



Industrial Grade Serial (RS-232/422/485) to Fiber Converters

FCRID-100 Series

FCRID-100 series Serial to Fiber Converters have the capability to handle multiple serial interface modes – RS-232 (RXD, TXD, GND), RS-485 (A, B half-duplex mode) to RS-422 (RX-, RX +, TX-, TX + full duplex mode). The converters can extend the distance of serial transmission to over 2km with multimode optical fiber and up to 20km with singlemode optical fiber.

Key Features

- ◆ Rugged design suitable harsh industrial environments (IP30 protection for housing)
- ◆ Broad range of operating temperatures (-40°C to 85°C)
- ◆ Din-Rail mount suitable for installation in areas with limited spaces
- ◆ Capable of providing secure asynchronous serial data transmissions over fibers (fibers are EMI immune) at speed up to 115200bps
- ◆ A variety of network topologies are possible with the converters - point to point, star or daisy chain

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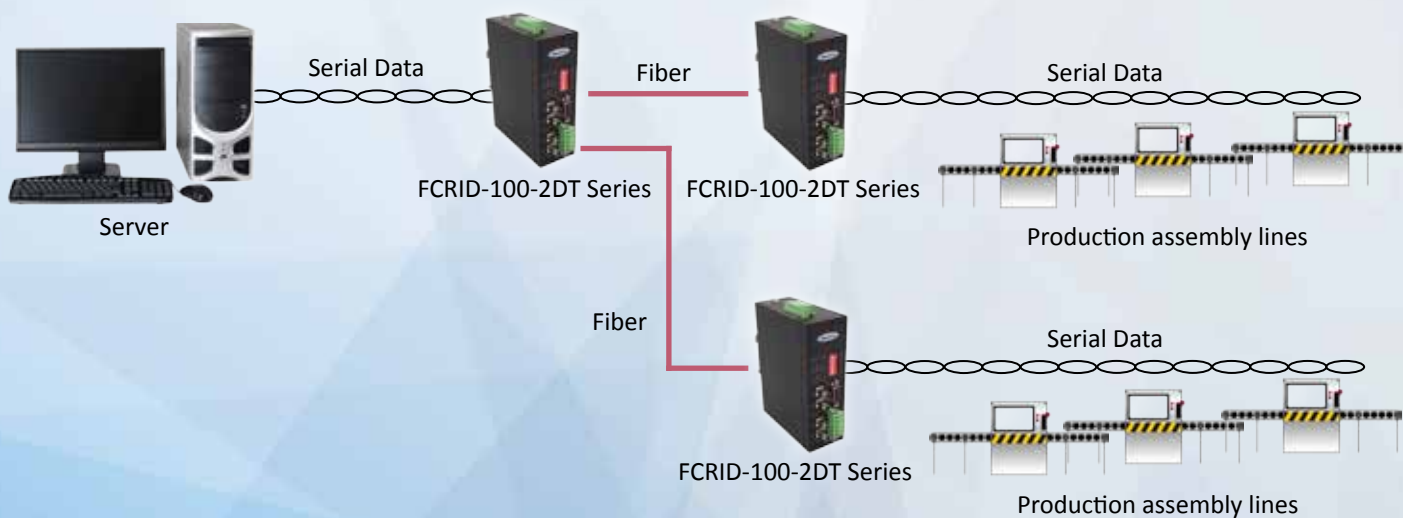
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Application Diagrams

Point to Point Topology



Star Topology



Part No.	Description
FCRID-100-1DT-M02	FiberTek Serial (RS232/422/485) to fiber converter, 1 duplex fiber port, -40 to 85 degree Celsius, ST multimode, 11dB (1310nm), 2km
FCRID-100-1DT-S20	FiberTek Serial (RS232/422/485) to fiber converter, 1 duplex fiber port, -40 to 85 degree Celsius, ST singlemode, 20dB (1310nm), 20km
FCRID-100-2DT-M02	FiberTek Serial (RS232/422/485) to fiber converter, 2 duplex fiber port, -40 to 85 degree Celsius, ST multimode, 11dB (1310nm), 2km
FCRID-100-2DT-S20	FiberTek Serial (RS232/422/485) to fiber converter, 2 duplex fiber port, -40 to 85 degree Celsius, ST singlemode, 20dB (1310nm), 20km