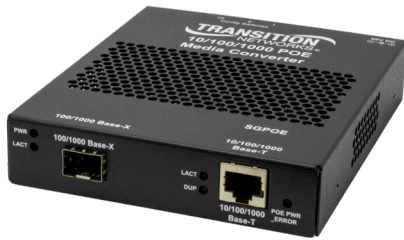


Stand-alone Gigabit Ethernet PoE Media Converter

10/100/1000Base-T PoE PSE to 1000Base-X

Media Converters



SGPOE1040-100

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) Powered 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 standard. The converters also includes a PD signature sensing and power monitoring feature per the IEEE 802.3af standard. This feature enhanced model offers the ability to enable/disable many of the features as well as force port capabilities (see switches section under Specifications).

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 as well as select legacy PDs. The PoE converter is capable of inserting power on data mode A or mode B pairs of the MDI.

Features

- SFP ports support either 100Base or 1000Base fiber
- Redundant SFP port option
- IEEE 802.3af Power-over-Ethernet Compatible
- 48 VDC PSE Output Voltage
- Mode A or Mode B Pairs Power Insertion
- PD Detection Signature
- PoE Legacy Detect for non-IEEE 802.3af compatible Powered Devices (PD)
- Over-Current Protection
- Under-Current Detection
- Powered Device Reset
- Minimum Load Sensing
- Fault Protection Input
- Auto-Negotiation
- Auto-MDI/MDIX
- Link Pass Through
- Automatic Link Restoration
- External AC power supply

Specifications

| | |
|-------------------|--|
| Standards | IEEE 802.3 IEEE 802.3af |
| MAC Addresses | 8K |
| Max Packet Size | 1632 bytes untagged 1628 bytes tagged |
| Switches | SW1: Auto-Negotiation TP On/Off 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: Auto-MDI/MDIX On/Off SW6: PSE On/Off SW7: PSE/LPT on/off SW8: Unused |
| Dimensions | Width: 4.4" [112 mm] Depth: 5.1" [129 mm] Height: 1" [25 mm] |
| Power Consumption | 20 Watts (max) |
| Power Supply | External AC/DC required; 48 VDC 0.67A Output; 90 – 250VAC external power supply input |
| Environment | Operating: 0°C to 40°C Storage: -25°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft. |
| Weight | 2 lbs. [0.90 kg] |
| MTBF | Greater than 41,660 MIL217F2 Hours Greater than 114,580 Bellcore Hours |
| Certifications | EN55022:1994+A1:1996+A2:1997 Class A, FCC Part 15 Subpart B, UL 1950 |
| Warranty | Lifetime |

Ordering Information

SGPOE1013-100
10/100/1000Base-T PoE (RJ-45)
[100 m/328 ft.]
to 1000Base-SX 850nm multimode (SC)
[62.5/125 μm: 220 m/722 ft.] Link Budget:
8.0 dB [50/125 μm: 550 m/1804 ft.] Link
Budget: 8.0 dB

SGPOE1039-100
10/100/1000Base-T PoE (RJ-45)
[100 m/328 ft.]
to 1000Base-SX 850nm multimode (LC)
[62.5/125 μm: 220 m/722 ft.] Link Budget:
8.0 dB [50/125 μm: 550 m/1804 ft.] Link
Budget: 8.0 dB

SGPOE1040-100
10/100/1000Base-T PoE (RJ-45)
[100 m/328 ft.]
to 100/1000Base-X SFP Slot (empty)

Optional Accessories (sold separately)

SFP Modules

Mounting Options (sold separately)

WMBD
DIN Rail Mount Bracket 5" [127 mm]

WMBL
Wall Mount Bracket 4" [102 mm]

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: SGPOE1013-100-NA

-NA = Country Code

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