

New



Gigabit Ethernet OAM/IP In-band Converter/Switch

FRM220A-1000EAS/X

2
Fiber Series

The FRM220A-1000EAS/X is an IEEE802.3ah OAM compliant dual copper to dual fiber Gigabit 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 9K bytes Jumbo packets (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 (70K ~ 250Mbps)
- 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
- Fiber Redundant
- VLAN
- Spanning Tree
- Port Trunking
- Default port and 802.1p tag priority QoS
- Fixed or weighted priority QoS

Optical Interface

Connector	SFP LC
Data rate	1000Mbps
Duplex mode	Full duplex
Fiber	MM 50/125µm, 62.5/125µm. SM 9/125µm
Distance	MM 550m, 2km, SM 15/30/50/80/120km WDM 20/40/60km
Wavelength	MM 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	10Base-T Cat.3, 4, 5, UTP 100Base-TX Cat.5, 5e or higher 1000Base-T Cat.5, 5e or higher

Standard

IEEE 802.3, IEEE 802.3u, IEEE802.1q
LED (Power, FX-Link, Test, TX-Link, TX-SPD)

Indications

Card : 12VDC

Power Input

Standalone : AC, DC options

Power Consumption

< 8W

Dimension

155 x 88 x 23mm (D x W x H)

Weight

120g

Temperature

0 ~ 60°C (Operating), -10 ~ 70°C (Storage)

Humidity

10 ~ 90% non-condensing

Certification

CE, FCC, LVD, RoHS

MTBF

65,000 hrs (25°C)

Ordering Information

FRM220A-1000EAS/X: 2-port 10/100/1000Base-T to 2-port 1000Base-X SFP OAM/IP media converter

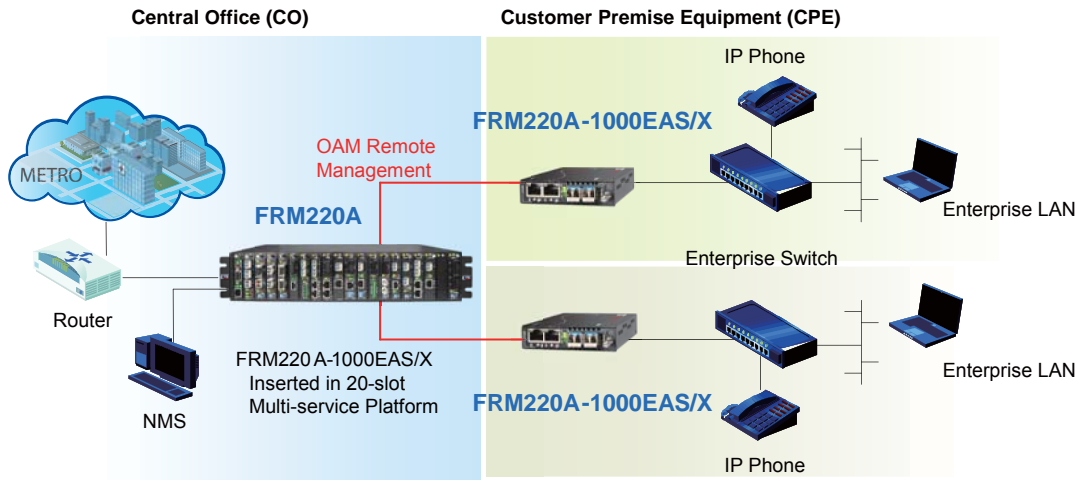
Smart View Element Management System (EMS)

Example: SV-PLF-05(5/ 25/ 50), SV-AGT-50(50/ 100/ 200/ 500), SV-Fiber

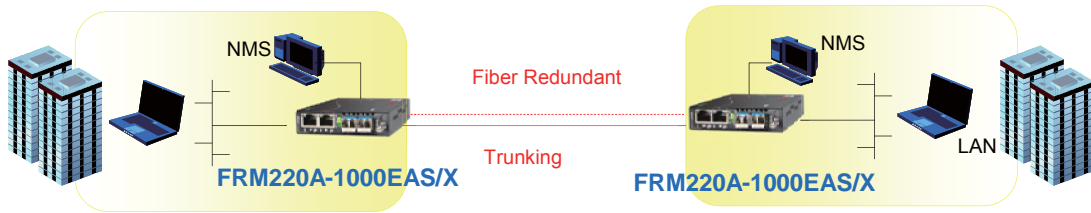
(Platform server: 5/ 25/ 50 Client user admission+

50/ 100/ 200/ 500 Device Agents + FRM220 Managed Module)

FRM220A-1000EAS/X Application



Fiber Redundant / Trunking Application



Fiber Ring Application

