

# 10G In-Band Managed Media Converter

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## FRM220-10GCM

CTC<sup>®</sup>  
union

### 100M/1G/10GBase-T + 2 × 10GBase-R SFP+ In-Band Managed Media Converter



NEW

10G In-band managed media converter, FRM220-10GCM is a 2-port 10GBase-R + 1-port 100M/1G/2.5G/10GBase-T Ethernet converter. With embedded SNMP and Web-based management, the network administrator can monitor, configure and control the activity of each 10G converter both locally and remotely. This media converter supports duplex and speed configuration, jumbo frames allocation of 10G Gigabit interfaces. By offering additional function, this 10G converter also provides 1-port 100M/1G/2.5G/10GBase-T RJ45 port allowing 100M/1G/2.5G/10G based devices to connect to 10G Ethernet fiber backbone. This 10G converter may also be controlled and monitored via an NMC in a FRM220 managed chassis.

### Features

- 2-port 1G/2.5G/5G/10G Base-R SFP+ with 1-port 100M/1G/2.5G/5G/10GBase-T RJ45
- Supports local / remote In-band management
- Standalone IP Based, Web GUI, Telnet, SNMP management
- Auto-Negotiation / Auto MDI/MDIX
- Forward 10K bytes Jumbo packets (max.)
- Supports Flow control (Pause)
- Supports BERT / loopback test
- Supports Far End Fault Indication (FEFI)
- Supports Link Fault Pass-Through (LFPT)
- D/D function for supported SFP fiber transceiver
- Auto Laser Shutdown (ALS)
- Online local / remote f/w upgrade
- Fiber Redundant mode
- Supports DWDM Tunable SFP+

### Specifications

Interface	1-port 100M/1G/2.5G/5G/10Gbps RJ45 + 2-port 10G/5G/2.5G/1Gbps SFP+ with USB console port
Filter & Forward Rate	14880pps at 10Mbps, 148800pps at 100Mbps, 1488000pps at 1Gbps, 14880000pps at 10Gbps
Transmission Method	Store and Forward
Standard	IEEE 802.3 IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.1D IEEE 802.1w, IEEE 802.1s
Packet Buffer	2M bits
MAC Table Size	16K
Max. Packet Size	10K Bytes
Management	Web/Telnet /SNMP, HTTP, IPv6/IPv4 management
SNMP Agent	SNMP v1/v2c
Software Upgrade	HTTP, console
LED Display	Power, System, Link, Speed/Act, Test
Power Input	12VDC
Power Consumption	< 10W
Operating Temperature	0 ~ 45°C
Storage Temperature	-10 ~ 70°C
Humidity	5% ~ 90% (non-condensing)
Dimensions	159.5 × 20.8 × 88mm (D×W×H)
Regulatory	FCC, CE

### Ordering Information

Model Name	Description
FRM220-10GCM	1 × 100M/1G/2.5G/10G Base-T RJ45 + 2 × 10GBase-R SFP+ In-Band Managed Media Converter

**NOTE:** This card MUST placed in "cooling fan" chassis. CH02M, CH02/NMC, CH02/SMT

#### Attention:

Please note that the maximum of 10 High Power Consumption cards can be inserted in CH20 chassis. They must be placed in the **EVEN** slots when inserted in CH20 chassis.

\*High Power Consumption Cards: FRM220-100GE-2Q, 40G-2Q, 16G-3R, 10G-3R & 10GCM.