

SBFFG Series

OAM/IP-Based Remotely Managed NID



The SBFFG family of stand-alone Network Interface Devices (NIDs) provide a connection between a 10/100/1000Base-T RJ-45 port and a 1000Base-X 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 SBFFG family ensures you are compliant with the latest standards. The SBFFG is a 10/100/1000Mbps product with advance features including – IEEE 802.3ah Link OAM, VLAN, QoS, Bandwidth Allocation and jumbo frame support.

Features

- 10K Jumbo Frame Support
- MEF 9 & MEF 14 Carrier Ethernet Certification
- Two 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
- 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, entries
- Double VLAN tagging (QinQ)
- Selectable Ethertype for S-TAG when using Double VLAN Tagging: 0x8100, 0x9100 or 0x88A8
- 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	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps
Filtering Addresses	8K MAC addresses
Max Frame Size	10,240 bytes
Dimensions	Width: 3.25" [82 mm] Depth: 4.8" [122 mm] Height: 1" [25 mm]
Power Input	100-240 VAC, 1A
Power Output	12VDC, 1.25A
Environment	Operating: 0°C to 50°C Humidity: 5% to 90% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
Compliance	EN55024, FCC Class A, CE Mark, UL
Warranty	Lifetime



Ordering Information

SBFFG1013-105

10/100/1000Base-T (RJ-45) [100 m]
to 1000Base-SX 850nm multimode (SC)
[62.5/125 µm fiber: 220 m/722 ft.]
[50/125 µm fiber: 550 m/1804 ft.]
Link Budget: 7.5 dB

SBFFG1014-105

10/100/1000Base-T (RJ-45) [100 m]
to 1000Base-LX 1310nm single mode (SC)
[10 km/6.2 mi.] Link Budget: 10.5 dB

SBFFG1040-105

10/100/1000Base-T (RJ-45) [100 m]
to 100/1000Base-X SFP Slot (empty)

*SBFFG4040-105

100/1000Base-X SFP Slot (empty)
to 100/1000Base-X SFP Slot (empty)

Note: All units feature USB port for local management application

Note: SBFFG1040-105 and SBFFG4040-105 have SGMII support for use with 10/100/1000Base-T copper SFPs.

*Note: This product is Build to Order

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-SA4-02

4-slot Media Converter Shelf

WMBD

DIN Rail Bracket 5.0" [127 mm]

WMBL

Wall Mount Bracket 4.0" [102 mm]

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]