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S710D

Two-Way Multiprotocol Data

Overview

The S710D data transceiver provides two-way transmission of multiprotocol data over two multimode fibers.

Data Translation

The S710D also features the unique data translation function that allows input of one data format and output of a different format. Data formats are selected during installation and can be easily changed in the field via rotary switch.

Superior Diagnostics

The SMARTS™ diagnostic technology provides an extensive array of system status LEDs. The integrity of the data paths can be tested with a built-in data transmission test generator. It is not necessary to connect to an external data device.



Standard Features

- **Two-way data transmission over two multimode fibers**
- **Supports multiprotocol data formats including RS-232, TTL, RS-422, RS-485, Manchester, Biphase, and SensorNet**
- **Unique data translation function**
- **User-configurable data format**
- **13 dB optical budget**
- **Optical AGC**
- **SMARTS™ diagnostics**
- **Standalone and rack configurations**



S710D

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Specifications

Data

- Channels: 1 duplex
- Formats: RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet, DTMF control
- Baud Rate: 250 kbps to 512 kbps (depending on data format)
- Bit Error Rate: $1.0E-9$

Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: LED
- Wavelength: 850 nm
- Operating Distance: 3.2 mi (5.2 km)
- Gain Control: Optical Automatic Gain Control (OAGC)
- Transmitter Launch Power: -17 dBm
- Receiver Sensitivity: -30 dBm

Electrical

- Input Power: 13.5 VDC regulated
- Current Requirement: 220 mA
- Power Consumption: 3.5 W
- Power Factor: 2
- Protection: Solid-state short circuit protection
- Power Supply: Model 613P (optional)

Environmental

- Operating Temperature: -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity: 95% relative, noncondensing

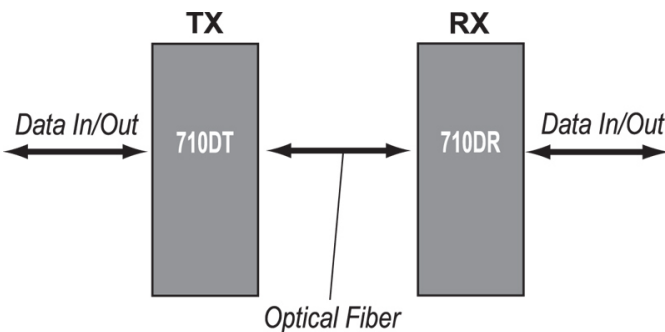
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: EN50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95

Mechanical

- Dimensions (LWD), Standalone Units: 5.0" x 2.8" x 1.5"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 0.22 lbs (0.1 kg); rack 0.55 lbs (0.25 kg)
- Construction: Plastic (standalone); Aluminum (rack)

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

S710D - ST2

Enclosure

- E Standalone
- R Rack Card



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