



## FRM220A-CH20 Ethernet Aggregation Platform

The FRM220A series is a IP based Ethernet aggregation platform, which incorporates a 24+4 port L2 Gigabit Ethernet switch (FRM220A-GSW/SNMP). The FRM220A has a built-in Gigabit Ethernet backplane to interconnect the Ethernet access and E1 TDM based inverse multiplexer module cards 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.

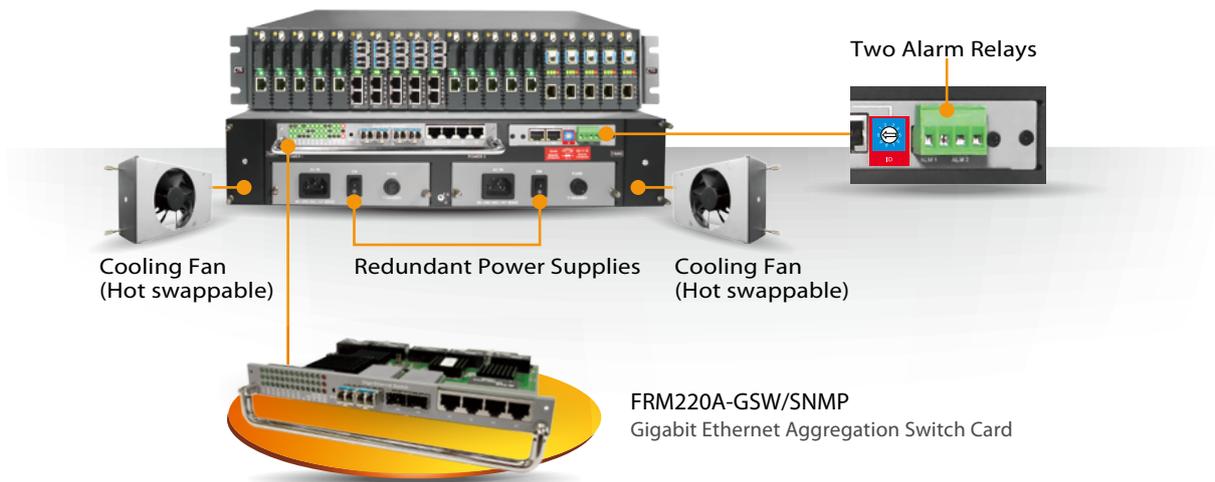
The product lists designed to be adequately to the FRM220A-CH20 Ethernet aggregation application such as Ethernet access and Ethernet over PDH are included

- FRM220A-1000EAS/X : 2x 10/100/1000Base-T + 2x1000Base-X OAM/IP Managed Switch
- FRM220A-1002ES : 2x 10/100/1000Base-T + 2x100/1000Base-X Managed Switch
- FRM220A-iMux Series : E1 inverse multiplexer module card
- FRM220A-FSW103 : 3x 10/100Base-TX + 100Base-FX Managed Switch
- FRM220A-Eoel/G & FRM220-Eoe1 : Ethernet Bridge over E1 & Ethernet Bridge over E1(GFP)

### Specifications

<b>Physical Specifications</b>	Dimensions	303 x 438 x 88 mm (D x W x H)	<b>Temperatures</b>	Operating	0~60°C
	Weight (w/o Power)	5.2kg		Storage	-10~70°C
<b>Power</b>	AC	18~240VAC	<b>Humidity</b>	5%~90% non-condensing	
	DC24	18~36VDC		<b>MTBF</b>	65,000 hrs
	DC48	36~72VDC		<b>Certification</b>	FCC Class A, VCCI Class A, CE, RoHS compliant

