

OAM/IP-Based NID (Network Interface Device) For Indoor and Protected Outdoor Applications



- ▶ Indoor/Protected Outdoor Applications (-40°C – 65°C)
 - Ethernet in the First Mile (EFM)
 - Fiber to the Premise (FTTP), E-Line and E-LAN
 - Enterprise markets

SFBRM10xx-18x

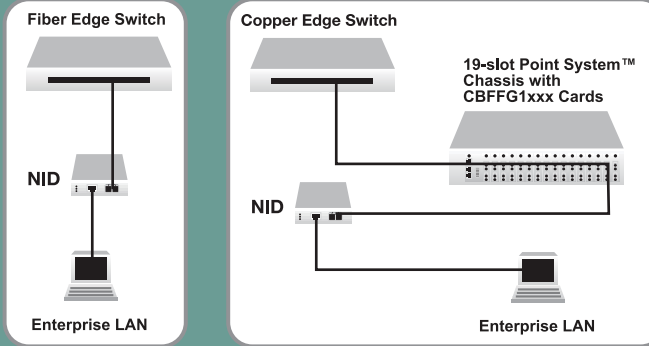
NEW



Features

- ▶ MEF 9 & MEF 14 Carrier Ethernet Certification
- ▶ Two selectable remote management modes:
 - IP-Based remote management
 - In-Band OAM 802.3ah (remote device managed by local peer)
- ▶ SNMP v1, v2*
- ▶ 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, 4096 entries
- ▶ Static MAC, 64 entries
- ▶ Double VLAN tagging (C-tag/S-tag)
- ▶ IEEE 802.1x™ Port based security
- ▶ 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
- ▶ Remote Firmware Upgrade

Remotely Managed 10/100 NID IP or OAM Management



Specifications

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 Fiber: 100 Mbps				
Filtering Addresses	8K MAC Addresses				
RAM Buffers	256K (2 Mbps)				
Max Frame Size	802.3ac tagged: 1628 bytes untagged: 1632 bytes				
Fiber Optic Connector Specs					
SKU	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sens (dBm)	Max In PWR (dBm)	Link Budget (dB)
SFBRM1011-190	-19.0	-14.0	-30.0	-14.0	11.0
SFBRM1013-190	-19.0	-14.0	-30.0	-14.0	11.0
SFBRM1014-190	-15.0	-8.0	-31.0	-8.0	16.0
SFBRM1015-190	-8.0	-2.0	-34.0	-7.0	26.0
SFBRM1016-190	-5.0	0.0	-34.0	-7.0	29.0
SFBRM1017-190	-5.0	0.0	-34.0	-7.0	29.0
SFBRM1029-190	-13.0	-6.0	-32.0	-3.0	19.0
SFBRM1029-191	-13.0	-6.0	-32.0	-3.0	19.0
SFBRM1029-192	-8.0	-3.0	-33.0	-3.0	25.0
SFBRM1029-193	-8.0	-3.0	-33.0	-3.0	25.0
SFBRM1035-190	0.0	+5.0	-36.0	-3.0	36.0
Dimensions					
	Width: 3.25" [82 mm] Depth: 4.8" [122 mm] Height: 1.0" [25 mm]				
Environment					
	-40 – 65°C; 5% – 95% humidity non-condensing; 0 – 10,000 ft. altitude				
Shipping Weight					
	2 lbs. [0.90 kg]				
Regulatory Compliance					
	CISPR/EN55022 Class B, EN55024, EN61000, FCC Class B, CE Mark				
Warranty					
	Lifetime				

*Future firmware upgrade; Please contact Transition Networks for upgrade availability.

Ordering Info

- SFBRM1011-180**
SFBRM1011-190 (DMI model)
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1300nm MM (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- SFBRM1013-180**
SFBRM1013-190 (DMI model)
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1300nm MM (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- SFBRM1014-180**
SFBRM1014-190 (DMI model)
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-LX10 1310nm SM (SC)
[10 km/6.2 mi.] Link Budget: 16.0 dB
- SFBRM1015-180**
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1310nm SM (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB
- SFBRM1016-180**
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1310nm SM (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB
- SFBRM1017-180**
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1550nm SM (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB
- SFBRM1035-180**
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1550nm SM (SC)
[120 km/74.6 mi.] Link Budget: 36.0 dB
- SFBRM1040-180**
10/100BASE-TX (RJ-45) [100 m]
to SFP slot (empty)
- Single Fiber Products**
Recommended use in pairs
- SFBRM1029-180**
SFBRM1029-190 (DMI model)
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-BX-U 1310nm TX/1550nm RX Bi-Di single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFBRM1029-181**
SFBRM1029-191 (DMI model)
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-BX-D 1550nm TX/1310nm RX Bi-Di SM (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFBRM1029-182**
10/100BASE-TX (RJ-45) [100 m]
to 100BASE-FX 1310nm TX/1550nm RX Bi-Di SM (SC)
[40 km/24.8 mi.] Link Budget: 25.0 dB
- SFBRM1029-183**
10/100BASE-TX (RJ-45) [100 m]
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.

**Future product addition



Transition Networks, Inc.
10900 Red Circle Drive
Minnetonka, MN 55343 USA

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Technical information is subject to change without notice.

tel 952.941.7600 or 800.526.9267
fax 952.941.2322
info@transition.com
http://www.transition.com