S7711D
Two-Way Multiprotocol Data

Overview

The S7711D data transceiver provides two-way transmission of multiprotocol data over one or two single-mode fibers.

Data Translation

The S7711D 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 one or two single-mode 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**
- **18 dB optical budget**
- **Optical AGC**
- **SMARTS™ diagnostics**
- **Standalone and rack configurations**

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: Single Mode
- Optical Budget: 18 dB
- Emitter: Laser
- Wavelength: 1310 nm and/or 1550 nm (depending on model)
- Operating Distance: Up to 37 mi (60 km) (depending on model)
- Transmitter Launch Power: -14 dBm
- Receiver Sensitivity: -32 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical
- Input Power: 12 - 16 VAC or 13.5 VDC regulated (standalone); 13.5 VDC regulated (rack)
- Current Requirement: 350 mA
- Power Consumption: 5 W
- Power Factor: 3
- Protection: Solid-state short circuit protection
- Power Supply: Model 610P (AC) or Model 613P (DC) (optional)

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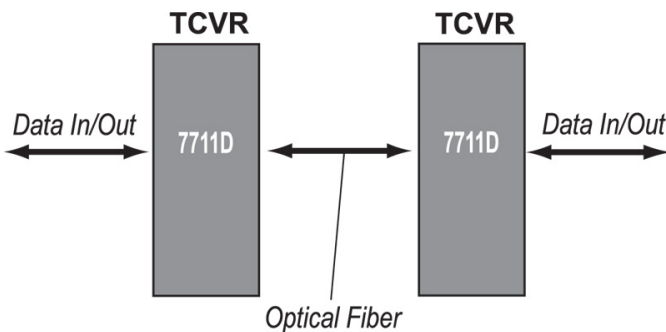- Maximum Humidity: 95% relative, noncondensing

Standards
- Emmissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95
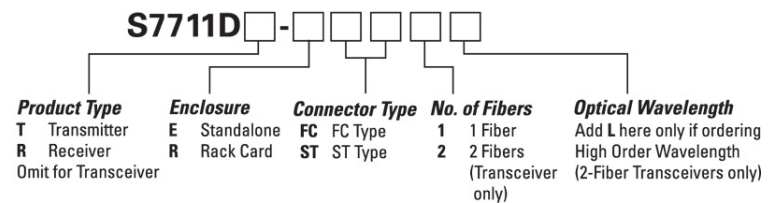- Laser Safety: 21CFR1040, EN60825-1, -2

Mechanical
- Dimensions (LWD), Standalone Units: 5.0" x 2.8" x 1.5" (standalone); 1 slot (1.0") (rack)
- 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.

Product Type	Enclosure	Connector Type	No. of Fibers	Optical Wavelength
T Transmitter	**E** Standalone	**FC** FC Type	**1** 1 Fiber	Add **L** here only if ordering High Order Wavelength (2-Fiber Transceivers only)
R Receiver	**R** Rack Card	**ST** ST Type	**2** 2 Fibers (Transceiver only)	
Omit for Transceiver				