RUBY TECH
Networking & Communications

Media Converter Rack Chassis & Module

EM-C107C

EM-C107C:

Fast Ethernet 10/100Base-TX To 100Base-FX Bridge Converter Module

Key Features

- 10/100Base-TX to 100Base-FX Fast Ethernet converter module
- Supports link fault pass through (LFP)
- RoHS Compliance

Overview

EM-C107C complies with IEEE802.3/ IEEE802.3u 10/100Mbps Fast Ethernet that supports two types of media, 10/100 Base-TX and 100Base-FX, for network connection. LFP (Link Fault Pass Through) feature enhances the TP-Fiber Link integrity and conformity.

With modular slide-in design, it is flexible to install in the 19" converter rack (up to 16 units) for use at a central wiring closet. The converter racks CR-16xx and CP-100/200 family are available for housing the converter modules.

Technical Specifications

- **Standards:** IEEE 802.3u, 10/100Base-TX, 100Base-FX
- **Cable:**
  - UTP Cable: Cat. 5 cable and up to 100m
  - Fiber (Multi Mode): 50/125, 62.5/125, 100/140μm
  - Fiber (Single Mode): 8.3/125, 8.7/125, 9/125, 10/125μm
- **Data Transfer Rate:**
  - 100Mbps: 148,800 PPS
  - 10Mbps: 14,880 PPS
- **LED Indicators:**

PWR	Lit when +5V power is coming up
TP LNK	Lit when TP connection is good Blinks when TP data is present
TP 100	Lit when TP speed is 100Mbps Off when TP speed is 10Mbps
FX LNK	Lit when fiber connection is good Blinks when fiber data is present
FX 100	Lit for fiber 100Mbps operation
FDX/COL	Lit when full-duplex mode is active Off when half-duplex is active Blinks when collision is present

- **Power Requirement:** 1A@ + 5VDC
- **Ambient Temperature:** 0~50°C
- **Humidity:** 5~90%
- **PCB Dimensions:** 125(L) x 64(H)mm
- **Emission:** FCC Part 15 Class A, CE Mark

Note: For connecting this device to Router, Bridge or Switch, please refer to the corresponding device's Technical Manual.

Ordering Information

Model	Name Description
EM-C107C SC	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Multi-Mode
EM-C107C ST	10/100Base-TX to 100Base-FX Converter Module w/LFP, ST Multi-Mode
EM-C107C SC.S05	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 5km
EM-C107C SC.S20	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 20km
EM-C107C SC.S40	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 40km
EM-C107C SC.S60	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 60km
EM-C107C SC.S80	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 80km 1550nm
EM-C107C SC.SA0	10/100Base-TX to 100Base-FX Converter Module w/LFP, SC Single-Mode 100km 1550nm

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