

Overview

The IFS DE7300 Series Gigabit Ethernet 3-port transceiver is designed to transmit and receive 1000 Mbps data over fiber or 10/100/1000 Mbps data over CAT5e electrical cable. It is available in any combination of electrical or optical ports. The DE7300 is environmentally hardened to operate in extreme temperatures. Loss of optical link contact closure for remote alarm sensing. Status indicating LEDs for power and data activity are present at the RJ-45 connector. At the fiber optic transceiver end, link and data LEDs provide operational status. Plug-and-play design ensures ease of installation, requiring no optical adjustments. The modules are available in stand-alone only.

Application Examples

- 10/100/1000 Mbps Ethernet
- High Speed Computer Links

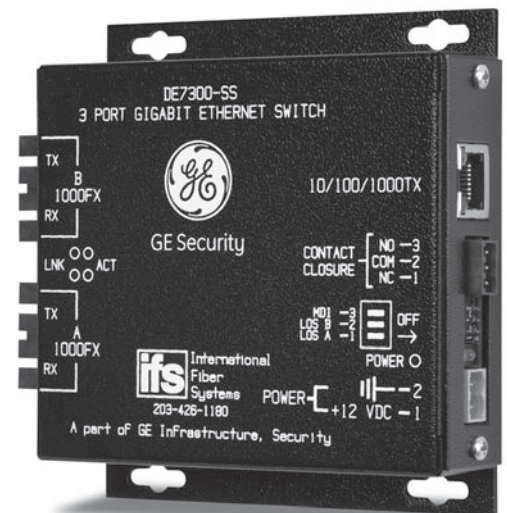
10/100/1000 Mbps Gigabit Ethernet 3 Port Switch

Transmits and receives 1000 Mbps data over multimode, single mode, optical fiber, or 10/100/1000 Mbps data over CAT5e electrical cable.



Standard Features

- 10/100/1000 Mbps Ethernet
 - 10/100/1000 BASE-T Electrical Port
 - 1000 BASE-FX Optical Port
 - Full Duplex or Half Duplex
 - Auto MDI/MDI-X
- Distances up to 30 km (18 miles)
- Designed to Meet Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Multimode and Single Mode Versions Available
- SC Optical Connectors Standard
- No In-field Optical Adjustments Required
- Power, Transmit and Receive Data Status LED Indicators
- Loss of Optical Link Contact Closure
- IEEE 802.3 Compliant
- Comprehensive Lifetime Warranty



GE Security

North America
 T 888-GE-SECURITY
 888-437-3287
 F 503-691-7566
 E sales@ifs.com

Asia
 T 852-2907-8108
 F 852-2142-5063

Australia and New Zealand
 T 613-9239-1200
 F 613-9239-1299

Europe
 T 32-2-719-9847
 F 32-2-719-9846

Latin America
 T 305-593-4301
 F 305-593-4300

gesecurity.com/ifs

Specifications subject to change without notice

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Specifications

Data	
Data Interface:	Ethernet
Data Rate:	10/100/1000 Mbps, IEEE 802.3 Compliant
Operating Mode:	Full Duplex or Half Duplex
Wavelength	
DE7300-MM, ME, M3:	850 nm, Multimode
DE7300-MS:	850 nm, Multimode/1310 nm, Single Mode
DE7300-SS, SE, S3:	1310 nm, Single Mode
Number of fibers	
	2, 4, 6
Connectors	
Power:	Terminal Block with Screw Clamps
Optical:	SC
Data:	RJ-45
Electrical & Mechanical	
Power:	
Surface Mount:	12 VDC @ 600 mA, 24 VDC @ 300 mA
Voltage Regulation:	Solid-State; independent on each board
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	4.0 x 3.5 x 1.0 in., 10.2 x 8.9 x 2.5 cm
Shipping Weight:	< 2 lbs./0.9 kg
Environmental	
MTBF:	> 100,000 hours
Operating Temp:	-40° C to +74° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

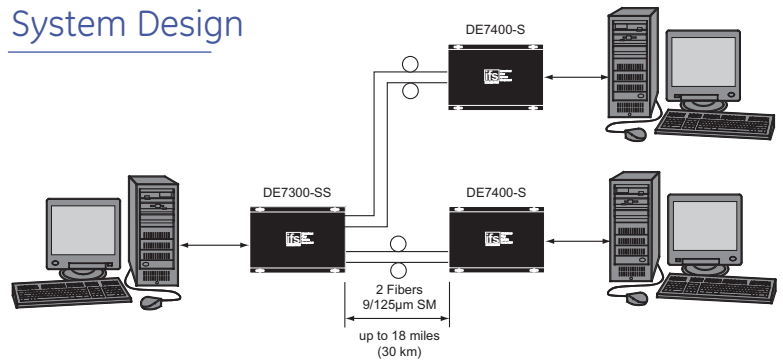
Agency compliance



Made in the USA

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

System Design



Ordering Information

	Part Number	Description	Fibers Required	Opt. Pwr. Budget	Max. Distance*
Electrical	DE7300-EE	10/100/1000 Mbps Ethernet	N/A	N/A	10/100 Mbps 328 ft. (100 m) 1000 Mbps 33 ft. (10 m)
Multimode	DE7300-MM	1000 Mbps Ethernet (850 nm)	4	8 dB	0.3 miles (500 m)
62.5/125µm**	DE7300-ME		2		
	DE7300-M3		6		
MM/SM	DE7300-MS	1000 Mbps Ethernet (850/1310 nm)	4	8 dB	0.3 miles (500 m) MM 15 miles (24 km) SM
Single Mode	DE7300-SS	1000 Mbps Ethernet (1310 nm)	4	10 dB	18 miles (30 km)
	DE7300-SE		2		
	DE7300-S3		6		
Accessories*	PS-12VDC 12 Volt DC Plug-in Power Supply (Included) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
Options	Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

* Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. ** For 50/125 Fiber, subtract 4 dB from Optical Power Budget. *All accessories are third party manufactured.

