S4TEF10xx-120
4x T1/E1/J1 Copper to Fiber Transport Mux

Devices must be used in pairs. Typically installation will include a chassis card [C4TEF] installed in the Point System™ locally and a stand-alone device installed at the remote location.

Features
- Loopback via Test Set
- Local and Remote Loopback
- AIS/TAOS
- LEDs for each data port
- Settings for line code, line length, local loopback or remote loopback
- T1/E1/J1 mode settings
- Local (AUX) Management Interface
- Access to complete status information on local and remote device
- Field Upgradeable Firmware
- Extended Operating Temperature

Specifications

Standards
- Ethernet interface:IEEE 802.3™-2008
- TDM interfaces: ANSI T1.102, T1.403 and T1.408
- ETSI 300-166, 300-233 and TBR 12/13 AT&T Pub 62411

Switches
- Numerous switch settings for line coding, line buildout, loopback (per port), AIS setting

Dimensions
- Width: 3.7” [94 mm]
- Depth: 4.7” [119 mm]
- Height: 1.8” [46 mm]

Power
- External AC/DC provided; 12 VDC, 1.25A; unregulated; standard; UL Listed

Power Consumption
- 4.4 Watts

Operating Temperature
- -40°C – 70°C (not including power supply)

Storage Temperature
- -40°C – 85°C

Altitude
- 0 – 10,000 ft.

Operating Humidity
- 5% – 95% (non-condensing)

Shipping Weight
- 2 lbs. [0.90 kg]

Regulatory Compliance
- EN55022 Class A, EN50024, CE mark

Warranty
- Lifetime

Ordering Information

S4TEF1011-120
- 1300nm multimode (ST)
- [2 km/1.2 mi.] Link Budget: 11.0 dB
- to (4) RJ-48 [1.5 km/0.9 mi.]

S4TEF1013-120
- 1300nm multimode (SC)
- [2 km/1.2 mi.] Link Budget: 11.0 dB
- to (4) RJ-48 [1.5 km/0.9 mi.]

S4TEF1014-120
- 1310nm single mode (SC)
- [20 km/12.4 mi.] Link Budget: 16.0 dB
- to (4) RJ-48 [1.5 km/0.9 mi.]

**S4TEF1040-120
- 1 SFP port (Empty) to (4) RJ-48 [1.5 km/0.9 mi.]

**S4TEF1040-140
- 2 SFP ports (Empty) to (4) RJ-48 [1.5 km/0.9 mi.]

Single Fiber Products

• S4TEF1029-120
  - 1310nm TX/1550nm RX single fiber single mode (SC) [20 km/12.4 mi.]
  - Link Budget: 19.0 dB
  - to (4) RJ-48 [1.5 km/0.9 mi.]

• S4TEF1029-121
  - 1550nm TX/1310nm RX single fiber single mode (SC) [20 km/12.4 mi.]
  - Link Budget: 19.0 dB
  - to (4) RJ-48 [1.5 km/0.9 mi.]

Optional Accessories (sold separately)
- Wide Input (24 - 60 VDC) Power Supplies
  - SPS-2460-SA

Mounting Options
- WMBD
  - DIN Rail Bracket 5.0” [127 mm]
- WMBD-F
  - DIN Rail Bracket (flat) 3.3” [84 mm]
- WMBL
  - Wall Mount Bracket 4.0” [102 mm]
- WMBV
  - Vertical Wall Mount Bracket 5.0” [127 mm]

*Note: Operating Temperature -20°C – 70°C only on these models.

Features
- Loopback via Test Set
- Local and Remote Loopback
- AIS/TAOS
- LEDs for each data port
- Settings for line code, line length, local loopback or remote loopback
- T1/E1/J1 mode settings
- Local (AUX) Management Interface
- Access to complete status information on local and remote device
- Field Upgradeable Firmware
- Extended Operating Temperature

- Low cost transport capability; (4) T1/E1/J1
- Target applications of the device include: FTTx, such as Fiber-to-the-Business, Fiber-to-the-Building, Fiber-to-the-MDU and Fiber-to-the-Home; Cell Tower Backhaul
- Automatic Link Restoration
- Remote Management

The product provides physical layer status monitoring and alarm classification functions for Telecom operators to manage their fiber optic network and reduce operation and maintenance costs.

Copper connections are compatible with G.703 and AMI/B8ZS/HD83; while the optical connection will run at 155 Mbps. A hardware-based solution guarantees the constant bit rate of TDM transport without requiring traffic management.