

Managed Family

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



FIB1-Serial/FDC

The FRM301-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 FRM301-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 FRM301-Serial/FDC card is placed in the FRM301 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.

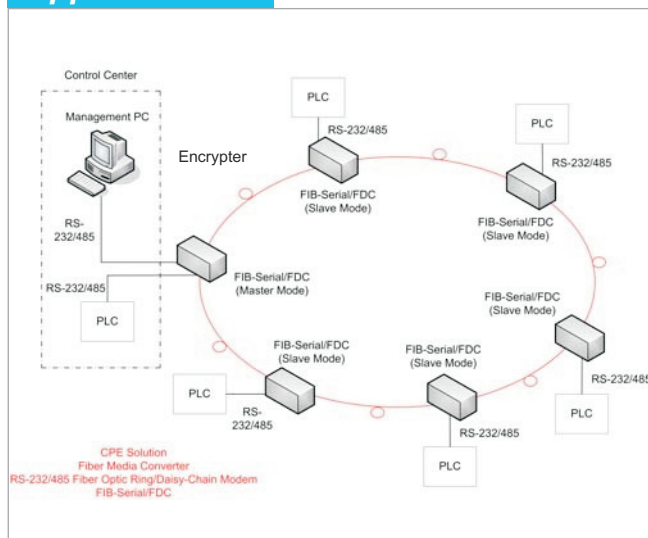
Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- In-band management via terminal, GUI or SNMP in FRM301-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

Specifications

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|------------------------|--|
| Ports | Connector : 1x9 (SC, ST, FC) |
| Optical Interface : | Data rate : 31.104Mbps |
| | Line coding : Scrambled NRZ |
| | Bit Error Rate : Less than 10 ⁻¹¹ |
| | Cable type : MM 62.2/125µm, 50/125µm. SM 9/125µm |
| Distance : | MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km |
| | Wavelength : 1310nm, 1550nm |
| 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 |

Application



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

Ordering Information

- **FIB1-Serial/FDC** Serial (RS485/422/232) to dual fiber stand-alone converter