IP Surveillance

2 Fiber Series

PDH Series

Broadband Access

EoCoax

Measurement

Interface Converter

Datacom Accessories

Network Management

## Fiber Media Converter

Managed Platform

# FRM220-1000ES-1

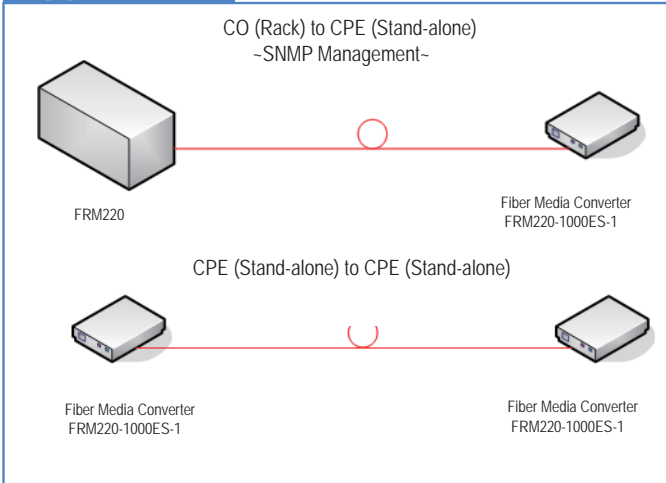## Managed Slide-in line card converter for FRM220 Series

This copper to fiber Gigabit Ethernet solution is designed to make conversion between 10/100/1000Base-TX and 1000Base-FX with SFP-LC connector. With SNMP agent and GUI Web-based management in the FRM220, the Network administrator can monitor, configure and control the activity of each line card in the chassis. This media converter, with its maximum interoperability will enable carriers and serivce provides to have a clear vision of their network and conveniently manage their demarcation point.

### Features

- Compatible with FRM220 Managed Chassis (up to 19 loops)
- Supports 1 port 10/100/1000Base-T and 1 port GbE fiber
- SNMP management compliant
- 10/100/1000Mbps auto-negotiation or forced mode operation on the TP interface
- Fiber Auto-Negotiation
- Supports Flow control function
- Supports Dying Gasp Reporting for power outage
- Supports local monitor & configuration
- Supports port-base VLAN function

### Application

CO (Rack) to CPE (Stand-alone)
~SNMP Management~

FRM220

Fiber Media Converter
FRM220-1000ES-1

CPE (Stand-alone) to CPE (Stand-alone)

Fiber Media Converter
FRM220-1000ES-1

Fiber Media Converter
FRM220-1000ES-1

### Ordering Information

- **FRM220-1000ES-1**   1 port 10/100/1000Base-TX to 1 port 1000-FX with SFP slot switch

### Specifications

*LAN Interface Specification*
- One RJ-45 female connector for straight or cross-over connection.
- Supports 1-port 10/100/1000Base-TX, n-way (Auto-Negotiation).
- Supports Full, Half duplex, 10/100/1000 speed force mode selections.
- Transmission Packet Rate for 10Base-T: 14880 per second 100Base-TX: 148800 per second ; 1000Base-TX: 1488000 per second
- Copper TP cable 4 pair Cat. 5e or 6 UTP

*Optical Interface Specification*
- Transceiver Connector type：SFP-LC
- Supports 1-port, 1000Mbps SFP slot
- Supports auto-receive sensitivity function, no extra attenuators needed.

*General Specification*

| | |
|---|---|
| Standards | IEEE 802.3 10Base-T, |
| | IEEE 802.3u 100Base-TX , 100Base-FX, |
| | IEEE 802.3ab, 802.3z 1000Base-TX, 1000Base-FX compliant |
| 6 diagnostic LEDs : | Power / FX-Link ,TX-Speed / TX-Duplex / TX-Link / FEF |
| Temperature: | 0 - 50$^o$C (Operating); |
| | 0 - 70$^o$C (Storage). |
| Humidity: | 5-90% non-condensing (Operating); |
| | 10-90% (Storage). |
| Power: | DC Jack : Switching adaptor (12V, 1A) |
| | Consumption: < 5W |
| Dimensions: | 155mm x 88mm x 23mm (LxWxH). |
| Weight: | 120g. |
| Compliance: | FCC part 15, Subpart B, Class A, |
| | ANSI C63.4:2003 |
| | CE EN55022:2006, Class A |
| | EN55024:1998+A1:2001+A2:2003 |
| | LVD: EN60950-1:2001 |
| MTBF: | 65,000 h (25$^o$C) |