CGFEB1040-140 & CGFEB4040-180

Point System™ Gigabit Ethernet Media Converter Module

10/100/1000 Ethernet Multiport

TRANSITION NETWORKS®
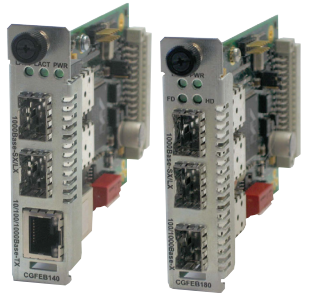
CGFEB1040-140   CGFEB1040-180

The CGFEB1040-140 chassis card media converters provide copper to fiber conversion as well as fiber to fiber conversion. The CGEFB1040-140 supports Ethernet to Gigabit Ethernet. This device can also operate as a 3 port switch or as a 2 port device, with fault tolerant fiber redundancy, while supporting a variety of Ethernet network speeds and various cabling medium.

The CGFEB4040-180 chassis card media converters provide copper to fiber conversion as well as fiber to fiber conversion. The CGFEB4040-180 supports Fast Ethernet and Gigabit Ethernet speeds with the added functionality of operating as 3 port switches or as a 2 port devices with fault tolerant fiber redundancy.

Features

- Auto-Negotiation (copper and fiber ports)

- Switch Selectable Speeds (UTP) when Auto-Negotiation is off

- Auto-MDI/MDIX

- Far-End-Fault (FEF) (100Base-FX setting on port 1 only) CGFEB1040-140 only

- Automatic Link Restoration

- Fiber Redundancy (<50ms switching time)

- IEEE 802.1P QoS, IPv4 Tos/DiffServ, IPv6 traffic class

- IEEE 802.1q VLAN tagging and double tagging (Q in Q)

- Field Upgradeable Firmware

- Virtual Cable Test (VCT) on UTP port CGFEB1040-140 only

- Bandwidth Allocation

- SGMII support on port 1 for use with 10/100/1000Base-T copper SFPs FEB1040-180 only

- 100/1000Base-X, dual speed support on port 1 for use with 100Base-FX or 1000Base-SX/LX, SFPs (CGFEB1040-180 only)

- DMI, Digital diagnostics per SFF-8472

- RMON Counters for each port

Specifications

Standards	IEEE 802.3 IEEE 802.3ab IEEE 802.3u IEEE 802.3z IEEE 802.1P IEEE 802.1q
Data Rate	TP (port 1): 10/100/1000 Mbps (-140 model only) SFP (port 1): 100/1000 Mbps (-180 model only) SFP (port 2,3): 1000 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	802.3ac tagged: 1628 bytes Untagged: 1632 bytes
Dip Switches	Switch 1: TX - Enable/Disable Auto-Negotiation Switch 2: TX - Force 10 Mbps or 100 Mbps with Switch 1 off Switch 3: TX - Force Half or Full duplex with Switch 1 off Switch 4: Enable/Disable Fiber Redundancy port (2/3) IEEE 5: Enable/Disable primary/secondary revert with Switch 4 on IEEE 6: Enable/Disable P2 to P3 blocking
Dip Switches	Switch 1: Port 1 speed 100 Mbps/1000 Mbps IEEE 2: Port 1 duplex full/half IEEE 3: Port 1 mode 1000Base-X/SGMII IEEE 4: Enable/Disable Fiber Redundancy (port 2/3) IEEE 5: Enable/Disable primary/secondary revert with Switch 4 on IEEE 6: Enable/Disable P2 to P3 blocking
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 (10 Mbps/100 Mbps/1000 Mbps): Off = 10 Mbs; Orange = 100 Mbs; Green = 1000 Mbs LACT (Fiber SFP Link/Activity): Green: ON = Link; BLINK = Activity
Dimensions	Width: 0.86" [22 mm] Depth: 5" [127 mm] Height: 3.4" [86 mm]
Power Consumption	6 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	CISPR/EN55022 Class A, EN55024, EN61000, FCC Class A, CE Mark
Warranty	Lifetime