

ION 10 Gigabit Ethernet Media Converter Module

10GBase-T to 10GBase-X



The C4120 is a media converter module that provides an interface between 10GBase-T ports and 10GBase-X ports via an open SFP+ port, allowing users to convert their 10Gig Ethernet ports to the preferred type of cabling used in their networks. The open SFP+ port supports a wide variety of Transition Networks 10GE SFP+ fiber modules. Operating at Layer 1, the physical layer, data is passed through the converter at line speed, making the C4120 ideal for applications where low latency is essential. The ION C4120 is a manageable device when installed in a managed ION chassis.

Ordering Information

C4120-1048
10GBase-T RJ-45 100m
to 10GBase-X SFP+ Slot (Empty)

Optional Accessories (sold separately)

SFP+ Modules
Supports any SFP+ 10G Modules

Media Converters

Features

- Transparent Link Pass Through
- Auto-Negotiation
- Auto-MDI/MDIX
- Automatic Link Restoration
- Loopback on Fiber and Copper
- DMI
- For use in the ION 19-Slot or 6-Slot Chassis only
- Manageable when installed in a managed ION Chassis
- Remote Firmware Upgrade
 - Fiber Port supported standards
 - 10GBase-SR
 - 10GBase-LRM
 - 10GBase-LR
 - 10GBase-ER
 - 10GBase-ZR
- The open SFP+ port also supports:
 - Direct attached 10G copper cable assemblies
 - Both Class-I and Class-II fiber
 - SFP+ modules
 - SFP modules supporting WDM technology
- Support 100m on Cat6a or higher UTP
- Per Energy Efficient Ethernet standards, IEEE 802.3az, UTP cable length is detected and power is adjusted according, to reduce power consumption on shorter UTP cable installs

Specifications

| | |
|-------------------|--|
| Standards | IEEE 802.3 IEEE 802.3an IEEE 802.3ae IEEE 802.3az |
| Data Rate | 10 Gbps |
| Dip Switches | SW1: Copper Loopback SW2: Fiber Loopback SW3: not used SW4: Transparent Link Pass Through |
| Status LEDs | PWR (Power): On = power is on L/A SFP+ (Fiber port link and activity statue): On = Link OK Flashing = Link and Activity OK Copper Link (Copper Link Status): On = Link OK Copper Act (Copper Link Activity): On = Activity OK |
| Dimensions | Width: 0.86" [21.85 mm] Depth: 6.5" [165 mm] Height: 3.4" [86.36 mm] |
| Power Consumption | 10.5 Watts See product manual for chassis power guidelines |
| Environment | Environment specs are dependent on the chassis chosen Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft. |
| Weight | 1 lb. [0.45 kg] |
| MTBF | Greater than 250,000 hours (MIL-HDBK-217F) Greater than 687,000 hours (Bellcore) |
| Certifications | FCC Class A, EN55022 Class A, EN55024, CE Mark |
| Warranty | Lifetime |