C6120 Series

ION T1/E1/J1 Network Interface Device Module

4 x T1/E1/J1 + 10/100 Ethernet over Fiber

C6120-1013

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 and 10/100Mbps Ethernet 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 C6121-1040 model
- (1) RJ-45 10/100Mbps Ethernet port
- Auto-MDI/MDIX
- Pause (Flow Control on Ethernet port)
- 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 IEEE 802.3™-2008
Data Rate	Copper ports (RJ-48): T1(J1) = 1.544Mb/s, E1 = 2.048Mb/s Ethernet port (RJ-45): 10/100Mbps 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

C6120-1011
1300nm multimode (ST) [2 km/1.2 mi.]
Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

C6120-1013
1300nm multimode (SC) [2 km/1.2 mi.]
Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

C6120-1014
1310nm single mode (SC) [20 km/12.4 mi.]
Link Budget: 16.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

C6120-1040
*1 SFP port (Empty)
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

C6121-1040
*2 SFP ports (Empty)
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

Single Fiber Products

C6120-1029-A1
1310nm TX/1550nm RX single fiber single mode (SC) [20 km/12.4 mi.] LB: 19.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

C6120-1029-A2
1550nm TX/1310nm RX single fiber single mode (SC) [20 km/12.4 mi.] LB: 19.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100m]

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