S6210 Series
DS3 – T3/E3 Coax to Fiber Network Interface Device

TRANSITION NETWORKS ®

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

The DS3 – T3/E3s 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 NID must be used in pairs. A typical installation will include a chassis card installed in the ION Platform locally and a stand-alone device installed at the remote location.

Ordering Information

S6210-3011
(2) Coax (BNC) to 1300nm multimode (ST)
[2 km/ 1.2 mi.] Link Budget: 11.0 dB

S6210-3013
(2) Coax (BNC) to 1300nm multimode (SC)
[2 km/ 1.2 mi.] Link Budget: 11.0 dB

S6210-3014
(2) Coax (BNC) to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB

S6210-3015
(2) Coax (BNC) to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 29.0 dB

S6210-3016
(2) Coax (BNC) to 1310nm single mode (SC)
[60 km/37.3 mi.] Link Budget: 32.0 dB

S6210-3017
(2) Coax (BNC) to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

S6210-3040
(2) Coax (BNC) to SFP slot (empty)

Single Fiber Products
Recommended use in pairs

S6210-3029-A1
(2) Coax (BNC) to 1310nm TX/1550nm
RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

S6210-3029-A2
(2) Coax (BNC) to 1550nm TX/1310nm
RX single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

S6210-3029-B1
(2) Coax (BNC) to 1310nm TX/1550nm
RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

S6210-3029-B2
(2) Coax (BNC) to 1550nm TX/1310nm
RX single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

Features

- AIS (Alarm Indication Signal)
- Coax Line Build Out
- Switch selectable for DS3/T3 or E3
- Remote firmware upgrade
- 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
- SNMP management when used with ION chassis and management module
- Remote standalone can be managed by local peer

Specifications

Standards	ANSI, ITU-TS, ETSI, G.823 for jitter tolerance, G.755 for loss of signal
Coax Connectors	75 ohm coax
Fiber Connectors	SFP: LC connector Uses standard 100BASE-X/OC-3 SFP Fixed Optics: ST or SC connector
Data Rates	DS3/T3 = 44.7Mbps; E3 = 34.4Mbps
Status LEDs	Power, Coax link status, coax loop-back status, AIS on coax link; Fiber link status, fiber loop-back status, AIS on fiber link
Dimensions	W: 3.5" [82 mm]; D: 6.5" [165 mm]; H: 1.0" [25 mm]
Power Consumption	2.4 Watts
Power	Input: 100-240 VAC Output: 12 VDC
Operating Temp	-10°C to 65°C
Altitude	0-10,000 Feet
Operating Humidity	5-95% (non-condensing)
Shipping Weight	2.0 lbs. [0.90 kg]
Regulatory Compliance	CISPR/EN55022 Class A; FCC Class A; CE Mark, UL60950
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