data transmission rate up to 54Mbps
- complies with IEEE802.11b/g (DSSS) 2.4GHz
- network connection 1 x 10/100Mbps (RJ45)
- complies with IEEE802.3af PoE PD standard (WAP-0009)
- automatic speed control in case of disturbances
- security by up to date encryption WEP (64/128bit) / WPA (802.1x,TKIP)
- works as access point, repeater, bridge and AP client
- supports WDS (wireless distributed system)
- detachable antenna
- up to 12x WAP-0006/0009 can be controlled via the AMG-2000 (page 27)

WAP-0006/0009



WAP-0006/0009

108 Mbps Access Point

- complies with IEEE802.11b/g
- data transmission rate 54Mbps (up to 108Mbps with SuperG) for 802.11g and 11Mbps for 802.11b (gross data rate)
- downwards compatible to 11Mbps devices of 802.11b standard
- security via WEP, WPA and 802.1x (RADIUS)
- operates in 2.412 ~ 2.484GHz frequency band
- web management and setup utility for easy installation
- detachable antenna

WAP-0003



WAP-0003

Professional 108Mbps PoE Access Point

- complies with IEEE802.11b/g
- authentication/encryption: EAP-TLS, EAP-TTLS, EAP-MD5, PEAP, WPA, WPA-PSK, AES, 802.1x (RADIUS), 64/128bit WEP
- supports 8 security profiles (4 simultaneously active)
- multiple SSID / multiple SSID isolation
- VLAN according to IEEE802.1Q
- security / restoring of the configuration
- supports accounting and automatic detachment at the end of the session or idle time (universal access method)
- supports wireless separation (WLAN frequency separation)
- WDS mode for simultaneous operation as AP and bridge or repeater
- power supply via PoE according to 802.3af or by included power supply
- detachable antenna

WAP-0005



WAP-0005

108Mbps In-/Outdoor Access Point

- complies with 802.11b/g
- compact design with integrated 12dBi antenna
- angle: 45° / 40° (horizontal/vertical)
- easy installation through compact design
- dust and water protected according to IP66
- power supply via PoE (802.3af)
- PoE injector included
- supports access point, point-to-point, point-to-multipoint bridge and repeater mode
- security 64/128/152bit WEP, WPA and WPA-PSK encryption
- operating temperature: -20°C ~ +70°C
- dimensions: L106 / W61 / H186 (mm)

WAP-1001



WAP-1001

LevelOne Wireless Access Point

Model-No.	Item No.	Speed	Function	Port
WAP-0006	540519	11/54Mbps	Access Point, Client, Bridge, Repeater (WDS)	1 x 10/100Mbps
WAP-0009	540518	11/54Mbps	PoE Access Point, Client, Bridge, Repeater (WDS)	1 x 10/100Mbps
WAP-0003	540513	11/54/108Mbps	Access Point, Repeater, Bridge	1 x 10/100Mbps
WAP-0005	540524	11/54/108Mbps	PoE WLAN Access Point, 802.11b/g, MultiSSID, WDS, VLAN)	1 x 10/100Mbps
WAP-1001	540529	11/54Mbps	802.11b/g Wireless In-/Outdoor-AP with integrated 12dBi antenna and PoE	1 x 10/100Mbps

Wireless PCI Adapter

54Mbps Wireless PCI Adapter

- data transmission rate 54mbps for 802.11g and 11mbps for 802.11b (gross data rate)
- downwards compatible to 11mbps devices 802.11b standard
- high data security via 64/128bit WEP, WPA-PSK, 802.1x (RADIUS)
- supports WMM (IEEE802.11e, QoS standard), extended multimedia support

- operates in 2.412 ~ 2.484ghz frequency band
- supports infrastructure and Ad-hoc mode
- supports Windows 98SE/ME/2000/XP
- setup utility for easy installation

WNC-0301



WNC-0301

108Mbps Wireless SuperG PCI Card

- complies with IEEE802.11b/g
- data transmission rate up to 54Mbps for 802.11g and 11Mbps for 802.11b
- up to 108Mbps with SuperG
- network security via 64/128bit WEP, 802.1x in WinXP
- integrated antenna with 2dBi gain

- operates in 2.412 ~2.484ghz frequency band
- searches automatically for the channel with lowest data traffic
- supports Windows ME/2000/XP

WNC-0300



WNC-0300

MIMO-XR Wireless PCI Adapter

- complies with IEEE802.11b/g standard
- wider operating range, less blind spots and higher data transmission rate with MIMO technology
- supports CCX 2.0 (Cisco Compatible Extensions) for signal monitoring and fast roaming
- supports wireless security with 64/128bit WEP, WPA (TKIP with IEEE802.1x) and WPA2 (AES with 802.1x)

- supports WMM (IEEE802.11e QoS standard), extended multimedia support
- supports infrastructure mode and ad-hoc mode
- smart antenna with two RX and one TX
- supports Windows ME/2000/XP/2003
- sending performance: 16dBm +/- 2dBm
- plug&play installation

WNC-0500



WNC-0500

N_One Wireless PCI Adapter 300Mbps

- simultaneous multimedia streaming, online gaming, VoIP, internet surfing and data transfer with LevelOne N_One technology
- excellent wireless connections up to 300mbps
- security with WPA, WPA2 and 64/128bit WEP encryption

- easy installation and configuration via incl. utility or windows configuration
- downwards compatible with 802.11b/g wireless standards
- supports Windows 2000/XP/Vista

WNC-0600



WNC-0600

LevelOne Wireless LAN PCI Adapter

Model-No.	Item No.	Speed	Function	Comment
WNC-0301	540521	11/54Mbps	Wireless PCI Adapter	incl. 2dBi antenna
WNC-0301-E2	540536	11/54Mbps	54Mbps PCI Adapter 32Bit	LowProfile+Standard Bracket
WNC-0300	540511	11/54/108Mbps	Wireless PCI Adapter	detachable 2dBi antenna
WNC-0500	540551	11/54Mbps	MIMO Wireless PCI Adapter	3x 2dBi antennas, detachable, with stand SAN-3000
WNC-0600	540561	11/54/144/300Mbps	N_One 300Mbps Wireless PCI Card	3x 2dBi antennas, detachable, with stand SAN-3000

Wireless Cardbus Adapter

54Mbps Wireless LAN PCMCIA Card

- data transmission rate 54mbps for 802.11g and 11mbps for 802.11b (gross data rate)
- downwards compatible to 11mbps devices of 802.11b standard
- high data security via 64/128bit WEP, WPA-PSK, 802.1x (RADIUS)
- supports WMM (IEEE802.11e QoS standard), extended multimedia support

- operates in 2.412 ~ 2.484ghz frequency band
- supports infrastructure and ad-hoc mode
- supports Windows 98SE/ME/2000/XP
- setup utility for easy installation

WPC-0301



WPC-0301

108Mbps Wireless SuperG PCMCIA Card

- complies with IEEE802.11b/g
- extended range up to 400m
- 32bit PCMCIA cardbus
- data transmission rate up to 54Mbps for 802.11g (draft) and 11Mbps for 802.11b
- up to 108mbps via SuperG
- network security via 64/128bit WEP, 802.1x in WinXP

- integrated antenna with 2dBi gain
- operates in 2.142 ~ 2.484Ghz frequency band
- searches automatically for the channel with lowest data traffic
- supports Windows 98SE/ME/2000/XP

WPC-0300



WPC-0300

MIMO-XR Wireless PCMCIA Adapter

- complies with IEEE802.11b/g standard
- wider operating range, less blind spots and higher data transmission rate with MIMO technology
- supports CCX 2.0 (Cisco Compatible Extensions) for signal monitoring and fast roaming
- supports wireless security with 64/128bit WEP, WPA (TKIP with IEEE802.1x) and WPA2 (AES with 802.1x)

- supports WMM (IEEE802.1e QoS standard), extended multimedia support
- supports infrastructure and ad-hoc mode
- smart antenna with two RX and one TX
- supports Windows ME/2000/XP/2003
- sending performance: 16dBm +/- 2cBm
- plug&play installation

WPC-0500



WPC-0500

N_One Wireless Cardbus Adapter 300Mbps

- simultaneous multimedia streaming, online gaming, VoIP, internet surfing and data transfer with LevelOne N_One technology
- excellent wireless connections up to 300Mbps
- security with WPA, WPA2 and 64/128bit WEP encryption

- easy installation and configuration via utility or windows configuration
- downwards compatible with 802.11b/g wireless standards
- supports Windows 2000/XP/Vista

WPC-0600



WPC-0600

LevelOne Cardbus Adapter

Model-Nr.	Item No.	Speed	Function	Port	Comment
WPC-0301	540520	11/54Mbps	Wireless PCMCIA Adapter	32Bit CardBus	QoS
WPC-0300	540510	11/54/108Mbps	Wireless Super-G PCMCIA Adapter	32Bit CardBus	-
WPC-0500	540550	11/54Mbps	MIMO Wireless PCMCIA Adapter	32Bit CardBus	QoS
WPC-0600	540560	54/144/300Mbps	N_One 300Mbps Wireless CardBus Adapter	32Bit Cardbus	Draft N

Wireless USB Adapter

Wireless USB Adapter 54Mbps

- complies with IEEE802.11b/g
- data rates up to 54Mbps
- supports peer-to-peer communication with each wireless client without access point
- supports 64/128/256bit WEP, WPA (TKIP, IEEE802.1x) and AES

- supports Windows ME/2000/XP
- supports USB 2.0 / 1.1 / 1.0

WNC-0301USB



WNC-0301USB

Wireless USB Adapter 54Mbps

- complies with IEEE802.11b/g standard
- data rates up to 54Mbps for 802.11g and 11Mbps for 802.11b
- supports wireless security via 64/128bit WEP, WPA/WPA2
- supports USB 2.0 / 1.1 / 1.0

- easy plug&play installation with installation assistant

WNC-0305USB



WNC-0305USB

MIMO Wireless LAN USB Adapter

- downwards compatible with IEEE802.11b/g
- wider operating range and faster data transfer rate by MIMO technology (multiple in multiple out)
- QoS (Quality of Service) according to IEEE802.11e for optimized multimedia and VoIP transmission
- supports 64/128bit WEP, WPA (TKIP with IEEE802.1x), WPA2 (AES with IEEE802.1x) functions for highest data security

- automatic speed down function for more stability and better reliability
- supports Windows ME/2000/XP
- incl. 1.5m USB cable

WNC-0500USB



WNC-0500USB

N_One Wireless USB Adapter 300Mbps

- simultaneous multimedia streaming, online gaming, VoIP, internet surfing and data transfer with LevelOne N_One technology
- excellent wireless connections up to 300Mbps
- security with WPA, WPA2 and 64/128bit WEP encryption

- easy installation and configuration via included utility or windows configuration
- downwards compatible with 802.11b/g wireless standards
- supports Windows 2000/XP/Vista

WNC-0600USB



WNC-0600USB

LevelOne Wireless USB Adapter

Model-No.	Item No.	Speed	Function	Port
WNC-0301USB	540517	11/54Mbps	Wireless USB 2.0 Adapter	USB 2.0
WNC-0301USB-S	540523	11/54Mbps	USB Adapter Mini-Stick w. small stand+cable (Extension-Set)	USB 2.0
WNC-0305USB	540582	11/54Mbps	Wireless USB 2.0 Adapter	USB 2.0
WNC-0306USB	540527	11/54/108Mbps	Wireless USB Adapter	USB 2.0
WNC-0500USB	540552	11/54Mbps	Wireless MIMO USB 2.0 Adapter	USB 2.0
WNC-0600USB	540567	11/54/144/300	N_One 300Mbps Wireless USB Adapter	USB 2.0
WNC-0304USB	540526	11/54Mbps	USB Adapter + WiFi Detector w. LCD, USB2.0, WPA2/AES	USB 2.0
SUS-1000	500101		stand for USB stick incl. 1,8m USB cable	

Wireless Antennas

LevelOne wireless antennas expand the range of a wireless lan and take care for a better connectivity.

There are 3 different types: omni-directional, sectoral and directional. Omni-directional antennas beam in every direction. Sectoral antennas enables directed and regional wireless supply. These antennas are optimal for HotSpots.

Directional antennas are useful to create a "point-to-point"-connection, for example to connect buildings via Wireless LAN.



LevelOne Wireless Antennas

Model-No.	Item No.	Operating Range	Radiation	Gain	max. Operating Range	Frequency	Angle (horiz./vertic.)
OAN-1030	540503	indoor	omni-directional	3 dBi	40 - 120m	2,4 GHz	360°/75°
OAN-1040	540504	indoor	omni-directional	4 dBi	55 - 170m	2,4 GHz	360°/40°
OAN-0500	540500	indoor	omni-directional	5 dBi	40 - 200m	2,4 GHz	360°/35°
OAN-1070	540408	indoor	omni-directional	7 dBi	60 - 400m	2,4 GHz	360°/23°
OAN-2080	540505	outdoor	omni-directional	8 dBi	600 - 1800m	2,4 GHz	360°/15°
OAN-4100	540405	outdoor	omni-directional	10 dBi	600 - 2400m	5,0 GHz	360°/7°
OAN-2150	540411	outdoor	omni-directional	15 dBi	300 - 3500m	2,4 GHz	360°/15°
WAN-1160	540506	indoor	directional (sector)	6/4 dBi	25 - 180m	2,4/5 GHz	80°/80°
WAN-2085	540400	indoor/outdoor	directional (sector)	8,5 dBi	350 - 1200m	2,4 GHz	70°/65°
WAN-1112	540507	indoor/outdoor	directional (sector)	12 dBi	200 - 800m	2,4 GHz	84°/23°
WAN-2114	540409	outdoor	directional (panel)	14 dBi	300 - 3500m	2,4 GHz	30°/33°
WAN-2118	540508	outdoor	directional (yagi)	18 dBi	1500 - 5000m	2,4 GHz	15°/15°
WAN-2180	540509	outdoor	directional	18 dBi	1500 - 5000m	2,4 GHz	17°/17°
WAN-4230	540406	outdoor	directional (panel)	23 dBi	1500 - 5000m	5,0 GHz	10°/10°

