DE7400 Series

IFS 10/100/1000 Mbps Gigabit Ethernet 2-Port Transceiver

OVERVIEW

The IFS DE7400 Series Gigabit Ethernet 2-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 DE7400 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.
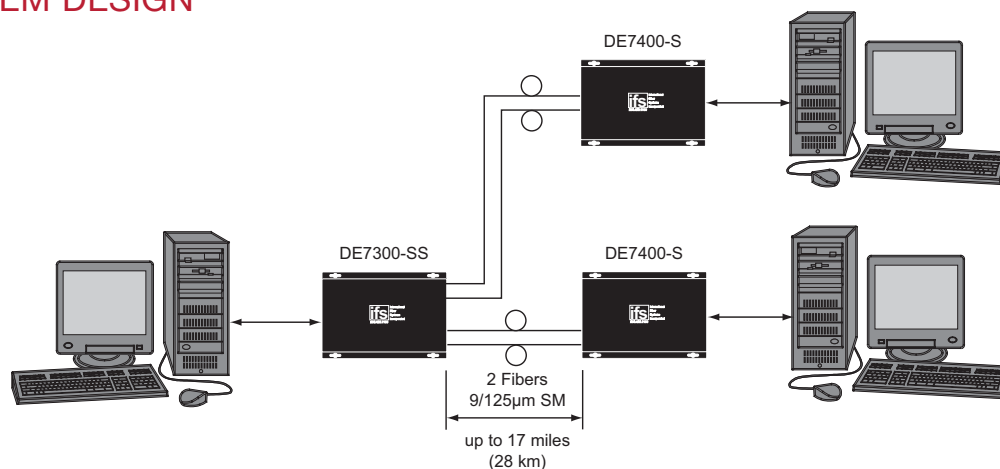
APPLICATION EXAMPLES

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

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
• 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

SYSTEM DESIGN

DE7400-S

DE7300-SS   DE7400-S

2 Fibers
9/125µm SM

up to 17 miles
(28 km)

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Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	DE7400-MM	1000 Mbps Ethernet (850 nm)	4	8 dB	0.3 miles (500 m)
	DE7400-M	1000 Mbps Ethernet (850 nm)	2	8 dB	0.3 miles (500 m)
Single Mode 9/125µm	DE7400-SS	1000 Mbps Ethernet (1310 nm)	4	10 dB	18 miles (30 km)
	DE7400-S	1000 Mbps Ethernet (1310 nm)	2	10 dB	18 miles (30 km)
Accessories ♦	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			

*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.

Specifications

Data

Data Interface:	Ethernet
Data Rate:	10/100/1000 Mbps, IEEE 802.3 Compliant
Operating Mode:	Full Duplex of Half Duplex

Wavelength

DE7400-MM, M:	850 nm, Multimode
DE7400-SS, S:	1310 nm, Single Mode

Number Of Fibers

	2, 4

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
Rack Mount	From Rack
Number of rack Slots:	2
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 2.0 in., 10.2 x 8.9 x 5.0 cm
Rack Mount:	7.7 x 5.0 x 2.0 in., 19.6 x 12.7 x 5.0 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)

Agency Compliance

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

FCC PART 15 COMPLIANT ⟨CE⟩ c⟨UL⟩us

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Specifications subject to change without notice.

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