



see also: 10/100 OAM/IP-Based Point System™ Slide-In-Modules

stand-alone network interface device

10/100 Bridging

SFBRM10xx-1xx

OAM/IP-Based Remotely Managed NID (Network Interface Device)



Features

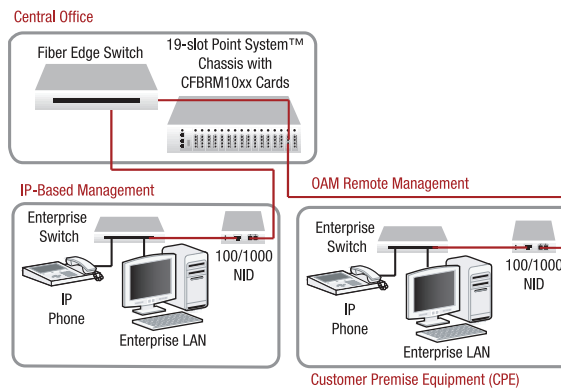
- ▶ MEF 9 & MEF 14 Carrier Ethernet Certification
- ▶ Two remote management modes:
 - IP-Based Remote Management
 - In-Band Link OAM 802.3ah (remote device managed by local peer)
- ▶ SNMP v1
- ▶ AutoCross™ [
- ▶ Auto-Negotiation
- ▶ Pause
- ▶ Transparent Link Pass Through
- ▶ Far-End-Fault
- ▶ Remote 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 on select models
- ▶ USB port for basic setup
- ▶ Cable diagnostic function for TP ports
- ▶ 8K MAC addresses
- ▶ Field Upgradeable Firmware

The xFBRM family of Network Interface Devices (NIDs) 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 xFBRM family ensures you are compliant with the latest standards. The xFBRM is a 10/100Mbps product with advance features including – IEEE 802.3ah Link OAM, VLAN, QoS, and Bandwidth Allocation.

▶ Applications:

- Ethernet in the First Mile (EFM)
- Fiber to the Premise (FTTP), E-Line and E-LAN
- Enterprise markets

Remotely Managed 10/100 NID



Specifications

Standards	IEEE Std. 802.3, IEEE Std. 802.3ah, IEEE Std. 802.1p, IEEE Std. 802.1Q
Data Rate	Copper: 10/100 Mbps Fiber: 100 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	1628 bytes
Dimensions	Width: 3.25" [82 mm] Depth: 4.8" [122 mm] Height: 1.0" [25 mm]
Environment	0 – 50°C; 5% – 95% humidity non-condensing; 0 – 10,000 ft. altitude
Power	Input: 100-240 VAC, 1A Output: 12 VDC, 1.25A
Shipping Weight	2 lbs. [0.90 kg]
Regulatory Compliance	EN55024, FCC Class A, CE Mark, UL
Warranty	Lifetime

WMBD

DIN Rail Bracket 5.0" [127 mm]

WMBL

Wall Mount Bracket 4.0" [102 mm]
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]

Ordering Information

SFBRM1011-100

SFBRM1011-110 (DMI model)
10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1300nm MM (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SFBRM1013-100

SFBRM1013-110 (DMI model)
10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1300nm MM (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SFBRM1014-100

SFBRM1014-110 (DMI model)
10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-LX10 1310nm SM (SC)
[20 km/12.4 mi.] Link Budget: 10.5 dB

SFBRM1015-100

SFBRM1015-110 (DMI model)
10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm SM (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

SFBRM1016-100

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm SM (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB

SFBRM1017-100

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

SFBRM1035-100

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm SM (SC)
[120 km/74.6 mi.] Link Budget: 36.0 dB

SFBRM1040-100

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

Single Fiber Products

SFBRM1029-100

SFBRM1029-110 (DMI model)
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

SFBRM1029-101

SFBRM1029-111 (DMI model)
10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-BX-D 1550nm TX/1310nm RX
Bi-Di SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB

SFBRM1029-102

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1310nm TX/1550nm RX
Bi-Di SM (SC)
[40 km/24.8 mi.] Link Budget: 25.0 dB

SFBRM1029-103

10/100BASE-TX (RJ-45) [100 m/328 ft.]
to 100BASE-FX 1550nm TX/1310nm RX
Bi-Di SM (SC)
[40 km/24.8 mi.] Link Budget: 25.0 dB

Note: all units feature USB port for local management application.

Optional Accessories (sold separately)

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-PS

Piggy Back Power Supply

SPS-2460-SA

Stand-Alone Power Supply

Mounting Options

E-MCR-05

12-Slot Media Converter Rack

RMS19-SA4-01

4-Slot Media Converter Shelf