see also: 4x T1 Transport Mux Point System™ Slide-In-Module NID

stand-alone network interface device

S4TEF10xx-120

4x T1/E1/J1 Copper to Fiber Transport Mux

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

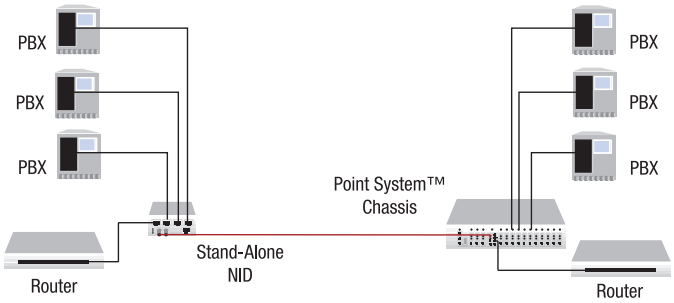
The product provides physical layer status monitoring and alarm classification functions for Telecom operators to manage their fiber optic network and reduce operation and maintenance costs.

Copper connections are compatible with G.703 and AMI/B8ZS/HDB3; 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.

Features

- Loopback
- 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

Application



Devices must be used in pairs. Typically installation will include a chassis card [C4TEF, pg 60] installed in the Point System™ locally and a stand-alone device installed at the remote location.

Optional Accessories (sold separately)

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-SA
Stand-Alone Power Supply

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.

** SFP port uses standard 100BASE-x/oc-3 SFP

Specifications

Standards	Ethernet interface: IEEE 802.3™-2008 TDM interfaces: ANSI T1.102, T1.403 and T1.408 ITU I.431, G.703,G.736, G.775 and G.823 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, EN55024, 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.]**

S4TEF1015-120
1310nm single mode (SC)
[40 km/24.9 mi.]
Link Budget: 26.0 dB
to (4) RJ-48 **[1.5 km/0.9 mi.]**

***S4TEF1016-120**
1310nm single mode (SC)
[60 km/37.3 mi.]
Link Budget: 29.0 dB
to (4) RJ-48 **[1.5 km/0.9 mi.]**

***S4TEF1017-120**
1550nm single mode (SC)
[80 km/49.7 mi.]
Link Budget: 29.0 dB
to (4) RJ-48 **[1.5 km/0.9 mi.]**

***S4TEF1035-120**
1550nm single mode (SC)
[120 km/74.6 mi.]
Link Budget: 36.0 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

Recommended use in pairs

***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.]**

***S4TEF1029-122**
1310nm TX/1550nm RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB
to (4) RJ-48 **[1.5 km/0.9 mi.]**

***S4TEF1029-123**
1550nm TX/1310nm RX single fiber single mode (SC)
[40km/24.9 mi.] Link Budget: 25.0 dB
to (4) RJ-48 **[1.5 km/0.9 mi.]**

TRANSITION NETWORKS