

SCSCF Series

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



The SCSCF family of stand-alone DS3 – T3/E3 & STS-1 copper to fiber Network Interface Devices (NIDs) provide a solution for those users that need to extend DS3 connections over fiber. The SCSCF supports Small Form Factor 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 SCSCF DS3 – T3/E3 & STS-1 NID must be used in pairs. A typical installation will include a chassis card [CCSCF] 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

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: -9.7 dBm; max: +10.5 dBm
Fiber Connectors	SFP: LC connector Uses standard 100BASE-X/OC-3 SFP
Data Rate	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" [25 mm]
Power Consumption	3.0 Watts
Power Supply	12VDC, 0.8 Amp (minimum)
Environment	Operating: -10°C to 65°C Humidity: 5% to 90% (non-condensing) Storage: -20°C to 85°C
Weight	2 lbs. [0.90 kg]
Compliance	CISPR/EN55024 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

Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU

Ex: SCSCF3011-110-NA

-NA = Country Code

- NA = North America
- LA = Latin America
- EU = Europe
- UK = United Kingdom
- SA = South America
- JP = Japan
- OZ = Australia
- BR = Brazil

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]

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)
[20 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

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

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