# FRM220A-GSW/SNMP

### Gigabit Ethernet Aggregate Switch Card

The FRM220A incorporates a 24+4 Gigabit Ethernet Switch. Twenty ports supply each slot of the 2U 20-slot chassis with an electrical gigabit Ethernet uplink with the remaining four electrical gigabit ports accessible via the rear of the chassis. The additional four ports are provided by SFP sockets. All eight Gigabit ports (4+4) are usable without restrictions for uplink aggregate to the Ethernet Metropolitan Area Network (E-MAN). The FRM220A-GSW/SNMP card transmits Ethernet between the subscriber equipment (bridge/ modem or network interface card) and the E-MAN. The card provides a user-networking interface with Ethernet packets. This card is capable of providing high bandwidth for assembling Ethernet traffic. The FRM220A-GSW/SNMP card is not only the system aggregate/trunk module, but also the system's control module, providing OAM Management functions.

## Features

- Provides chassis aggregation via 4x1000Base-X SFP uplink slots (FRM220A-GSW/SNMP)
- Fiber optical ports supports ring or chain topology
- Built-in gigabit Ethernet interface to link with each slot of FRM220A chassis
- Provides Web, Telnet, SNMP management interface
- Supports IEEE802.1D/802.1w/802.1s for ring protection on the trunk interfaces

- Supports IEEE 802.1Q tagged VLAN and IEEE 802.1ad Q-in-Q application

## Specifications

| | | | |
|---|---|---|---|
| **Trunk Interface** | 4x10/100/1000Base-T plus 4x1000Base-X/2500Base-X GbE switch trunk card (FRM220-GSW/SNMP) | | |
| | Supports full-duplex mode for 1000Mbps (FRM220A-GSW/SNMP) | | |
| **Capacity** | Supports up to 20 service cards | | |
| **Temperature** | 0~60°C (Operating), -10~70°C (Storage) | | |
| **Humidity** | 5~90% non-condensing | | |
| **Certification** | CE, FCC, RoHS compliant | | |

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|---|---|---|
| **Physical Specifications** | In-band management | Provides all system OAM functions: software updates, and management system interaction through Ethernet trunk port |
| | Out-band management | Supports Web, Telnet and SNMP, EMS management |
| **Indications** | PWR, FAN, Alarm, STK | |
| **Dimensions** | 142 x 200 x 26 mm (D x W x H) | |
| **Weight** | 0.5kg | |
| **MTBF** | 65,000 hrs | |

## Ordering Information

| Model Name | Type | Description |
|---|---|---|
| **FRM220A-CH20** | Chassis | 2U 20-Slot rack mount chassis with 20 line card blank plate |
| **FRM220A-GSW/SNMP** | Card | Gigabit Ethernet Aggregate switch card supports web, telnet, SNMP management interface |
| **FRM220A-AC** | Power | Chassis power module 100 ~ 240 VAC, IEC connector |
| **FRM220A-DC24** | Power | Chassis power module 18 ~ 36 VDC, 3 pin terminal block |
| **FRM220A-DC48** | Power | Chassis power module 36 ~ 72 VDC, 3 pin terminal block |

Chassis
**FRM220A** – ☐☐☐☐
Example: FRM220A – CH20

Card
**FRM220A** – ☐☐☐ / ☐☐☐☐
Example: FRM220A – GSW/SNMP

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

FRM220A-GSW/SNMP

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