



CRFME10xx-20x

Remotely Managed Fast Ethernet NID (Network Interface Device)

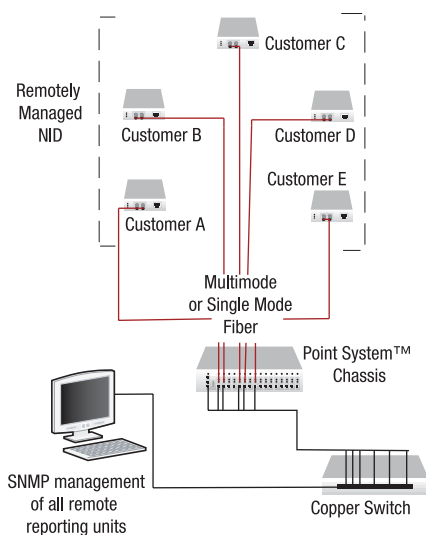
With the Remotely Managed Fast Ethernet NID, service providers can now monitor and manage the entire optical link from the Central Office (CO) to the Customer Premise Equipment (CPE). They also have the ability to remotely change the bandwidth offered to the customer in increments of 64Kbps and choose the appropriate mode of connection straight from their Network Management Centers.

Devices should be used in pairs. Typical installation will include a chassis card installed in the Point System™ locally and a stand-alone device (SRMFE pg. 81) installed at the remote location.

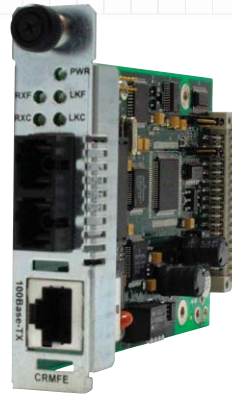
Features

- ▶ Auto-Negotiation
- ▶ AutoCross™
- ▶ Link Pass Through
- ▶ Far-End-Fault (FEF)
- ▶ Automatic Link Restoration
- ▶ Pause
- ▶ Remote Management
- ▶ Loopback
- ▶ Bandwidth Allocation
- ▶ Jumbo Frame Support
- ▶ Remote Firmware Upgrade
- ▶ Can be used with any Point System™ Chassis

Remotely Managed Fast Ethernet



- ▶ In-band management of stand alone Fast Ethernet NID
- ▶ Remote Loopback assists in diagnosing network problems
- ▶ Upstream and downstream Bandwidth Control allows service providers to offer an array of services



Specifications

Standards	IEEE Std. 802.3
3-position Jumpers	Jumper (J2): Enable/Disable AutoCross™ Jumper (J6): Hardware: mode is determined by 4-position switch settings Software: mode is determined by most recently saved on-board microprocessor settings.
4 position Switch	Pos 1: Auto-Neg: (ON) Advertises 100Mb/s full/half-duplex during auto-negotiation; (OFF) (Used primarily when connecting to hub) Operates at 100Mb/s in duplex mode of attached device. Pos 2: PAUSE: Applies only if Switch 1 is UP AND device is connected to Auto-Negotiating device(s) capable of Pause Control Frame propagation. (UP) ALLOWS negotiation of Pause Control Frame. (DOWN) Does NOT allow negotiation of Pause Control Frame. Pos 3: Link Pass Through: (UP) enabled; (DOWN) disabled Pos 4: Far-End-Fault: (UP) enabled; (DOWN) disabled
Status LEDs	Power LKF (Fiber Link)\ RXF (Fiber Receive) RXC (Copper Receive) LKC (Copper Link)
Dimensions	Width: 0.86" [22 mm] Depth: 5.0" [127 mm] Height: 3.4" [86 mm]
Power Consumption	3.4 watts
Environment	See chassis specifications
Shipping Weight	1 lb. [0.45 kg]
Regulatory Compliance	CISPR/EN55022 Class A & B + EN55024; FCC Class A & B; CE Mark
Warranty	Lifetime

Ordering Info

CRMFE1011-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 130nm SM (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB

CRMFE1013-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 130nm SM (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

CRMFE1014-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm SM (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB

CRMFE1015-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm SM (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

CRMFE1016-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm SM (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB

CRMFE1017-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

CRMFE1035-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm SM (SC)
[120 km/74.6 mi.] Link Budget: 36.0 dB

Single Fiber Products *Recommended use in pairs*

CRMFE1029-200
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm TX / 1550nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

CRMFE1029-201
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm TX / 1310nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

CRMFE1029-202
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm TX / 1550nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

CRMFE1029-203
100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm TX / 1310nm RX single fiber SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB