

slide-in-module for the ion platform

C6010 Series

T1/E1 to Fiber Network Interface Device



The T1/E1 copper to fiber network interface device (NID) provides a solution for those users that need to extend T1/E1 or PRI connections over fiber.

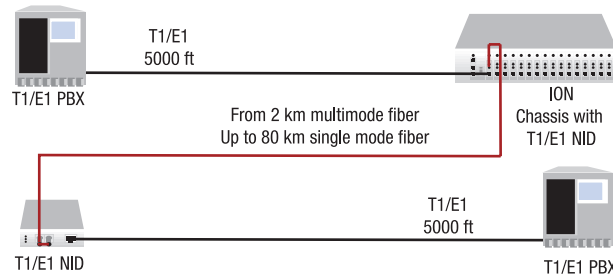
The T1/E1 supports Small Form Pluggable (SFP) transceivers to support a variety of fiber types, distances and wavelengths to provide maximum flexibility across a variety of network topologies. The use of Coarse Wave Division Multiplexing (CWDM) SFPs can be utilized to further increase the bandwidth capacity of the fiber infrastructure.

The T1/E1NID 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.

Features

- ▶ Remote in-band management
- ▶ Local or Remote Loopbacks - Copper or Fiber
- ▶ Switch selectable for T1 or E1
- ▶ Remote firmware upgrade
- ▶ 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
- ▶ Extend PRI over fiber

Application Diagram



Specifications

Standards	ANSI T1.102, T1.402 and T1.408, ITU I.431, G.703, G.736, G.775 and G.823, ETSI 300-166, 300-233 and TBR12/12
Copper Connectors	RJ-48, BNC
Fiber Connectors	SFP: LC connector Uses standard 100BASE-X/OC-3 SFP Fixed Optics: ST or SC connector
Data Rates	T1 = 1.544 Mbit/s, E1 = 2.048 Mbit/s
Status LED	Power, Signal Detect Copper, Signal Detect Fiber
Dimensions	W: 0.86" [22 mm]; D: 6.5" [165 mm]; H: 3.4" [86 mm]
Power Consumption	2.6 Watts
Environment	See chassis specifications
Shipping Weight	1.0 lb. [.45 kg]
Regulatory Compliance	CISPR/EN55022 Class A; FCC Class A; CE Mark
MTBF	Greater than 250,000 hours (MIL-HDBD-217F) Greater than 687,000 hours (Bellcore)
Warranty	Lifetime

Ordering Information

- C6010-1011**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- C6010-1013**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 12.0 dB
- C6010-1014**
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
- C6010-1015**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 29.0 dB
- C6010-1016**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm single mode (SC)
[60 km/37.3 mi.] Link Budget: 32.0 dB
- C6010-1017**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB
- C6010-1040**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to SFP slot (empty)
- C6010-3040**
(2) Coax (BNC)
to SFP slot (empty)
- Single Fiber Products**
Recommended use in pairs
- C6010-1029-A1**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm TX /1550nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- C6010-1029-A2**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1550nm TX /1310nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- C6010-1029-B1**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1310nm TX /1550nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB
- C6010-1029-B2**
Twisted Pair (RJ-48) [1.5 km/0.9 mi.] to 1550nm TX /1310nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB