FRM220A-2000EAS/4F



4-port 100/1000Base-X SFP OAM/IP GbE Managed Switch



The FRM220A-2000EAS/4F is a managed Gigabit Ethernet slide-in switch card designed with 4-port 100/1000Base-X SFP. With embedded SNMP and Web-based management, the administrator can monitor, configure and control the activity of each switch card both locally and remotely. Based on a powerful L2+ switch architecture, this switch supports bandwidth control, speed configuration, VLAN tagging, Q-in-Q, QoS, Spanning tree, jumbo frames as well as auto laser shutdown, link fault pass through, OAM loop back and dying gasp. This card may also be controlled and monitored via an GSW/SNMP in a managed FRM220A chassis.

Features

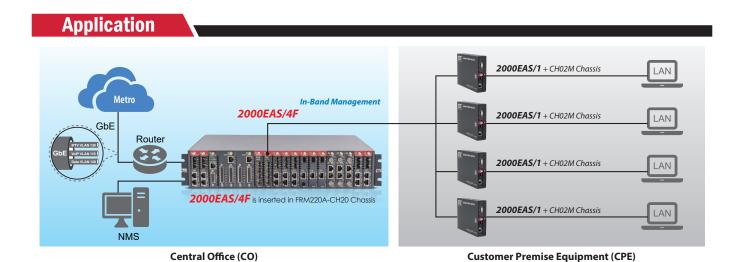
- 4-port 100/1000Base-X SFP
- Standalone IP Based, Web GUI, Telnet, SNMP management
- Supports RMON counter
- Supports dying gasp
- D/D function for supported SFP fiber transceiver

- Supports Cisco® like CLI
- Online local / remote f/w upgrade
- Supports local / remote IEEE 802.3ah OAM / IP management
- Auto Laser Shutdown (ALS)

Specifications		
Optical Interface	Connector	SFP LC
	Data rate	125/1250Mbps
	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)
Indications	LED (Power, FX-Link, Test)	
Transmission Method	Store and Forward Switching	
Standard	IEEE 802.3u, IEEE 802	.3z, IEEE 802.3ah, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q
	IEEE 802.1ad, IEEE 802	2.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad
Packet Buffer	4M bits	
MAC Table Size	8K	
Max. Packet Jumbo Frame Size	9600 Bytes	
VLAN Feature	IEEE 802.1Q tagged VL	AN (Max. 4K VLAN groups), MAC based VLAN
	Protocol based VLAN, F	Private VLAN for port isolation, IEEE 802.1ad Q-in-Q
L2 Switching Protection	STP, RSTP, MSTP	
Trunking	IEEE 802.3ad LACP	
QoS Feature	IEEE 802.1p 8 priority of	ueues per port, Port Default Priority, QoS Control List (QCL Mode)
	Port Ingress Shaping, P	ort egress shaper, Queue egress shapers
	DiffServ (RFC2474) rem	narking, Tag remarking, Scheduler mode
Security	ACL rule based filtering	

In-Band OAM/IP GbE Managed Switch

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	Storm Control	Unknown Unicast/Broadcast/Multicast storm, suppression
5	Management	Web/Telnet CLI interface, Web/CLI authentication, SSH v2, HTTPs, Port mirroring, System syslog
		IPv4/IPv6 management, NTP, Text based CLI configuration upload or download
	SNMP agent	SNMP v1/v2c/v3, RMON Group 1,2,3 and 9, Multiple trap destinations
	Software upgrade	TFTP/HTTP
	Power Consumption	8W
	Power Input	12VDC
	Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
	Humidity	10 ~ 90% non-condensing
	Certification	CE, FCC



Ordering Information Model Name Description FRM220A-2000EAS/4F 4-port 100/1000Base-X SFP-LC managed switch card (optional SFP module)

■ Chassis Option

Model Name	Description
FRM220A-CH20(HS)	2U 19", 20 slots rack mount chassis with high speed cooling fan and rack mounting kit
FRM220A-AC	Chassis Power module 100~240 VAC, IEC connector, 200W
FRM220A-DC48	Chassis Power module 36~60 VDC, 3 pin terminal block, 200W
FRM220-CH02M-AC/DC/AD	2-slot chassis with console port and AC or DC power, with fan
FRM220-CH02/NMC-AC/DC/AD	2-slot chassis with fan, managed via optional NMC card and with AC, DC or AD power
FRM220-CH02/SMT-AC/DC/AD	2-slot chassis with fan, managed via optional NMC card and with AC, DC or AD power plus fan/power alarm detection

Dimensions $159.5 \times 20.8 \times 88$ mm (D×W×H)

Weight 130g