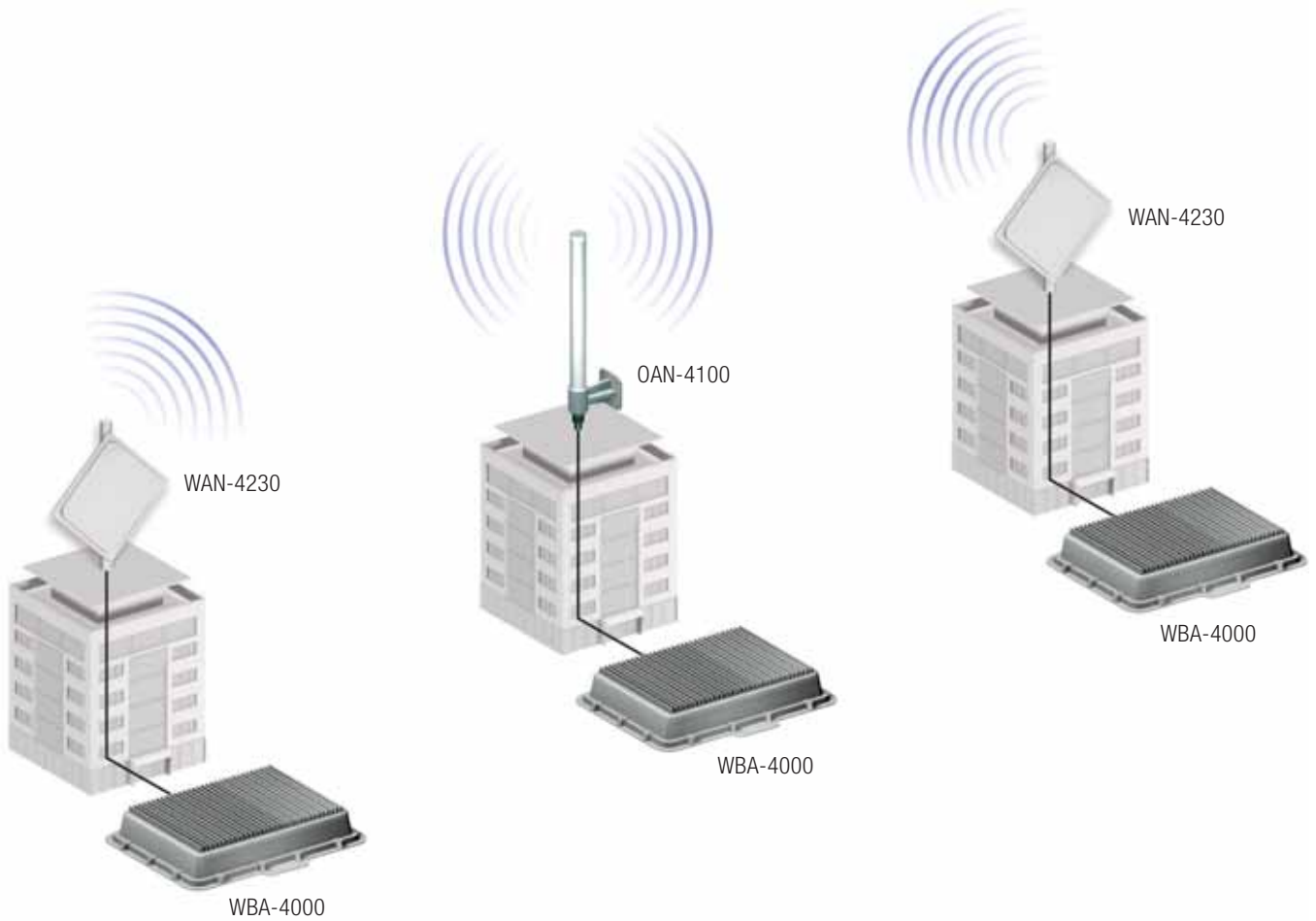
Wireless Outdoor Bridge

5Ghz Outdoor Bridge

- compatible with IEEE802.11a/h standard
- data transfer rate up to 108Mbps (Turbo A mode)
- frequency band: 5.15 ~ 5.35ghz / 5.50 ~ 5.70ghz
- IP68 waterproofed case
- 64/128/152bit WEP encryption
- point-to-point, point-to-multipoint mode
- power supply via PoW (802.3af)
- PoE injector included
- up to 15km operating range in combination with antenna WAN-4230



WBA-4000



LevelOne Wireless Outdoor Bridge

Model-No.	Item No.	Speed	Function
WBA-4000	540600	11/54/108Mbps	802.11a Wireless Outdoor Bridge with PoE

Wireless Outdoor Mesh AP/Bridge

WAB-2000 Mesh Access Point

- self organized network with up to 40 knots
- 2 seperated radio modules for simultaneous operation as AP and bridge
- Bridge supports 2.4/5ghz (802.11a/b/g)
- TurboA and SuperG 108mbps
- operates simultaneously in access point, bridge or repeater mode
- supports PoE function, reduces cables and costs
- supports 64/128/152bit WEP
- supports AES-CCMP/WPA2/IEEE802.11i wireless security standards
- reports automatically non authorized access points
- supports dynamic frequency selection (DFS)
- supports transmit power control (TPC)

- fast and easy installation
- wireless client load balancing
- stable, high data transmission rate with wide operating range
- SNMP management
- operating temperature model A: -5 - +50 Grad Celsius
- operating temperature model H: -30 - +70 Grad Celsius



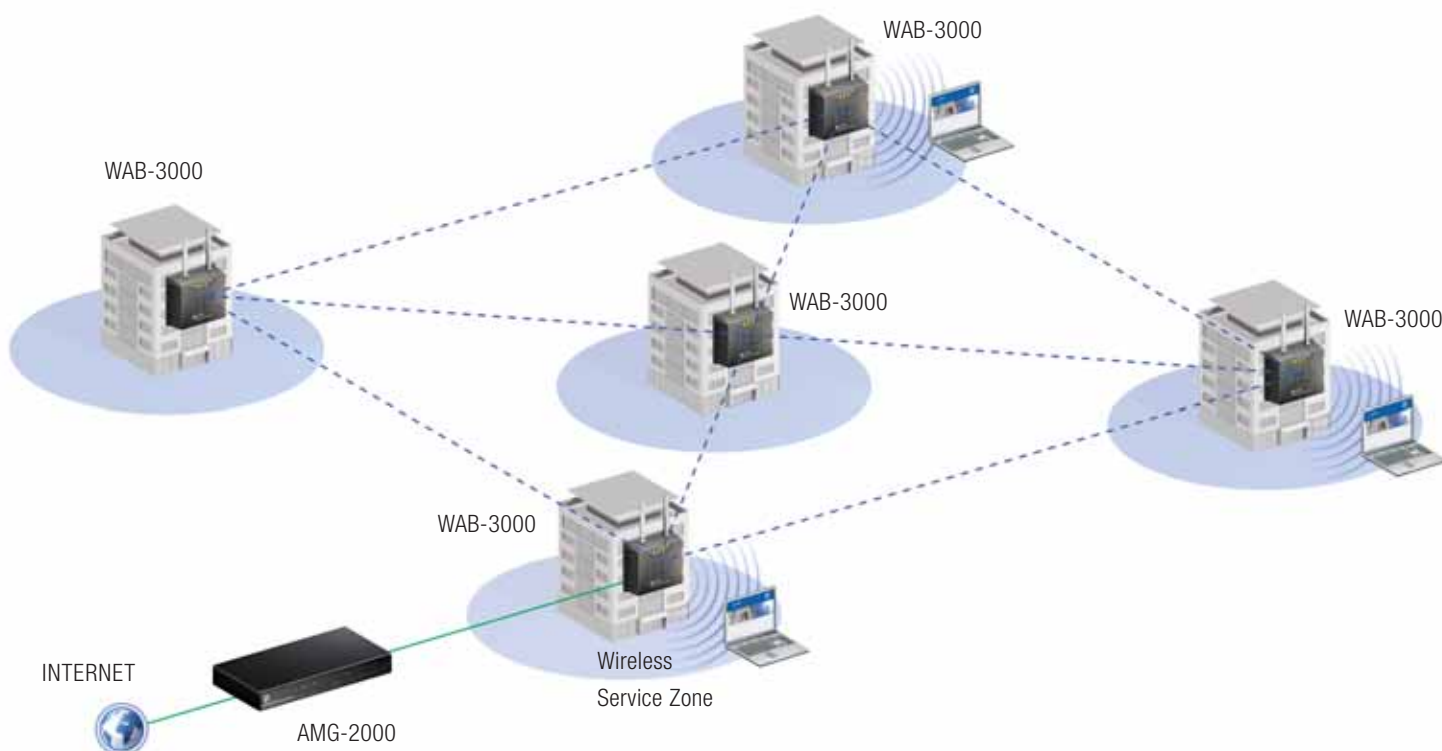
WAB-2000/3000

WAB-3000 Mesh Access Point extended features compared to WAB-2000A/H

- Multiple SSIDs
- IEEE 802.1Q VLAN
- 2.4/5ghz for bridge and AP

LevelOne Wireless Outdoor Mesh AP/Bridge

Model-No.	Item No.	Speed	Function
WAB-2000A	540533	11/54/108Mbps	802.11a/b/g Wireless Outdoor Mesh AP/ Bridge
WAB-2000H	540534	11/54/108Mbps	802.11a/b/g Wireless Outdoor Mesh AP/Bridge with heater
WAB-3000A	540570	11/54/108Mbps	802.11a/b/g Wireless Outdoor Mesh AP/ Bridge, VLAN, MultiSSID
WAB-3000H	540571	11/54/108Mbps	802.11a/b/g Wireless Outdoor Mesh AP/ Bridge with heater, VLAN, MultiSSID



Network Cameras

IP Network Camera

- MPEG compression
- manual recording
- 4-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

FCS-1020



FCS-1020

IP Network Camera

- MPEG compression
- manual focus
- IEEE 802.11b/g wireless LAN standard with 64/128bit WEP/WPA-PSK encryption
- supports up to 30fps
- 4-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

WCS-2020



WCS-2020

IP Network Camera Intercom

- MJPEG/MPEG4 compression
- intelligent motion detection alerts via e-mail or ftp
- IEEE802.11b/g wireless LAN standard with 64/128bit WEP/WPA-PSK encryption
- supports VGA resolution at 30fps
- supports streaming on 3G mobile phones
- internal bi-directional microphone for audio/visual communication
- 32-channel surveillance software (IP CamSecure Lite)
- supports ME/NT/2000/XP/2003

FCS-0010 / WCS-0010



FCS-0010

WCS-0010

Model-No.	Item No.	Sensor	Ports	Wireless	Audio	Pan/Tilt	Zoom	Night Vision	PoE
FCS-1020	571002	CMOS	10/100 Mbps	-	-	-	-	-	-
WCS-2020	571202	CMOS	10/100 Mbps	■	-	-	-	-	-
FCS-0010	571001	CMOS	10/100 Mbps	-	2-way	-	-	-	-
WCS-0010	572001	CMOS	10/100 Mbps	■	2-way	-	-	-	-

Live Stream Network Cameras

IP Network Camera

- MPEG4 compression
- manual or timed recording
- motion detection and e-mail alert
- video recording with time stamp
- live streaming (RTSP)
- PDA video resolution
- 32-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

FCS-1030 / WCS-2030

Pan/Tilt Network Camera

- Pan/tilt via internet/intranet
- MPEG4 compression
- manual or timed recording
- resolution max. 640 x 480 VGA
- live pictures via internet / intranet
- motion detection and e-mail alert
- video recording with time stamp
- live streaming (RTSP)
- PDA video resolution
- 32-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

FCS-1060 / WCS-2060



WCS-2030

WCS-2060

Model-No.	Item Nor.	Sensor	Ports	Wireless	Audio	Pan/Tilt	Zoom	Night Vision	PoE
FCS-1030	570030	CMOS	10/100 Mbps	-	■	-	4 x digital	-	-
WCS-2030	572030	CMOS	10/100 Mbps	54 Mbps	■	-	4 x digital	-	-
FCS-1060	571060	CMOS	10/100 Mbps	-	■	■	4 x digital	-	-
WCS-2060	571206	CMOS	10/100 Mbps	54 Mbps	■	■	4 x digital	-	-

P/T/Z Network Cameras

Pan/Tilt Network Camera CCD

- Pan/tilt via internet/intranet
- resolution max. 640 x 480 VGA
- live pictures via internet / intranet
- MPEG4 compression
- manual or timed recording
- intelligent motion detection and e-mail alert
- video recording with time stamp
- 32 channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

FCS-1010 / WCS-2010



WCS-2010

Pan/Tilt Network Camera with opt. zoom

- Pan/tilt/zoom via internet
- resolution max. 640 x 480 VGA
- live pictures via internet/intranet
- tenfold optical zoom
- excellent light sensitivity 1.5 - 0.05 lux
- MJPEG/MPEG4 compression
- manual or timed recording
- intelligent motion detection and e-mail alert
- video recording with time stamp
- 32-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface
- supports ME/NT/2000/XP/2003

FCS-1040 / WCS-2040



FCS-1040

Outdoor chassis for LevelOne

Network Cameras FCS-1060/1010/1040 and WCS-2060/2010/2040

- IP66 water protected
- integrated fan and heater
- smoked glass
- camera not included
- incl. power supply

DOH-1000



DOH-1000

Model-No.	Item No.	Sensor	Ports	Wireless	Audio	Pan/Tilt	Zoom	Night Vision	PoE
FCS-1010	571010	CCD	10/100 Mbps	-	■	■	4 x digital	-	-
WCS-2010	571020	CCD	10/100 Mbps	54 Mbps	■	■	4 x digital	-	-
FCS-1040	571040	CCD	10/100 Mbps	-	2-way	■	10x opt. + 10x digital	Low Lux mode	-
WCS-2040	571204	CCD	10/100 Mbps	54 Mbps	2-way	■	10x opt. + 10x digital	Low Lux mode	-

Model-No.	Item No.	Function
DOH-1000	579001	outdoor chassis for LevelOne network cameras FCS-1060/1010/1060 and WCS-2060/2010/2040

IP Dome Network Cameras

IP Dome Day/Night Network Camera

- 10m nightsight with IR sensor
- MJPEG/MPEG4 compression
- protected against vandalism
- water protected (IP66)
- 2-way audio (full-duplex)
- intelligent motion detection
- lens with variable focus auto iris 3.6 ~ 9mm
- I/O for sensor and alarm
- high resolution 1/3" Sony CCD sensor
- light sensitivity up to 0 Lux
- 32-channel surveillance software (IP CamSecure Lite)
- plug-and-play web interface

FCS-3000

IP Dome PoE Network Camera D1D0

- MPEG4/MJPEG dual streaming
- supports 3GPP
- power supply via RJ45 patchcable
- intelligent motion detection
- 2-way audio
- digital IN / digital OUT for breaker and sensors
- 32-channel surveillance software (IP CamSecure Lite)
- management via web interface

