## Stand-alone Gigabit Ethernet Media Converter
### 1000Base-T to 1000Base-SX/LX

The SGETF Series is a stand-alone media converter that provides an interface between 1000Base-T ports and 1000Base-SX/LX ports, allowing users to integrate fiber optic cabling into 1000Base-T copper environments. Operating at Layer 1, the physical layer, data is passed through the converter at line speed, making it ideal for applications where low latency is essential.

SGETF1040-110

SGETF1013-110

## Key Features

- Auto-MDI/MDIX
- Copper & Fiber Auto-Negotiation
- Transparent Link Pass Through
- Automatic Link Restoration
- Pause
- Remote Fault Detect

## Specifications

| | |
|---|---|
| Standards | IEEE 802.3ab<br>IEEE 802.3z |
| 6-position Switch | SW1: Remote Fiber Fault Detect (Down=Enabled)<br>SW2: Symmetric Pause<br>SW3: Asymmetric Pause<br>SW4: Transparent Link Pass Through (UP=Enabled)<br>SW5: Fiber Auto-Negotiation (Down=Enabled)<br>SW6: Loopback (Down=Enabled) |
| Status LEDs | PWR (Power): Steady green LED indicates connection to external AC power<br>RXF (Fiber receive): Flashing LED indicates reception of data on fiber link<br>LKF (Fiber link): Steady LED indicates fiber link connection<br>RXC (Copper receive): Flashing LED indicates reception of data on copper link<br>LKC (Copper link): Steady LED indicates copper link connection |
| Dimensions | Width: 3.25" [82.55 mm]<br>Depth: 4.8" [121.92 mm]<br>Height: 1" [25 mm] |
| Power Consumption | 5.4W, 450mA @ 12VDC |
| Power Supply | External AC/DC required; 12 VDC, 0.8A min Output; 120-240 VAC input |
| Environment | Operating: 0°C to 50°C<br>Humidity: 5% to 95% (non-condensing)<br>Altitude: 0 – 10,000 ft. |
| Weight | 2 lbs. [0.90 kg] |
| MTBF | 382,000 hours (MIL217F2 V5.0) (MIL-HDBK-217F)<br>1,345,000 hours (Bellcore7 V5.0) |
| Certifications | Safety: Wall Mount Power Supply: UL Listed, cUL Listed (Canada); FCC Class A, CISPR22/EN55022 Class A, EN55024, EN61000, CE Mark |
| Warranty | Lifetime |

## Ordering Information

**SGETF1013-110**
1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (SC) [62.5/125 µm fiber: 220 m/722 ft.] Link Budget: 7.0 dB [50/125 µm fiber: 550 m/1804 ft.] Link Budget: 7.0 dB

**SGETF1039-110**
1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (LC) (via TN-SFP-SX) [62.5/125 µm fiber: 220 m/722 ft.] Link Budget: 8.0 dB [50/125 µm fiber: 550 m/1804 ft.] Link Budget: 8.0 dB

**SGETF1014-110**
1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-LX 1310nm single mode (SC) [10 km/6.2 mi.] Link Budget: 10.5 dB

**SGETF1040-110**
1000Base-T (RJ-45) [100 m/328 ft.] to SFP slot (empty)

### Optional Accessories (sold separately)

**SFP Modules**

### Wide Input (24 - 60 VDC) Power Supplies

**SPS-2460-PS**
Piggy Back Power Supply

**SPS-2460-SA**
Stand-Alone Power Supply

### Mounting Options (sold separately)

**E-MCR-05**
12-slot Media Converter Rack

**RMS19-SA4-02**
4-slot Media Converter Shelf

**WMBD**
DIN Rail Bracket 5" [127 mm]

**WMBD-F**
DIN Rail Bracket (flat) 3.3" [84 mm]

**WMBL**
Wall Mount Bracket 4" [102 mm]

**WMBV**
Vertical Wall Mount Bracket 5" [127 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: SGETF1013-110-**NA**

**-NA = Country Code**

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