

PoE PSE Media Converters

Convert fibre to copper *and* power PoE devices.

- Gigabit Ethernet and single-strand models!
- Convert 10-/100-Mbps copper to 100-Mbps fibre or 10-/100-/1000-Mbps copper to 1000-Mbps fibre.
- Power a PoE device at the far end of a fibre link.
- MDI/MDI-X on all copper ports.
- Undercurrent and overcurrent detection and load sensing.
- Double Diamond Warranty - 1 Year

PoE PSE Media Converters not only enable you to connect copper cables to long-distance fibre data links, they also safely power compatible PoE devices on the copper side. And now, with the addition of Gigabit Ethernet, as well as single-strand fibre models, you have more versatility than ever in installing PoE devices.

Fully compliant with the 802.3af Power over Ethernet (PoE) standard, the converters function as power source equipment (PSE) to provide -48 VDC power via copper wiring to access points, cameras, and similar devices in areas without nearby power outlets.

For equipment protection, PoE PSE Media Converters offer overcurrent and undercurrent detection, as well as fault protection input and power monitoring. They also have powered device signature sensing to detect when an 802.3af-compliant device is connected downstream.

Plus, link-fault passthrough and far-end fault detection features keep you from sending data across invalid links by alerting you to “silent failures” on the fibre side.

Single-strand models double your fibre capacity by enabling you to both transmit and receive data over a single-strand of fibre rather than the two strands required by most fibre transmission methods. These converters compress both data streams onto one fibre by using a technique called Wavelength Division Multiplexing (WDM). One unit transmits at 1550 nm and receives at 1310 nm. The other unit transmits at 1310 nm and receives at 1550 nm. The two wavelengths operate independently and don't interfere with each other. This method effectively converts a single fibre into a pair of “virtual fibres,” each driven independently at different wavelengths. These converters must be used in matched transmit and receive pairs.

TECHNICAL SPECIFICATIONS

Environmental - Temperature: 32 to 122° F (0 to 50° C; Humidity: 5 to 90%

Flow Control - 802.3x for full-duplex; backpressure for half-duplex

PoE Type - 802.3af Power Source Equipment (PSE)

Standards - IEEE 802.3u 10BASE-T/100BASE-TX, 100BASE-FX/100BASE-LX; IEEE 802.3z/ab 1000BASE-T; IEEE 802.3af Power over Ethernet

Connectors – Copper: (1) RJ-45;
Fibre: LPM600A, LPM602A, LPS500A-MM-SC, LPS500A-SM-10K-SC: (1) pair of SC, LPM601A, LPM603A: (1) pair of ST, LPM605A, LPS500A-MM-LC, LPS500A-SM-10K-LC: (1) pair of LC, LPM606A–LPM607A: (1) SC

Power - Internal power supply: autosensing 100–240 VAC, 50–60 Hz, 24 W;
PoE output: up to 15.4 watts

Size - 1.6"H x 6.25"W x 5.25"D (4.1 x 15.9 x 13.3 cm)

Weight - 2.7 lb. (1.2 kg)

PRODUCT RANGE

Item	Code
PoE PSE Media Converters	
10BASE-T/100BASE-TX to 100BASE-FX Multimode, 2 km (1.2 mi.) SC ST®	LPM600A LPM601A
10BASE-T/100BASE-TX to 100BASE-LX Single-Mode, 20 km (12.4mi.) SC ST LC Single-Mode, Single-Strand, 20 km (12.4 mi.) <i>(Must be used in complementary pairs.)</i> 1310-nm TX/1550-nm RX LC 1550-nm TX/1310-nm RX LC	LPM602A LPM603A LPM605A LPM606A LPM607A
10/100/1000BASE-T to 1000BASE-SX Multimode, 220 m (722 ft.) SC LC	LPS500A-MM-SC LPS500A-MM-LC
10/100/1000BASE-T to 1000BASE-LX Single-Mode, 10 km (6.2 mi.) SC LC	LPS500A-SM-10K-SC LPS500A-SM-10K-LC