



10/100/1000 Ethernet 10/100/1000BASE-T to 1000BASE-SX/LX

see also: 10/100/1000 Bridging Stand-Alone Media Converters

CGFEB10xx-11x

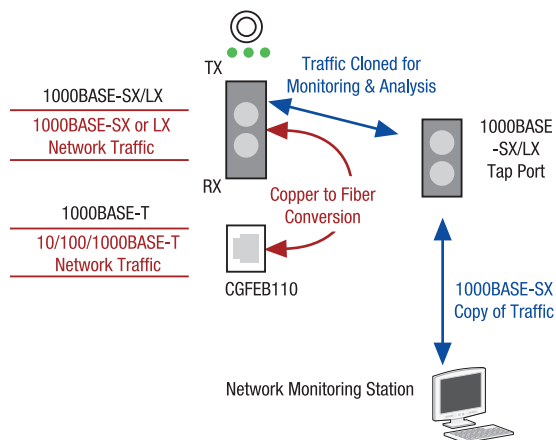
10/100/1000 Ethernet with Built-In Fiber Tap



Features

- ▶ Auto-Negotiation
- ▶ AutoCross™
- ▶ Link Pass Through
- ▶ Pause
- ▶ Automatic Link Restoration
- ▶ Remote Firmware Upgrade
- ▶ Source Address Change (SAC)
- ▶ 802.1P Priority Mapping
- ▶ 1000BASE-SX Tap Port
- ▶ Fiber tap clones traffic; offering complete access to network traffic at line rate
- ▶ No latency associated with the fiber tap. No dB loss on fiber. Active device does not compromise optical budget to monitor network performance.
- ▶ Users can view all fiber traffic including faults & timing errors
- ▶ SNMP managed TX or RX monitoring
- ▶ CGFEB cards cannot be used in the 1-slot Point System™ Chassis

Convert 10/100/1000 Copper to Fiber & Monitor Critical Network Segments



Specifications

Standards	IEEE Std. 802.3ab, IEEE Std. 802.1P, IEEE Std. 802.3
Data Rate	Copper: 10/100/1000Mbps Fiber: 1000Mbps
Filtering Addresses	4K MAC Addresses
RAM Buffers	256K
Dip Switches	Switch 1: TX - Enable/Disable Auto-Negotiation Switch 2: TX - Force 10Mbps or 100Mbps with Auto-Negotiation off Switch 3: TX - Force Half or Full duplex with Auto-Negotiation off Switch 4: FBR - Enable/Disable Auto-Negotiation Switch 5: not used Switch 6: Enable/Disable LPT
Jumpers	Jumper (ED): Enable/Disable AutoCross™ Jumper (HS): Hardware/Software Hardware: Converter mode is determined by 6-position switch settings Software: Converter mode is determined by most recently saved on-board microprocessor settings
Status LEDs	TP (Duplex/Link/Activity) TP (10 Mbps/100 Mbps/1000 Mbps) DPX (Fiber Duplex) LACT (Fiber Link/Activity) PWR (Power)
Dimensions	Width: 1.68" [43 mm] Depth: 4.91" [125 mm] Height: 3.42" [87 mm]
Power Consumption	6.5 Watts
Environment	See chassis specifications
Shipping Weight	1 lb. [0.45 kg]
Regulatory Compliance	CISPR/EN55022 Class A, EN55024, EN61000, FCC Class A, CE Mark
Warranty	Lifetime

Ordering Info

CGFEB1013-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

CGFEB1024-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-SX 1300 nm Extended multimode (62.5/125 µm fiber only) (SC) [up to 2 km]
Link Budget: 7.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

CGFEB1014-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-LX 1310 nm single mode (SC)
[10 km / 6.2 mi.]
Link Budget: 7.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

CGFEB1015-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-LX 1310 nm single mode (SC)
[25 km / 15.5 mi.]
Link Budget: 15.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

CGFEB1017-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-LX 1550 nm single mode (SC)
[65 km / 40.4 mi.]
Link Budget: 20.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

Single Fiber Products

Recommended use in pairs

CGFEB1029-110

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-LX 1310 nm TX / 1550 nm RX single fiber single mode (SC)
[20 km / 12.4 mi.]
Link Budget: 13.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

CGFEB1029-111

- Port 1 10/100/ 1000BASE-T (RJ-45)
[100 m/328 ft.]
- Port 2 1000BASE-LX 1550 nm TX / 1310 nm RX single fiber single mode (SC)
[20 km / 12.4 mi.]
Link Budget: 13.0 dB
- Port 3 1000BASE-SX 850 nm multimode (SC)
[220/550 m/722/1804 ft.]*
Link Budget: 7.0 dB

*62.5/125 µm fiber: 220 m / 722 ft.;
50/125 µm fiber: 550 m / 1804 ft.