SSDTF Series

Remotely Managed DS1 - T1/E1 Network Interface Device (NID)

TRANSITION NETWORKS®

Features

- Remote unit in-band management
- Local or Remote Loopbacks on copper or fiber in software mode
- Loopbacks via test set
- Converts the copper ports on T1/E1 devices, such as a PBX or T1/E1 Router, to multimode or singlemode 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
- Extend PRI over fiber
- 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/E1 or PRI circuits over fiber and remotely manage them “in-band” from admin locations.

The SSDTF Series is a managed stand-alone DS1 - T1/E1 Network Interface Device that provides a solution for users that need to extend DS1 - T1/E1 connections over fiber. These devices must be used in pairs and the remotely located stand-alone can be managed in-band, over the fiber, when linked back to a CSDTF Series installed in a managed Point System chassis.

Specifications

Standards	ITU-T, ANSI, AT&T, ETSI
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	Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
Compliance	Wall Mount Power Supply: CSA Certified; CISPR/EN55022 Class A, FCC Class A, CE Mark
Warranty	Lifetime

Ordering Information

SSDTF1011-120
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 850nm multimode (ST) [2 km/1.2 mi.] Link Budget: 13.5 dB

SSDTF1013-120
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 850nm 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 1300nm multimode (ST) [5 km/3.1 mi.] Link Budget: 13.5 dB

SSDTF1012-120
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] 1310nm 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 1310nm 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 1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB

SSDTF1015-120
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm 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 1310nm 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 1310nm single mode (SC) [80 km/49.7 mi.] Link Budget: 29.0 dB

Single Fiber Products

SSDTF1029-120
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm TX /1550nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

SSDTF1029-121
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1550nm TX /1310nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

SSDTF1029-122
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm TX/1550nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 25.0 dB

SSDTF1029-123
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1550nm TX/1310nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 25.0 dB

Optional Accessories (sold separately)

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-PS
Piggy Back Power Supply

SPS-2460-SA
Stand-Alone Power Supply

Mounting Options

E-MCR-05
12-slot Media Converter Rack

RMS19-SA4-02
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]