

Overview

The S714D and S7714D fiber links provide two-way transmission of 100Base-T Fast Ethernet data or 10Base-T Ethernet data. They combine the benefits of advanced engineering with the highest quality standards in the industry. These links are available as standalone modules or rack cards. The S714D operates over distances up to 11 mi (18 km). The S7714D operates over distances up to 28 mi (45 km). S714D models feature multimode operation, while S7714D models operate over single mode fibers.

Secure Data Transmission

The S714D and S7714D make 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.

Standard Features

- Two-way data transmission over one or two fibers
- Single and multimode models available
- Supports 100Base-T and 10Base-T Ethernet protocols
- Switch-selectable crossover
- Automatic polarity correction
- 18 dB (single mode) or 13 dB (multimode) optical budget
- Optical AGC
- SMARTS™ diagnostics
- Standalone and rack configurations

100Base-T Fast Ethernet Data

S714D and S7714D



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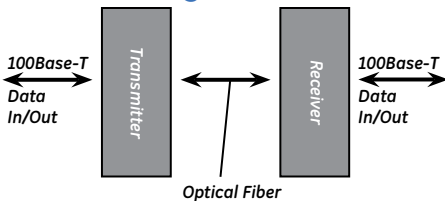
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Specifications

| Data | S714D (Multimode) | S7714D (Single Mode) |
|------------------------------------|---|--------------------------------------|
| Channels | 1 duplex | |
| Formats | 100Base-T Fast Ethernet, 10Base-T Ethernet | |
| Baud Rate | Compliant with IEEE 802.3 | |
| Bit Error Rate | <1.0E-10 | |
| Optical | | |
| Mode | Multimode | Single Mode |
| Optical Budget* | 13 dB | 18 dB |
| Emitter | VCSEL | |
| Wavelength | 850 nm and/or 1300 nm (depending on model) | 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) | Up to 28 mi (45 km) |
| Transmitter Launch Power | >-10 dBm | >-6 dBm |
| Receiver Sensitivity | <-23 dBm | <-24 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 | |
| Optional Power Supply | Model 613P | |
| Environmental | | |
| Operating Temperature | -40 to 167 °F (-40 to 75 °C) | |
| Maximum Humidity | 95% relative, noncondensing | |
| Mechanical | | |
| Dimensions (LWD), Standalone Units | 5.0" x 2.8" x 1.5" (127 x 71 x 38 mm) | |
| Dimensions, Rack Units | 1 slot (1.0") | |
| Weight | Standalone 0.67 lbs (0.31 kg); Rack 0.55 lbs (0.25 kg) | |
| Construction | Polycarbonate (standalone); Aluminum (rack) | |

Related Diagram



AGENCY COMPLIANCE



MADE IN THE USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

Ordering Information

Use the Configurators below to select the options available for these products.

| S714D | | | | | S7714D | | | | |
|---|-----------------------------|--|--|---|---|-----------------------------|--|--|---|
| Product Type | Enclosure | Connector Type | No. of Fibers | Optical Wavelength | Product Type | Enclosure | Connector Type | No. of Fibers | Optical Wavelength |
| T Transmitter R Receiver Omit for Transceiver | E Standalone R Rack Card | SC SC Type (Transceiver only) ST ST Type | 1 1 Fiber (Transmitter and Receiver only) 2 2 Fibers (Transceiver only) | Add L here only if ordering High Order Wavelength (2-Fiber Transceivers only) | T Transmitter R Receiver Omit for Transceiver | E Standalone R Rack Card | FC FC Type SC SC Type (Transceiver only) ST ST Type | 1 1 Fiber (Transmitter and Receiver only) 2 2 Fibers (Transceiver only) | Add L here only if ordering High Order Wavelength (2-Fiber Transceivers only) |

* Optical Budget based on 62.5 μm fiber, for 50/125 μm fiber subtract 3 dB.

** Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. TB00-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
S714D-2006-09-2