FMC-10/100i
10/100Base-TX to 100Base-FX In-Band Managed Converter

The FMC-10/100i family are Fast Ethernet 10/100Base-TX to 100Base-FX In-band managed media converters, which give you the options to choose from the most popular fiber cabling connectors, ST, SC or FC. 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 band-width 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
- 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 with FRM220-NMC
- Bandwidth control (Nx32K or Nx512Kbps)
- Supports flow control (Pause)
- 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)
- Fiber Hardware Reset (FHR)
- Online local / remote f/w upgrade

Standalone Option

Adapter Type

Dimension: 96.5×23×73.4mm(W×D×H)   DC Type (12V Power Jack)
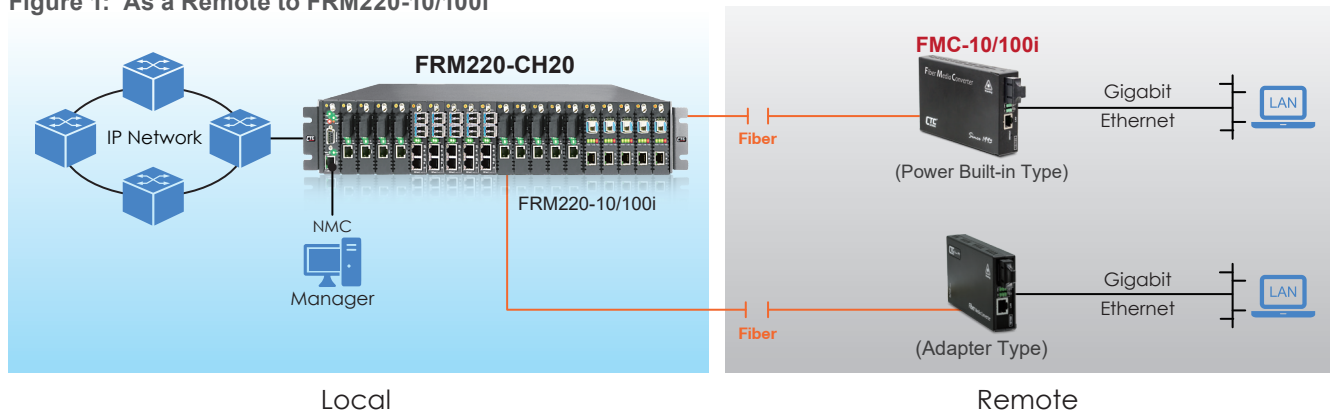
▲ Module for FMC-CH17 Chassis

Power Built-in Type

Dimension: 135×23×73.4mm(W×D×H)   AC Type (100-240V)

Specifications

Optical Interface		
	Connector	1x9 (SC, ST, FC)
	Data rate	125Mbps
	Duplex mode	Full duplex
	Fiber	MM 62.2/125µm, 50/125µm.
		SM 9/125µm
	Distance	MM 2km, SM 15/30km
		WDM 20/40km
	Wavelength	MM 1310nm, SM 1310,1550nm
		WDM 1310Tx/1550Rx (Type A)
		1550Tx/1310Rx (Type B)
Standards	IEEE 802.3, IEEE 802.3u	
Power Input	Adapter Type : DC 12V	
	Power Built-in Type : AC 100 ~ 240V	
LEDs	Power, FX Link, TX SPD, TX Link, TX Duplex, FEF	
Electrical Interface	Connector	RJ-45
	Data rate	10Mbps, 100Mpbs
	Duplex mode	Half / Full duplex
	Cable	10Base-T Cat.3, 4, 5, UTP
		100Base-TX Cat.5, 5e
	Distance	100 meters
Power Consumption	< 3W	

Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)	
Humidity	10 ~ 90% non-condensing	
Enclosure	Plastic	
Dimensions (W×D×H)	Adapter Type :	96.5 × 23 × 73.4mm
	Power Built-in Type :	135 × 23 × 73.4mm
Weight	Adapter Type :	120g
	Power Built-in Type :	140g
Certification	CE, FCC	
MTBF	65,000 hrs	

Application

Figure 1: As a Remote to FRM220-10/100i

FRM220-CH20

IP Network

NMC
Manager

FRM220-10/100i

FMC-10/100i

Fiber

Gigabit Ethernet

LAN

(Power Built-in Type)

