CFBRM Series

OAM/IP-Based Remotely Managed NID

TRANSITION NETWORKS®

CFBRM10xx-1xx

The CFBRM family of chassis card Network Interface Devices (NIDs) provide a connection between a 10/100Base-TX RJ-45 port and a 100Base-FX fiber port. The device is a remotely managed product that offers IP or IP-Less management methods for secure delivery of Ethernet services for business and mobile backhaul applications. With MEF 9 & 14 certification the CFBRM family ensures you are compliant with the latest standards. The CFBRM is a 10/100/1000Mbps product with advance features including – IEEE 802.3ah Link OAM, VLAN, QoS, Bandwidth Allocation and jumbo frame support.

Features

- MEF 9 and MEF 14 Carrier Ethernet Certification
- Two Remote Management modes:
  - IP-Based Remote Management
  - In-Band Link OAM 802.3ah (remote device managed by local peer)
- SNMP v1
- Auto-MDI/MDIX
- Auto-Negotiation
- Pause
- Link Pass Through
- Far-End-Fault
- Remote Loopback
- IEEE 802.1p QoS packet classification with 4 egress queues
- IPv4 IP TOS and DiffServ QoS classification, IPv6 Traffic class
- IEEE 802.1q VLAN
- Static MAC, 64 entries
- Double VLAN tagging (C-tag/S-tag) (Q-in-Q)
- RADIUS client
- RMON counters for each port
- Bandwidth Allocation per port
- DMI Optical Management
- USB port for basic setup
- Cable diagnostic function for TP ports
- 8K MAC addresses
- Field Upgradeable Firmware

Specifications

Standards	IEEE 802.3 IEEE 802.3ah IEEE 802.1P IEEE 802.1Q
Data Rate	10/100 Mbps; 100 Mbps
Filtering Addresses	8K MAC addresses
Max Frame Size	1628 bytes
Dimensions	Width: 0.86" [22 mm] Depth: 5.0" [127 mm] Height: 3.4" [86 mm]
Power Consumption	5.1 Watts
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]
Compliance	EN55024, FCC Class A, CE Mark
Warranty	Lifetime

CARRIER ETHERNET
MEF Certified Compliant™

Ordering Information

CFBRM1011-100
10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (ST) [2 km/1.2 mi.] Link Budget: 11.0 dB

CFBRM1013-100
10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (SC) [2 km/1.2 mi.] Link Budget: 11.0 dB

CFBRM1014-100
10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-LX10 1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 10.5 dB

CFBRM1040-100
10/100Base-TX (RJ-45) [100 m/328 ft.] to SFP slot (empty)

Single Fiber Products

CFBRM1029-100
10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-BX-U 1310nm TX/1550nm RX Bi-Di single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

CFBRM1029-101
10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-BX-D 1550nm TX/1310nm RX Bi-Di single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

Note: All units feature USB port for local management application

Optional Accessories (sold separately)

SFP Modules

USB Cables

USBC-AM-BM-03
USB 2.0 Cable A male to B male [3 ft. Gray]

USBC-AM-BM-06
USB 2.0 Cable A male to B male [6 ft. Gray]