LANTRONIX®

S4120-1048

Media Converters

Stand-alone 10 Gigabit Ethernet Media Converter
10GBase-T Copper to Fiber

The S4120 is a stand-alone media converter that provides an interface between 10GBase-T ports and 10GBase-X ports via an open SFP+ slot, allowing users to convert their 10Gig Ethernet ports to the preferred type of cabling used in their networks. The open SFP+ slot supports a wide variety of Lantronix 10GE SFP+ fiber modules. Operating at Layer 1, the physical layer, data is passed through the converter at line speed, making the S4120 ideal for applications where low latency is essential. The ION S4120 can be managed, in-band, over the fiber, when it is linked back to a C4120 card installed in a managed ION chassis.

S4120-1048

Key Features

- Transparent Link Pass Through
- Auto-Negotiation
- Auto-MDI/MDIX
- Automatic Link Restoration
- Loopback on Fiber and Copper
- DMI
- Support Remote In-band Management and Remote Firmware Upgrade when linked to a C4120 card installed in a managed ION chassis
- 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: 3.25" [82.55 mm] Depth: 6.5" [165 mm] Height: 1" [25.4 mm]
Power Consumption	10.5 Watts
Power Supply	External AC/DC power supply, Universal AC input, 12VDC 1.6A output
Environment	Operating: 0°C to 50°C Storage: -15°C to 65°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.91 kg]
MTBF	With Power Supply: Greater than 41,660 hours (MIL-HDBK-217F) Greater than 114,580 hours (Bellcore) Without Power Supply: 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

Ordering Information

S4120-1048
10GBase-T RJ-45 100m to
10GBase-X SFP+ Slot (Empty)

Optional Accessories (sold separately)

SFP+ Modules
Supports 10G SFP+ Modules

Mounting Brackets (sold separately)

WMBL
Wall Mount Bracket 4" [102 mm]

WMBD
5" [127 mm] DIN Rail Mount Bracket

E-MCR-05
12-Slot Media Converter Rack

RMS19-SA4-02
4-Slot Media Converter Shelf

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: S4120-1048-**NA**

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