

In-band Managed Family

In-band Management slide-in card Gigabit Ethernet switch for FRM220

FRM220-1000EAS



The FRM220-1000EAS is an IEEE802.3ah OAM compliant dual copper to dual fiber Fast Ethernet solution designed to make conversion between 10/100/1000Base-TX and 1000Base-SX/LX with SFP connector. With SNMP and Web-based management in the FRM220, the network administrator can monitor, configure and control the activity of each 802.3ah series card and remotely connected OAM compliant converter. By offering 802.3ah OAM Compliant 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 .

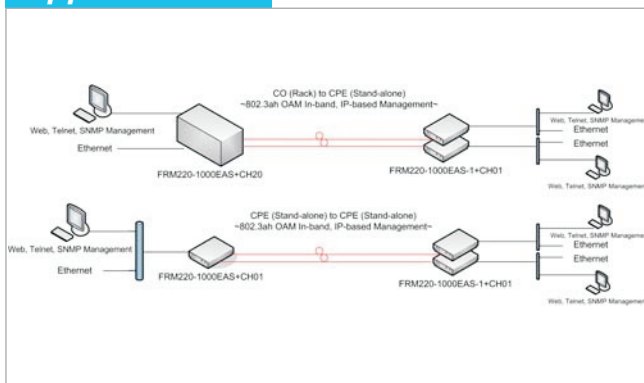
Features

- Supports local / remote 802.3ah OAM / IP In-band management
- Stand-alone IP Based, Web GUI, Telnet, SNMP management
- 2-port 10/100/1000Base-T to 2-port 1000Base-SX/LX SFP
- Auto-Negotiation or forced mode
- Auto MDI/MDIX
- Forward 2046 bytes (max.) packets
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag and Port based VLAN
- Supports Flow control (Pause)
- Supports OAM remote loopback to assist in diagnosing network problems
- Supports bandwidth control
- Supports remote CPE power fail detect (dying gasp)
- Supports Far End Fault
- Supports Link Fault Pass through (LFP)
- Supports Loop Back Test
- Supports RMON counter
- D/D function for supported SFP fiber transceiver
- Auto Laser Shutdown (ALS)
- Fiber Hardware Reset (FHR)
- Online local / remote f/w upgrade

Specifications

Ports	Connector : SFP LC
Optical Interface :	Data rate : 1000Mbps
	Duplex mode : Full duplex
	Cable type : MM 62.2/125µm, 50/125µm. SM 9/125µm
	Cable length: MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
	Wavelength: MM 850, 1310nm, SM 1310, 1550nm, WDM 1310Tx/1550Rx(type A), 1550Tx/1310Rx(type B)
Electrical Interface :	Connector : RJ45
	Data rate : 10Mbps, 100Mbps, 1000Mbps
	Duplex mode: Half / Full duplex
	Cable type : 10Base-T Cat.3, 4, 5, UTP, 100Base-TX Cat.5, 5e, 1000Base-T Cat. 5e or higher
	Cable length: 100 meters
Standard	IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3ah OAM
LEDs	Power, FX-Link, Test, TX-Link, TX-SPD
Power	DC In 12V
Power Consumption	< 15W
Dimensions (D x W x H)mm	155 x 88 x 23mm
Weight	120g
Temperature	0~50°C (Operating) ,0~70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, LVD, RoHS
MTBF	65,000 h (25°C)

Application



Ordering Information

- **FRM220-1000EAS** 2-port 10/100/1000Base-T to 2- port 1000-SX/LX SFP slide-in card w/ 802.3ah In-band OAM management
Stand-alone:

All of FRM220 Series slide-in card can be converted to stand-alone by inserting in FRM220-CH01 single slot chassis.
Please refer to FRM220-CH01 data sheet page 2.