

### 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.



### 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<br>IEEE 802.3an<br>IEEE 802.3ae<br>IEEE 802.3az   |
| Data Rate         | 10 Gbps  |
| Dip Switches      | SW1: Copper Loopback<br>SW2: Fiber Loopback<br>SW3: not used<br>SW4: Transparent Link Pass Through   |
| Status LEDs       | PWR (Power): On = power is on<br>L/A SFP+ (Fiber port link and activity status):<br>On = Link OK<br>Flashing = Link and Activity OK<br>Copper Link (Copper Link Status):<br>On = Link OK<br>Copper Act (Copper Link Activity):<br>On = Activity OK |
| Dimensions        | Width: 3.25" [82.55 mm]<br>Depth: 6.5" [165 mm]<br>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<br>Storage: -15°C to 65°C<br>Humidity: 5% to 95% (non-condensing)<br>Altitude: 0 – 10,000 ft.   |
| Weight            | 2 lbs. [0.91 kg]   |
| MTBF              | With Power Supply:<br>Greater than 41,660 hours (MIL-HDBK-217F)<br>Greater than 114,580 hours (Bellcore)<br><br>Without Power Supply:<br>Greater than 250,000 hours (MIL-HDBK-217F)<br>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         |