

slide-in-module for the ion platform

C3110 Series

1000BASE-T to 1000BASE-SX/LX Slide-in-Module

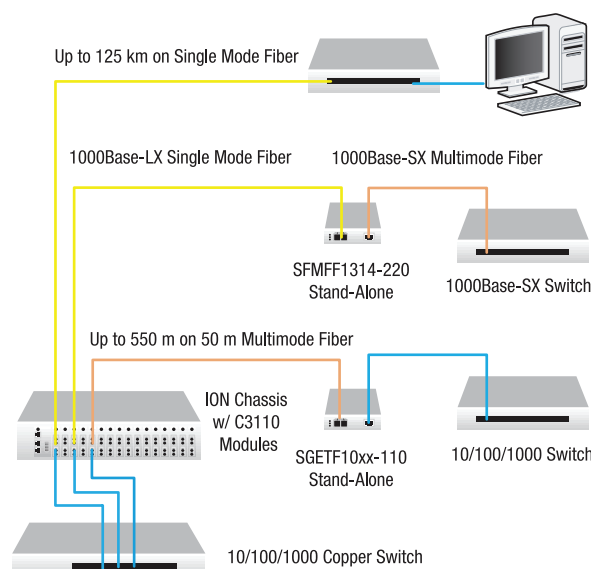


Features

- ▶ Copper and Fiber Auto-Negotiation
- ▶ AutoCross™ on TP port [
- ▶ Link Pass Through
- ▶ Remote Fault Detect
- ▶ Loopback
- ▶ Pause
- ▶ Automatic Link Restoration
- ▶ Field Upgradeable Firmware

The following manageable features are available when used in an ION Platform chassis along with an ION Management Module.

- ▶ Report converter status to chassis management software:
 - Copper and Fiber link/receive status
 - Hardware switch settings
 - Receive error count
- ▶ Write operation includes:
 - Power on/off device
 - Auto-Negotiation enable/disable
 - Remote Fiber Fault Detect enable/disable
 - Link Pass Through enable/disable
- Pause enable/disable
- Symetric Pause
- Asymmetric TX Pause
- Asymmetric RX Pause



The ION C3110 device provides an interface between 1000Base-T ports and 1000Base-SX/LX ports allowing users to integrate fiber optic cabling into 1000Base-T copper environments.

Specifications

Standards	IEEE Std. 802.3ab, IEEE 802.3z, IEEE 802.3 2000
Data Rate	1000 Mbps, Layer-1
Switches	SW1: Remote Fiber Fault Detect SW2: Pause (symmetric) SW3: Pause (asymmetric) SW4: Transparent Link Pass Through (Up=Enabled) SW5: Fiber Auto-Negotiation (Down=Enabled) SW6: Loopback
Hardware/Software 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	LKF (fiber link): On = Fiber Link, blinking activity PWR (Power): On = Connection to powered backplane TP LED 1 (Copper Link): On = Link, blinking activity TP LED2 (Copper Duplex): On = Full Duplex
Dimensions	Width: 0.86" [22 mm] Depth: 6.5" [165 mm] Height: 3.4" [86 mm]
Power Consumption	3.6 Watts, 300mA @ 112 VDC
Environment	See chassis specifications
Shipping Weight	1 lb [.45 kg]
Regulatory Compliance	CISPR/EN55022 Class A, FCC Class A, CE Mark, EN55024
Warranty	Lifetime

Gigabit Ethernet

Ordering Information

- C3110-1013**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-SX 850nm MM (SC)
[220m/721 ft. and 550 m/1804 ft.]
Link Budget: 8.5 dB
- C3110-1024**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-SX 1310nm extended MM (SC)
[2 km/1.2 mi.] Link Budget: 7.0 dB
- C3110-1014**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1310nm SM (SC)
[10 km/6.2 mi.] Link Budget: 10.5 dB
- C3110-1015**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1310nm SM (SC)
[25 km/15.5 mi.] Link Budget: 15.0 dB
- C3110-1017**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1550nm SM (SC)
[65 km/40.4 mi.] Link Budget: 21.0 dB
- C3110-1035**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1550nm SM (SC)
[125 km/77.5 mi.] Link Budget: 27.0 dB
- C3110-1040**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000Base-X SFP Slot (empty)
- Single Fiber Products**
Recommended use in pairs
- C3110-1029-A1**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1310nm TX/1550nm RX
single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 13.0 dB
- C3110-1029-A2**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1550nm TX/1310nm RX
single fiber single mode (SC)
[20 km/12.4 mi.] Link Budget: 13.0 dB
- C3110-1029-B1**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1310nm TX/1550nm RX
single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 20.0 dB
- C3110-1029-B2**
1000BASE-T (RJ-45) [100 m/328 ft.]
to 1000BASE-LX 1550nm TX/1310nm RX
single fiber single mode (SC)
[40 km/24.9 mi.] Link Budget: 20.0 dB

- ▶ Can be used in any ION Platform Chassis
- ▶ Cost effective fiber deployment by pairing C3110 with lower cost 1000Base-T switches, offering the benefits of fiber without the high costs
- ▶ Standards based, will link with any standard 1000Base-T and any standard 1000Base-SX or LX ports