FCS-3021



FCS-3021



FCS-3000

LevelOne Day/Night Network Cameras

Model-No.	Item No.	Sensor	Ports	Wireless	Audio	Pan/Tilt	Zoom	Night Vision	PoE
FCS-3000	571300	CCD-IR	10/100Mbps	-	2-way	-	4x digital	■	-
FCS-3021	571321	CMOS	10/100Mbps	-	2-way	-	-	-	■

Indoor/Outdoor Network Cameras

PoE IR IP Network Camera

- resolution max. 640 x 480 VGA
- live pictures via internet / intranet
- IR-sensor for night recording
- compatible with PoE PD standard 802.3af
- power supply via RJ45 patchcable
- MJPEG/MPEG4 compression
- manual or timed recording
- 32-channel surveillance software (IP CamSecure Lite)
- web-management
- supports Windows ME/NT/2000/XP/2003

FCS-5011



FCS-5011

PoE IR IP Network Camera

- 15m nightsight with IR sensor
- resolution max. 640 x 480 VGA
- live pictures via internet / intranet
- Power supply via RJ45 patchcable
- Compatible with PoE PD standard IEEE 802.3af
- MJPEG/MPEG4 compression
- manual or timed recording
- 2-way audio (with FCS-1081A)
- 32-channel surveillance software (IP CamSecure Lite)
- 2/10 x optical zoom retrofittable through alternative lens (CAS-1000A/B)
- web-management

FCS-1081/1081A



FCS-1081

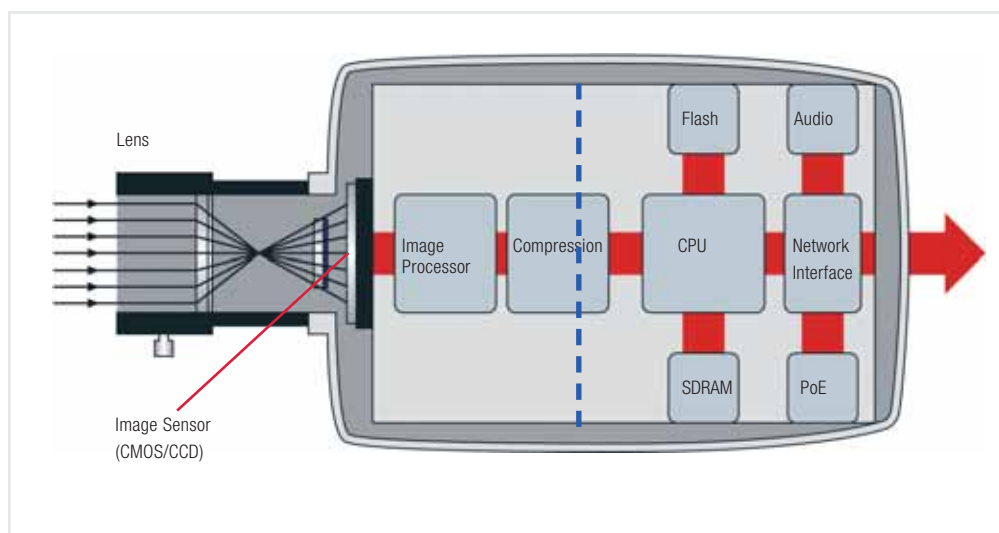
Outdoor chassis for FCS-1081

- IP66 water protected
- integrated ventilator and heater
- excl. camera

BOH-1000



BOH-1000



LevelOne Indoor/Outdoor Network Cameras

Model-No.	Item No.	Sensor	Ports	Wireless	Audio	Pan/Tilt	Zoom	Night Vision	PoE
FCS-5011	571511	CCD-IR	10/100Mbps	-	-	-	10x digital	■	■
FCS-1081	571081	CCD	10/100Mbps	-	-	-	10x digital	-	■
FCS-1081A	571084	CCD	10/100Mbps	-	2-way	-	10x digital	-	■
CAS-1000A	571082	3.5~8mm (2x opt. zoom) lens for FCS-1081 PoE Camera							
CAS-1000B	571083	6~60mm (10x opt. zoom) lens for FCS-1081 PoE Camera							
POW-1201-E	599001	Switching Power Adapter for POE Camera FCS-5011, FCS-1081							

LevelOne Outdoor Housing for FCS-1081

Model-No.	Item No.	Description
BOH-1000	579002	Box-Type Outdoor Housing for FCS-1081

Speed Dome Network Camera

Speed Dome Day/Night Network Camera Pan/Tilt/Zoom 18x

- 1/4" ExView HAD CCD sensor for superior image capture quality in low light conditions
- 4.0~72mm/F 1.4~3.0 (DC-Iris), 07lux@F1.4
- supports 18x optical and 12x digital zoom
- supports 360° pan and 90° tilt, continuous rotation
- maximum resolution up to 704x480 at 30fps (NTCS)
- MPEG4/MJPEG compression mode
- auto-removable IR-cut filter for Day/Night viewing
- extended I/O for sensor & alarm
- waterproof IP66 rated for outdoor deployment
- two-way audio
- 32-channel surveillance software (IP CamSecure Lite)
- supports Windows ME/NT/2000/XP/2003

FCS-4000

FCS-4000



Wall Mount Kit for FCS-4000/4100 CAS-4000A

CAS-4000A



Ceiling Mount Kit for FCS-4000/4100 CAS-4000B

CAS-4000B



Speed Dome Day/Night Network Camera Pan/Tilt/Zoom 26x

- 1/4" ExView HAD CCD sensor for superior image capture quality in low light conditions
- 3.5~91mm/F1.6~3.8 (DC-Iris), 1.0Lux@F1.6
- supports 26x Optical and 12x Digital zoom
- supports 360° pan and 90° tilt, continuous rotation
- maximum resolution up to 704x480 at 30fps (NTCS)
- selectable MPEG4/MJPEG compression mode
- auto-removable IR-cut filter for Day/Night viewing
- extended I/O for sensor & alarm
- waterproof IP66 rated for outdoor deployment
- two-way audio
- 32-channel surveillance software (IP CamSecure Lite)
- supports Windows ME/NT/2000/XP/2003

FCS-4100

FCS-4100



Corner Mount Kit for FCS-4000/4100 CAS-4000C

CAS-4000C



Pole Mount Kit for FCS-4000/4100 CAS-4000D

CAS-4000D

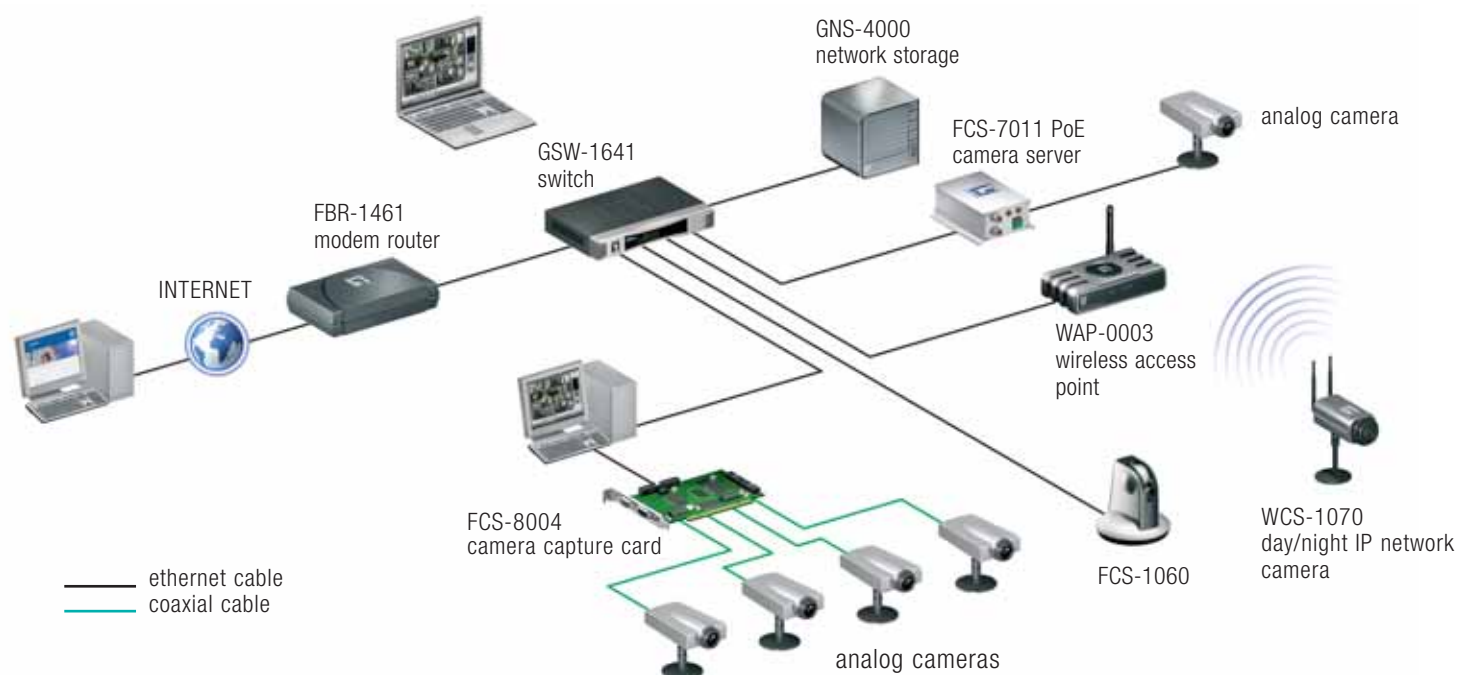


LevelOne Speed Dome Network Cameras

Model-No.	Item No.	Function
FCS-4000	571400	Day/Night Vision P/T/Z IP Speed Dome Camera with 18x optical Zoom, In-/Outdoor IP 66
FCS-4100	571415	Day/Night Vision P/T/Z IP Speed Dome Camera with 26x optical Zoom, In-/Outdoor IP 66
CAS-4000A	571401	Wall Mount Kit for FCS-4000 / FCS-4100
CAS-4000B	571402	Ceiling Mount Kit for FCS-4000 / FCS-4100
CAS-4000C	571403	Corner Mount Kit for FCS-4000 / FCS-4100
CAS-4000D	571404	Pole Mount Kit for FCS-4000 / FCS-4100

Surveillance Capture Card

Digital, IP-based surveillance systems replace conventional analog surveillance systems. To make sure that the conversion is as cost-effective as possible, LevelOne provides a Video Server and an analog capture card to integrate analog surveillance systems into a digital, IP-based network structure. LevelOne Video Server provides Power over Ethernet technology to keep investments low. Hereby it is possible to supply digital surveillance systems via ethernet cable.



Analog Camera Integration

Analog Camera Capture Card

- supports up to four analogue CCTV cameras in one digital, IP based environment
- provides 2 channel audio in
- high frame-per-second capture rate
- supports NTSC and PAL video format
- MPEG4 compression for internet video streaming
- incl. IP CamSecure lite software

FCS-8004



1-Port PoE Video Server

- bundled with LevelOne 32-channel surveillance software, IPCamSecure Lite
- fully compliant with IEEE802.3af standard for PoE functionality
- features 2-way Audio
- digital Input/Output ports to connect to sensor and alarm systems
- supports control of Pan/Tilt




FCS-7011



LevelOne Analog Camera Integration

Model-No.	Item No.	Function
FCS-8004	571704	4-port Analog Camera Capture Card
FCS-7011	571711	1-port PoE Video Server

LevelOne Advanced Digital Surveillance Solutions

Description	Model	Network Cameras		
		 FCS-1020	 FCS-1030	 WCS-2030
Features	Indoor/Outdoor	indoor	indoor	indoor
	Day/Night	day	day	day
Network-Interface	LAN	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
	Wireless	-	-	802.11b/g
	POE	-	-	-
Video	Compression	MUPEG	MPEG4	MPEG4
	Max. resolution	640 x 480	640 x 480	640 x 480
	Frame Rate	160 x 120 : 30 fps 320 x 240 : 30 fps 640 x 480 : 15 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 640 x 480 : 12/10 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 640 x 480 : 12/10 fps
Camera	Sensor	1/4" color CMOS	1/4" color CMOS	1/4" color CMOS
	Lens	4.8mm/F1.8	4.0mm/F2.0	4.0mm/F2.0
	Minimum illuminance	1.9 Lux / F 1.8	1.5 Lux / F 2.0	1.5 Lux / F 2.0
	Blind (sec.)	-	1/60 ~ 1/15,000	1/60 ~ 1/15,000
	AGC/AWB/AES	-	■	■
	Infrared	-	-	-
Audio	Audio Decoder	-	24kbps	24kbps
	Microphone	-	omni-directional	omni-directional
P/T/Z Support	Pan	-	-	-
	Tilt	-	-	-
Memory	Zoom	-	4 x digital	4 x digital
	Flash ROM	512KB	4 MB	4 MB
	SDRAM	128KB	32 MB	32 MB
Software	DDNS Support	■	■	■
	Surveillance Management S/W bundled	4- channel Surveillance Management Software	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite
	3 GPP/ ISMA-RTSP	-	■	■
	Security	user / password	user / password	user / password 64/128bit WEP/WPA-PSK
Alarm	Digital I/O	-	-	-






LevelOne Advanced Digital Surveillance Solutions

P/T/Z Network Cameras			
			
FCS-1010	WCS-2010	FCS-1040	WCS-2040
P/T/Z Network Camera	11g Wireless P/T/Z Network Camera	P/T/Z Network Camera	11g Wireless P/T/Z Network Camera
indoor/outdoor with DOH-1000	indoor/outdoor with DOH-1000	indoor/outdoor with DOH-1000	indoor/outdoor with DOH-1000
day	day	day	day
1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
-	802.11b/g	-	802.11b/g
-	-	-	-
MPEG4	MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)
176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 10 fps	176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 10 fps	176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 15/12 fps	176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 15/12 fps
1/4" color CCD	1/4" color CCD	1/4" color CCD	1/4" color CCD
4.3mm/F2.0	4.3mm/F2.0	4.2 ~ 42mm/F1.8 ~ 2.9	4.2 ~ 42mm/F1.8 ~ 2.9
1.0 Lux / F 2.0	1.0 Lux / F 2.0	0.05 Lux / F 1.8	0.05 Lux / F 1.8
1/60 ~ 1/100,000 (NTSC) 1/50 ~ 1/100,000 (PAL)	1/60 ~ 1/100,000 (NTSC) 1/50 ~ 1/100,000 (PAL)	1/60 ~ 1/100,000 (NTSC) 1/50 ~ 1/100,000 (PAL)	1/60 ~ 1/100,000 (NTSC) 1/50 ~ 1/100,000 (PAL)
■	■	■	■
-	-	-	-
24Kbps	24Kbps	8/24/32Kbps Full-Duplex	8/24/32Kbps Full-Duplex
omni-directional	omni-directional	omni-directional	omni-directional
270°	270°	270°	270°
90°	90°	135°	135°
4 x digital	4 x digital	10 x optical and 10 x digital	10 x optical and 10 x digital
2 MB	2 MB	4 MB	4 MB
16 MB	16 MB	16 MB	16 MB
■	■	■	■
32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite
-	-	-	-
user / password 64/128bit WEP/WPA-PSK	user / password 64/128bit WEP/WPA-PSK	user / password	user / password 64/128bit WEP/WPA-PSK
■	■	■	■

