

S6120 Series

4xT1/E1/J1 + 10/100 Ethernet

The ION 4xT1/E1/J1 copper to fiber network interface device (NID) provides a solution for those users that need to extend multiple T1/E1 connections and 10/100Mbps Ethernet over fiber.

The ION 4xT1/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 4xT1/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.



Features

- 4 x RJ-48 copper interfaces
- 1 fiber interface (fixed or SFP)
- 2 SFP ports on S6121-1040 model
- 1 RJ-45 10/100Mbps Ethernet port
- AutoCross (auto MDI/MDI-X on Ethernet port)
- 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
- Extended operating temperature

Hardware and Performance Specifications

Standards	ANSI T1.102, T1.403 and T1.408 ITU I.431, G.703, G.736, G.775 and G.823 ETSI 300-166, 300-233 and TBR 12/13 AT&T Pub 62411 IEEE 802.3™-2008
Switches	Numerous switch settings for line coding, line build out, loopback and AIS
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
Status LEDs	Power, Port Status, Loopback and AIS
Dimensions	Width: 3.7" [94 mm] Depth: 6.5" [165 mm] Height: 1.8" [46 mm]
Power Consumption	6W max for dual fiber model, 5.5W max for single fiber model
Input Power	AC: 12 VDC via barrel connector using 100 240VAC, UL listed power supply
Environment	-10°C to +65°C operating temperature 5%– 95% humidity non-condensing -40°C to +85°C storage temperature
Safety Compliance	EN55022 Class A, EN55024, CE mark
Shipping Weight	2 lbs. (0.45 kg)
Warranty	Lifetime

Applications

- T1/E1/J1 extension over fiber
Mobile backhaul
- Business customers

Optional Accessories (sold separately)

SFP Modules

Wide Input (24 - 60VDC) Power Supplies

SPS-2460-SA

Stand-Alone Power Supply
Mounting Brackets

WMBL

Wall Mount Bracket 4.0" [102 mm]



Ordering Information

S6120-1011

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]

S6120-1013

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]

S6120-1014

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]

S6120-1015

1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 29.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100BASE-TX (RJ-45) [100m]

S6120-1016

1310nm single mode (SC) [60 km/37.3 mi.]
Link Budget: 32.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100BASE-TX (RJ-45) [100m]

S6120-1017

1550nm single mode (SC) [80 km/49.7 mi.]
Link Budget: 29.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100BASE-TX (RJ-45) [100m]

S6120-1035

1550nm single mode (SC)
[120 km/74.6 mi.] Link Budget: 36.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100BASE-TX (RJ-45) [100m]

S6120-1040

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

S6121-1040

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

Single Fiber Products

S6120-1029-A1

1310nm TX/1550nm RX single fiber SM (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]

S6120-1029-A2

1550nm TX/1310nm RX single fiber SM (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]

S6120-1029-B1

1310nm TX/1550nm RX single fiber SM (SC) [40
km/24.9 mi.] LB: 25.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100BASE-TX (RJ-45) [100m]

S6120-1029-B2

1550nm TX/1310nm RX single fiber SM (SC)
[40 km/24.9 mi.] LB: 25.0 dB to (4) RJ-48 [1.5
km/0.9 mi.] plus 10/100BASE-TX (RJ-45) [100m]