

Slide-in card & stand-alone RS-485/232 Daisy Chain fiber converter FRM220-Serial/FDC



The FRM220-Serial/FDC provides a dual fiber connection converter solution to extend asynchronous RS-485 or RS-232 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The dual fiber inputs allow connecting multiple devices in a cascade or "daisy chain" fashion as well as creating ring architecture for fiber redundancy. The converter is equipped with multiple interface circuits for connection to RS-232 or RS-485/422 (2 or 4 wire, full or half duplex). The FRM220-Serial/FDC secures data transmission over EMI resistant fiber at speeds up to 256kbps for RS-232 or up to 1024kbps for RS-485/422. When the FRM220-Serial/FDC card is placed in the FRM220 rack with SNMP management, in-band management allows viewing the card and remote converter's status, type, version, fiber link status, data link status and alarms. Both card and remote can be configured to enable or disable the port and set the interface type.

Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- In-band management via terminal, GUI or SNMP in FRM220-CH chassis
- Two fiber ports support daisy chain and ring architecture
- Multi-drop operation over fiber ring
- Software selectable data interface for RS232/ 422/ 485
- Software selectable two wires (half duplex) or four wires (full duplex) RS485
- Software selectable three or five wires RS232
- Speeds up to 256kbps for RS232 (Async. mode)
- Speeds up to 1Mbps for RS485/422

Optical Interface

Connector : 1x9 (SC, ST, FC)
 Data rate : 31.104Mbps
 Line coding : Scrambled NRZ
 Bit Error Rate : Less than 10⁻¹¹
 Cable type : MM 62.2/125 α m, 5/125 α m.
 SM 9/125 α m
 Distance : MM 2km, SM 15/30/50/80/120km,
 WDM 20/40/60/80km

Electrical Interface

Connector : 6 pins Terminal block
 Data : Signal Formats
 RS485/422 2-wire , 4-wire
 RS232 RTS/CTS 5-wire, 3-wire
 RS423 RTS/CTS 5-wire, 3-wire
 TTL 3-wire
 Baud Rate : RS422, RS485 up to 1024kbps
 RS232 up to 256kbps
 TTL up to 1024kbps

Standard

LEDs

Power

Power Consumption

Dimensions

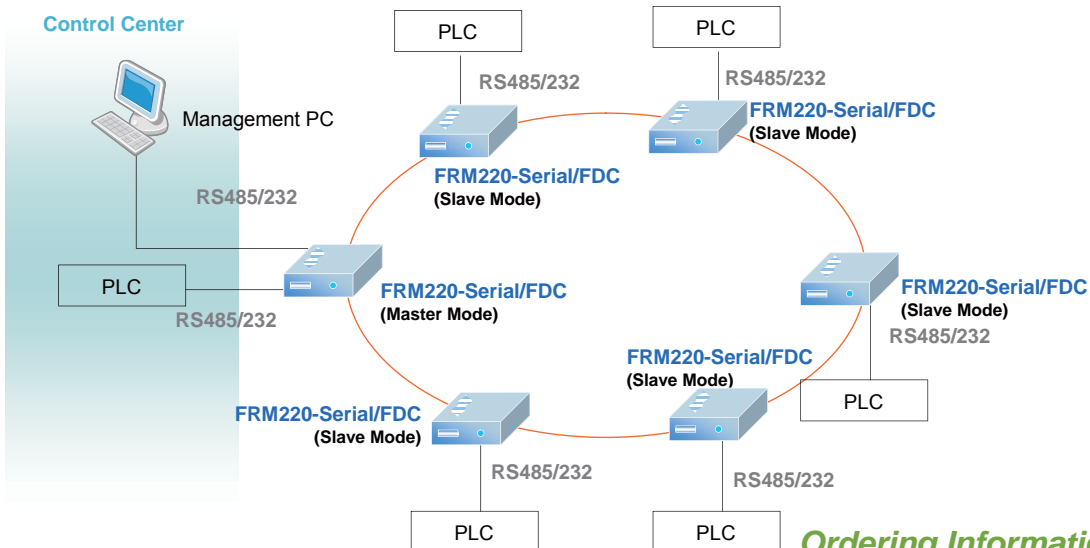
Weight

Temperature

Humidity

Certification

EIA/TIA RS485, RS422, RS232
 Power, FX-Link1, FX-Link2, Test, Master, Ring TD, RD
 < 5W
 FRM301/FIB1: 123 x 86 x 20mm
 FIB1: 138 x 86 x 40mm (D x W x H)
 0~50°C (Operating) ,0~70°C (Storage)
 10~90% non-condensing
 CE, FCC, LVD, RoHS
 65,000 h (25°C)



Ordering Information

FRM220- Model type
 Serial/FDC

Example: FRM220-Serial/FDC