LevelOne Advanced Digital Surveillance Solutions

Description	Model	P/T/Z Network Cameras		IR Network Cameras	
	Name	P/T/Z Network Camera	11g Wireless P/T/Z Network Camera	IP Dome Network Camera	Network Camera
Features	Indoor/Outdoor	indoor/outdoor with DOH-1000	indoor	indoor/ outdoor	indoor
	Tag/Nacht	day	day	day/ night	day/ night
Network-Interface	LAN	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
	Wireless	-	-	-	-
	POE	-	-	-	-
Video	Compression	MPEG4	MUPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
	Max. resolution	640 x 480	640 x 480	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)
	Frame Rate	160 x 120 : 30/25 fps 176 x 144 : 30/25 fps 320 x 240 : 30/25 fps 640 x 480 : 15/12 fps	160 x 120 : 30/25 fps 176 x 144 : 30/25 fps 320 x 240 : 30/25 fps 640 x 480 : 15/12 fps	176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 15/12 fps	176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 15/12 fps
Camera	Sensor	1/4" color CMOS	1/4" color CMOS	1/3" color CCD	1/3" color CCD
	Lens	4.0mm/F2.0	4.0mm/F2.0	3.6mm/F2.0	6.0mm/F2.0
	Minimum illuminance	1.0 Lux / F 2.0	1.0 Lux / F 2.0	0Lux when IR on; IR distance: 10m	0Lux when IR on; IR distance: 10m
	Blind (sec.)	1/60 ~ 1/15,000	1/60 ~ 1/15,000	1/60 ~ 1/100,000(NTSC) 1/60 ~ 1/100,000(PAL)	1/60 ~ 1/100,000(NTSC) 1/60 ~ 1/100,000(PAL)
	AGC/AWB/AES	■	■	■	■
	Infrared	-	-	■	■
Audio	Audio Decoder	Algorithm GSM-AMR/ MPEG4 AAC	Algorithm GSM-AMR/ MPEG4 AAC	8/24/32Kbp Full Duplex	8/24/32Kbp Full Duplex
	Microphone	omni-directional	omni-directional	omni-directional	omni-directional
P/T/Z Support	Pan	350°	350°	-	-
	Tilt	125°	125°	-	-
	Zoom	4 x digital	4 x digital	4 x digital	4 x digital
Memory	Flash ROM	4 MB	4 MB	4 MB	4 MB
	SDRAM	32 MB	32 MB	16 MB	16 MB
Software	DDNS Support	■	■	■	■
	Surveillance Management S/W bundled	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite
	3 GPP/ ISMA-RTSP	■	■	-	-
	Security	user / password	user / password 64/128bit WEP/WPA-PSK	user / password	user / password
Alarm	Digital I/O	-	-	-	-

LevelOne Advanced Digital Surveillance Solutions

 WCS-2070	PoE Network Cameras		Network Speed Dome	
	 FCS-1081	 FCS-5011	 FCS-4000	 FCS-4100
11g Wireless Network Camera	PoE Network Box Camera	PoE Network Box Camera	Network Speed Dome Camera	Network Speed Dome Camera
indoor	indoor/ outdoor with BOH-1000	indoor	indoor/ outdoor	indoor/ outdoor
day/ night	day	day/ night	day/ night	day/ night
1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
802.11b/g	-	-	-	-
-	■	■	-	-
MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4	MJPEG/MPEG4
704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)	704 x 480 (NTSC) 704 x 576 (PAL)
176 x 120 : 30/25 fps 352 x 240 : 30/25 fps 704 x 480 : 15/12 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 704 x 480 : 30/25 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 704 x 480 : 30/25 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 704 x 480 : 30/25 fps	160 x 120 : 30/25 fps 320 x 240 : 30/25 fps 704 x 480 : 30/25 fps
1/3" color CCD	1/3" color CCD	1/3" color CCD	1/4" Exview HAD CCD	1/4" Exview HAD CCD
8.0mm/F2.0	4.0/3.5 ~ 8/6 ~ 60mm	6.0mm/F2.0	4.0 ~ 72mm/F 1.4 ~ 3.0	4.0 ~ 104mm / F.1.4~3.0
OLux when IR on; IR distance: 10m	0.05 LUX/ F1.2	OLux when IR on; IR distance: 10m	0.7 LUX/ F1.4	0.7 LUX/ F1.4
1/60 ~ 1/100,000(NTSC) 1/60 ~ 1/100,000(PAL)	1/60 ~ 1/100,000(NTSC) 1/50 ~ 1/110,000(PAL)	1/60 ~ 1/100,000(NTSC) 1/50 ~ 1/100,000(PAL)	1/1 ~ 1/10,00	1/1 ~ 1/10,00
■	■	■	■	■
■	-	■	-	-
8/24/32Kbp Full Duplex	-	-	G.711 PCM 64 Kbits, ADPCM 32 Kbit/s, MP3, MPEG4-AAC dull duplex	G.711 PCM 64 Kbits, ADPCM 32 Kbit/s, MP3, MPEG4-AAC dull duplex
omni-directional	-	-	■	■
-	-	-	360° continuous	360° continuous
-	-	-	90°	90°
4 x digital	2 x/10 x optical and 10 x digital	10 x digital	18 x optical and 12 x digital	26 x optical and 12 x digital
4 MB	8 MB	4 MB	4 MB	4 MB
16 MB	32 MB	16 MB	32 MB	32 MB
■	■	■	■	■
32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite	32- channel IP CamSecure Lite
-	-	-	-	-
user / password 64/128bit WEP/WPA-PSK	user / password	user / password	user / password	user / password
-	-	-	■	■

Management Software for Network Cameras

The LevelOne IP CamSecure software provides all advantages of a digital surveillance solution. After installing and configuring you can use various functions like recording, motion detection or identification of unusual events. Analog surveillance cameras can be integrated into a digital surveillance solution. Therefore the LevelOne FCS-8004 Analog Capture Card and FCS-7011 Video Server is needed.

IP CamSecure Pro Plus / Mega version is compatible with Axis, Sony, Mobotix, Panasonic, JVC and more cameras.

IP CamSecure surveillance management software

- hybrid management for LevelOne IP cameras
- supports dual monitor
- integrated smart guard system for motion detection with various options
- recognition of missing/added objects, signal loss, picture loss
- release of various acoustic signals (.wav)
- counting mode for motion detection
- unifies analogue and digital cameras (with FCS-8004)
- video tool to improve picture quality
- supports up to 32 channels

FCS-9132



LevelOne IPCamSecure Surveillance Software

Model-No. Item No. Function

FCS-9116	571116	IP CamSecure Pro 16-channel Surveillance software for LevelOne cameras
FCS-9132	571732	IP CamSecure Pro 32-channel Surveillance software for LevelOne cameras
FCS-9164	571164	IP CamSecure Pro 64-channel Surveillance software for LevelOne cameras
FCS-9216	571216	IP CamSecure Pro Plus 16-channel Surveillance software for LevelOne, Axis, Sony, Panasonic, Mobotix, JVC cameras
FCS-9232	571232	IP CamSecure Pro Plus 32-channel Surveillance software for LevelOne, Axis, Sony, Panasonic, Mobotix, JVC cameras
FCS-9264	571264	IP CamSecure Pro Plus 64-channel Surveillance software for LevelOne, Axis, Sony, Panasonic, Mobotix, JVC cameras
FCS-9416	571316	IP CamSecure Pro Mega 16-channel Surveillance software for Megapixels cameras from Mobotix, Axis, Arecont Vision, IQinvision, Lumenera
FCS-9425	571325	IP CamSecure Pro Mega 25-channel Surveillance software for Megapixels cameras from Mobotix, Axis, Arecont Vision, IQinvision, Lumenera
FCS-9436	571336	IP CamSecure Pro Mega 36-channel Surveillance software for Megapixels cameras from Mobotix, Axis, Arecont Vision, IQinvision, Lumenera

Network Attached Storage

- embedded Linux OS
- multilingual web based management
- access control via user/group management
- supports Microsoft SMB, Apple Talk, NFS, FTP and Netware
- RAID technology for data security
- LCD display
- SNMP notification, email alerts and buzzer
- user and event logs
- DHCP server/client
- Microsoft PDC and active directory support (GNS-4000, FNS-7000B and GNS-8000B)



FNS-7000B



GNS-4000



FNS-5000B



GNS-8000B

Model	FNS-5000B	GNS-4000	FNS-7000B	GNS-8000B
Storage Management				
JBOD	■	■	■	■
RAID 0 & RAID 1	■	■	■	■
RAID 5	-	■	■	■
Hot Spare	-	■	■	■
Disk usage statistic	■	■	■	■
Disk check/ auto recovery	■	■	■	■
Hardware				
Redundant power Supply	-	-	optional	■
Hot-swappable	-	■	■	■
Ultra-160 SCSI Port	-	-	-	-
RS-232 Port	-	-	-	-
USB Connector	1x OTB, 2x USB2.0	2x USB2.0	USB2.0	USB2.0
1U, 19" mountable	■	-	-	■
LAN Port	1x10/100/1000Mbps	1x10/100/1000Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Processor	NS GX1 300MHz	Freescall 400MHz	VIA Eden 733MHz	Intel Celeron 1,3GHz
Flash Memory	16 MB	16 MB	32 MB	32 MB
RAM	128 MB	128 MB	256 MB	512 MB
Drive bay for HDDs	2 x SATA	4 x SATA	4 x SATA	4 x SATA
Dimensions L x W x H	283x340x44	229x152x188	380x168x240	430x570x44

LevelOne Network Attached Storage

Model-No.	Item No.	Ethernet Port	HDD	Raid Level	HotSwap	Redundant Power Supply	19" mountable
FNS-5000B	510052	1x10/100/1000Mbps	2 x SATA	0, 1	-	-	-
GNS-4000	510040	1x10/100/1000Mbps	4 x SATA	0, 1, 5, HotSpare	■	-	-
FNS-7000B	510073	2 x 10/100/1000Mbps	4 x SATA	0, 1, 5, HotSpare	■	optional	-
GNS-8000B	510082	2 x 10/100/1000Mbps	4 x SATA	0, 1, 5, HotSpare	■	■	■

Smart Media Storage

IP Network Disc + USB multifunction port

- external installation of one 3,5" IDE-harddisc up to 500GB
- supports external USB-components like harddiscs, memory sticks, card readers or digital cameras
- integrated USB print server
- easy to configure with integrated web-interface
- integrated FTP-server for access via internet
- supports SMB over TCP/IP for Microsoft users
- supports group-, file-, or user-configurations

FNS-1000



Edition 05/2006, tested:
Network Attached Storage

1 x very good
1 x good



FNS-1000

LevelOne Smart Media Storage 1xHDD

Model-No.	Item No.	Function
FNS-1000	510000	2 Disk / 1 USB / network storage with Printer Server

NAS 2x HDD SATA with Gigabit LAN

- supports high capacity SATA hard disks (up to 1TB) with hot swap function
- Giga-LAN structure for fast data traffic transfer
- supports RAID 0,1, JBOD technology for data protection
- block level remote replication to enhance backup function
- P2P BitTorrent
- LEDs for visible system working status
- supports Multiple-Languages
- supports multiple operating systems and file protocols
- easy configuration and quick launch services
- web management
- hot swappable
- media server

FNS-5000B



FNS-5000B

LevelOne Smart Media Storage 2xHDD

Model-No.	Item No.	Function
FNS-5000B	510052	2 Disk/ 3 USB / Gigabit LAN network storage with BitTorrent client

Smart Mobile USB Storage

Safe your data with LevelOne MUS-1001/2500. It's an easy und comfortable way to save your data by touching the botton. Once arranged, you can save your data on its´ internal hard disc.

Smart Mobile USB Flash Drive

- 1 GB disc space
- One Touch: playing, saving, synchronisation
- securd private area with user name and password protection
- Auto-Backup (Microsoft Outlook Express,

- Windows Media Player, address book editor, my data folder)
- Button for direct-saving
- multi-language user-interface

MUS-1001



MUS-1001

Smart Mobile USB Storage

- all your applications are available on the way
 - Outlook Express
 - my favorites folder
 - my documents folder
 - address book editor
- powerful smart-backup-tool
- 32MB internal Flash-disc
- up 80GB 2,5"-IDE harddisc installation possible

- secured, encrypted private disc with user name and password
- fast synchronisation of your newest Outlook Express mails
- internal USB 2.0 Hub with 2 connectors
- Button for direct saving
- multi-language user-interface

MUS-2500



MUS-2500

delivery without harddisc

LevelOne NasCon Smart Mobile USB Storage

Model-No.	Item No.	Function
MUS-1001	510010	Smart Mobile USB Flash Drive 1GB
MUS-2500	510025	Smart Mobile USB Storage 2.5" with 2x USB2.0 Hub

Wireless Access Point Storage 2,5"

- provides a single 2.5" IDE harddisc bay
- 2x high speed USB 2.0 port
- easy access via network places in Windows or Samba via Linux OS
- backup of USB memory sticks by pushing a button
- high data transfer rate up to 54mbps

- Compatible with IEEE802.11b/g WLAN-standards
- provides Wireless client, AP, WDS and Hybrid WDS operating mode
- wireless security by 64/128 bit WEP and WPA-PSK encryption
- detachable antenna

WAP-0007



WAP-0007

LevelOne Wireless Access Point Storage 2.5"

Model-No.	Item No.	Function
WAP-0007	540528	Wireless Storage Access Point with a single 2.5" IDE harddisc bay

Wireless Access Point Storage 3,5"

- provides a single 3.5" SATA or IDE harddisc bay
- data transfer rate up to 54mbps
- 2 x USB high speed connector for external harddisc
- integrated FTP-server function
- integradted download manager, usable for http and ftp
- compatible with wireless LAN standards IEEE802.11b/g (DSSS) 2,4 ghz

- wireless security via modern WEP/WPA encryption
- provides Wireless client, AP, WDS and Hybrid WDS operating mode for simultaneous operating as AP and Bridge oder AP and AP-Client
- network connector 1x10/100mbps (RJ45)
- easy access via network places in Windows or Samba via Linux OS

WAP-0008



WAP-0008

LevelOne Wireless Access Point Storage 3.5"

Model-No.	Item No.	Function
WAP-0008	540538	Wireless Storage Access Point with a single 3.5" SATA or IDE harddisc bay

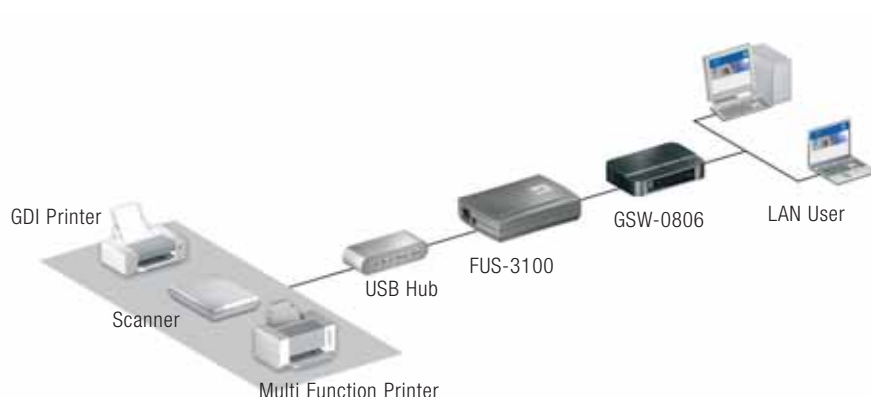
USB Universal Printer Server

The user-friendly Print Server solution is LevelOne FUS-3100. From now on cost-effective GDI-printer (hostbased) can be used at a printer server. Virtual USB port technology makes these printer network compatible. The User installs only his standard printer driver. The printer is after the successful driver installation available. Additional USB components (mass storage devices) can be used at the USB-port. FUS-3100 is fax over IP compatible.

