

## Stand-alone DS1 - T1/E1 Remotely Managed NID

### DS1 - T1/E1 over Fiber



S6010-1040

The ION S6010 is a stand-alone managed media converter that offers a solution for extending DS1 - T1/E1 or PRI connections over fiber optic cabling. It provides fiber extension through a twisted pair RJ-48 port and a fiber port. These DS1 - T1/E1 converters must be used in pairs, one on each end of the fiber link. Management of the stand-alone converter is supported, in-band, over the fiber, when the remote S6010 is linked to a C6010 card installed in a managed ION Chassis. These DS1 - T1/E1 converters are available with fixed fiber connectors or an open SFP slot, with support for various fiber types, distances, and wavelengths to provide maximum flexibility for any network topology. CWDM SFPs can also be used to further increase the bandwidth capacity of the fiber infrastructure.

### Features

- Remote in-band management
- Local or Remote Loopbacks - Copper or Fiber
- Switch selectable for T1 or E1
- Remote firmware upgrade
- LEDs for immediate visual status
- Supports dual or single fiber
- Supports multimode and single mode fiber at a variety of distances
- Supports CWDM SFPs
- SNMP management when used with ION chassis and management module
- Remote stand-alone can be managed by local peer
- Extend PRI over fiber
- Must be used in pairs

### Specifications

|                   |  |
|-------------------|--|
| Standards         | ANSI T1.102<br>T1.402<br>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>TBR12/12  |
| Copper Connectors | RJ-48, BNC   |
| Fiber Connectors  | SFP: LC connector Uses standard 100Base-X/OC-3 SFP Fixed Optics: ST or SC connector  |
| Data Rates        | T1 = 1.544 Mbit/s, E1 = 2.048 Mbit/s   |
| Status LEDs       | Power, Signal Detect Copper, Signal Detect Fiber   |
| Dimensions        | Width: 3.25" [82 mm]<br>Depth: 6.5" [165 mm]<br>Height: 1" [25 mm]   |
| Power Consumption | 2.6 Watts  |
| Power Input       | 100-240 VAC  |
| Power Output      | 12 VDC   |
| Environment       | Operating: -10°C to 65°C<br>Humidity: 5% to 95% (non-condensing)<br>Altitude: 0 – 10,000 ft.   |
| Weight            | 2 lbs. [0.90 kg]   |
| MTBF              | With Power Supply:<br>Greater than 41,660 hours (MIL-HDBD-217F)<br>Greater than 114,580 hours (Bellcore)<br><br>Without Power Supply:<br>Greater than 250,000 hours (MIL-HDBD-217F)<br>Greater than 687,000 hours (Bellcore) |
| Certifications    | CISPR/EN55022 Class A, FCC Class A, CE Mark, UL60950   |
| Warranty          | Lifetime   |

### Ordering Information

**S6010-1011**  
Twisted Pair (RJ-48) [1.5 km/0.9 mi.]  
to 1300nm multimode (ST) [2 km/1.2 mi.]  
Link Budget: 11.0 dB

**S6010-1013**  
Twisted Pair (RJ-48) [1.5 km/0.9 mi.]  
to 1300nm multimode (SC) [2 km/1.2 mi.]  
Link Budget: 12.0 dB

**S6010-1014**  
Twisted Pair (RJ-48) [1.5 km/0.9 mi.]  
to 1310nm single mode (SC)  
[20 km/12.4 mi.] Link Budget: 16.0 dB

**S6010-1040**  
Twisted Pair (RJ-48) [1.5 km/0.9 mi.]  
to \*SFP slot (empty)

**S6010-3040**  
(2) Coax (BNC) to \*SFP slot (empty)

**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]

**WMBD**  
DIN Rail Bracket 5" [127 mm]

**E-MCR-05**  
12-Slot Media Converter Rack

**RMS19-SA4-02**  
4-Slot Media Converter Shelf

\*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: S6010-1011-NA

#### -NA = Country Code

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