



SSDTFx0xx-1xx

Remotely Managed T1/E1 NID (Network Interface Device)

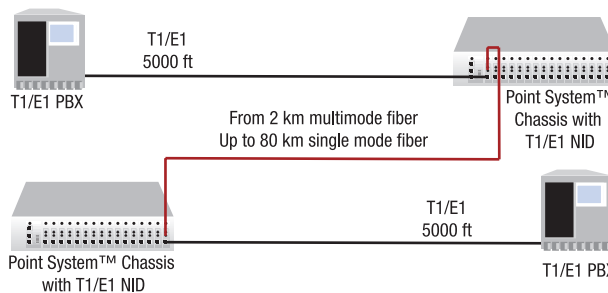
Features

- ▶ Remote unit in-band management
- ▶ Local or Remote Loopbacks on copper or fiber in software mode
- ▶ Loopback switch facilitates local installation
- ▶ Converts the copper ports on T1/E1 devices, such as a PBX or T1/E1 Router, to multimode or single mode fiber
- ▶ Switch selectable RJ-48 connectors for T1 or E1
- ▶ Jitter attenuators optimize Bit Error Rate (BER) performance
- ▶ Network debug procedures make BER testing more convenient
- ▶ Built-in troubleshooting with the addition of a selectable TAOS (Transmit All Ones) switch on the fiber and copper interfaces allows the network engineer to test all T1/E1 equipment on that network segment and ensure the network link
- ▶ Dry Relay Contacts enable the device to be tied into a separate alarm circuit commonly found in a T1/E1 twisted pair environment. Contacts will be activated on loss of power or loss of fiber link.
- ▶ LED provides Alarm Indication Signal (AIS)
- ▶ Can be used with fractional T1/E1 circuits
- ▶ Report converter status
 - Copper & Fiber Link status
 - Hardware switch settings: LBO, AIS Copper, AIS Fiber, HW/SW
 - AIS detected Copper & Fiber
 - Model Number
 - Copper & Fiber Connector
- ▶ Remote commands:
 - Loopback Copper & Fiber
 - AIS transmitted on Fiber on loss of Copper link
 - AIS Transmitted on Copper on loss of Fiber link

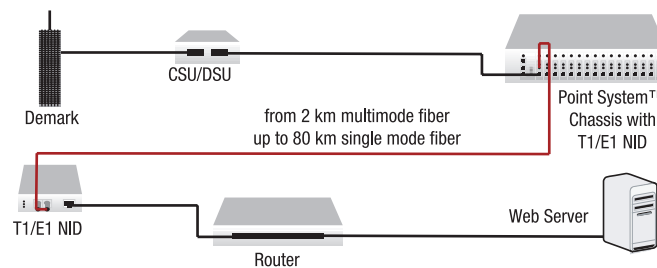


- ▶ **Remote management in a stand-alone device** When used in conjunction with a managed Point System™ chassis, this stand-alone unit can be managed remotely.
- ▶ The Remotely Managed T1/E1 copper to fiber media converter will provide a solution for users who desire to extend their T1 or E1 circuits over fiber and remotely manage them "in-band" from admin locations.

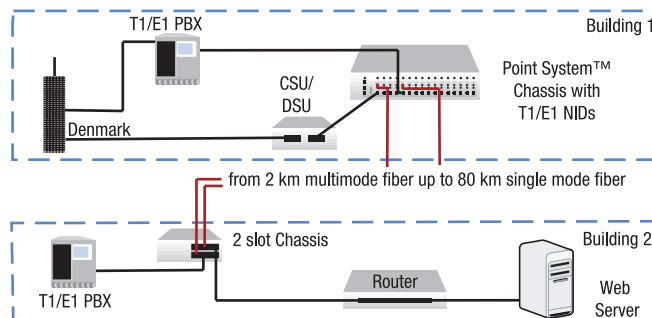
Provide Campus Interconnects



Remote Management



Extend T1/E1 Networks



See next page for Ordering Info

With the exception of Ethernet, T1/E1 is one of the most common campus/metropolitan area networking interconnects. A copper to fiber conversion on the premise side of the T1/E1 makes it easier to integrate voice traffic, frame relay or IP type traffic on your fiber network.

Stand-alone can be managed remotely when used with a managed chassis.

Extend T1/E1 to other buildings in a campus or MAN from 2 km to 80 km for voice or data applications.

Ordering Info

SSDTF1011-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 850 nm multimode (ST)
[2 k m/1.2 mi.] Link Budget: 13.5 dB

SSDTF1013-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 850 nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 13.5 dB

SSDTF1027-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1300 nm multimode (ST)
[5 km/3.1 mi.] Link Budget: 13.5 dB

SSDTF1012-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
1310 nm single mode (ST)
[8 km/5 mi.] Link Budget: 7.0 dB

SSDTF1022-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm single mode (ST)
[15 km/9.3 mi.] Link Budget: 10.0 dB

SSDTF1014-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm single mode (SC)
[20 k m/12.4 mi.] Link Budget: 16.0 dB

SSDTF1015-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 30.0 dB

SSDTF1016-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm single mode (SC)
[60 km/37.3 mi.] Link Budget: 33.0 dB

SSDTF1017-120

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

Single Fiber Products

Recommended use in pairs

SSDTF1029-120

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm TX / 1550 nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SSDTF1029-121

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1550 nm TX / 1310 nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SSDTF1029-122

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1310 nm TX / 1550 nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

SSDTF1029-123

Twisted Pair (RJ-48) [1.5 km/0.9 mi.]
to 1550 nm TX / 1310 nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

Specifications

Standards	ITU-T, ANSI, AT&T, ETSI
Switches	SW1: 1, 2, 3: Line Build out for short haul/DB in Long Haul (see table) Short Haul mode: SW1: Pos 4 not used SW2 - 1: Transmit all ones into copper on loss of fiber link (UP = Disabled) SW2 - 2: Transmit all ones (AIS) into fiber on loss of copper link (UP = Disabled) SW2 - 3: Long Haul/Short Haul (UP = Short Haul) SW2 - 4: T1/E1 selection (Up = T1)
3-position Jumper	Hardware: mode is determined by 4-position switch settings Software: mode is determined by most recently saved on-board microprocessor settings.
Status LEDs	PWR (Power): Steady green LED indicates connection to external AC power SDC (Signal Detect/Copper): On indicates twisted pair link is up SDF (Signal Detect/Fiber): On indicates fiber link is up
Dimensions	Width: 3.25" [82 mm] Depth: 4.8" [122 mm] Height: 1.0" [25 mm]
Power	External AC/DC provided; 12V DC; 0.5A; unregulated; standard; UL listed
Environment	0 – 50°C, 5% – 95% humidity (non-condensing), 0 – 10,000 ft.
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	Wall Mount Power Supply: CSA certified
Regulatory Compliance	CISPR/EN55022 Class A; FCC Class A; CE Mark
Warranty	Lifetime

Devices must be used in pairs. Typically installation will include a chassis card (CSDTF, see pages 61-62) installed in the Point System™ locally and a stand-alone device installed at the remote location.

Optional Accessories

(sold separately)

Wide Input (18 – 72VDC) Power Supplies:

SPS-1872-PS
Piggy Back Power Supply

SPS-1872-SA
Stand-Alone Power Supply

Mounting Options:

E-MCR-05
12-slot Media Converter Rack

RMS19-SA4-01
4-slot Media Converter Shelf

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]