1-Port USB/MFP Server

- common use of multifunction or GDU printers via the network through Net-USB protocol
- supports network scan and PC fax for multifunction printers (MFP)
- compatible with most GDI and MFP printers
- supports DHCP client
- utility for Windows 2000/XP
- easy installation via webbrowser

FUS-3100



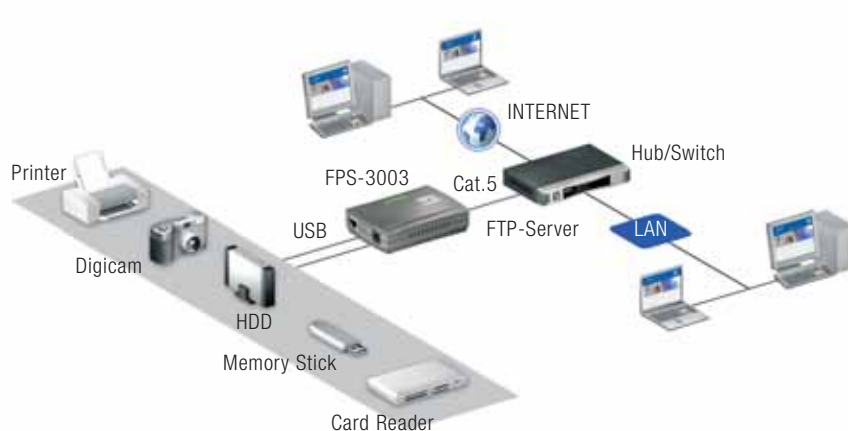
LevelOne USB Universal Printer Server

Model-No.	Item No.	Function
FUS-3100	501361	USB 2.0 network server for scan- and printfunction of multi functional printers (PC Fax included, if MFP supports it), 1x USB 2.0, 1xRJ45

USB Storage/Printer Server

2-Port USB/MFP Server

- provides two USB devices to the network
- supports print function for most USB printers and HP multifunction printers
- supports scan function for several HP multifunction printers
- supports standard USB storage devices as USB HDDs (FAT/FAT32), flashdrives, cardreader
- supports SMB and FTP file server
- supports SNMP v1/v2c/v3 management protocol
- 54Mbps wireless client function for wireless connection with 2.4GHZ access points (WUS-3200)
- easy installation via webbrowser
- Windows tool for Windows ME/2000/2003/XP



LevelOne USB/MFP Server

Model-No.	Item No.	Function
FPS-3003	501360	Multifunction server with 2 x USB 2.0, 1 x RJ45
WUS-3200	540532	Wireless multifunction server with 2 x USB 2.0, 1 x RJ45 + 54Mbps (802.11b/g)

Printer Server

- complies with IEEE802.3 10BaseT and 100BaseTX ethernet
- protocols: TCP/IP, NETBEUI, AppleTalk
- printer protocol: PTP over TCP/IP, NetBEUI, SMB, Ethernalk, IPP, LPR, RAW, Unix Logical
- supports operating systems Win/2000/ME/XP, MacOS9.x and above
- external power supply

Wireless Models:

- complies with 802.11b/g
- encryption: WEP 64/128bit, WPA-PSK
- detachable antenna



LevelOne Printer Server

Model-No.	Item No.	LAN Ports	WLAN	Printer Ports	Memory
FPS-9021	501921	10/100Mbps	-	1 x parallel	2 MB
FPS-9022	501922	10/100Mbps	-	1 x USB 2.0	2 MB
FPS-9023	501923	10/100Mbps	-	2 x USB 2.0, 1 x parallel	16 MB
WPS-9121	540121	10/100Mbps	54Mbps	1 x parallel	8 MB
WPS-9122	540122	10/100Mbps	54Mbps	1 x USB 2.0	8 MB
WPS-9123	540123	10/100Mbps	54Mbps	2 x USB 2.0, 1 x parallel	16 MB

Network Adapter

Fast Ethernet L2 SNMP switch card

- 32 Bit PCI v2.2 bus interface
- store-and-forward switching
- flow-control for full-duplex and back-pressure for half-duplex
- 256 Bytes memory for I/O or register I/O instructions and status register
- supports SNMP/RMON/DMI network management functions
- 32-Bit driver for maximum performance
- supports MDI/MDIX auto-uplink on each port
- supports expanded MAC functions for management server NIC

FNC-0600TXM



FNC-0600TXM

Fast Ethernet PCI card

- 32 Bit high performance PCI adapter
- complies with IEEE802.3 10BaseT & IEEE802.3u 100TX
- Full duplex 20/200Mbps with auto negotiation
- FIFO buffer for high data transfer with low processor load

FPC-0109TX



FPC-0109TX

Fast Ethernet PCI card WOL/BROM

- 32 Bit high performance PCI adapter
- complies with IEEE802.3 10BaseT & IEEE802.3u 100TX
- full duplex 20/200Mbps with auto negotiation
- FIFO buffer for high data transmission with low processor load
- optional smart remote boot ROM
- supports AMD magic packet and Microsoft

FPC-0107TX



FPC-0107TX

Fast Ethernet PCI card for fiber optic

- PCI-bus, 100Mbps, full/half duplex
- complies with IEEE802.3 standard
- 2 SC or ST (MM) jacks for Tx/Rx
- 50/125 & 62,5/125 fiber optic
- half duplex: max. 412m
- full duplex: max. 2000m

FPC-0103FX (ST)

FPC-0104FX (SC)



FNC-0104FX

Gigabit ethernet PCI card

- 32-bit high performance PCI adapter (66/33Mhz, PCI rev. 2.2/2.1)
- complies with IEEE802.3, IEEE802.3u, IEEE802.3ab and IEEE802.3x
- auto MDI/MDI-X 10/100/1000Mbps RJ45 connection
- supports IEEE802.3x full duplex flow control
- supports Wake On LAN
- supports IEEE802.1Q VLAN tagging

GNC-0105T



GNC-0105T

LevelOne Network Adapter

Model-No.	Item No.	Data Transmission Rate	Ports / Description
FNC-0600TXM	520056	10/100Mbps	5-port Fast Ethernet L2 SNMP switch card
FNC-0109TX	500202	10/100Mbps	Fast Ethernet PCI adapter 10/100Mbps RJ45 (Realtek chipset)
FNC-0107TX	500220	10/100Mbps	Fast Ethernet PCI adapter 10/100Mbps RJ45 (Realtek chipset), Wake-On-LAN
FNC-0103FX	504160	100Mbps	Fast Ethernet Fiber PCI adapter ST-Duplex 100Mbps
FNC-0104FX	504170	100Mbps	Fast Ethernet Fiber PCI adapter SC-Duplex 100Mbps
GNC-0105T	550022	10/100/1000Mbps	Gigabit PCI adapter 32Bit RJ45

LAN Adapter

Cardbus Network Adapter

- complies with IEEE802.3 and IEEE802.3u
- 32 Bit bus mastering
- low power consumption
- supports full and half duplex
- auto negotiation network connection

FPC-0106TX



FPC-0106TX

USB2.0 to Gigabit Ethernet Adapter

- enables gigabit LAN via USB2.0
- complies with IEEE802.3, IEEE802.3u, 802.3ab
- HotSwappable
- supports full/half duplex
- power supply via USB

USB-0201



USB-0201

USB 2.0 Docking Station

- 1 x RJ45 10/100Mbps LAN
- 2 x PS/2 keyboard/mouse
- 3 x USB 2.0 high speed downstream
- 1 x USB full speed upstream
- 1 x RS-232 serial DB-9
- 1 x VGA pass-through
- power supply via USB or included power supply

UDS-1000



UDS-1000

Bluetooth USB Adapter

- complies with bluetooth 1.1/1.2/2.0 standards
- data rate up to 3Mbps
- operating range up to 100m
- can be used parallel to WLAN devices (802.11) without any disturbances
- internet access with GPRS/CDMA compliant mobile phones

MDU-0005USB / MDU-0025USB



MDU-0025USB

LevelOne Network Adapter

Model-No.	Item No.	Data Transfer Rate	Ports / Description
FPC-0106TX	504131	10/100Mbps	Fast Ethernet PCI adapter 10/100Mbps RJ45 (Realtek chipset), Wake-On-LAN
USB-0201	540021	10/100/1000Mbps	USB 2.0 to RJ45 10/100/1000Mbps LAN adapter
UDS-1000	500100	10/100Mbps	Universal Docking Station USB2.0, VGA, LAN, PS/2, RS232
MDU-0005USB	590012	1Mbps	Bluetooth 1.1 adapter USB to Bluetooth Class 1 (<100m)
MDU-0025USB	590025	3Mbps	Bluetooth 2.0 adapter USB to Bluetooth Class 1 (<100m)



Wireless Surf & Call Box

The LevelOne router WBR-3470 provides cost effective phone calls and fast internet surfing. The reliable wireless LAN function guarantees mobile, comfortable internet access while an integrated ADSL2/2+ modem provides a stable connection. The stateful-packet-inspection firewall and WPA2 encoding ensure the necessary security for the internet connection. The LevelOne WBR-3470 works with up to date QoS standards to provide a high communication quality under high performance. Even unexperienced users can install the device easily with Easy-Sign-On technology.

Wireless Surf & Call Box

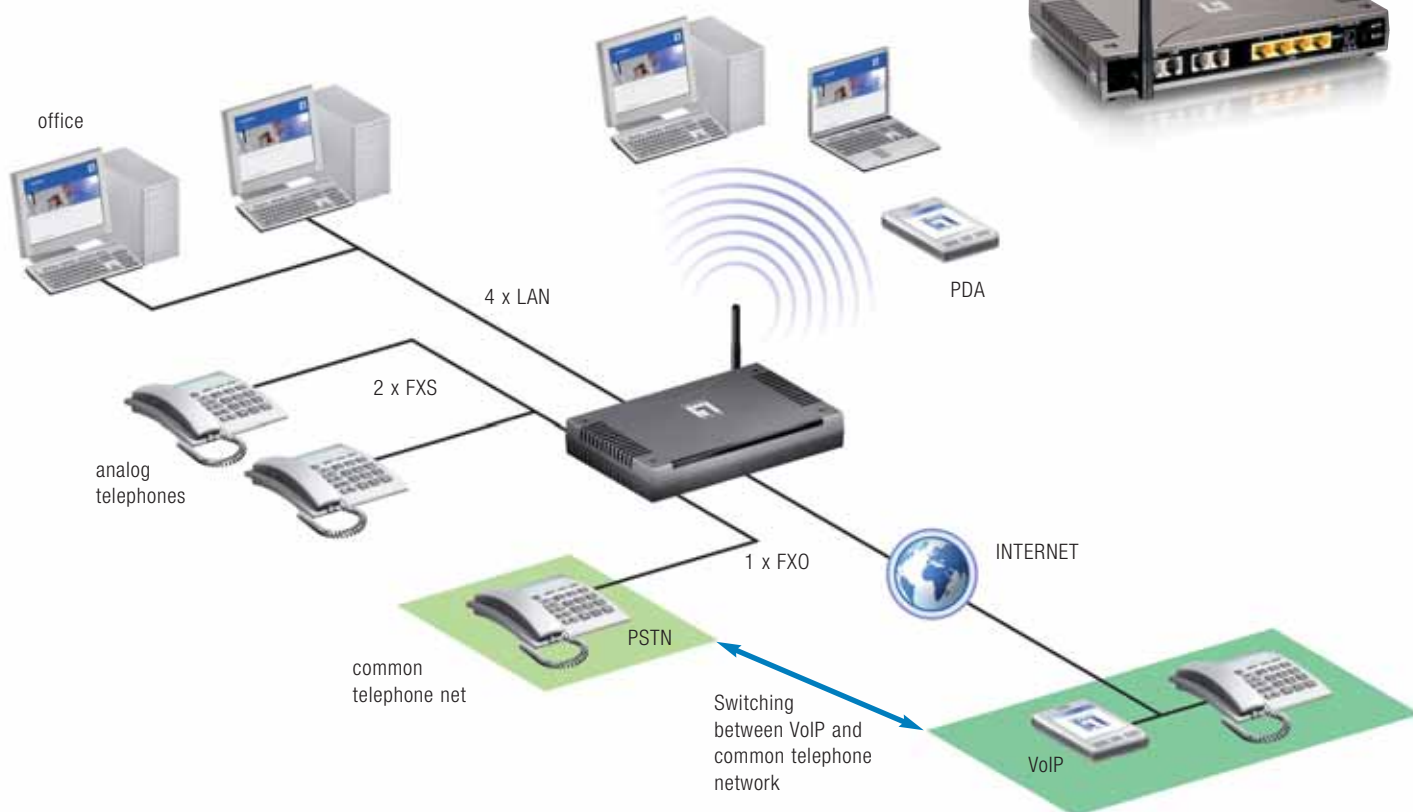
- 2x FXS ports (RJ11) for connection of analogue phones
- 1x FXO port (RJ11) for connection to the conventional telephone network
- complies with SIP (RFC3261) and supports communication codecs G.711, G.723.1 and 729.ab
- supports calling features like call waiting, call transfer (attended), call forward (busy / no answer / unconditional), call hold /retrieve, caller ID display/ blocking, anonymous call blocking
- integrated ADSL2/2+ modem and router function for common internet use
- 54Mbps wireless 802.11b/g with up to date encoding WPA-PSK/ WPA2-PSK
- security via SPI firewall with Anti-DoS