Fiber

Gigabit Ethernet

LAN

(Adapter Type)

Local

Remote

Figure 2: As Rack Module with Remote

FMC-CH17 Chassis

IP Network

FMC-10/100i

FMC-10/100i

Fiber

Gigabit Ethernet

LAN

(Power Built-in Type)

Fiber

Gigabit Ethernet

LAN
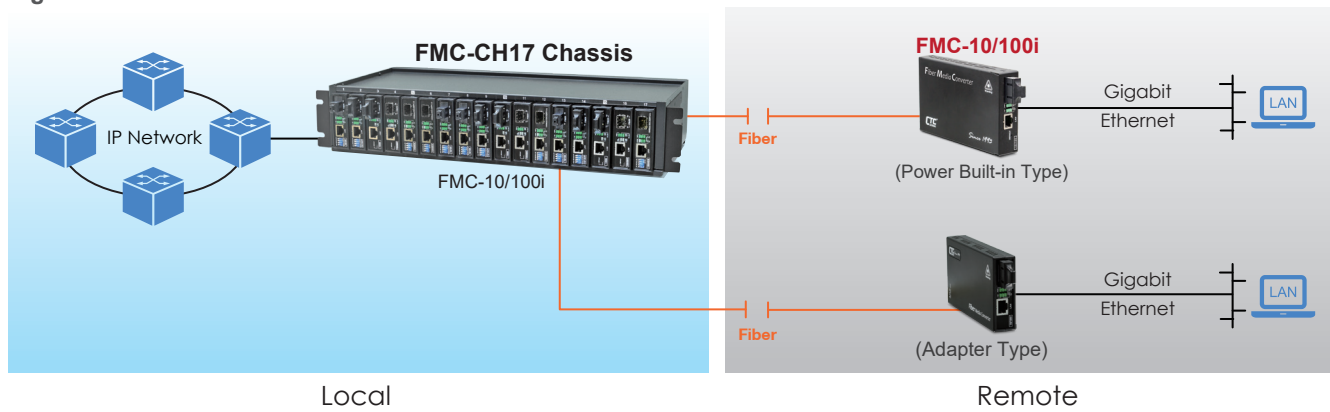
(Adapter Type)

Local

Remote

Figure 3: As Standalone Managed Converter

IP Network

FMC-10/100i

Manager

Fiber

Standalone Managed Media Converter

Gigabit Ethernet

LAN
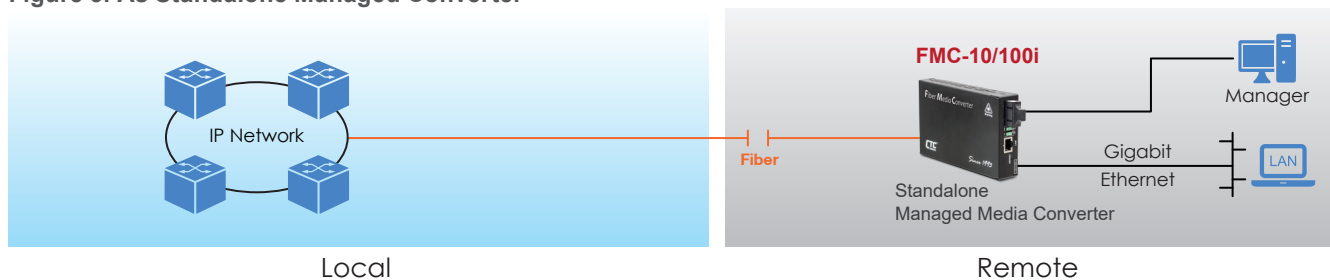
Local

Remote

Ordering Information

Model Name	Description
FMC-10/100i	10/100Base-TX to 100Base-FX In-band managed media converter adapter type, plastic case
FMC-10/100i-AC	10/100Base-TX to 100Base-FX In-band managed media converter with AC power, plastic case

Connector Type	Connectivity Distance
SC, ST, FC	002: 2km 015: 15km 030: 30km
	20A: WDM 20km A type 20B: WDM 20km B type 40A: WDM 40km A type 40B: WDM 40km B type

Optional Accessory

Model Name	Description
WMK01	Single unit wall mounting kit

■ Wall-Mounting Kit

WMK01

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Compact Media Converter FMC-10/100i