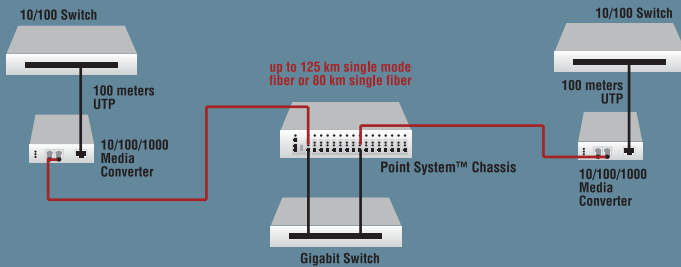


10/100/1000 Ethernet Media Converter



- ▶ Extend Network Distance
- ▶ Bridge legacy 10/100 devices to a Gigabit backbone
- ▶ Secure Uni-directional transmission

Extend Network Distance



Specifications

Standards	IEEE 802.3™, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3z, IEEE 802.1P, IEEE 802.1q				
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps				
Filtering Addresses	8K MAC Addresses				
Max Frame Size	802.3ac tagged: 1628 bytes untagged: 1632 bytes				
Fiber Optic Connector Specs					
Product SKU	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sensitivity (dBm)	Max In PWR (dBm)	Link Budget (dB)
CGFEB1013-120	-10.0	-4.0	-17.0	0.0	7.0
CGFEB1014-120	-13.0	-3.0	-20.0	-3.0	7.0
CGFEB1015-120	-5.0	0.0	-20.0	-3.0	15.0
CGFEB1017-120	-3.0	2.0	-23.0	-3.0	20.0
CGFEB1024-120	-10.0	-3.0	-17.0	-3.0	7.0
CGFEB1029-120	-8.0	-3.0	-21.0	-3.0	13.0
CGFEB1029-121	-8.0	-3.0	-21.0	-3.0	13.0
CGFEB1029-122	-3.0	2.0	-23.0	-8.0	20.0
CGFEB1029-123	-3.0	2.0	-23.0	-8.0	20.0
CGFEB1029-124	-2.0	3.0	-26.0	-3.0	24.0
CGFEB1029-125	-2.0	3.0	-26.0	-3.0	24.0
Status LEDs	PWR: ON green = Power applied to card TP (Duplex/Link/Activity): Orange: ON = Half-duplex Link; BLINK = Activity; Green: ON = Full-duplex Link; BLINK = Activity TP (10Mbps/100Mbps/1000Mbps): Off = 10Mbps; Orange = 100Mbps; Green = 1000Mbps LACT (Fiber Link/Activity): Green: ON = Link; BLINK = Activity				
Dip Switches	Switch 1: TX - Enable/Disable Auto-Negotiation Switch 2: TX - Force 10Mbps or 100Mbps with Switch 1 off Switch 3: TX - Force Half or Full duplex with Switch 1 off Switch 4: Enable/Disable LPT Switch 5: not used Switch 6: not used				
Dimensions	Width: 0.86" [22 mm] Depth: 5.0" [127 mm] Height: 3.4" [86 mm]				
Power Consumption	4.8 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				

CGFEB10xx-12x



Features

- ▶ Auto-Negotiation (copper and fiber ports)
- ▶ Switch Selectable Speeds (UTP) when Auto-Negotiation is off
- ▶ AutoCross™
- ▶ Link Pass Through
- ▶ Remote Fault Detect
- ▶ Pause
- ▶ Automatic Link Restoration
- ▶ IEEE 802.1P QoS, IPv4 Tos/Diffserv, IPv6 traffic class
- ▶ IEEE 802.1q VLAN tagging and double tagging (Q in Q)
- ▶ Remote Firmware Upgrade
- ▶ Virtual Cable Test (VCT) on UTP port
- ▶ Unidirectional data transmission allows secure traffic forwarding in only one direction
- ▶ Bandwidth Allocation
- ▶ DMI, Digital diagnostics per SFF-8472
- ▶ RMON Counters for each port

Ordering Info

- CGFEB1013-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-SX 850nm multimode (SC) [62.5/125µm: 220 m/722 ft.] [50/125µm: 550 m/1804 ft.] Link Budget: 7.0 dB
- CGFEB1024-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1310nm Extended MM (62.5/125 µm fiber only) (SC) [up to 2 km] Link Budget: 7.0 dB
- CGFEB1014-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1310nm SM (SC) [10 km/6.2 mi.] Link Budget: 7.0 dB
- CGFEB1015-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1310nm SM (SC) [25 km/77.7 mi.] Link Budget: 15.0 dB
- CGFEB1017-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1550nm SM (SC) [65 km/40.4 mi.] Link Budget: 20.0 dB
- CGFEB1035-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1550nm SM (SC) [125 km/77.7 mi.] Link Budget: 27.0 dB
- CGFEB1040-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-X SFP Slot (empty)

Single Fiber Products

Recommended use in pairs

- CGFEB1029-120**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1310nm TX / 1550nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 13.0 dB
- CGFEB1029-121**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1550nm TX / 1310nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 13.0 dB
- CGFEB1029-122**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1310nm TX / 1550nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 20.0 dB
- CGFEB1029-123**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1550nm TX / 1310nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 20.0 dB
- CGFEB1029-124**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1510nm TX / 1590nm RX single fiber single mode (SC) [80 km/49.6 mi.] Link Budget: 24.0 dB
- CGFEB1029-125**
10/100/ 1000BASE-T (RJ-45) [100 m] to 1000BASE-LX 1590nm TX / 1510nm RX single fiber single mode (SC) [80 km/49.6 mi.] Link Budget: 24.0 dB



Transition Networks, Inc.
6475 City West Parkway
Minneapolis, MN 55344 USA
tel 952.941.7600
or 800.526.9267
fax 952.941.2322
info@transition.com
http://www.transition.com