- QoS to optimize the data transmission and bandwidth control
- easy Sign-On (EZSO) technology for user friendly installation
- virtual private network (VPN) pass-through, DDNS, virtual server, etc.
- detachable antenna

WBR-3470



WBR-3470



LevelOne Wireless VoIP Modem Router

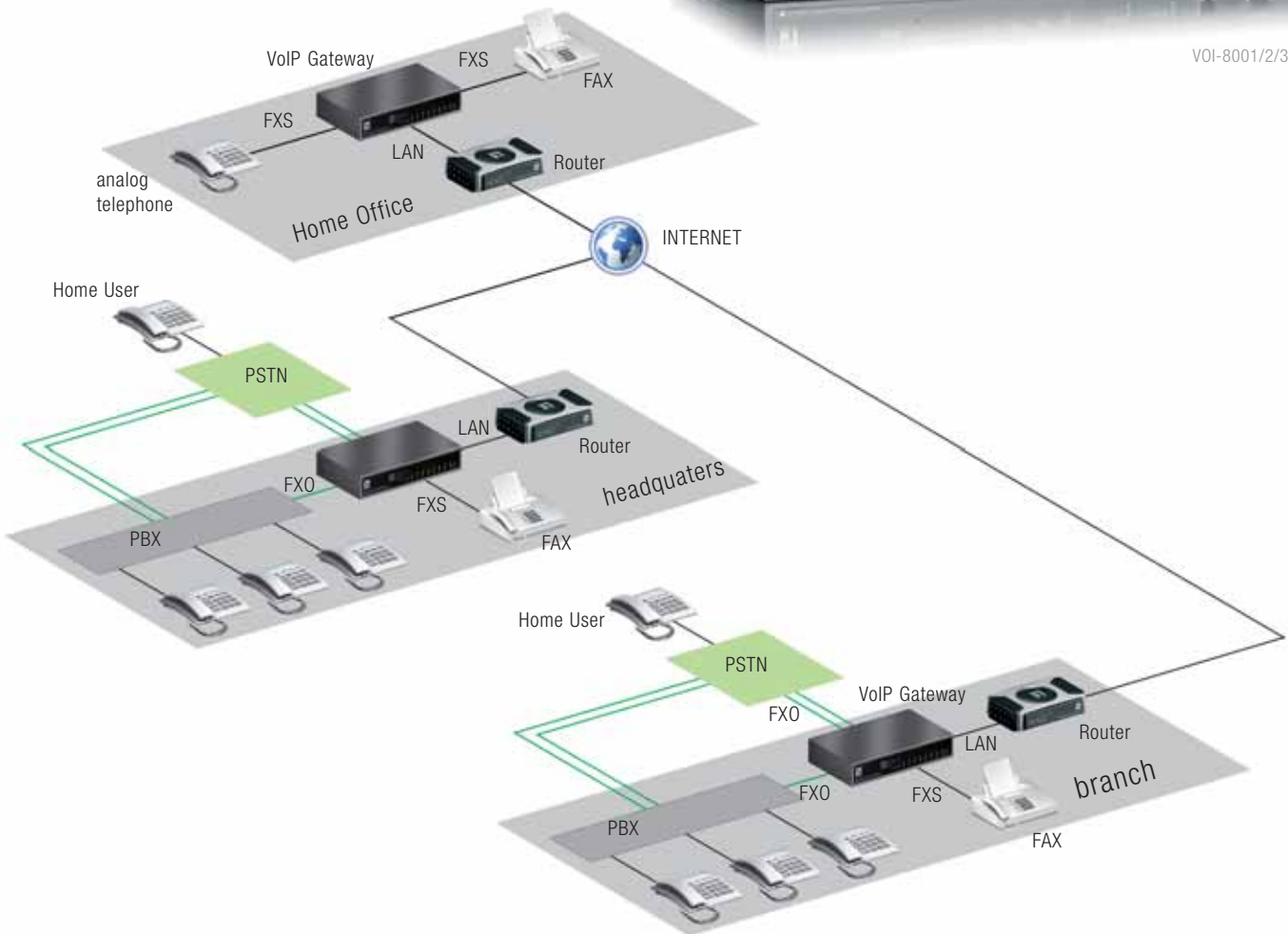
Model-No.	Item No.	Function/Connections
WBR-3470A	540565	Annex A: Wireless VoIP Modem Router with 2x FXS, 1x FXO, 1x ADSL, 4x LAN
WBR-3470B	540566	Annex B: Wireless VoIP Modem Router with 2x FXS, 1x FXO, 1x ADSL, 4x LAN

VoIP SIP/H.323 Gateways

Voice over IP provides cost effective phone calls via internet. The LevelOne VoIP SIP/H.323 gateways provide the necessary conditions. They enable the development of a worldwide communication structure, which works independent from the conventional telephone network.

VOI-8001 / VOI-8002 / VOI-8003

- enables simultaneous operation with H-323 and SIP
- FXS ports for connection of analog phones
- FXO ports for connection of analogfax ports of conventional switchboards
- registration at up to 4 SIP proxies or gatekeepers
- Quality of service (QoS) via ToS field
- network ports (RJ45): 1 x WAN, 3 x LAN
- SIP v2 standard according to RFC3261 (outbound proxy/STUN server)
- supported codecs: G.711, G.723.1, G.726, G.729a/G.729b
- fax conversion according to T.38
- provides Q.931 'fast start' for H.323 operation
- automatic detection of the carrier signal
- DTMF (dual tone multiple frequency)
- programmable switchboard numbers
- full router function with firewall, NAT, DHCP, PPPoE
- supports UPnP, DMZ and DynDNS
- web management



LevelOne SIP/H.323 Gateways

Model-No.	Item No.	Function / Connections
VOI-8001	511081	SIP/H.323 gateway with 8x FXS, 1x WAN, 4x LAN
VOI-8002	511082	SIP/H.323 gateway with 8x FXO, 1x WAN, 4x LAN
VOI-8003	511083	SIP/H.323 gateway with 4x FXS + 4x FXO, 1x WAN, 4x LAN

VoIP PBX

The LevelOne VOI-9200 is an IP PBX that provides various functions, security and progress. It combines conventional phone switch boards and VoIP functions.

SIP IP PBX with 2 FXO and 2 FXS ports

- complies with standard IETF SIP v2 RFC3261
- supports G723.1, G726, G729a/G729b, G711 A/μ-law codecs
- extensive voice-mail system with conference call
- intelligent routing for incoming and outgoing calls
- 30 extensions, 30 voicemail accounts and 10 parallel calls available
- configuration and installation via webbrowser

VOI-9200



SIP IP PBX with 4 FXO and 1 FXS port

- compatible with standard IETF SIP v2 RFC3261
 - supports G723.1, G726, G729a/G729b, G711 A/μ-law codecs
 - extensive voice-mail system with conference call and voice mails as mail attachment
 - intelligent routing for incoming and outgoing calls
 - 100 extensions, 100 voicemail accounts and 30 simultaneous calls available
 - supports Call Detailed Records (CDR)
- Quality of Service - TOS/VLAN
 - bugproof via tunneled connection (VPN PPTP)
 - instant messenger integration / web call function
 - configuration and installation via webbrowser

VOI-9300



LevelOne SIP IP PBX

Model-No.	Item No.	Function
VOI-9200	511092	SIP IP PBX with 2 FXO and 2 FXS ports, 4x LAN, 1x WAN, 1x USB2.0, 30/10 user
VOI-9300	511093	SIP IP PBX with 4 FXO und 1 FXS ports, 3x LAN, 1x WAN, 1x USB2.0, 100/30 user

VoIP Desk Phone

SIP Desktop Phone

- comfortable calls via network / internet
- supports up to 3 SIP accounts
- big LCD
- router function with PPPoE/DHCP (NAT,DDNS)
- triple conference function, speed calling and phone book
- easy configuration and installation via webbrowser / phone keyboard

VOI-7000

SIP Desktop Phone with PoE

additional features:

- power supply via network cable (power over ethernet according to 802.3af)

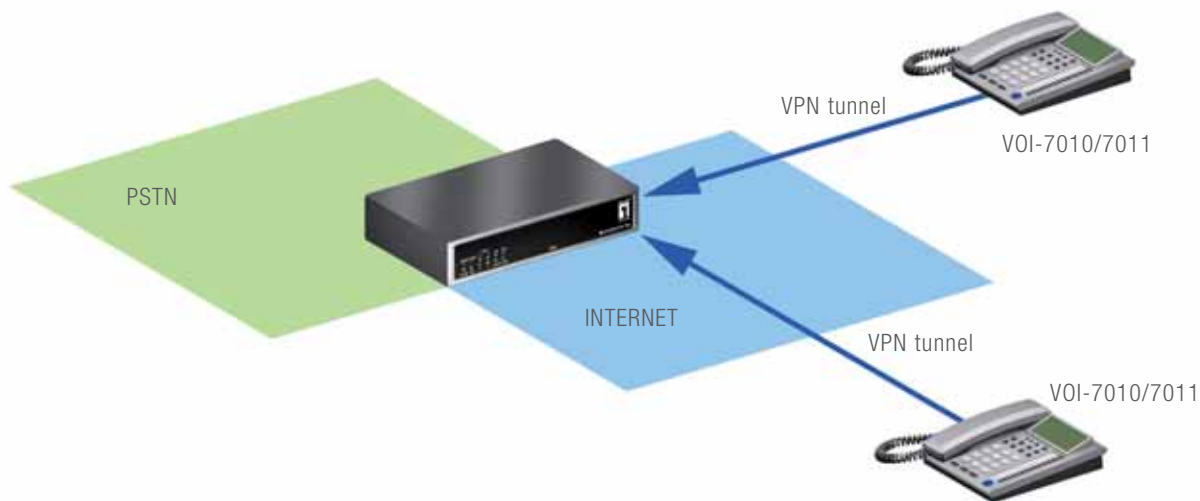
VOI-7100



VOI-7000

LevelOne SIP Desktop Phone

Model-No.	Item No.	Connections
VOI-7000	511070	2 x RJ45 10/100Mbps (LAN/WAN)
VOI-7100 (PoE)	511571	2 x RJ45 10/100Mbps (LAN/WAN)



VoIP Desk Phone Professional

SIP Desktop Phone Professional

- comfortable calls via network / internet
- supports up to 3 SIP accounts
- big LCD
- router function with PPPoE/DHCP (NAT,DDNS)
- triple conference function, speed calling and phone book
- bugproof through tunneled connection (PPTP VPN)

- FXO port for call forwarding from/in PSTN (VOI-7011)
- optional headset available
- easy configuration and installation via webbrowser / phone keyboard

VOI-7010/ 7011



VOI-7010



LevelOne Voice over IP Phone Desktop Professional

Model-No.	Item No.	Connections
VOI-7010	511072	1x LAN, 1x WAN, 1x RJ11 (Headset)
VOI-7011	511571	1x LAN, 1x WAN, 1x RJ11 (Headset), 1x FXO
DHM-1000	511074	Headset for VOI-7010/7011

Cable-/Desktop KVM Switch

Cable KVM switch

- supports USB or PS/2 mouse and keyboard
- no software necessary - easy PC selection via hotkeys
- autoscan mode for PC monitoring
- LEDs for status display
- operation without own power supply



KVM-0201



LevelOne Cable KVM Switch

Model-No.	Item No.	Ports	Connections
KVM-0201	590210	2	2 x PS2, 1 x HDDB15
KVM-0202	590220	2	1 x PS2, 1 x USB, 1 x HDDB15

Desktop KVM Switch

- space saving desktop version for monitoring or controlling of 2 resp. 4 PCs
- incl. 3in1 mini coaxial cable 1.8m
- hot plug removing or connecting of PCs without switching off the device
- supports Microsoft IntelliMouse, Explorer, Optical Mouse
- operation without own power supply
- high VGA resolution: 1920 x 1440, DDC2B



KVM-0405

LevelOne Desktop KVM Switch

Model-No.	Item No.	Ports	Console	Computer
KVM-0205	590230	2	2 x PS2 + HDDB15	2 x HDDB15
KVM-0405	590430	4	2 x PS2 + HDDB15	4 x HDDB15

Desktop KVM Switch with Audio

Desktop KVM Switch with Audio

- space-saving desktop version to control 2/4 PCs
- hot-plug - add or take out PCs without switching off the device
- audio support provides common use of PC speakers/mikrophone
- hotkey function - also for USB models
- KVM and audio cable included
- no external power supply necessary
- high VGA resolution: 2048 x 1536

KVM-0211/0221/0411/0421



KVM-0421

LevelOne KVM Switch with Audio

Model-No.	Item No.	Ports	Console	Computer
KVM-0211	590211	2	1xHDDDB15, 2xPS/2, 2x3.5mm (Audio)	2x (HDDDB15, PS/2, 2x 3.5mm)
KVM-0221	590221	2	1xHDDDB15, 2xUSB, 2x3.5mm (Audio)	2x (HDDDB15, USB, 2x 3.5mm)
KVM-0411	590411	4	1xHDDDB15, 2xPS/2, 2x3.5mm (Audio)	4x (HDDDB15, 2xPS/2, 2x 3.5mm)
KVM-0421	590421	4	1xHDDDB15, 2xUSB, 2x3.5mm (Audio)	4x (HDDDB15, USB, 2x 3.5mm)

Desktop USB KVM Switch

4-Port USB KVM Switch with USB HUB

- provides 4 USB upstream ports and VGA connections for switching between 4 PCs
- console port for PS/2 mouse and keyboard
- USB hub provides device sharing, e.g. all PCs share the connected scanner or printer
- provides switching via hotkeys and via button directly at the KVM switch
- included On-Screen-Display (OSD) utility software
- host smart selection to switch automatically to the next active host
- supports resolution up to 2048x1536
- incl. 4 x 1.8m cablessets

