



Fast Ethernet In-band Managed Converter

FRM220-10/100i

Converter

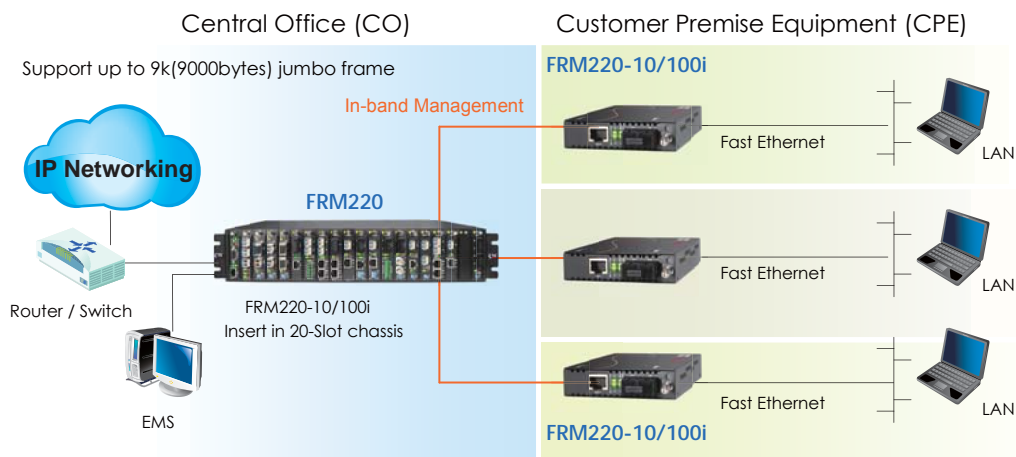
The FRM220-10/100i is a 10/100Base Ethernet to 100Base-FX fiber slide-in card converter designed for central and remote applications. With advanced features like bandwidth control, this media converter is targeted for customer premises equipment in metro LAN, campus, enterprise and FTTH applications. By offering in-band management, this converter can be completely controlled and monitored from a centrally located managed rack controlling all converter settings including bandwidth control, duplex, and speed configuration. This media converter is completely transparent to Layer 2 and Layer 3 protocols including IEEE 802.1q, VLAN tag, Q in Q, STP, IPX, IP, etc.

Features

- 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation or forced mode
- Supports remote CPE power fail detect (dying gasp)
- Supports Far End Fault
- Supports Link Fault Pass through (LFP)
- Supports Loop Back Test
- Supports RMON counter
- D/D function for supported SFP fiber transceiver
- Auto Laser Shutdown (ALS)
- Auto MDI/MDIX
- Forward 2046 bytes (max.) packets in switch mode
- Forward 9K jumbo packets in converter mode
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports local / remote In-band management (Monitor and Configure) by the SNMP manager.
- Bandwidth control (Nx32K or Nx512Kbps)
- Support flow control (Pause)
- Fiber Hardware Reset (FHR)
- Online local / remote f/w upgrade
- Must be placed in managed chassis to realize any management features

Specifications

| Optical Interface | |
|----------------------|---|
| Connector | 1x9 (SC, ST, FC) |
| Data rate | 100Mbps |
| Duplex mode | Full duplex |
| Fiber | MM 50/125µm, 62.5/125µm. SM 9/125µm |
| Distance | MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km |
| Wavelength | MM 1310nm, SM 1310,1550nm WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B) |
| Electrical Interface | |
| Connector | RJ-45 |
| Data rate | 10Mbps, 100Mbps |
| Duplex mode | Half / Full duplex |
| Cable | 10Base-T Cat.3, 4, 5, UTP, 100Base-TX Cat.5, 5e or higher |
| Standard | IEEE 802.3, IEEE 802.3u, TS-1000 |
| Indications | LED (Power, FEF, FX-Link, TX-SPD, TX-Duplex, TX-Link) |
| Power Input | Card : 12VDC Standalone : AC, DC options |
| Power Consumption | < 4W |
| Dimension / Weight | 155 x 88 x 23mm (D x W x H) ; 0.12kg |
| Temperature | 0 ~ 60°C (Operating), -10 ~ 70°C (Storage) |
| Humidity | 10 ~ 90% non-condensing |
| Certification | CE, FCC, LVD, RoHS |
| MTBF | 65,000 hrs |



Ordering Information

| Model Name | Description |
|----------------|---|
| FRM220-10/100i | 10/100Base-TX to 100Base-FX In-band managed converter |

Note: The card is suitable for using in CH01 standalone chassis.

| Connector Type | Connectivity | Distance |
|-----------------------------|--------------------------|--------------------------|
| FRM220 - 10/100i - | <input type="checkbox"/> | <input type="checkbox"/> |
| Example: FRM220 - 10/100i - | SC002 | |

| Connector Type | Connectivity | Distance |
|----------------|---|----------|
| SC, ST, FC | 002: 2km 015: 15km 030: 30km 050: 50km 080: 80km 120: 120km | |
| | 20A: WDM 20km A type 20B: WDM 20km B type 40A: WDM 40km A type 40B: WDM 40km B type | |
| | 60A: WDM 60km A type 60B: WDM 60km B type 80A: WDM 80km A type 80B: WDM 80km B type | |