

10/100/1000M Base-TX to 1000Base-FX (optional SFP) PoE(PSE) Media Converter

The LS1000-aaa-b-c is an unmanaged PoE switch that supports 10/100/1000M and provides both data and power through a single network cable. It also functions as an Ethernet power source, identifying connected devices such as IP cameras that comply with the IEEE 802.3af and 802.3at standards to supply power to them. Deploying wireless APs, IP cameras, and other network-based equipment is made effortless with this switch.



FEATURES

- Comply to IEEE 802.3, IEEE 802.3u, IEEE 802.3af, IEEE 802.3at
- 10/100/1000M self-adaptive, down link ports support PoE
- All the ports support Auto MDI/MDIX
- Each PoE port support power up to 154W (IEEE 802.3af) 25.5W (IEEE 802.3at)
- Comply to Power Device (PD) applied to IEEE 802.3af / at
- Support IEEE802.3x Full duplex flow control and duplex backpressure flow control function
- Automatic MAC address learning and aging
- 1K MAC address
- 1.6G Broadband and 96Kb forwarding memory
- High performance full load power configuration
- LED indicator monitor working status and help fault detection

SPECIFICATIONS

Data Rates	
Type	Dual fiber / single fiber
Network Ports	10/100/1000Mbps RJ45 port AUTO Negotiation/AUTO MDI/MDIX 1000Mbps SC fiber connector
PoE Distance	100m
Transmission Method	Store-And-Forward
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) 100BASE-TX: UTP category 3, 4, 5 cable (maximum 100m) 1000BASE-TX: UTP category 5 cable or above(maximum 100m) Single mode 20Km or Multi mode 2Km
Performance Specifications	Bandwidth: 1.6 Gbps Network latency: <4μs for 64-byte frames in store-and forward mode for 1000 Mbps to 1000 Mbps transmission Buffer memory: 512KBytes per system Address database size: 4,000 media access control (MAC) ad ; Addressing: 48-bit MAC address ; Acoustic noise: <38 dBA ; Mean time between failures (MTBF): 458,124 hours at 25C ;
Network Protocol and Standards	IEEE 802.3 10BASE-T ; IEEE 802.3u 100BASE-TX ; IEEE 802.3ab 1000BASE-T ; IEEE 802.3z 1000BASE-X ; IEEE 802.3x full-duplex flow control ; IEEE 802.3af (Power over Ethernet Plus)
Power Supply	48-52VDC; plug is localized to country of sale
Environmental Specifications	Operating temperature: -10°C to 75°C ; Storage temperature: -20°C to 85°C ; Operating humidity: 10%-90% maximum relative humidity, RH non-condensing ; Storage humidity: 5%-90% maximum relative humidity, RH non-condensing
Diameter	94L x 70W x 26H mm

LED INDICATOR DESCRIPTION

LED Indicator Name	Status	Description
Power indicator : PWR	ON	Power is on and the device is working
	OFF	Power is off
PoE indicator : PoE	ON	Connected PD device, working properly
	Blink	Short circuit or current overload
	OFF	No connected PD device or No power supply
Fiber indicator : FX	ON	Fiber link were connected properly
	Blink	Fiber port work properly
	OFF	Not connected or fiber link broken down
Link indicator : L/A	ON	Connected to 10/100M device
	Blink	Data transmission properly
	OFF	Not connected to device or TP link broken down

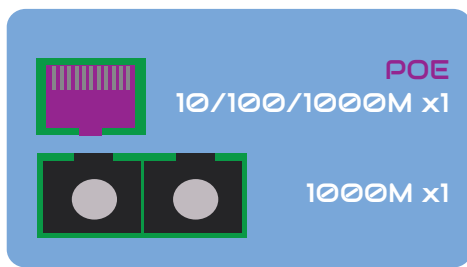
NOTE: please confirm that the PD devices are complying with IEEE 802.3af / at standard.

Priority: this function will protect device when it is overload, if all PD consumption are higher than specified, switch port will be sorted by priority, port 1, port 2 port N then power supply of lowest priority will be off.

Power adaptor: please use 48-52VDC power supply to input to the switch, the switch will be damaged if use mismatched power supply (For internal power supply type switch, please input AC110-245V/50Hz)

PoE port: Each RJ5 port include PoE function, it can transmit power and data when connected matching device, you can estimate the working status of each port on front panel LEDs

FUNCTIONAL DIAGRAM



ORDERING INFORMATION

PN	DESCRIPTION
LS1000-aaa-b-c	10/100/1000M Base-TX to 1000Base-FX (optional SFP) PoE(PSE) Media Converter
aaa	
SFP Slot	
SFP	SFP slot
Duplex Fiber, SC Connector	
D02	10/100/1000 Mb/s Multimode 1310nm, 2km, Duplex SC
D20	10/100/1000 Mb/s Singlemode 1310nm, 20km, Duplex SC
D40	10/100/1000 Mb/s Singlemode 1310nm, 40km, Duplex SC
D60	10/100/1000 Mb/s Singlemode 1310nm, 60km, Duplex SC
D80	10/100/1000 Mb/s Singlemode DFB 1550nm, 80km, Duplex
Single Fiber, SC Connector	
S2035	10/100/1000 Mb/s Singlemode 1310/1550nm, 20km, Simplex SC
S2053	10/100/1000 Mb/s Singlemode 1550/1310nm, 20km, Simplex SC
S4035	10/100/1000 Mb/s Singlemode 1310/1550nm, 40km, Simplex SC
S4053	10/100/1000 Mb/s Singlemode 1550/1310nm, 40km, Simplex SC
S6035	10/100/1000 Mb/s Singlemode 1310/1550nm DFB, 60km, Simplex SC
S6053	10/100/1000 Mb/s Singlemode 1550/1310nm DFB, 60km, Simplex SC
b	
S	Standalone External Power Supply
R	Rackmount Card/Rackmount Card
c	
1	IEEE 802.3 af/ Output Voltage 48V / Output Current 0.35A Max / Output Power 15.4W Max
2	IEEE 802.3 at/ Output Voltage 48V / Output Current 0.54A Max / Output Power 25W Max