



# FRM220A-FSW103

## 3x 10/100Base-TX to 100Base-FX SFP Switch

The FRM220A-FSW103 is a 3-Port 10/100Base-TX and 100Base-FX SFP fiber slide-in card Ethernet switch designed for central applications. With SNMP and Web-based management in the FRM220 or FRM220A chassis, the network administrator can monitor, configure and control the activity of each FRM220A-FSW103 switch card locally via the chassis management. This switch is completely transparent to Layer 2 and Layer 3 protocols including IEEE 802.1q, VLAN tag, Q in Q, STP, IPX, IP, etc

### Features

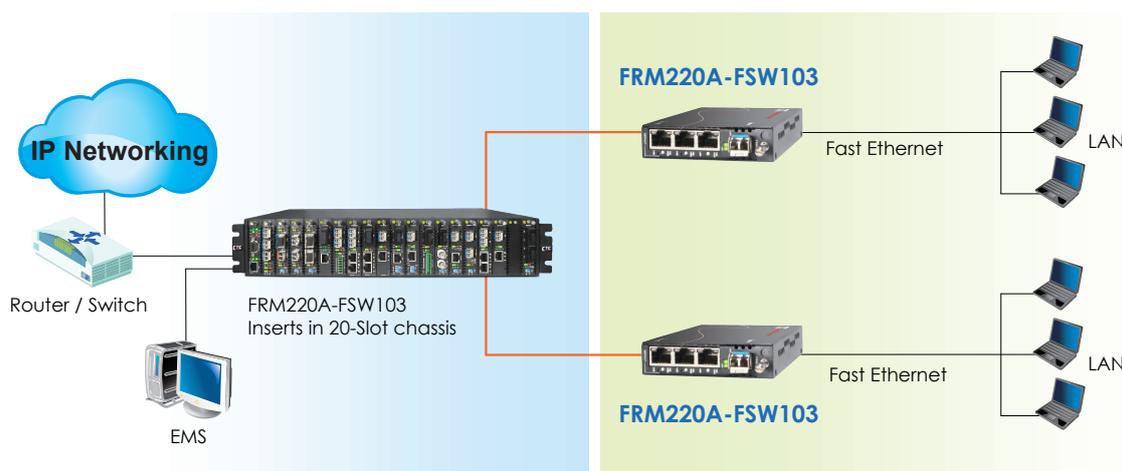
- 3-Port 10/100Base-TX + 1-Port 100Base-FX Ethernet Switch
- Auto-Cross over for MDI/MDIX in TP port
- Auto-Negotiation or manual mode in TP port
- Supports flow control
- Forward 1552 bytes (max.) packets in switch mode
- Supports Store and forward switch mode
- Supports FRM220 chassis management system
- Supports FRM220A chassis management system and Ethernet Aggregation
- Supports local management (Monitor or Configure status) by the SNMP manager.
- Supports D/D function for SFP fiber transceiver
- Provides Auto Laser Shutdown (ALS) function

### Specifications

|                             |             |   |
|-----------------------------|-------------|---|
| <b>Optical Interface</b>    | Connector   | SFP LC  |
|                             | Data rate   | 125Mbps   |
|                             | Duplex mode | Full duplex   |
|                             | Fiber       | MM 50/125µm, 62.5/125µm.<br>SM 9/125µm  |
|                             | Distance    | MM 2km, SM 15/30/50/80/120km,<br>WDM 20/40/60/80km                                |
| <b>Electrical Interface</b> | Wavelength  | MM 1310nm, SM 1310,1550nm<br>WDM 1310Tx/1550Rx (type A)<br>1550Tx/1310Rx (type B) |
|                             | Connector   | RJ45  |
|                             | Data rate   | 10Mbps, 100Mbps   |
| <b>Electrical Interface</b> | Duplex mode | Half / Full duplex  |
|                             | Cable       | 10Base-T Cat.3, 4, 5, UTP<br>100Base-TX Cat.5, 5e or higher                       |

|                          |   |
|--------------------------|---|
| <b>Standards</b>         | IEEE 802.3, IEEE 802.3u                               |
| <b>Indications</b>       | LED (Power, FEF, FX-Link, TX-SPD, TX-Duplex, TX-Link) |
| <b>Power Input</b>       | 12VDC   |
| <b>Power Consumption</b> | < 4W  |
| <b>Dimensions</b>        | 155 x 88 x 23mm (D x W x H)                           |
| <b>Weight</b>            | 130g  |
| <b>Temperature</b>       | 0 ~ 80°C (Operating), -10 ~ 80°C (Storage)            |
| <b>Humidity</b>          | 5 ~ 90% non-condensing                                |
| <b>Certification</b>     | CE, FCC, RoHS compliant                               |
| <b>MTBF</b>              | 65,000 hrs  |

### Application



### Ordering Information

| Model Name     | Description  |
|----------------|--|
| FRM220A-FSW103 | 3-Port 10/100Base-TX and 100Base-FX SFP Switch, (optional SFP) |

Note: This card must use CH01M, with serial console, to configure standalone settings.