FRM220-10/100
10/1000Base-TX to 100Base-FX Unmanaged Media Converter

The FRM220-10/100 is a Fast Ethernet 10/100Base-TX to 100Base-FX non-managed stand-alone media converter, which gives the options to choose from the most popular fiber cabling connectors, ST, SC or FC. Both multi-mode and single mode converter models are available as well as BiDi which allows bi-directional transmissions using only a single fiber core. When auto-negotiation is selected, these units will automatically tailor themselves to convert both half-duplex and full-duplex signals, according to IEEE 802.3u standards. LED indicators signal the power status of the converter, UTP port speed, Link, and duplex status, FX port Link and duplex status. These non-managed stand-alone converters may also be concentrated into either the FRM220-CH20 or FRM220-CH08 managed chassis.
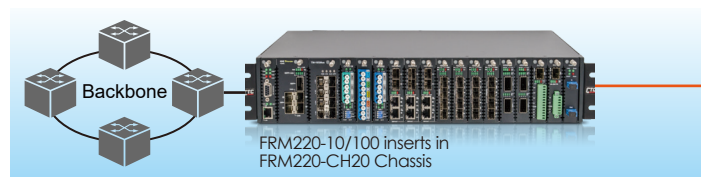
Features

- 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation or forced mode
- Auto MDI/MDIX
- Forward 1600 bytes (Max.) packets
- Supports transparent Q in Q double tagged frame
- Supports IEEE 802.1q Tag VLAN pass thru
- Support flow control (Pause)
- Supports Link Fault Pass through (LFP)
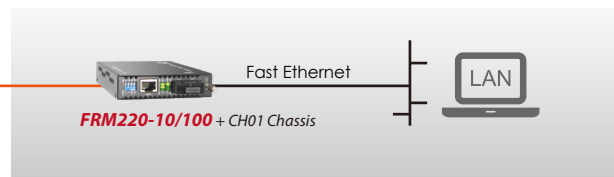- Forward 9K jumbo packets in converter mode

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)
Standards		IEEE 802.3, IEEE 802.3u
Indications		LED (Power, FX Link, TX SPD, TX Link, TX Duplex, FEF)
Certification		CE, FCC, RoHS

Electrical Interface	Connector	RJ-45
	Data rate	10Mbps, 100Mpbs
	Cable	10Base-T Cat.3, 4, 5, UTP,
		100Base-TX Cat.5, 5e or higher
Power		12VDC
Power Consumption		< 4W
Dimensions		159.5 × 20.8 × 88mm (D×W×H)
Weight		120g
Temperature		0 ~ 60℃ (Operating), -10 ~ 70℃ (Storage)
Humidity		10 ~ 90% non-condensing
MTBF		65,000 hrs

Application

Central Office (CO)
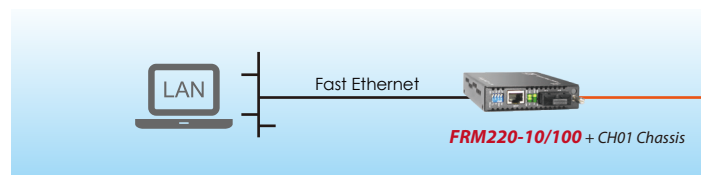
FRM220-10/100 inserts in FRM220-CH20 Chassis

Customer Premise Equipment (CPE)

FRM220-10/100 + CH01 Chassis

Fast Ethernet — LAN

Customer Premise Equipment (CPE)

LAN — Fast Ethernet — *FRM220-10/100* + CH01 Chassis

Customer Premise Equipment (CPE)

FRM220-10/100 + CH01 Chassis — Fast Ethernet — LAN

Ordering Information

Connector Type   Connectivity Distance

FRM220 – 10/100 – ☐☐☐☐☐

Example: FRM220 – 10/100 – SC002
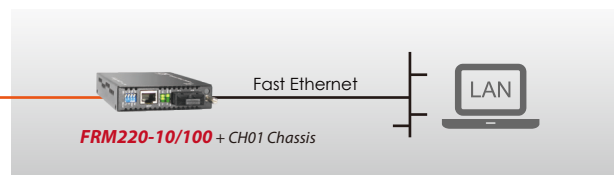
Model Name	Description
FRM220-10/100	10/100Base-TX to 100Base-FX unmanaged media converter card

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