

## Stand-alone DS1-T1/E1/J1 Network Interface Device

4 x DS1 - T1/E1/J1 + 10/100 Ethernet over Fiber



The ION S6120 is a managed stand-alone DS1 - T1/E1/J1 media converter mux that provides a solution for those users that need to extend multiple DS1 - T1/E1/J1 connections, along with a 10/100 Ethernet connection, all over fiber. The S6120 includes (4) RJ-48 ports, (1) 10/100 Ethernet port, and (1) fiber port. The device is available in versions that support fixed fiber connectors as well as SFP fiber modules offering support for a variety of fiber types, distances, and wavelengths to provide

maximum flexibility across a variety of network topologies. CWDM SFPs can also be utilized to further increase the bandwidth capacity of the fiber infrastructure.

The S6120 converter must be used in pairs. Management of the stand-alone converter is supported, in-band, over the fiber, when the remote S6120 is linked to a C6120 card installed in a managed ION chassis.

### Features

- (4) RJ-48 copper interfaces
- (1) fiber interface (fixed or SFP)
- (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
- Extended operating temperature
- Must be used in pairs

### Specifications

|                   |   |
|-------------------|---|
| Standards         | ANSI T1.102<br>T1.403 and T1.408<br>ITU I.431<br>G.703<br>G.736<br>G.775<br>G.823<br>ETSI 300-166<br>300-233<br>TBR 12/13<br>AT&T Pub 62411<br>IEEE 802.3 |
| Data Rate         | Copper ports (RJ-48): T1(J1) = 1.544Mb/s,<br>E1 = 2.048Mb/s<br>Ethernet port (RJ-45): 10/100Mbps<br>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]<br>Depth: 6.5" [165 mm]<br>Height: 1.8" [46 mm]   |
| Power Consumption | 6 Watts (max) for dual fiber model<br>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<br>Storage: -40°C to 85°C<br>Humidity: 5% to 95% (non-condensing)  |
| Weight            | 2 lbs. [0.90 kg]  |
| MTBF              | 114,580 hours (Bellcore)  |
| Certifications    | EN55022 Class A, EN55024, CE mark   |
| Warranty          | Lifetime  |

### Ordering Information

#### 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.]  
+ 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.]  
+ 10/100Base-TX (RJ-45) [100m]

#### S6120-1040

1 SFP port (Empty) to (4) RJ-48  
[1.5 km/0.9 mi.]  
+ 10/100Base-TX (RJ-45) [100m]  
(SFP port uses standard 100Base-x/oc-3 SFP)

Optional Accessories (sold separately)

#### SFP Modules

Wide Input (24 - 60VDC) Power Supplies (sold separately)

#### SPS-2460-SA

Stand-Alone Power Supply

Mounting Options (sold separately)

#### WMBL

Wall Mount Bracket 4" [102 mm]

#### 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: S6120-1013-NA

#### -NA = Country Code

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