



FRM220-10/100i

10/100Base-TX to 100Base-FX In-Band Managed 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 FTTx 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. When used stand-alone, this converter has no access to management functions except to force Ethernet connection and apply Link Fault Pass-thru via setting of a 4-pole DIP switch.

Features

- 1-Port 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation or forced mode
- Supports remote CPE power fail detect (dying gasp)
- Supports Far End Fault Indication (FEFI)
- Supports Link Fault Pass-Through (LFPT)
- Supports Loop Back Test
- Supports RMON counter
- Auto Laser Shutdown (ALS)
- Auto MDI/MDIX

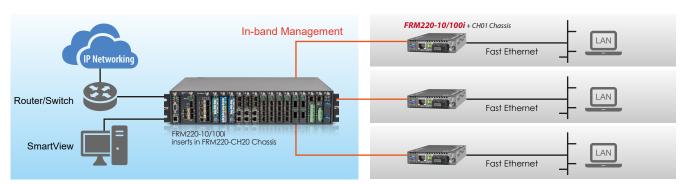
Specifications

- Forward 2046 bytes (max.) packets in switch mode
- Forward 9K jumbo packets in converter mode
- Supports transparent Q in Q double tagged frame
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports local / remote In-band management (Monitor and Configure) by the SNMP manager. (NMC)
- Bandwidth control (Nx32Kbps or Nx512Kbps)
- Supports IEEE 802.3x flow control (Pause)
- Fiber Hardware Reset (FHR)
- Online local / remote f/w upgrade

Optical Interface	Connector	1 x 9 (SC, ST, FC)	
	Data rate	125Mbps	
	Duplex mode	Full duplex	
	Fiber	MM 50/125μm, 62.5/125μm	
		SM 9/125μm	
	Distance	MM 2km, SM 15/30/50km	
		WDM 20/40km	
	Wavelength	MM 1310nm, SM 1310, 1550nm	
		WDM 1310Tx/1550Rx (type A)	
		1550Tx/1310Rx (type B)	
Electrical Interface	Connector	RJ45	
	Data rate	10Mbps, 100Mbps	
	Duplex mode	Half / Full duplex	
	Cable	10Base-T Cat.3, 4, 5, UTP	
		100Base-TX Cat.5, 5e or higher	

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x		
Indications	LED (Power, FEF, FX-Link, TX-SPD, TX-Duplex, TX-Link)		
Power Input	12VDC		
Power Consumption	< 6W		
Dimensions	159.5 × 20.8 × 88mm (D×W×H)		
Weight	120g		
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)		
Humidity	10 ~ 90% non-condensing		
Certification	CE, FCC		
MTBF	65,000 hrs		

Application



Central Office (CO)

Customer Premise Equipment (CPE)

Ordering Information

•		Type Distance	
Model Name	Description	FRM220 – 10/100i – 🔲 🔲 🗆	
FRM220-10/100i	10/100Base-TX to 100Base-FX In-band managed converter card	Example: FRM220 – 10/100i – SC002	
Connector Type	Connectivity Distance		
SC, ST, FC	002: 2km 015: 15km 030: 30km 050: 50km 20A: WDM 20km A type 20B: WDM 20km B type 40A: WDM 40km	n A type 40B: WDM 40km B type	

Connector Connectivity
Type Distance