

# S6110 Series

## Stand-alone T1/E1/J1 Network Interface Device

### 4 x T1/E1/J1 over Fiber



S6110-1013

## Features

- (4) 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

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.

## Specifications

Standards	ANSI T1.102 T1.403 T1.408 ITU I.431 G.703 G.736 G.775 G.823 ETSI 300-166 300-233 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: 3.7" [94 mm] Depth: 6.5" [165 mm] Height: 1.8" [46 mm]
Power Consumption	6 Watts (max) for dual fiber model 5.5 Watts (max) for single fiber model
Power Input	AC: 12 VDC via barrel connector using 100-240VAC, UL listed power supply
Environment	Operating: -10°C to 65°C Storage: -40°C to +85°C Humidity: 5% to 95% (non-condensing)
Weight	2 lbs. [0.90 kg]
Compliance	EN55022 Class A, EN55024, CE mark
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.]

### S6110-1040

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.]

## Optional Accessories (sold separately)

### SFP Modules

## Wide Input (24 - 60VDC) Power Supplies

### SPS-2460-SA

Stand-Alone Power Supply

## Mounting Options

### WMBL

Wall Mount Bracket 4" [102 mm]

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

## Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: S6110-1011-NA

### -NA = Country Code

NA = North America, LA = Latin America, EU = Europe, UK = United Kingdom, SA = South Africa, JP = Japan, OZ = Australia, BR = Brazil