

FRM220A-GSW/SNMP-10G FRM220A-GSW/SNMP-1G



- ◀ **10G uplink Ethernet Aggregation Switch Card**
- ▶ **1G uplink Ethernet Aggregation Switch Card**



FRM220A-GSW/SNMP-10G and FRM220A-GSW/SNMP(n) are next generation switch/management trunk cards for the FRM220A chassis. Twenty (20) GbE switch ports supply each slot of the 2U 20-slot chassis with an electrical gigabit Ethernet uplink with a remaining four (4) electrical gigabit ports accessible via the rear of the chassis. The additional four uplink SFP ports provide 1G/10G Ethernet connections, also on the rear of the chassis. All rear facing eight (8) ports (4 × GE+ 4 × 1G/10G or 4 × GE + 4 × 1G) are usable without restrictions for uplink aggregation to the Ethernet Metropolitan Area Network (E-MAN). The FRM220A-GSW/SNMP trunk card transmits Ethernet between the subscriber equipment (bridge/modem or network interface card) and the E-MAN. The trunk card also provides a management interface with Ethernet packets via Telnet, SSHv2, http/https and SNMP (v1,v2c,v3).

Features

- Provides chassis aggregation via 4 × 1G/10Gigabit Base-R SFP/SFP+ uplink slots (FRM220A-GSW/SNMP-10G)
- Provides chassis aggregation via 4 × 1G Gigabit Base-X SFP uplink slots (FRM220A-GSW/SNMP-1G)
- Supports IEEE 802.1p HW based 8 priority queues and L2~L4 QoS functions
- Supports IPv6 management
- Fiber optical ports supports Ring topology
- Built-in gigabit Ethernet interface to link with each slot of FRM220A chassis
- Provides Web (https), Telnet, SSHv2, SNMP(V1, V2c, V3) management interface
- Supports IEEE 802.1D/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

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|----------------------------------|---|
| Trunk Interface | 4 × 1G Base-X SFP + 4 × 10/100/1000Base-T RJ45 switch trunk card Supports full-duplex mode for 1G/10G Mbps (FRM220A-GSW/SNMP-10G) Supports full-duplex mode for 1G Mbps (FRM220A-GSW/SNMP-1G) |
| 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 |
| Management 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, SSHv2, EMS management |
| Indications | PWR, FAN, Alarm, STK |
| Dimensions | 142 × 200 × 26 mm (D×W×H) |
| Weight | 0.5kg |
| MTBF | 65,000 hrs |

Ethernet Aggregation Switch Card with In-Band Management

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Ordering Information

| Model Name | Type | Description |
|----------------------|---------|--|
| FRM220A-CH20 | Chassis | 2U 20-Slot rack mount chassis with 20 line console blank plate |
| FRM220A-GSW/SNMP-10G | Card | 10G Ethernet Aggregate switch card supports web, telnet, SNMP management interface |
| FRM220A-GSW/SNMP-1G | Card | 1G 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 ~ 60 VDC, 3 pin terminal block |