Managed Family

Slide-in card & stand-alone
Gigabit Ethernet fiber converters

FRM301-1000TS, 1000TG
FIB1-1000TS, 1000TG, FIB2-1000TG

The FRM301-1000TS and 1000TG are transparent Gigabit Ethernet 1000Base-T to 1000Base-SX/LX SFP or GBIC. They are managed (when installed in FRM301 with management) 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 models are available as well as BiDi which allows bi-directional transmissions using only a single fiber cable. Because they are completely transparent to Ethernet packets, they are able to support any size frames, including undersized or jumbo packets (9K bytes). LED indicators signal the power status of the converter, UTP port speed, Link, and duplex status, FX port Link and duplex status.
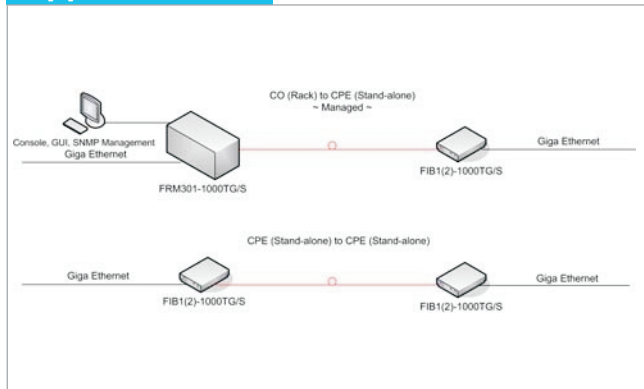
Features

- 1000Base-T to 1000Base-SX/LX
- Network management via terminal or SNMP in FRM301-CH chassis
- Auto-negotiation or forced mode
- Auto MDI/MDIX
- Forward 9k bytes (Max.) packets
- Support Link Fault Pass through (LFP) function
- Auto Laser Shutdown (ALS)

Application

Specifications

Ports		
	Connector :	1x9 (SC, ST, FC)
Optical Interface :	Data rate :	100Mbps
	Duplex mode :	Full duplex
	Cable type :	MM 62.2/125µm, 50/125µm. SM 9/125µm
	Distance :	MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
	Wavelength:	1310nm, 1550nm
Electrical Interface :	Connector :	RJ45
	Data rate :	10Mbps, 100Mbps
	Duplex mode:	Half / Full duplex
	Cable type :	10Base-T Cat.3, 4, 5, UTP, 100Base-TX Cat.5, 5e
	Distance:	100 meters
Standard		IEEE 802.3, IEEE 802.3u
LEDs		Power, FX Link, FX Duplex, TX SPD, TX Link, TX Duplex
Power		FIB1:DC In 9V, FIB2:AC 100 ~ 240V/ DC 24 ~ 72V
Power Consumption		< 4W
Dimensions (D x W x H)mm		FRM301/FIB1: 123 x 86 x 20mm FIB2: 192 x 86 x 30mm
Weight		FRM301: 290g, FIB1: 340g, FIB2: 550g
Temperature		0~50°C (Operating) ,0~70°C (Storage)
Humidity		10~90% non-condensing
Certification		CE, FCC, RoHS
MTBF		65,000 h (25°C)

Ordering Information

- **FRM301-1000TS**   1000Base-TX to 1000Base-SX/LX SFP slide-in card
- **FIB1-1000TS**   1000Base-TX to 1000Base-SX/LX SFP stand-alone converter
- **FRM301-1000TG**   1000Base-TX to 1000Base-SX/LX GBIC slide-in card
- **FIB1-1000TG**   1000Base-TX to 1000Base-SX/LX GBIC stand-alone converter
- **FIB2-1000TG**   1000Base-TX to 1000Base-SX/LX GBIC with AC or DC power built-in

FIB2-1000TG