KVM-0407



KVM-0407

LevelOne USB KVM Switch

Model-No.	Item No.	Ports	Connections
KVM-0407	590460	4	4x PC (VGA/USB), 1x Console (VGA, PS/2), 3-Port USB-Hub

DVI Desktop KVM Switch

3-Port DVI KVM Switch with Audio

- provides 3 DVI ports for switching of 3 PCs
- connecting cablessets included
- console port for PS/2 mouse and keyboard
- audio support provides common use of PC speaker and microphone
- provides switching via hotkeys and via button directly on the switch
- hot swap function
- supports DVI UXGA resolution of 1600 x 1200@60Hz

KVM-0306



KVM-0306

LevelOne DVI KVM Switch with Audio

Model-No.	Item No.	Ports	Connections
KVM-0306	590470	3	DVI-D + USB and PS/2, 3.5mm (audio)

Professional KVM Switch

Professional 19" KVM switch

- auto-scan function
- programmable scan filter
- supports Microsoft IntelliMouse (Pro)
- system settings and name entries are stored in the non-volatile memory
- password protection for each connected PC available
- easy-to-use OSD
- easy access via hotkey functions
- plug&play configuration
- mouse and keyboard can be exchanged during operation
- VGA resolution 1920x1440



KVM-0410

LevelOne Professional KVM switch with OSD

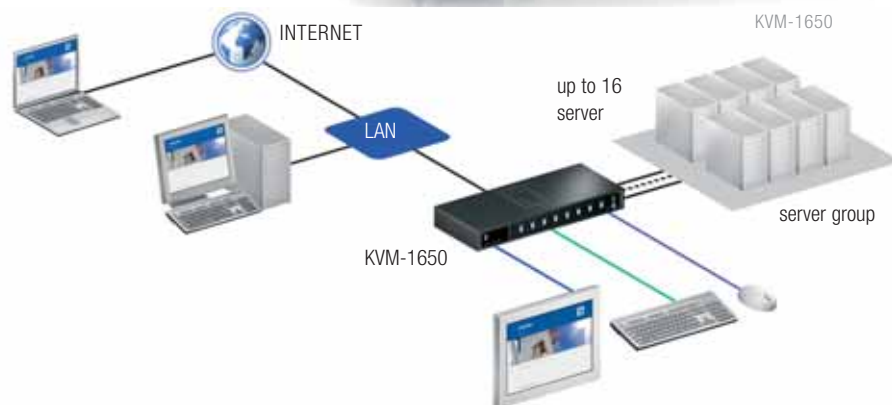
Model-No.	Item No.	Ports	Console	Computer
KVM-0410	590410	4	PS/2	4 x HDDB15
KVM-0420	590420	4	PS/2 + USB	4 x HDDB15
KVM-0811	590811	8	PS/2	8 x HDDB15
KVM-1611	590165	16	PS/2	16 x HDDB15

Professional 19" IP KVM Switch

- provides access for multiple users from the local console or via an IP network
- KVM 19", 1HU
- DB9 serial port for first configuration and for an external modem
- supports Microsoft IntelliMouse Explorer, Logitech Net Mouse or other MS-Mouse compatible mice
- hot plug - connecting and removing of PCs while the KVM or PCs do not have to be switched off
- excellent video quality - resolution up to 1920x1440, bandwidth: 200MHz
- auto scan mode
- OSD display for easy status overview
- supports DOS, Netware, Unix, Linux, Win3.X, Win95/ 98/ 98SE/ 2000/ ME/ XP, WinNT



KVM-1650



LevelOne Professional IP KVM Switch

Model-No.	Item No.	Function
KVM-0850	590910	IP Rackmount KVM switch 8-port PS/2, with OSD
KVM-1650	590920	IP Rackmount KVM switch 16-port PS/2, with OSD

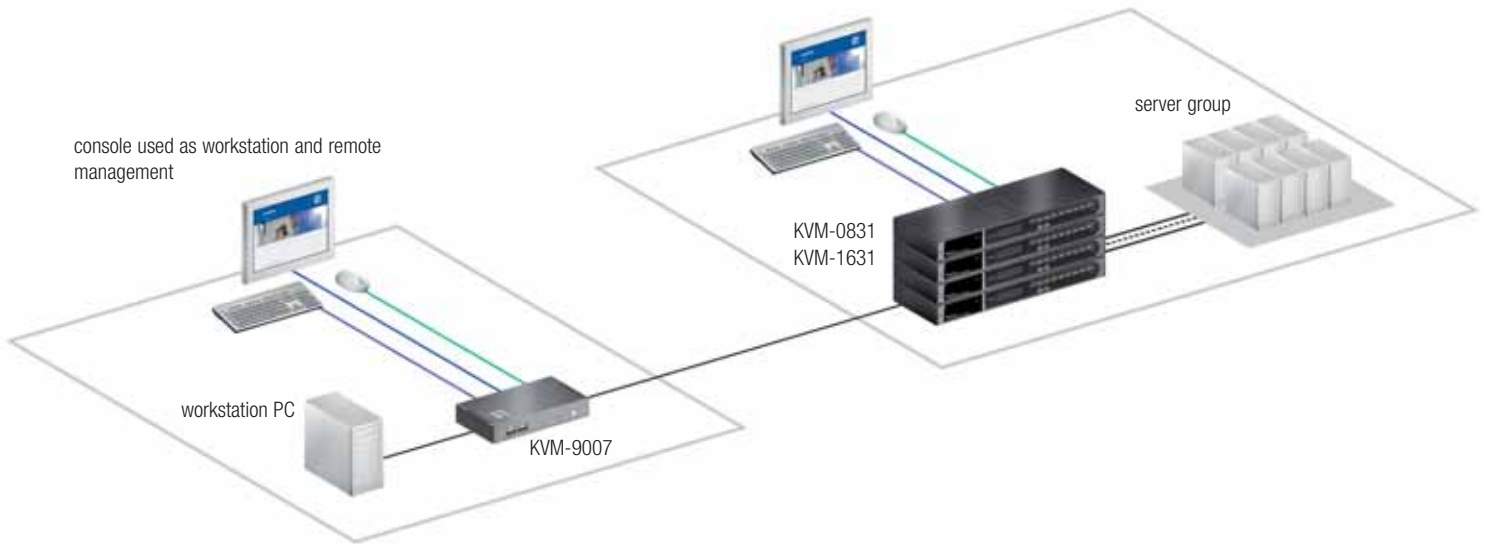
Cable sets for LevelOne KVM switches

Model-No.	Item No.	Function
ACC-2001	591010	1.8m cable for PS/2: KVM-0410, KVM-0420, KVM-0811, KVM-1611, KVM-0850, KVM-1650
ACC-2002	591020	3.0m cable for PS/2: KVM-0410, KVM-0420, KVM-0811, KVM-1611, KVM-0850, KVM-1650
ACC-2006	591050	6.0m cable for PS/2: KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2010	591060	10.0m cable for PS/2: KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2003	591030	1.8m cable for USB: KVM-0420
ACC-2004	591040	3.0m cable for USB: KVM-0420
ACC-2005	591070	5.0m cable for USB: KVM-0420

Professional Combo KVM Switch

19" Professional Combo KVM Switch

- 8/16 port KVM switch, 19" rack mountable
- Combo architecture with PS/2 and USB interface
- Integrated CAT.5 remote console port for server access up to 300m with KVM-9007
- IP-ready by using ACC-2000 instead of ACC-1000
- Daisy-chain port for cascading
- 8-times cascadable with KVM-0831/1631
- OSD for easy status control
- supports Windows, Netware, Unix, Linux, Mac OS and Sun Microsystems



LevelOne Professional Combo KVM switch

Model-No.	Item No.	Function
KVM-0831	590831	8-port KVM USB-PS/2 combo switch with Cat.5 remote console port (KVM-9007)
KVM-1631	590831	16-port KVM USB-PS/2 combo switch with Cat.5 remote console port (KVM-9007)
ACC-1000	591000	Cat.5 remote console module for KVM-0831, 1631, 0841, 1641
ACC-2000	591200	IP-module for KVM-0831, 1631, 0841, 1641
KVM-9007	590007	Cat.5 receiver as remote station for KVM-0830, 1630, 0831, 1631, 0841, 1641

Cable sets for LevelOne KVM switches

Model-No.	Item No.	Function
ACC-2101	591080	1.8m cable for PS/2 + USB: KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2102	591090	3.0m cable for PS/2 + USB: KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2103	591095	5.0m cable for PS/2 + USB: KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2109	591109	90cm daisy chain cable: KVM-0830, KVM-1630, KVM-0831, KVM-1631, KVM-0841, KVM-1641



19" Professional Combo Cat.5 KVM Switch

19" Professional Combo Cat.5 KVM Switch

- support full Cat.5 interface on all PC ports
- Expensive KVM cables can be replaced by Cat.5 cables
- supports high resolution up to 1600x1200
- supports one local console and optional Cat.5 remote console KVM-9007 (in combination with ACC-1000 Cat.5 console module)
- no further software necessary - PCs are selected per On Screen Display (OSD), buttons and hotkeys
- supports ACL (Access Control List) security functions. 8 independent ACLs can be created
- hotplug - adding or removing of PCs can be done during operation
- daisy chain capable (8 units)



KVM-1641



KVM-9007



ACC-3000

LevelOne Professional Combo Cat.5 KVM Switch

Model-No.	Item No.	Function
KVM-0841	590840	8-port USB-PS/2 combo Cat.5 switch with Cat.5 remote console port (KVM-9007)
KVM-1641	590840	16-port USB-PS/2 combo Cat.5 switch with Cat.5 remote console port (KVM-9007)
ACC-1000	591000	Cat.5 remote console module for KVM-0831, 1631, 0841, 1641
ACC-2000	591200	IP-module for KVM-0831, 1631, 0841, 1641
ACC-3000	591300	remote adapter (USB+PS/2) for KVM-0841, 1641
KVM-9007	590007	Cat.5 receiver as remote station for KVM-0830, 1630, 0831, 1631, 0841, 1641

19" KVM TFT Console - Professional

- telescopic 19" KVM TFT keyboard drawer
- incl. TFT display, keyboard, touchpad,
19" slide-in rails
- connections: PS/2 and VGA jacks
- compatible with all standard KVM switches
- supported operating systems: DOS, Linux,
Novell 3.12-6, HP UX, SUN, Windows
(3.1/9x/2000/NT4/ME/XP/2003 server)
- only 1 HU in 19" cabinet
- TCO-03 conform
- color: black
- resolution:
15" TFT display: 1.024 x 768 pixel
17" TFT display: 1.280 x 1.024 pixel



LevelOne KVM Console - Professional

Model-No.	Item No.	Function
KVM-0115DE	590616	15" KVM TFT console with German keyboard
KVM-0115US	590615	15" KVM TFT console with US-English keyboard
KVM-0117DE	590618	17" KVM TFT console with German keyboard
KVM-0117US	590617	17" KVM TFT console with US-English keyboard
KVM-0817DE	590626	17" KVM TFT console (German keyboard layout) with integrated 8-port KVM-switch (KVM-0830)
KVM-0817US	590625	17" KVM TFT console (US-English keyboard layout) with integrated 8-port KVM-switch (KVM-0830)
KVM-1617DE	590628	17" KVM TFT console (German keyboard layout) with integrated 16-port KVM-switch (KVM-1630)
KVM-1617US	590627	17" KVM TFT console (US-English keyboard layout) with integrated 16-port KVM-switch (KVM-1630)

Cable sets for LevelOne KVM Switches

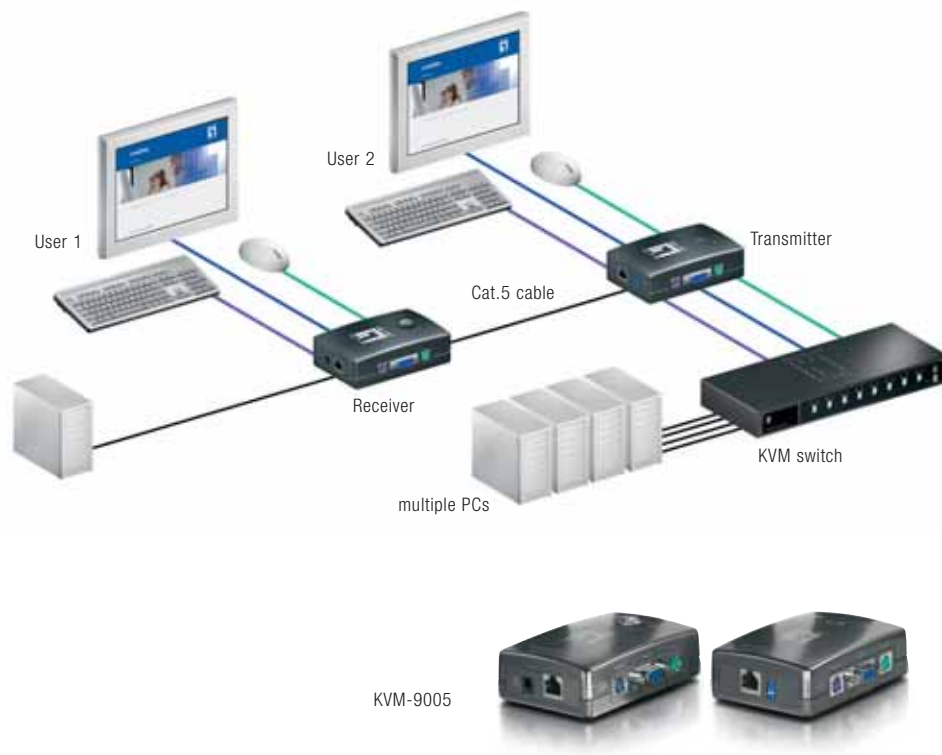
Model-No.	Item No.	KVM Connection Cable	Compatible with KVM Switch
ACC-2001	591010	1.8m cable for PS/2	KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2002	591020	3.0m cable for PS/2	KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2006	591050	6.0m cable for PS/2	KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2010	591060	10.0m cable for PS/2	KVM-0410, KVM-0420, KVM-0811, KVM-1611
ACC-2003	591030	1.8m cable for USB	KVM-0420
ACC-2004	591040	3.0m cable for USB	KVM-0420
ACC-2005	591070	5.0m cable for USB	KVM-0420
ACC-2101	591080	1.8m cable for PS/2 + USB	KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2102	591090	3.0m cable for PS/2 + USB	KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2103	591095	5.0m cable for PS/2 + USB	KVM-0830, KVM-1630, KVM-0831, KVM-1631
ACC-2109	591109	90cm daisy chain cable	KVM-0830, KVM-1630, KVM-0831, KVM-1631



ACC-2001

KVM Cat.5 Extender

The LevelOne KVM extender provides control of one PC or KVM switch up to a distance of 150m. Transmitter and receiver are connected via standard UTP or STP patchcables.



