



## SFEPE101x-1x0

## Power-over-Ethernet PSE Media Converter

## Ordering Info

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

#### Optional Accessories

(sold separately)

#### Mounting Options:

**WMBD-P** (see page 69)  
 DIN Rail Mount Bracket POE

**WMBL** (see page 69)  
 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 -48VDC power; providing power to Data Terminal Equipment (DTE); Power Devices (PD) over unshielded twisted pair cable



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.

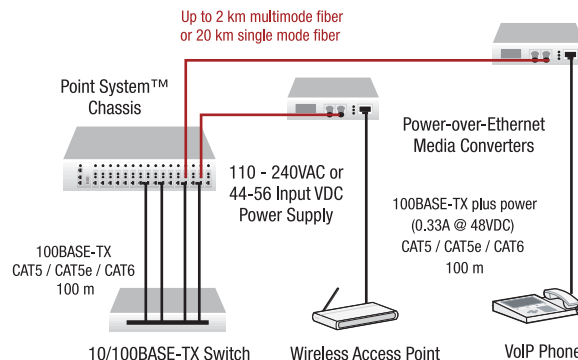
In the "legacy mode" PoE can be configured for reverse polarity, 12 VDC, 24 VDC, or 48 VDC power insertion; as well as for other non-IEEE802.3af compatible PDs.

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	<b>1&amp;2:</b> Set voltage output on twisted pair <b>3:</b> IEEE 802.3af mode / Legacy mode <b>4:</b> Voltage polarity <b>5:</b> MDI power on signal pairs / spare pairs <b>6:</b> Enable / disable Auto-negotiation <b>7:</b> Enable / disable Pause <b>8:</b> Enable / disable Link Pass Through <b>9:</b> Enable / disable Far-End-Fault <b>10:</b> Enable / disable AutoCross™
Status LEDs	<b>PWR (power):</b> Lit for normal operation <b>MDI Fault:</b> ON = over-current detected <b>MDI ON:</b> ON = MDI port supplying power <b>TX Link:</b> ON = Link on copper port <b>TX Act:</b> Flashing = data activity on copper link <b>FX Link:</b> ON = Link on fiber port <b>FX Act:</b> Flashing = data activity on fiber link
Dimensions	<b>Width:</b> 7.3" [185 mm] <b>Depth:</b> 4.4" [112 mm] <b>Height:</b> 1.2" [30 mm]
Power	<b>Models SFEPE10xx-100:</b> 90 – 250VAC Internal (Power Cord Supplied) <b>Models SFEPE10xx-110:</b> 18 – 60VDC; 24 – 48VAC Internal (Power Cord Supplied)
Power Consumption	45W 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