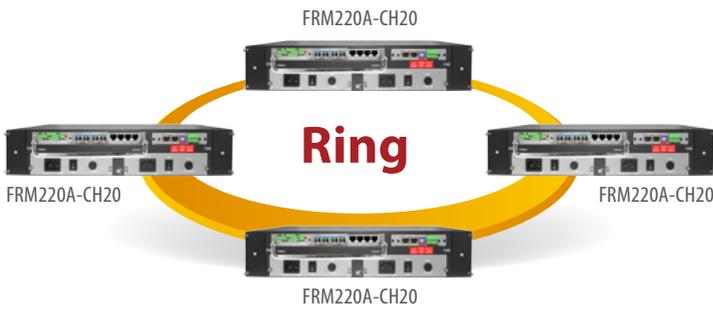
### Chassis Overview



## Benefits of FRM220A Chassis Platform

### ■ Enabling IP Transportation Protection Mechanism

- STP/RSTP Featured Ring Protection

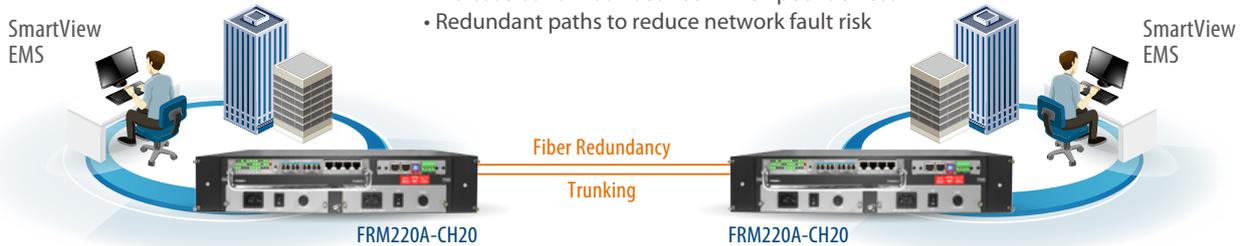


- Standard based but advanced fault protection systems
- Rapidly recovery path from failed connection (1-2 seconds min. recovery time)

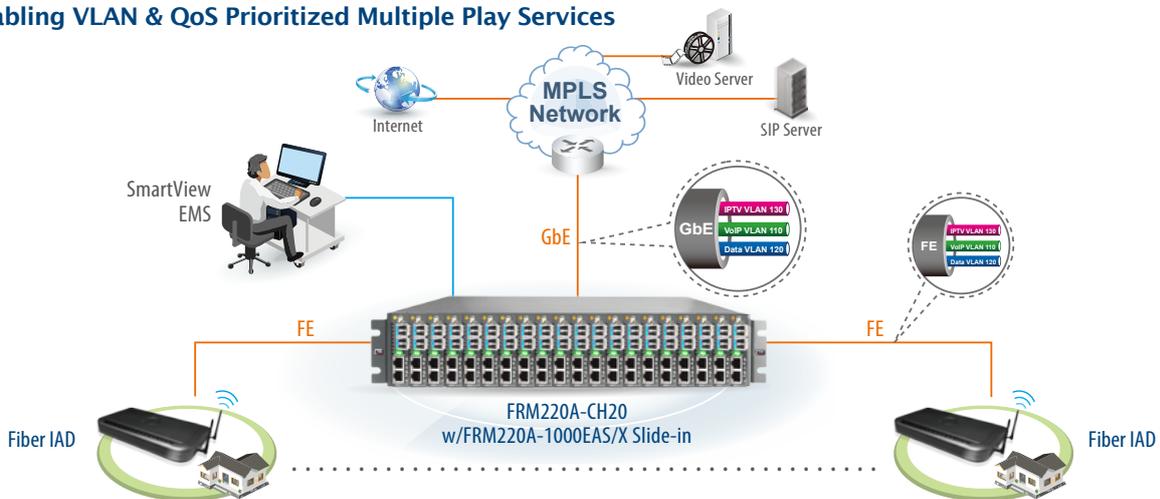
### ■ LACP Enabled Traffic Aggregation

- Fiber Redundant / Trunking Application

- Dynamically port aggregation or trunking to increase bandwidth between LACP peer devices
- Redundant paths to reduce network fault risk



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



### ■ Secured Access Control Enhancement

- Centralized Management of Accessing the Network for user or device

