

# SPOEB10xx-105

## Stand-alone Fast Ethernet PoE Media Converter

### 10/100Base-TX PoE PSE to 100Base-FX



SPOEB1039-105

SPOEB10xx-105 is a 10/100 Ethernet copper to fiber PoE media converter that enables enterprises to provide power to network devices over the existing CAT5 data connection.

Transition Networks' AC powered PoE media converters 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. The PoE converters are Power Sourcing Equipment (PSE) and are fully compatible with Powered Devices (PD) that comply with the IEEE 802.3af: 2003 standard. The converters also include a PD signature sensing and power monitoring features per the IEEE 802.3af standard. Other features include Over-Current Protection, Under-Current Detection and Fault Protection Input.

This feature enhanced model offers the ability to enable/disable many of the features as well as force port capabilities. In addition, with the PSE/LPT switch enabled, a loss of Fiber RX will disable PSE power output on the UTP port for 2 seconds to allow remote device to re-initialize, also known as Powered Device Reset.

The PoE converter is fully compatible with devices that comply with the IEEE 802.3af standard. The PoE converter is capable of inserting power on data pairs or spare pair of the MDI.

## Features

- External AC power supply
- IEEE 802.3af Power-over-Ethernet Compatible
- 48 VDC PSE Output Voltage
- Signal Pair or Spare Pair Power Insertion
- PD Detection Signature
- Over-Current Protection & Under-Current Detection
- Powered Device Reset
- Switch selectable features and port settings
- Minimum Load Sensing
- Fault Protection Input
- Auto-Negotiation
- Auto-MDI/MDIX
- Link Pass Through
- Far-End-Fault (FEF)
- Automatic Link Restoration

## Specifications

Standards	IEEE 802.3 IEEE 802.3af
Max Frame Size	1600 bytes
Switches	SW1: Auto-Negotiation On/Off (TP) SW2: Speed TP: Force 10 Mbps or 100 Mbps (SW1 off) SW3: Duplex TP: Force Half or Full-Duplex (SW1 off) SW4: Duplex Fiber: Half or Full-Duplex SW5: Link Pass Through On/Off SW6: PSE On/Off SW7: PSE/LPT on/off SW8: Data Pairs/Spare Pairs
Status LEDs	Power Fiber Link, Activity, & Duplex Copper Link, Activity, Speed, & Duplex PoE Status
Dimensions	Width: 3.25" [82.55 mm] Depth: 4.8" [121.92 mm] Height: 1" [25 mm]
Power Consumption	20 Watts (max)
Power Supply	External power supply: 90 – 250 VAC Input; 48VDC Output
Environment	Operating: 0°C to 50°C Storage: -25° to +85°C Humidity: 5% to 90% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
Compliance	EN55022:1994+A1:1996+A2:1997 Class A, FCC Part 15 Subpart B, UL 1950
Warranty	Lifetime

## Ordering Information

### SPOEB1040-105

10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-X SFP Slot (empty)

### SPOEB1011-105

10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (ST)  
[2 km/1.2mi.] Link Budget: 11.0 dB

### SPOEB1013-105

10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (SC)  
[2 km/1.2mi.] Link Budget: 11.0dB

### SPOEB1039-105

10/100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (LC)  
[2 km/1.2 mi.] Link Budget: 11.0 dB

Optional Accessories (sold separately)

## Mounting Options

### WMBL

Wall Mount Bracket 4" [102 mm]

### WMBV

Vertical Wall Mount Bracket 5" [127 mm]

### WMBD

DIN Rail Bracket 5" [127 mm]

### RMS19-SA4-01

4-Slot Media Converter Shelf

## Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: SPOEB1040-105-NA

### -NA = Country Code

- NA = North America
- LA = Latin America
- EU = Europe
- UK = United Kingdom
- SA = South Africa
- JP = Japan
- OZ = Australia
- BR = Brazil