

C4120 Series

ION™ 10 Gigabit Ethernet Media Converter Module

10GBase-T Copper to Fiber



C4120-1048

Features

- Transparent Link Pass Through
- Auto-Negotiation
- Auto-MDI/MDIX
- Automatic Link Restoration
- Loopback on Fiber and Copper
- DMI
- For use in ION™ Chassis
- 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

The x4120-1048 is a 10 Gigabit Ethernet copper to fiber media converter. It offers conversion technology by providing one 10GBase-T RJ-45 port and one pluggable 10GBase-X fiber SFP+ port. The open SFP+ port supports a wide variety of Transition Networks 10GE SFP+ fiber modules, as well as third party MSA compatible SFP+ modules.

The x4120 provides several 10G Ethernet enterprise and data center connectivity solutions. Since most 10G Ethernet switches support a combination of copper RJ-45 and open SFP+ ports, the x4120 allows users to convert either of these ports to the media type of their preference to match their network requirements, including direct attached copper SFP+ cables.

The slide-in-card C4120 is a managed device when installed in a Managed ION™ Chassis.

Specifications

Standards	IEEE 802.3 IEEE 802.3an IEEE 802.3ae IEEE 802.3az
Data Rate	10 Gbps
Status LEDs	PWR (Power): On = power is on L/A SFP+ (Fiber port link and activity status): On = Link OK Flashing = Link and Activity OK Copper Link (Copper Link Status): On = Link OK Copper Act (Copper Link Activity): On = Activity OK
Dip Swithes	SW1: Copper Loopback SW2: Fiber Loopback SW3: not used SW4: Transparent Link Pass Through
Dimensions	Width: 0.86" [21.85 mm] Depth: 6.5" [165 mm] Height: 3.4" [86.36 mm]
Power	External AC/DC power supply, Universal AC input, 12VDC 1.6A output
Power Consumption	10.5 watts see product manual for chassis power guidelines
Environment	See chassis specifications [pg 3-4] Storage: -15°C - 65°C
Weight	1 lb
MTBF	Greater than 250,000 hours (MIL-HDBK-217F) Greater than 687,000 hours (Bellcore)
Compliance	FCC Class A, EN55022 Class A, EN55024, CE Mark
Warranty	Lifetime



Ordering Information

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

Optional Accessories (sold separately)

10Gig SFP+ Modules

TN-10GSFP-xx
10GBase SFP+, MSA Compatible,
for Dual Strand and Single Strand fiber

TN-J9150A
10GBase SFP+, HP Compatible,
10GBase-SR

TN-SFP-10G-xx
10GBase SFP+, Cisco Compatible, for Dual
Strand and Single Strand fiber

TN-CWDM-10G-1xx0-40
10GBase CWDM SFP+,
Cisco Compatible, 40km

TN-CWDM-10G-1xx0-80
10GBase CWDM SFP+,
Cisco Compatible, 80km

DAC-10G-SFP-0xM
10G SFP+ Direct Attached Copper Cable
Assemblies (See SFP chapter for details)