**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, Biphasic, 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
- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN50022
- Immunity: ENV50204, 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” (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.