

## Stand-alone Gigabit Ethernet Media Converter

1000Base-T to 1000Base-SX/LX

Media Converters



SGETF1040-110

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.

### Features

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

### Specifications

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

**SGETF1024-110**  
1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 1300nm Extended multimode (62.5/125 μm fiber only) (SC) [2 km/1.2 mi.] 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, small) 3.1" [79 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