

## ION Fast Ethernet Media Converter Module

100Base-TX to 100Base-FX

Media Converters



C2110-1013

### Features

- Auto-Negotiation of speed and duplex on TP port
- Auto-MDI/MDIX on TP port
- Link Pass Through (LPT)
- Far-End-Fault (FEF) detection
- Automatic Link Restoration
- Pause advertisement
- Field Upgradeable Firmware
- Can be used in any ION Platform Chassis
- Standards based, will link with any Standard 100Base-TX and any Standard 100Base-FX ports

### Manageable Features

- Report converter status to chassis management software:
  - TP and Fiber Link Status
  - Hardware switch settings
  - Copper Port Speed
  - TP and Fiber Port Duplex
  - Fault condition
- Write operation includes:
  - Power on/off device
  - Auto-Negotiation enable/disable
  - Force 10 Mbps or 100 Mbps
  - Force half or full-duplex
  - Select advertising modes when Auto-Negotiation is enabled
  - LPT enable/disable
  - FEF enable/disable
  - Pause enable/disable
  - Auto-MDI/MDIX enable/disable

Note: Manageable Features are available when used in an ION Platform chassis along with an ION Management Module.

The ION C2110 is a media converter module that provides an interface between 100Base-TX ports and 100Base-FX ports, allowing users to integrate fiber optic cabling into 100Base-TX copper environments. Operating at Layer 1, the physical layer, data is passed through the converter at line speed, making it ideal for applications where low latency is essential. The ION C2110 is a manageable device when installed in a managed ION chassis.

### Specifications

Standards	IEEE 802.3
Data Rate	100 Mbps, Layer 1
Switches	SW1: Auto-Negotiation (UP = enabled) SW2: Pause (UP=enabled) SW3: Link Pass Through (UP = enabled) SW4: Far-End-Fault (FEF) (UP = enabled)
Internal Jumpers	Auto-MDI/MDIX: Enable/Disable
Jumpers	Hardware: Mode of operation is determined by the settings on the 4-position switch Software: Mode of operation is determined by the most recently saved on-board microprocessor settings
Status LEDs	PWR (Power): ON = Connection to powered backplane LXC (Copper Link): ON = Copper Link RXC (Receive Copper): Blinking = Data received on Copper link LKF (Fiber Link): ON = Fiber Link RXF (Receive Fiber): Blinking = Data received on Fiber Link
Dimensions	Width: 0.86" [22 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	2.5 Watts, 200 mA @ 13.9 VDC
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 667,500 hours (Bellcore)
Certifications	CISPR/EN55022 Class A, FCC Class A, CE Mark
Warranty	Lifetime

### Ordering Information

**C2110-1011**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (ST)  
[2 km/1.2 mi.] Link Budget: 11.0 dB

**C2110-1013**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (SC)  
[2 km/1.2 mi.] Link Budget: 11.0 dB

**C2110-1039**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (LC)  
[2 km/1.2 mi.] Link Budget: 11.0 dB

**C2110-1014**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1310nm single mode (SC)  
[20 km/12.4 mi.] Link Budget: 16.0 dB

**C2110-1019**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1310nm single mode (LC)  
[20 km/12.4 mi.] Link Budget: 17.3 dB

**C2110-1040**  
100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-X SFP Slot (empty)

Optional Accessories (sold separately)

SFP Modules