

# S6110 Series

## 4xT1/E1/J1



### Features

- 4 x RJ-48 copper interfaces
- 1 fiber interface (fixed or SFP)
- 2 SFP ports on S6111-1040 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
- Extended operating temperature

### Applications

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

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 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.

### 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
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 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]
Input Power	AC: 12 VDC via barrel connector using 100-240VAC, UL listed power supply
Power Consumption	6W max for dual fiber model, 5.5W max for single fiber model
Environment	-10°C to +65°C operating temperature 5% - 95% humidity non-condensing -40°C to +85°C storage temperature
Safety	EN55022 Class A, EN55024, CE mark
Shipping Weight	2 lbs. (0.90 kg)
Warranty	Lifetime



### Ordering Information

#### S6110-1011

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

#### S6110-1013

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

#### S6110-1014

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

#### S6110-1015

1310nm single mode (SC) [40 km/24.9 mi.]  
Link Budget: 29.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

#### S6110-1016

1310nm single mode (SC) [60 km/37.3 mi.]  
Link Budget: 32.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

#### S6110-1017

1550nm single mode (SC) [80 km/49.7 mi.]  
Link Budget: 29.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

#### S6110-1035

1550nm single mode (SC) [120 km/74.6 mi.]  
Link Budget: 36.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

#### S6110-1040

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

#### S6111-1040

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

### Single Fiber Products

#### S6110-1029-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.]

#### S6110-1029-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.]

#### S6110-1029-B1

1310nm TX/1550nm RX single fiber single mode (SC) [40 km/24.9 mi.]  
Link Budget: 25.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

#### S6110-1029-B2

1550nm TX/1310nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 25.0 dB to  
(4) RJ-48 [1.5 km/0.9 mi.]

### 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]