In-band Managed Platform
FRM220-SERIAL
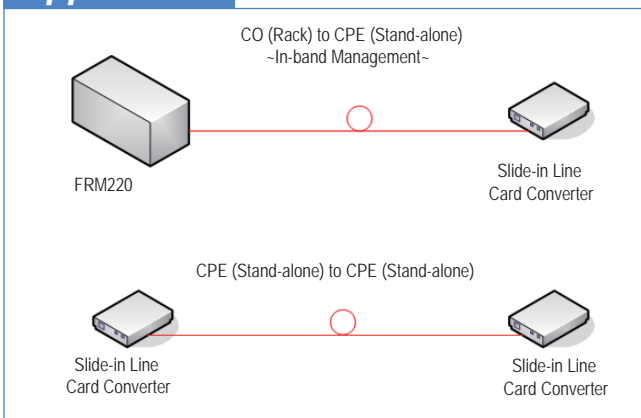### Stand-alone RS-232/422/485 Copper to Fiber Media Converter

The *FRM220-Serial* provides a fiber converter solution to extend RS-232 or RS-485 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The converter is equipped with multiple interface circuits, for connection to RS-232, or RS-485/422 (2 or 4 wire). The *FRM220-Serial* secures data transmission over EMI resistant fiber at speeds up to 256kbps for RS-232 or up to 1024kbps for RS-422/485. When the *FRM220-Serial* is linked to the FRM220 with *FRM220-Serial* card, it allows network engineers to get greater functionality through advanced SNMP features. The network administrator can manage any converter module from anywhere on the network, detect any link loss and maintain each loop.

Features

- Extends serial transmission from 2 to 120 km over fiber
- Selectable data I/F for RS232/ 422/ 485
- Selectable two or four wire RS-485/ 422
- Selectable three or five wire RS-232
- SNMP management features with FRM220 Chassis
- Speeds up to 256Kbps for RS-232 (Async mode)
- Speeds up to 1024Kbps for RS-485/ 422
- Supports fiber auto-adjustment function, no extra attenuators needed

Application

CO (Rack) to CPE (Stand-alone)
~In-band Management~

FRM220

Slide-in Line
Card Converter

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

Slide-in Line
Card Converter

Slide-in Line
Card Converter

Specifications

Serial Interface Specification
- One 6-pin terminal block for conversion between RS485/422/232.
- Standard: EIA/ TIA RS485/422/232

Fiber Interface Specification
- Transceiver Connector type: 155 Mbps SFP LC
- Wavelength: 1310nm, 1550nm,
- Fiber Type: 9/125um single mode; 62.2/125um multi-mode

General Specification
- 6 diagnostic LEDs :   Power, FLK(FX-Link) , Test, Di/DO
- Temperature: 0 - 50° C (Operating);
                         0 - 70° C (Storage).
- Humidity: 20-80% non-condensing (Operating);
                         10-90%   (Storage).
- Power: DC Jack : Switching adaptor (12V, 1A)
                         Consumption: < 4W
- 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°C)

Ordering Information

- *FRM220-SERIAL/SFP*   In-band managed serial (RS-232/485/422) slide-in card with SFP slot
- *FRM220-SERIAL*   In-band managed serial (RS-232/485/422) slide-in card