Ultra PoE Injector Hub
ELM-UPOE-INJ-16

16-Port Gigabit 60W Ultra PoE Managed Injector Hub (600W)

The ELM-UPOE-INJ-16, 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-16 is a high-density, rack-mountable managed Ultra PoE injector hub featuring intelligent PoE functions through web user interface for remote management. It provides 16 10/100/1000BASE-T Ethernet ports featuring Ultra PoE injector with a total PoE budget of 600 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-16 is installed between a regular Ethernet Switch and the PDs. There are totally 32 RJ45 STP ports on the front panel of the UPOE-1600G, of which the16 ports are on the lower stack functioned as "Data input" while the other 16 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 PDs without affecting the existing network performance and functions

Interface
- Complies with the IEEE 802.3, IEEE 802.3u and IEEE 802.3ab Ethernet standards
- 32-port RJ45
   - 16-port 10/100/1000Mbps "Data input"
   - 16-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
- 52V DC, 60-watt PoE power output at maximum on each port
- 600-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

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Specifications

Model			ELM-UPOE-INJ-16
Hardware			
Interface	"Data" Input Ports		16 x RJ45
	"Data + Power" Output Ports		16 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, 8A
Power Consumption			800 watts (max.)/2729BTU
Ventilation			Fan x 3
Dimensions (W x D x H)			440 x 300 x 44.5 mm, 1U height
Enclosure			Metal
Weight			4.8kg
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 52V/60-watt PoE via 4-pair DC 52V/30-watt PoE via 2-pair
PoE Power Budget			600 watts/2047BTU
Number of 60W PDs can be powered			10
Number of 802.3af PDs (Class 0, 1, 2, 3) can be powered			16
Number of 802.3at PDs (Class 1, 2, 3) can be powered			16
Number of 802.3at PDs (Class 0, 4) can be powered			16
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)