



TGM-C100:

10GBase-SR/LR/ER/ZR XFP-to-XFP Media Converter Module

Key Features

- Provides XFP-to-XFP interface connectivity
- Good for application to extend the network distance up to 80Km
- Full duplex and wire speed operation
- Standalone or composite applications
- RoHS compliance

Overview

TGM-C100 is Fiber Driver XFP-to-XFP media converter module from Ruby Tech Corp. with the flexibility of XFP transceivers. It supports SONET OC-192, 10 Gigabit Ethernet, 10 Gbps Fiber Channel, SONET OC-192 over FEC, and G.709. The TGM-C100 enables the implementation of an extremely wide range of optical infrastructure solutions from media conversion and signal repeating. The TGM-C100 converter module can be inserted into Ruby's CR-2600 managed chassis for CO site rack mount application, it can also be inserted into Ruby's CP-E100 (one slot) and CP-E200 (two slots) small chassis for CPE site standalone application.

TGM-C100 + CP-E100: It can support up to 10Km XFP transceiver application, because the CP-E100 is FAN-less.

TGM-C100 + CP-E200: It can support up to 80Km XFP transceiver application, because the CP-E200 has cooling fan.

TGM-C100 + CR-2600: It can support up to 80Km XFP transceiver application, because the CR-2600 has cooling fan.

The product is ideal for enterprise use because it provides a low cost alternative to more expensive XFP transport solutions. It is also applicable for large telco/carriers since the module can transport very large amounts of data to distances of up to 80 km. Fiber XFP is a means of transporting data over long distances at speeds up to 10Gbps.

Technical Specifications

- **Data Transfer Rate:** 20Gbps at full-duplex mode
- **Network Interface**

Category	Connector	Transmission	Max. Cable Length	Wavelength	Fiber Cable
10GBase-SR(M-M)	LC	Full Duplex	300M	850nm	50/125, 62.5/125, or 100/140µm multi-mode
10GBase-LR(S-M)	LC	Full Duplex	10Km	1310nm	8.3/125, 8.7/125, 9/125 or 10/125µm single-mode
10GBase-ER(S-M)	LC	Full Duplex	40Km	1550nm	8.3/125, 8.7/125, 9/125 or 10/125µm single-mode
10GBase-ZR(S-M)	LC	Full Duplex	80Km	1550nm	8.3/125, 8.7/125, 9/125 or 10/125µm single-mode

LED Indicator:

Power	Power status
P1 Link	Lit when port 1 fiber connection is good
P2 Link	Lit when port 2 fiber connection is good

- **Power Requirement:** 1.5A@5VDC above
- **Ambient Temperature:** 0~50 °C
- **Humidity:** 5%~90%
- **Dimensions:** 90(W) x 141(D) x 28.5(H) mm
- **Certification:** FCC Part 15 Class A & CE Mark

The TGM-C100 is fully IEEE 802.3ae compliant and supports data transfer at full duplex for congestion-free data transport. The TGM-C100 10GBase-SR XFP can be added for fiber runs over multi-mode cabling up to 300 meters. If longer hauls are required, Ruby offers the single-mode 10GBase-LR/ER/ZR XFP capable of distance runs up to 80Km.

The TGM-C100 is a compact media converter having two (2) available XFP interface ports. Installation and setup is plug-n-play easy. It is used to convert multi-mode fiber signal to single mode equivalent that extends the long span fiber connections easily and inexpensively.

Packing Information

Model Name	Carton Dimensions	pcs/Carton	N.W(KG)	G.W (KG)
TGM-C100	530x512x345	50	12	13
CP-E100	530x512x345	14	9.1	10.1
CP-E200	585x380x280	10	17	18

Ordering Information

TGM-C100	10GBase-SR/LR/ER/ZR XFP-to-XFP Media Converter Module
CP-E100	1-Slot Converter Chassis
CP-E200.5V	2-Slot Smart Converter Chassis (5VDC)
CP-E200.12V	2-Slot Smart Converter Chassis (12VDC)