



# FRM220-1000TS

## 1000Base-T to 1000Base-X SFP Media Converter

The FRM220-1000TS is a transparent Gigabit Ethernet 1000Base-T to 1000Base-SX/LX SFP converter. They are managed (when installed in FRM220 with NMC) or non-managed stand-alone media converters, which give you the options to choose from a wide range of industry standard SFP modules with LC connectors. SFPs in multi-mode and single mode types are available as well as BiDi which allows bi-directional transmissions using only a single fiber cable. Because it are completely transparent to Ethernet packets, the FRM220-1000TS is able to support any sized Ethernet frame, including undersized or jumbo packets (9K bytes) and is completely transparent to all L2 protocols including VLAN (802.1Q) tagged packets, Q-in-Q (802.1ad), STP/RSTP/MSTP PDUs, LACP (802.3ad) PDUs and Pause Frames (802.3x). LED indicators signal the power status of the converter, UTP port speed, Link, and duplex status, FX port Link and duplex status.

### Features

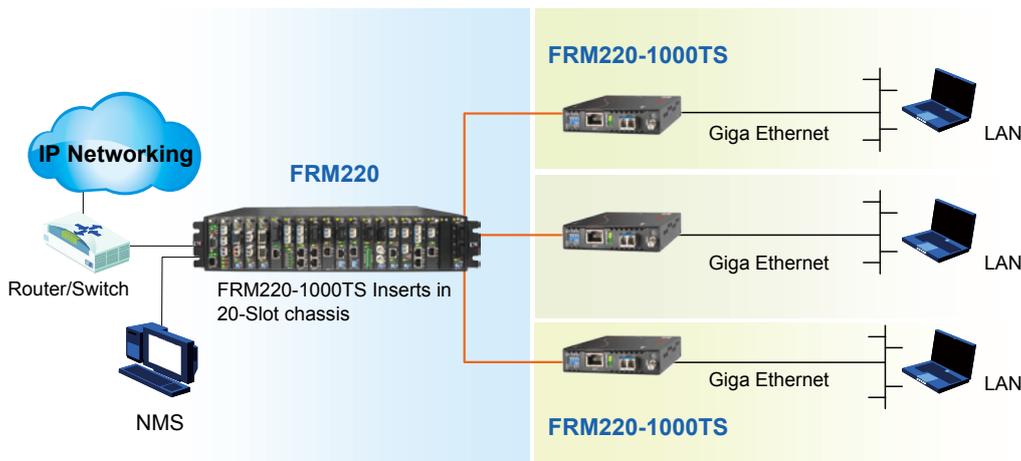
- 1000Base-T to 1000Base-SX/LX
- Network management via terminal or SNMP in FRM220 chassis
- Auto-negotiation or force mode
- Auto MDI/MDIX
- Forward > 9K bytes packets
- Supports Link Fault Pass Through (LFP) function
- Auto Laser Shutdown (ALS)
- Protocol Transparent

### Specifications

<b>Optical Interface</b>	Connector	SFP LC
	Data rate	1000Mbps
	Duplex mode	Full duplex
	Fiber	MM 50/125µm, 62.5/125µm SM 9/125µm
	Distance	MM 550m, 2km, SM15/30/50/80/120km WDM 20/40/60km
	Wavelength	MM 1310nm, SM 1310,1550nm WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B)
<b>Electrical Interface</b>	Connector	RJ45
	Data rate	1000Mbps
	Duplex mode	Full duplex
	Cable	10Base-T Cat.3, 4, 5, UTP

<b>Standard</b>	IEEE 802.3ab
<b>Indications</b>	LED (Power, FX-Link, FX Duplex, TX-SPD, TX-Duplex, TX-Link)
<b>Power Input</b>	Card : 12VDC Standalone : AC, DC options
<b>Power Consumption</b>	< 12W
<b>Dimensions</b>	155 x 88 x 23mm (D x W x H)
<b>Weight</b>	120g
<b>Temperature</b>	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
<b>Humidity</b>	10 ~ 90% non-condensing
<b>Certification</b>	CE, FCC, LVD, RoHS
<b>MTBF</b>	65,000 hrs (25°C)

### Application



### Ordering Information

Model Name	Description
FRM220-1000TS	1000Base-T to 1000Base-X SFP media converter

**Note:** This card must use CH01 chassis.