

## ION DS1 - T1/E1/J1 Network Interface Device Module 4 x DS1 - T1/E1/J1 + 10/100 Ethernet over Fiber

The ION C6120 is a managed T1/E1/J1 mux media converter module that provides a solution for those users that need to extend multiple T1/E1/J1 connections, along with a 10/100 Ethernet connection, all over fiber. The C6120 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 C6120 converter must be used in pairs. A typical installation will include a modular card installed in a managed ION chassis linked over fiber to a stand-alone S6120 in a remote location.



### 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
- Must be used in pairs

### Specifications

Standards	ANSI T1.102 T1.403 T1.408 ITU 1.431 G.703 G.736 G.775 G.823 ETSI 300-166 ETSI 300-233 TBR 12/13 AT&T Pub 62411 IEEE 802.3-2008
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
Switches	Numerous switch settings for line coding, line build out, loopback and AIS
Status LEDs	Power, Port Status, Loopback and AIS
Dimensions	Width: 1.72" [44 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	6 Watts (max: dual fiber model) 5.5 Watts (max: single fiber model)
Environment	<b>Environment specs are dependent on the chassis chosen</b> Operating: 0°C to +50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	1 lb. [0.45 kg]
MTBF	687,500 hours (Bellcore)
Certifications	EN55022 Class A, EN55024, CE mark
Warranty	Lifetime

### Ordering Information

#### C6120-1014

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]

#### C6120-1040

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

### Optional Accessories (sold separately)

#### SFP Modules