

stand-alone network interface device

see also: DS3-T3/E3 Point System™ Slide-In-Module NID

DS3-T3/E3

SCSCF30xx-11x

DS3-T3/E3 and STS-1 Coax to Fiber NID

The DS3 – T3/E3 & STS-1 copper to fiber network interface device (NID) provides a solution for those users that need to extend DS3 connections over fiber.

The DS3 – T3/E3 & STS-1 supports Small Form Pluggable (SFP) transceivers to support a variety of fiber types, distances and wavelengths to provide maximum flexibility across a variety of network topologies. The use of Coarse Wave Division Multiplexing (CWDM) SFPs can be utilized to further increase the bandwidth capacity of the fiber infrastructure.

The DS3 – T3/E3 & STS-1 NID must be used in pairs*. A typical installation will include a chassis card [CCSCF, pg 55] installed in the Point System™ locally and a stand-alone device installed at the remote location.

Features

- ▶ AIS (Alarm Indication Signal)
- ▶ Coax Line Build Out
- ▶ Switch selectable for DS3/T3 or E3
- ▶ Loopback – Coax and Fiber
- ▶ LEDs for immediate visual status
- ▶ Supports dual or single fiber
- ▶ Supports multimode and single mode fiber at a variety of distances
- ▶ Supports CWDM SFPs

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

WMBD
DIN Rail Bracket 5.0" [127 mm]

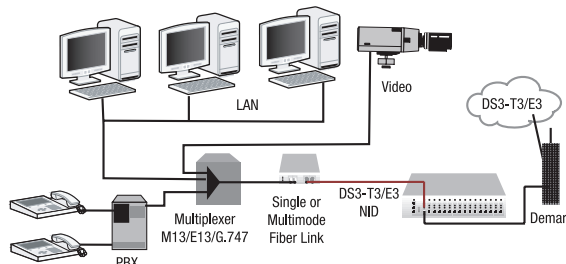
WMBD-F
DIN Rail Bracket (flat) 3.3" [84 mm]

WMBL
Wall Mount Bracket 4.0" [102 mm]

WMBV
Vertical Wall Mount Bracket 5.0" [127 mm]

RMS19-SA4-01
4-Slot Media Converter Shelf

Integrate Voice & Data on Fiber Network



Specifications

Standards	ANSI, ITU-TS, ETSI, AT&T, G.703, G.921 & G.955
Coax Connectors	75 ohm coax TX output min: +2.5 dBm max: +9.1 dBm RX input min: -9.7dBm max: +10.5 dBm
Fiber Connectors	SFP: LC connector Uses standard 100BASE-X/OC-3 SFP
Data Rates	DS3/T3 = 44.7 Mbps; E3 = 34.4 Mbps; STS-1 = 51.8 Mbps
Status LED	Power, Coax link status, coax loop-back status, AIS on coax link; Fiber link status, fiber loop-back status, AIS on fiber link
Dimensions	Width: 3.25" [83 mm]; Depth: 4.7" [119 mm]; Height: 1.0" [25 mm]
Power Consumption	3.0 Watts
Power Supply	12 VDC, 0.8 Amp (minimum)
Environment	Operating Temperature 0° to 50°C (32° to 122°F) Humidity 5-95% non-condensing Storage Temperature -20° to 85°C (-4° to 185°F)
Shipping Weight	2.0 lbs. [0.90 kg]
Regulatory Compliance	CISPR/EN55022 Class A; FCC Class A; CE Mark
MTBF w/ Power Supply	Greater than 41,660 hours (MIL-HDBD-217F) Greater than 114,580 hours (Bellcore)
MTBF w/o Power Supply	Greater than 250,000 hours (MIL-HDBD-217F) Greater than 687,000 hours (Bellcore)
Warranty	Lifetime



Ordering Information

SCSCF3011-110
(2) Coax (BNC)
to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 14.0 dB

SCSCF3013-110
(2) Coax (BNC)
to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 14.0 dB

SCSCF3014-110
(2) Coax (BNC)
to 1310nm single mode (SC)
[2 km/12.4 mi.] Link Budget: 19.0 dB

SCSCF3015-110
(2) Coax (BNC)
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 29.0 dB

SCSCF3016-110
(2) Coax (BNC)
to 1310nm single mode (SC)
[60 km/37.3 mi.] Link Budget: 32.0 dB

SCSCF3017-110
(2) Coax (BNC)
to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

SCSCF3040-110
(2) Coax (BNC)
to SFP slot (empty)

Single Fiber Products

Recommended use in pairs

SCSCF3029-110
(2) Coax (BNC)
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SCSCF3029-111
(2) Coax (BNC)
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SCSCF3029-112
(2) Coax (BNC)
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

SCSCF3029-113
(2) Coax (BNC)
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

SCSCF3029-114
(2) Coax (BNC)
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB

SCSCF3029-115
(2) Coax (BNC)
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB

SCSCF3029-116

(2) Coax (BNC)
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[80 km/49.7 mi.] Link Budget: 33.0 dB

SCSCF3029-117
(2) Coax (BNC)
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[80 km/49.7 mi.] Link Budget: 32.0 dB

*The SCSCF30xx-110 will only work with another CCSCF30xx-110 or SCSCF30xx-110. The product does not work with a -10x model.