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S7714D

100Base-T Fast Ethernet Data

Overview

The S7714D fiber link provides two-way transmission of 100Base-T Fast Ethernet data or 10Base-T Ethernet data over distances up to 28 mi (45 km). It combines the benefits of advanced engineering with the highest quality standards in the industry. These links are available as standalone modules or rack cards.

Secure Data Transmission

The S7714D makes it possible to add the security and efficiency of transmission over fiber to local area networks (LANs) and other Ethernet applications.

Superior Diagnostics

The SMARTS™ diagnostic technology provides constant monitoring of the link and the equipment connected to it. The status of the link and the system can be determined at a glance without the use of expensive test equipment. LED displays show transmitter and receiver status and activity. These built-in test functions allow the status of the link to be determined without the need of external test equipment.



Standard Features

- **Two-way data transmission over one or two single-mode fibers**
- **Supports 100Base-T and 10Base-T Ethernet protocols**
- **Switch-selectable crossover**
- **Automatic polarity correction**
- **18 dB optical budget**
- **Optical AGC**
- **SMARTS™ diagnostics**
- **Standalone and rack configurations**

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Specifications

Data

- Channels: 1 duplex
- Formats: 100BaseT Fast Ethernet, 10BaseT Ethernet
- Baud Rate: Compliant with IEEE 802.3
- Bit Error Rate: <1.0E-10

Optical

- Mode: Single Mode
- Optical Budget: 18 dB
- Emitter: Laser
- Wavelength: 1310/1550 nm (depending on model)
- Operating Distance: Up to 11 mi (18 km) (depending on model and the timing characteristics of the input data signal)
- Transmitter Launch Power: >-10 dBm
- Receiver Sensitivity: <-33 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power: 13.5 VDC regulated
- Current Requirement: 300 mA
- Power Consumption: 4.2 W
- Power Factor: 3
- 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

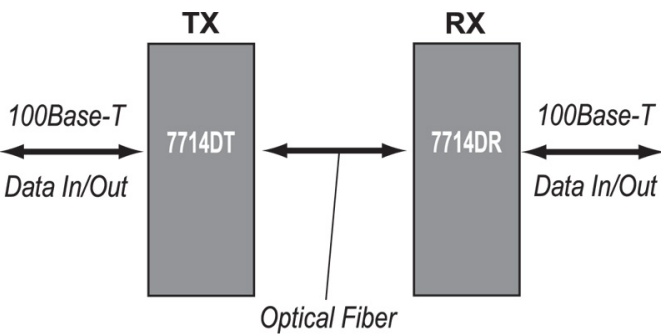
Standards

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

Mechanical

- Dimensions (LWD), Standalone Units: 5.0" x 2.8" x 1.5"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 0.67 lbs (0.31 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.

S7714D				
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	SC SC Type (Transceiver only)	2 2 Fibers (Transceiver only)	
Omit for Transceiver		ST ST Type		



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