



Ultra PoE Injector Hub

ELM-UPOE-INJ-8

8-Port Gigabit 60W Ultra PoE Managed Injector Hub (400W)

The ELM-UPOE-INJ-8, a cost-effective and quick Ultra PoE solution, is designed to perfectly upgrade an existing network infrastructure to Ultra Power over Ethernet network system without replacing the existing Ethernet Switch.



The ELM-UPOE-INJ-8 is a high-density, rack-mountable managed Ultra PoE injector hub featuring intelligent PoE functions through web user interface for remote management. It provides 8 10/100/1000BASE-T Ethernet ports featuring Ultra PoE injector with a total PoE budget of 400 watts. Each PoE port can deliver up to 60-watt power over Cat.5/5e/6 Ethernet UTP cables which allow data and power to transmit simultaneously to a remote 60W and 802.3at/af powered device (PD), such as PoE UltraPod™.

Quick and Easy PoE Network Deployment

The ELM-UPOE-INJ-8 is installed between a regular Ethernet Switch and the PoE UltraPod™. There are 16 RJ45 STP ports on the front panel of the UPOE-800G, of which the 8 ports are on the lower stack functioned as "Data input" while the other 8 ports are on the upper stack functioned as "PoE (Data and Power) output". Both power and data are transferred simultaneously over the UTP cables to the PoE UltraPod™ without affecting the existing network performance and functions.

Interface

- Complies with the IEEE 802.3, IEEE 802.3u and IEEE 802.3ab Ethernet standards
- 16-port RJ45
 - 8-port 10/100/1000Mbps "Data input"
 - 8-port 10/100/1000Mbps "Data + Power output"
- One 10/100/1000BASE-T management port

Power over Ethernet

- Ultra Power over Ethernet end-span/mid-span PSE
- Up to 60 watts of power on 4-pair UTP
- Backward compatible with IEEE 802.3at/af PD device
- 54V DC, 60-watt PoE power output at maximum on each port
- 400-watt PoE budget
- Auto-detection of IEEE 802.3at/af PoE equipment and device to avoid possible damage by incorrect installation
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

PoE Management

- Per port PoE power schedule
- PoE function enable/disable
- Per port PoE function enable/disable
- PoE port power feeding priority
- PD classification detection
- Over temperature protection
- PD alive check
- PoE schedule

Management

- Web interface for remote management
- Supports Network Time Protocol (NTP)
- Firmware upgrade through Web interface
- SNMP trap for alarm notification of events
- System log/remote syslog

Hardware

- 19-inch rack mountable; 1U height
- Reset button for resetting to default setting and system reboot
- LED indicators for PoE ready and PoE activity
- LED indicators for power alert and fan alert
- LED indicators for PoE power usage status (watts)
- FCC Part 15 Class A, CE

Specifications

Model		ELM-UPOE-INJ-8
Hardware		
Interface	"Data" Input Ports	8 x RJ45
	"Data + Power" Output Ports	8 x RJ45
	Management Port	1 x RJ45; 10/100/1000BASE-T, auto-negotiation, auto-MDI/MDIX
Data Rate		10/100/1000Mbps
LED	System: SYS PWR x 1 (Green) PoE Failure x 1 (Red) Fan Failure x 2 (Red) Management port x 2: 1000 (Green), 10/100(Orange) Per PoE Port: Ultra 60W PoE-in-use x 1 (Green) 802.3at/af PoE-in-use x1 (Orange) PoE Power Usage LED x4 (Green)	
Power Requirements		100-240V AC, 50/60 Hz, 6.5A
Power Consumption		520 watts (max.)/1774BTU
Ventilation		Fan x 3
Dimensions (W x D x H)		440 x 300 x 44.5 mm, 1U height
Enclosure		Metal
Weight		4.2kg
Power over Ethernet		
PoE Standard	IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus 4-pair Ultra PoE	
PoE Power Supply Type	End-span/Mid-span/UPoE(Ultra PoE)	
Power Pin Assignment	Pair 1 end-span: 1/2(-), 3/6(+) Pair 2 mid-span: 4/5(+), 7/8(-) UPoE: 1/2(-), 3/6(+),4/5(+), 7/8(-)	
PoE Power Output	DC 54V/60-watt PoE via 4-pair DC 54V/30-watt PoE via 2-pair	
PoE Power Budget	400 watts/1364BTU	
Number of 60W PDs can be powered	6	
Number of 802.3af PDs (Class 0, 1, 2, 3) can be powered	8	
Number of 802.3at PDs (Class 1, 2, 3) can be powered	8	
Number of 802.3at PDs (Class 0, 4) can be powered	8	
Management		
Management Interface	Web, PLANET Smart Discovery Lite	
PoE Management	Power limit by consumption and allocation PoE admin mode Per port power schedule Per port power enable/disable Power feeding priority Over temperature protection Current per port usage and status Total power consumption PD alive check Scheduled power recycling	
Management Feature	Setup of system/management functions Web firmware upgrade SNMP trap for alarm notification of events	
Standards Conformance		
Regulatory Compliance	FCC Part 15 Class A, CE	
Standards Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3af Power over Ethernet RFC 768: UDP RFC 791: IP RFC 2068 HTTP RFC 1157: SNMP v1 RFC 1902: SNMP v2c RFC 5424: Syslog	
Network Cable	10BASE-T: 4-pair UTP Cat5 up to 100m (328ft) 100BASE-TX: 4-pair UTP Cat5 up to 100m (328ft) 1000BASE-T: 4-pair UTP Cat5e/6 up to 100m (328ft) EIA/TIA- 568 100-ohm STP (100m)	
Environments		
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 90% (non-condensing)	
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 90% (non-condensing)	