

iAccess™ Ethernet Aggregation Switch Platform — FRM220A

Mar. 2022

The FRM220A series is an Ethernet based aggregation platform, which incorporates a 24+4 port L2 Gigabit Ethernet switch (FRM220AGSW/SNMP-(n) or a new 20+4 port L2 Gigabit Ethernet switch with 4x10Gigabit uplink (FRM220A-GSW/SNMP-10G). The FRM220A has a built-in Gigabit Ethernet backplane to interconnect the Ethernet access with the FRM220-GSW/SNMP card. The L2 switch card supports many advanced Layer 2 switch technologies including port and tag based VLAN, QoS, LACP, RSTP to name just a few. The FRM220A chassis solution significantly lowers the OPEX for operator and service provider when deploying fiber access networks.

Ethernet Aggregation Platform



Uplink Ethernet Aggregation Switch Cards

The FRM220A chassis incorporate an Ethernet trunk card (FRM220A-GSW/SNMP-10G), for grooming traffic from all twenty (20) card slots and for Device Management. This card has four (4) uplink ports of either **1G/10G** SFP+, depending on model, and is built with GbE interfaces to connect the backplane with each slot of FRM220A chassis. The FRM220A-GSW/SNMP-10G Ethernet switch trunk card transmits Ethernet between the subscriber equipment (bridge/modem or network interface card) and provides a user-networking interface with Ethernet packets.

■ FRM220A-GSW/SNMP-10G

4× 10G uplink Ethernet Aggregation Switch Card with In-Band Management



FRM220A-GSW/SNMP(n)

4x Gigabit uplink Ethernet Aggregation Switch Card with In-Band Management



Standalone Chassis





■ CH01 (Adapter Type)



CH02M (Power Built-in)



FRM220A Module Cards

The products listed below are designed for FRM220A-CH20 Ethernet Aggregation Switch Applications

Ethernet Switch: FRM220A-2000EAS/4F



- 4-port 100/1000Base-X SFP
- Standalone IP Based, Web GUI, SSH and SNMP v3 management
- Supports dying gasp
- Supports Cisco® like CLI
- Online local / remote F/W upgrade
- Supports local / remote IEEE 802.3ah OAM / IP management

Ethernet Switch: FRM220A-2000EAS/1 & FRM220A-2000EAS/2



- 10/100/1000Base-T and 100/1000Base-X SFP (2000EAS/1)
- 2x 10/100/1000Base-T and 2x 100/1000Base-X SFP (2000EAS/2)
- Standalone IP Based, Web GUI, SSH and SNMP v3 management
- Supports dying gasp
- Online local / remote F/W upgrade
- Supports local / remote IEEE 802.3ah OAM / IP management



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SmartView™ WEB EMS

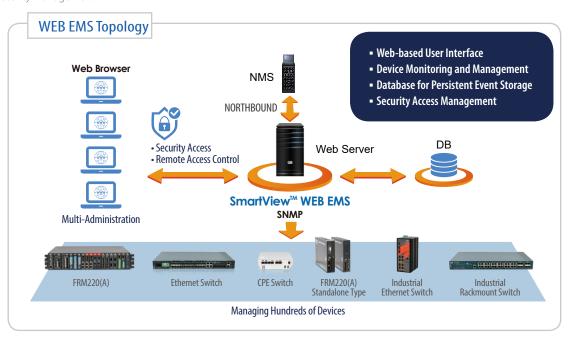
- Web-based User Interface
- Remote Access and Centralized Device Management
- Real-time visual representations & processing of alarms
- Long term event storage (up to 1 year)

► Functions

- Main Functions (FCAPS):
- Fault Management,
- Configuration Management,
- Accounting Management,
- Performance Management,
- **S**ecurity Management



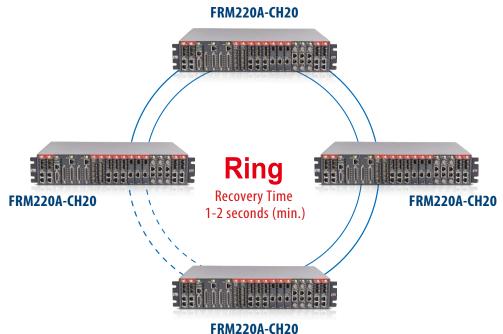
- Remote access control for efficient configuration
- Network element performance monitoring
- Alarm event and notification
- Auto discovery and device viewer
- Allow 20 concurrent operating users



Application

■ Enabling IP Transportation Protection Mechanism

- STP/RSTP Featured Ring Protection
- Standard based but advanced fault protection systems
- Rapidly recovery path from failed connection (1-2 seconds min. recovery time)

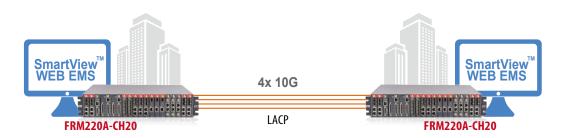


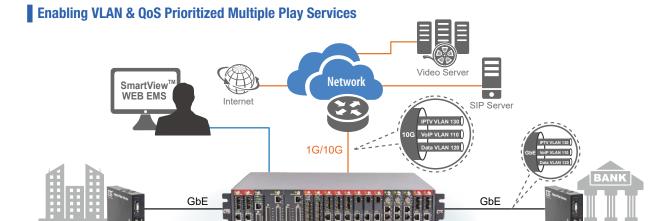


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■ LACP Enabled Traffic Aggregation

- Fiber Redundant / Trunking Application
- Dynamic port aggregation or trucking to increase bandwidth between LACP peer devices
- Redundant paths to reduce network fault risk



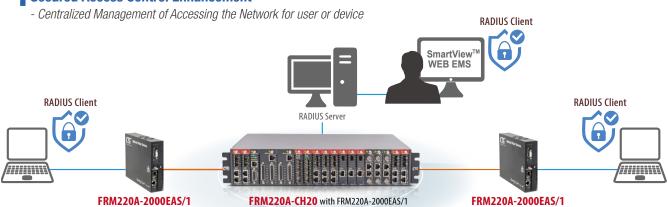


FRM220A-CH20 with FRM220A-2000EAS/2

Secured Access Control Enhancement

FRM220A-2000EAS/2

Commercial Building



FRM220A-2000EAS/2