

stand-alone network interface device



OAM/IP-BASED Remotely Managed 10/100BASE-TX to 100BASE-X

see also: 10/100 OAM/IP-Based Point System™
Slide-In-Modules [pg 46]

SFBRM10xx-1xx

10/100 Bridging

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



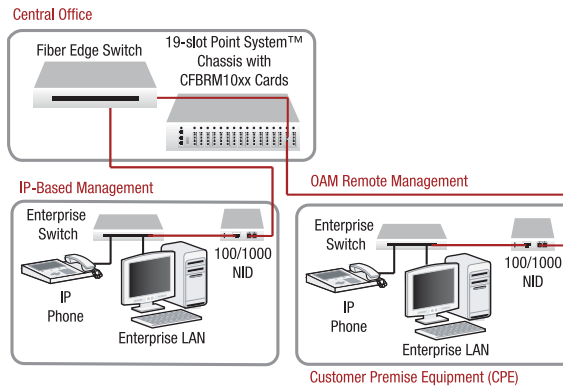
Features

- ▶ MEF 9 & MEF 14 Carrier Ethernet Certification
- ▶ Two remote management modes:
 - IP-Based Remote Management [pg 17]
 - In-Band Link OAM 802.3ah (remote device managed by local peer)
- ▶ SNMP v1
- ▶ AutoCross™ [pg 16]
- ▶ Auto-Negotiation [pg 16]
- ▶ Pause [pg 17]
- ▶ Transparent Link Pass Through [pg 17]
- ▶ Far-End-Fault [pg 16]
- ▶ Remote Loopback [pg 18]
- ▶ 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)
- ▶ IEEE 802.1x Port based security
- ▶ RADIUS client
- ▶ RMON counters for each port
- ▶ Bandwidth Allocation per port [pg 18]
- ▶ DMI Optical Management on select models
- ▶ USB port for basic setup
- ▶ Cable diagnostic function for TP ports
- ▶ 8K MAC addresses
- ▶ Field Upgradeable Firmware [pg 18]

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

Complete list of fiber optic connector specifications [pg 212-224]

| | |
|-----------------------|---|
| Standards | IEEE Std. 802.3, IEEE Std. 802.3ah, IEEE Std. 802.1P, IEEE Std. 802.1Q, IEEE Std. 802.1X |
| 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 |

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/6.2 mi.] Link Budget: 16.0 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 [pg 19]**
- 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 [pg 69]**
Piggy Back Power Supply
 - SPS-2460-SA [pg 69]**
Stand-Alone Power Supply
 - Mounting Options**
 - E-MCR-05 [pg 67]**
12-Slot Media Converter Rack
 - RMS19-SA4-01 [pg 67]**
4-Slot Media Converter Shelf
 - WMBD [pg 68]**
DIN Rail Bracket 5.0" [127 mm]
 - WMBL [pg 68]**
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]