

CBFFG Series

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



The CBFFG family of chassis card 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 CBFFG family ensures you are compliant with the latest standards. The CBFFG 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 selectable 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
- 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)
- 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
- 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 802.3P IEEE 802.3Q
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	10,240 bytes
Dimensions	Width: 0.86" [22 mm] Depth: 5" [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	EN55022 Class A, EN55024, CE mark
Warranty	Lifetime



Ordering Information

CBFFG1013-105

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

CBFFG1014-105

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

*CBFFG1040-105

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

*CBFFG4040-105

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

Optional Accessories (sold separately)

SFP Modules

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]

NOTE: These products are Build To Order

*SFP port has SGMII support for use with
10/100/1000BASE-T copper SFPs.