

## 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.



### 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:<br>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         |