KVM Cat.5 Extender

- remote console up to 150m
- supports ethernet cables Cat.5/6
- high VGA resolution up to 1280 x 1024
- LEDs for power supply and data transmission
- Tuner at receiver for manual adjustment of the video signal
- function with KVM switches and single PCs
- cascadable for 2 remote clients
- no software necessary
- incl. connection cable 0,90m (from PC or KVM switch to console)

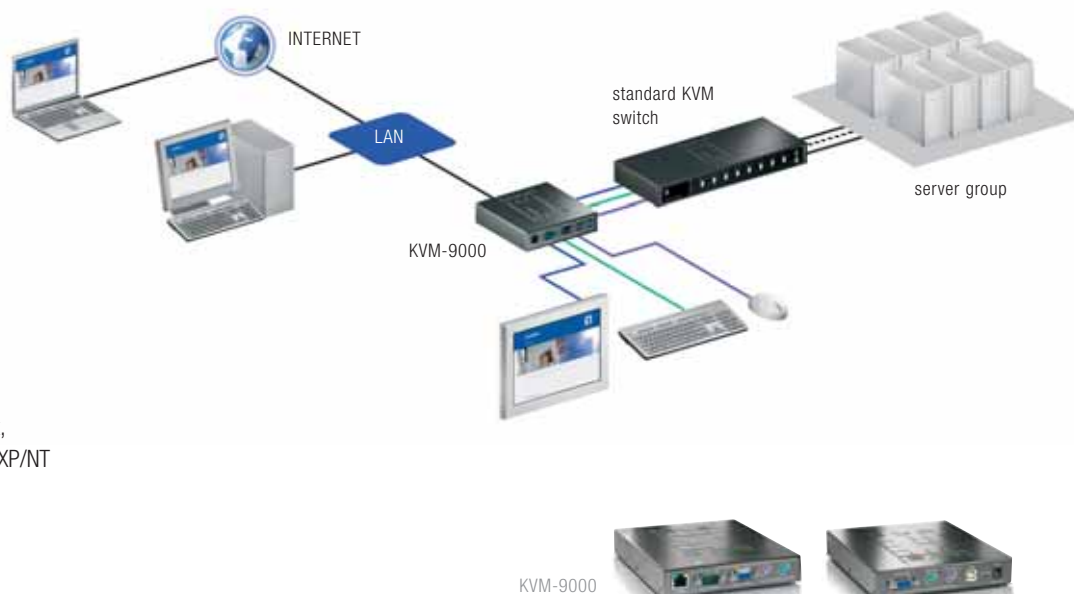
LevelOne KVM Cat.5 Extender

Model-No.	Item No.	Connections
KVM-9005	590005	PS2, RJ45, HDB15

IP KVM Extender - Professional

IP KVM Extender

- extends each KVM switch with IP function
- KVM access via IP, ISDN or analog phone line
- no use of server performance
- automatic recognition of resolution for best images
- high performance mouse tracking and synchronization
- suppression of local mouse
- reset/power option via internet
- supports DOS, Netware, Unix, Linux, Win3.x, Win95/98/98SE/2000/ME/XP/NT



LevelOne IP KVM Extender

Model-No.	Item No.	Connections Console	Connections PC
KVM-9000	590000	2 x PS2, 1 x VGA, 1 x USB	1 x LAN RJ45, 1 x seriell DB9, 2 x PS2, 1xVGA

Video Extender

DVI Extender via 4 fiber cables

- transmits digital DVI signals via fiber optic cable up to 500m
- provides high-resolution image quality
- supports VGA, SVGA, XGA, SXGA and UXGA resolution
- signal is protected against any electrical interference
- bridging of long distances via lower attenuation of the fiber cable
- LC connection

DVE-0500

HDMI Extender via 4 fiber cable

- provides long distance digital image transmission via fiber optic cable up to 200m
- provides high-resolution image quality
- supports VGA, SVGA, XGA, SXGA and UXGA resolution
- signal is protected from any electrical interference
- Fiber optic provides for a low attenuation and greater distance solution
- supports HDCP (High-Bandwidth Digital Content Protection)
- LC connection type

HVE-0200



DVE-0500

LevelOne Video Extender

Model-No.	Item No.	Function
DVE-0500	590500	DVI Extender via 4 Fiber Channel, LC (500m)
HVE-0200	590200	HDMI Extender via 4 Fiber Channel, LC (200m)

Media AV Cat.5 Extender - VGA

Digital information systems for customers

(Digital Signage Systems) become more and more important. They can be found at airports, banks, hotels or stores.

The LevelOne audio/video extender system enables real time broadcast of audio/video data to any display. Multimedia contents can be sent from any PC up to a distance of 150m. Cat.5 or Cat.6 patchcables are used for data transfer between transmission and receiver. This cost effective solution is ideal for presentation of information at any required place.

AV-Display System

- real time transmission of multimedia contents
- audio/video transmission via Cat.5/6 patchcable to any display
- Distances up to 150m between sender and receiver
- supports VGA resolution up to 1280 x 1024@85Hz
- supports daisy chain with other AV extenders
- easy installation, no software necessary
- including cable 0,9m from PC or KVM switch to console
- compatible with DOS, MS Windows, Linux, Unix and Netware
- connections HD15F for VGA, 3,5 stereo jack for audio as well as RJ45 for Cat.5/Cat.6 cable



AVE-9200



AVE-9201



AVE-9205

LevelOne Media AV Cat.5 Extender - VGA

Model-No.	Item No.	Function
AVE-9200	579200	audio/video receiver 1-port Cat.5, VGA OUT
AVE-9201	579201	audio/video sender 1-port Cat.5, VGA IN
AVE-9205	579205	audio/video sender 5-port Cat.5, VGA IN

Media AV Cat.5 Extender - DVI

The LevelOne audio/video extender and splitter series is a perfect possibility to present advertising and information on different locations simultaneously.

There are various and cost effective fields of application, e.g. in waiting rooms, train stations, airports, stores, supermarkets, on fairs etc.

1-port DVI signal transmitter

- DVI signal transmission distance up to 70 meters at 1024 x 768 resolution (in combination with ADE-8002)
- DVI signal transmission distance up to 16 meters at 1024 x 768 resolution (in combination with ADE-8001)
- supports following resolutions: 800x600, 1024x768, 1280x1024, 1920x1200

ADE-8201



ADE-8201

2/4/8x DVI transmitter with audio

- transmits DVI signal via Cat.5, Cat.5e, Cat.6 cable
- transmits audio via 4-wire phone cable
- DVI signal sender for distances up to 70 meters at 1024 x 768 resolution
- supports high DVI resolution up to 1920 x 1200
- easy installation and no software necessary
- supports following resolutions: 800x600, 1024x768, 1280x1024, 1920x1200

ADE-8202/ ADE-8204/ ADE-8208



ADE-8202

ADE-8204/8208

Short range DVI-D signal receiver

- DVI transmission range up to 25m at 1024 x 768 resolution in combination with ADE-8202/8204/8208
- DVI transmission range up to 15m at 1024 x 768 resolution in combination with ADE-8201

ADE-8001



ADE-8001

Long distance DVI-D signal receiver

- external DVI signal receiver
- operates with Cat.5-, Cat.5e-, Cat.6-cables
- DVI transmission range up to 70m at 1024x768 pixel
- supports high DVI resolutions up to 1920x1200 (short distances)
- easy to install, no additional software necessary
- compatible with ADE-8201/8202/8204 and 8208

ADE-8002



ADE-8002

Stereo audio transmitter / receiver

- Transfers stereo audio signals via 4-wire telefon cable
- extended audio data transmission rate up to 100m
- 2 pcs needed (1 sender + 1 receiver)

ADE-8011



ADE-8011

LevelOne Media AV Cat.5 Extender - DVI

Model-No.	Item No.	Function	Interface	Distance / Resolution
ADE-8201	592201	1-port DVI transmitter	DVI-D	70m @ 1024 x 768
ADE-8202	592202	2-port DVI transmitter/splitter	DVI-D / Audio	70m @ 1024 x 768
ADE-8204	592204	4-port DVI transmitter/splitter	DVI-D / Audio	70m @ 1024 x 768
ADE-8208	592208	8-port DVI transmitter/splitter	DVI-D / Audio	70m @ 1024 x 768
ADE-8001	592001	DVI Receiver	DVI-D	15m @ 1024 x 768
ADE-8002	592002	DVI long range receiver	DVI-D	70m @ 1024 x 768
ADE-8011	592011	stereo audio transmitter/receiver	Audio	100m

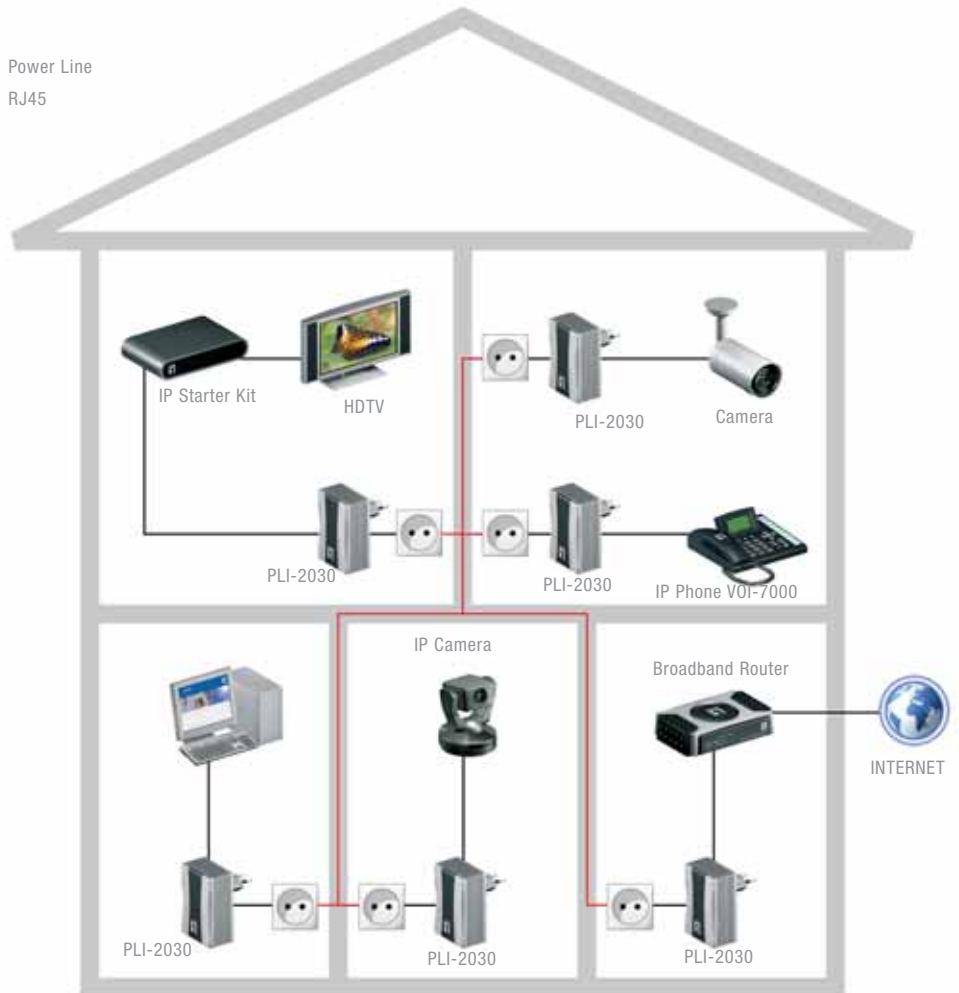
HomePlug Adapter

LevelOne PLI-2030 homeplug adapters makes it easy to build up an own home network. Therefore the home power supply system is used as a broadband network connection. An integrated Quality of Service (QoS) makes sure that necessary broadband for high-tech video- and audiotransfers is available. The LevelOne PLI-2030 is the best solution for VoIP, video/audio transfers, HDTV-streams or gaming consoles, as it works with data transfer rates up to 200Mbps. 128 bit-AES-encryption ensures safe data transmission



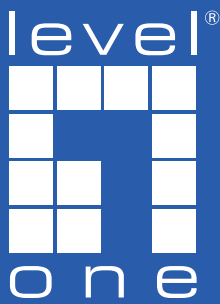
HomePlug 200Mbps AV Ethernet Bridge

- developed for high definition audio and video streaming
- data transfer rate up to 200Mbps according AV standard (AudioVision)
- integrated QoS function for prioritized A/V data stream
- secure 128bit AES encoding for extended network security
- plug&play for fast and easy installation and configuration



LevelOne Homeplug Adapter

Model-No.	Item No.	Function	Speed
PLI-2030	581009	HomePlug AV Ethernet Bridge, 1x RJ45	200Mbps
PLI-2030-E2	581010	2 x Homeplug AV Ethernet Bridge (Starter Kit)	200Mbps



one world_one brand_one level_

Distributed by:

Digital Data Communications
Belgium N.V.
info@digital-data.be

Digital Data Communications
Scandinavia ApS
info@digital-data.dk

Digital Data Communications
Slovenija d.o.o.
info@digital-data.si

Digital Data Communications
Nederland B.V.
info@digital-data.nl

Digital Data Communications
GmbH Germany
vertrieb@digital-data.de

Digital Data Communications
South Africa
acl@ddcsa.co.za

Digital Data Communications
Asia Co., Ltd.
sales@ddcasia.com.tw

Digital Data Communications
Sverige AB
info@digital-data.se

Digital Data Communications
Ibéria Lda.
ddc@ddc.pt
ddc.spain@digital-data.info

Digital Data Communications
MENA FZ-LLC - Dubai - U.A.E.
sales@ddcmena.com

Digital Data Communications
Italia
info.italy@levelone.eu

Digital Data Communications
Brazil
marcio@ddcbrazil.com.br

Digital Data Communications
Australia Pty Ltd.
info@ddcau.com.au

Digital Data Communications
Iran
info@ddcpersia.com

Digital Data Communications
Hellas Ltd.
info@ddc.gr

Catalog 2008

All information in this catalogue is subject to change. The technical data refers to manufacturer's information provided. All orders are based on our terms – ask for a copy for you reference. All cable lengths may vary up to 5%. The printed logos and trade-marks are property of their owners. We take no responsibility for errors or missing information. Reproduction in parts or in full requires our written permission. Unauthorized reproduction will be prosecuted.