

C6110 Series

ION T1/E1/J1 Network Interface Device Module

4 x T1/E1/J1 over Fiber



C6110-1013

The ION 4 x T1/E1/J1 copper to fiber network interface device (NID) provides a solution for those users that need to extend multiple T1/E1/J1 connections over fiber.

The ION 4 x T1/E1/J1 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 ION 4 x T1/E1/J1 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.

Applications include: T1/E1/J1 extension over fiber, Mobile backhaul, and Business customers.

Features

- (4) RJ-48 copper interfaces
- (1) fiber interface (fixed or SFP)
(2) SFP ports on C6111-1040 model
- Loopback via test set
- Local and remote loopbacks
- LEDs for device status and troubleshooting
- Settings for line code, line build out, loopbacks and Alarm Indication Signal (AIS)
- Access to complete status and configuration on local and remote device
- Remote firmware upgrade
- Remote management

Specifications

Standards	ANSI T1.102 T1.403 T1.408 ITU I.431 G.703 G.736 G.775 G.823 ETSI 300-166 ETSI 300-233 TBR 12/13 AT&T Pub 62411
Data Rate	Copper ports (RJ-48): T1(J1) = 1.544Mb/s, E1 = 2.048Mb/s SFP port(s) (empty): 100Base-X/OC-3
Switches	Numerous switch settings for line coding, line build out, loopback and AIS
Status LEDs	Power, Port Status, Loopback and AIS
Dimensions	Width: 1.72" [44 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	6 Watts (max: dual fiber model) 5.5 Watts (max: single fiber model)
Environment	Environment specs are dependent on the chassis chosen Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	1 lb. [0.45 kg]
Compliance	EN55022 Class A, EN55024, CE mark
Warranty	Lifetime

Ordering Information

C6110-1011

1300nm multimode (ST) [2 km/1.2 mi.]
Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C6110-1013

1300nm multimode (SC) [2 km/1.2 mi.]
Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C6110-1014

1310nm single mode (SC) [20 km/12.4 mi.]
Link Budget: 16.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C6110-1040

*1 SFP port (Empty)
to (4) RJ-48 [1.5 km/0.9 mi.]

C6111-1040

*2 SFP ports (Empty)
to (4) RJ-48 [1.5 km/0.9 mi.]

Single Fiber Products

Recommended use in pairs

C6110-1029-A1

1310nm TX/1550nm RX single fiber
single mode (SC) [20 km/12.4 mi.]
Link Budget: 19.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C6110-1029-A2

1550nm TX/1310nm RX single fiber
single mode (SC) [20 km/12.4 mi.]
Link Budget: 19.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

*SFP port uses standard 100Base-x/oc-3 SFP