

stand-alone media converter

SFEPE101x-1x0

Power-Over-Ethernet PSE Media Converter



Transition's AC or DC powered PoE media converters are Power Sourcing Equipment (PSE) and are fully compatible with Powered Devices (PD) that comply with the IEEE802.3af: 2003 standard. The converters also include a PD signature sensing and power monitoring features per the IEEE 802.3af standard.

SFEPE10xx-1xx products can operate in two modes: IEEE 802.3af mode as well as "legacy mode". In the IEEE 802.3af mode the PoE is fully compatible with devices that comply with the IEEE802.3af standard. The PoE converter is also capable of inserting power on either the spare pairs or data pairs of the MDI.

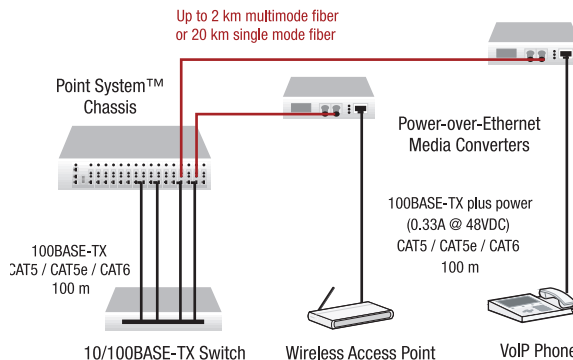
In the "legacy mode" PoE can be configured for reverse polarity, 12 VDC, 24 VDC, or 48 VDC power insertion; as well as for other non-IEEE802.3af compatible PDs.

Different voltages & modes are switch selectable.

Features

- ▶ Internal AC or DC power supply
- ▶ IEEE802.3af Power-Over-Ethernet Compatible Mode
- ▶ Legacy Mode (Non IEEE802.3af)
- ▶ 12, 24, or 48 VDC PSE Output Voltage with Reverse Polarity Selection
- ▶ Signal Pair and Spare Pair Power Insertion
- ▶ Over-Current Protection
- ▶ Under-Current Detection
- ▶ Minimum Load Sensing
- ▶ Fault Protection Input
- ▶ Exceeds IEEE802.3af ripple requirements on PSE MDI power leads
- ▶ Max 16.8 Watts Power output capacity at legacy 48 VDC
- ▶ PSE MDI Power Enable/Disable
- ▶ Auto-Negotiation
- ▶ AutoCross™ [
- ▶ Link Pass Through
- ▶ Far-End-Fault (FEF)
- ▶ Automatic Link Restoration
- ▶ Pause

Power over CAT5 to Remotely Located Devices



Specifications

Standards	IEEE Std. 802.3; IEEE Std. 802.3af
Switches	1&2: Set voltage output on twisted pair 3: IEEE 802.3af mode/Legacy mode 4: Voltage polarity 5: MDI power on signal pairs/spare pairs 6: Enable/disable Auto-negotiation 7: Enable/disable Pause 8: Enable/disable Link Pass Through 9: Enable/disable Far-End-Fault 10: Enable/disable AutoCross™
Status LEDs	PWR (power): Lit for normal operation MDI Fault: ON = over-current detected MDI ON: ON = MDI port supplying power TX Link: ON = Link on copper port TX Act: Flashing = data activity on copper link FX Link: ON = Link on fiber port FX Act: Flashing = data activity on fiber link
Dimensions	Width: 7.3" [185 mm] Depth: 4.4" [112 mm] Height: 1.2" [30 mm]
Power	Models SFEPE10xx-100: 90 – 250 VAC Internal (Power Cord Supplied) Models SFEPE10xx-110: 18 – 60 VDC; 24 – 48 VAC Internal
Power Consumption	45 Watts Max
Operating Temperature	0 – 50°C [32° – 122°F]
Storage Temperature	-25° – 85°C [-13° – 185°F]
Environment	5 – 95% humidity non-condensing; altitude 0 – 10,000 ft.
Shipping Weight	2 lbs. [0.90 kg]
Regulatory Compliance	EN55022:1994+A1:1996+A2:1997 Class A; FCC Part 15 Subpart B; UL 1950
Warranty	Lifetime

Fast Ethernet

Ordering Information

- SFEPE1011-100: AC Powered PSE**
SFEPE1011-110: DC Powered PSE
 100BASE-TX (RJ-45) [100 m/328 ft.]
 to 100BASE-FX 1300nm multimode (ST)
 [2 km/1.2 mi.] Link
 Budget: 11.0 dB
- SFEPE1013-100: AC Powered PSE**
SFEPE1013-110: DC Powered PSE
 100BASE-TX (RJ-45) [100 m/328 ft.]
 to 100BASE-FX 1300nm multimode (SC)
 [2 km/1.2 mi.] Link
 Budget: 11.0 dB
- SFEPE1014-100: AC Powered PSE**
SFEPE1014-110: DC Powered PSE
 100BASE-TX (RJ-45) [100 m/328 ft.]
 to 100BASE-FX 1310nm SM (SC)
 [20 km/12.4 mi.] Link Budget: 16.0 dB

Optional Accessories (sold separately)

Mounting Options

- WMBD-P**
 DIN Rail Mount Bracket POE
- WMBL**
 Wall Mount Bracket 4.0" [102 mm]

- ▶ Enables enterprises to provide power to network devices over the existing CAT5 data connection.
- ▶ Combine data received over a fiber optic link with -48 VDC power; providing power to Data Terminal Equipment (DTE); Power Devices (PD) over unshielded twisted pair cable