

NEW



## FRM220A-GSW40S

4-port 100/1000Base-X SFP Managed Switch

## FRM220A-GSW40T

4-port 10/100/1000Base-T Managed Switch

The FRM220A-GSW40S is a managed Gigabit Ethernet slide-in card switch designed 4-port 100/1000Base-X SFP and the FRM220A-GSW40T is a managed Gigabit Ethernet slide-in card switch designed 4-port 10/100/1000Base-T RJ45. 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, duplex and 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 NMC in a managed chassis.

### Features

- 4-port 100/1000Base-X SFP (FRM220A-GSW40S)
- 4-Port 10/100/1000Base-T RJ45 (FRM220A-GSW40T)
- Standalone IP Based, Web GUI, Telnet, SNMP management
- Auto-Negotiation or force mode, Auto MDI/MDIX (FRM220A-GSW40T)
- Supports RMON counter
- Supports dying gasp
- D/D function for supported SFP fiber transceiver (FRM220A-40S)
- Online local / remote f/w upgrade
- Supports local / remote IEEE 802.3ah OAM / IP management
- Supports Far End Fault Indication (FEFI) (FRM220A-40S)
- Supports Link Fault Pass-Through (LFPT) (FRM220A-40S)
- Auto Laser Shutdown (ALS) (FRM220A-40S)

### Specifications

<b>Optical Interface</b>	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)
<b>Electrical Interface</b>	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
	Indications	LED (Power, FX-Link, Test, TX-Link, TX-SPD)
<b>Packet forwarding rate</b>	14880pps	@10Mbps
	148800pps	@100Mbps
	1488000pps	@1000Mbps
<b>Transmission Method</b>	Store and Forward Switching	
<b>Packet buffer</b>	1.75M bits	
<b>MAC table size</b>	4K	
<b>Jumbo frame size</b>	10240 Bytes	
<b>VLAN feature</b>	IEEE 802.1Q tagged VLAN (4K VLAN groups)	
	IEEE 802.1ad QinQ VLAN	
	Voice VLAN; MAC based VLAN; Protocol based VLAN	
	IP subnet based VLAN	
	Private VLAN for port isolation; VLAN Translation GVRP (GARP VLAN registration protocol)	
<b>Link aggregation</b>	Static trunk (SA, DA, IP, TCP/UDP port)	
	IEEE 802.3ad LACP, 2 LACP trunk groups Max 4 port Max. per LACP trunk	
	IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP Loop Protection	

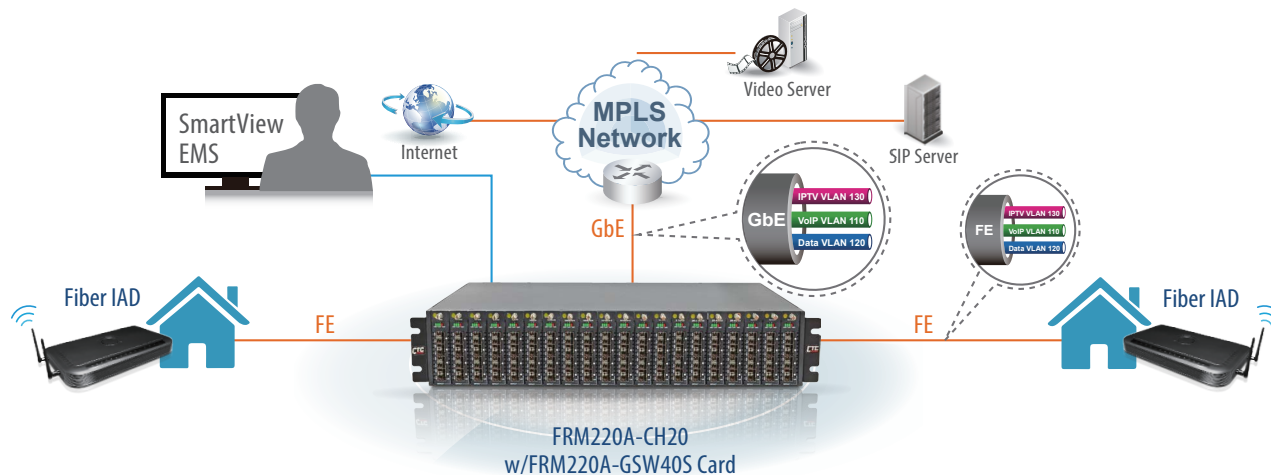
<b>QoS feature</b>	Hard wired IEEE 802.1p 8 priority queues per port Traffic scheduling based on strict/WRR priority CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port IEEE 802.1p priority tag remarking; DSCP remarking Per Port/Queue based ingress/egress rate limit in steps of 100kbps IEEE 802.3x flow control Multicast/Broadcast/Unicast storm control with flooding control
<b>Power Consumption</b>	8W
<b>Power Input</b>	12VDC
<b>Temperature</b>	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
<b>Humidity</b>	10 ~ 90% non-condensing
<b>Certification</b>	CE, FCC
<b>Dimensions</b>	Card: 155 x 20.8 x 88mm (DxWxH)
<b>Weight</b>	130g

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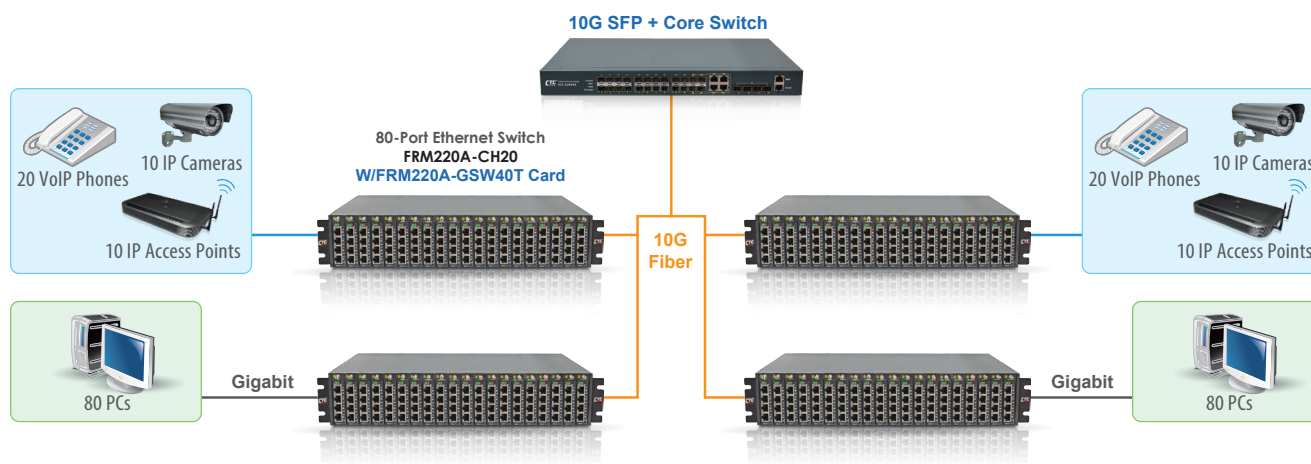
GbE Managed Switch FRM220A-GSW40S / T

## Application

### ■ Enabling VLAN & QoS Prioritized Multiple Play Services



### ■ Deploying 80 port GE copper switch with FRM220A-GSW40T



## Ordering Information

Model Name	Description
FRM220A-GSW40S	4-port 100/1000Base-X SFP-LC managed switch Card (optional SFP module)
FRM220A-GSW40T	4-port 10/100/1000Base-T RJ45 managed switch Card