

D7400 Series

IFS Hardened 4 Port 10/100 Mbps Ethernet Managed Switch



OVERVIEW

The IFS D7400 Series Ethernet transceivers provide drop-and-repeat transmission of 10/100 Mbps Ethernet data signals over one or two optical fibers. The transceivers feature 4 electrical and 2 optical ports for drop-and-repeat capability that allows the user to easily configure the network operation. The 4 electrical ports are capable of connecting at 10/100 Mbps Ethernet data 802.3 protocol using auto-negotiating and auto-MDI/MDIX features. The IFS D7400 transceivers are compatible with the IFS D7100 Series single port transceivers. Models within this series are available for use with multimode or single mode optical fiber and are compatible with standard 100-FX networks. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and link status indicating LED's for monitoring proper system operation. In addition, 2 continuously active contact closure relays are available to activate an external audible or visual warning signal in the event of a fiber break or loss of power. The modules are available in either stand-alone or rack mount.

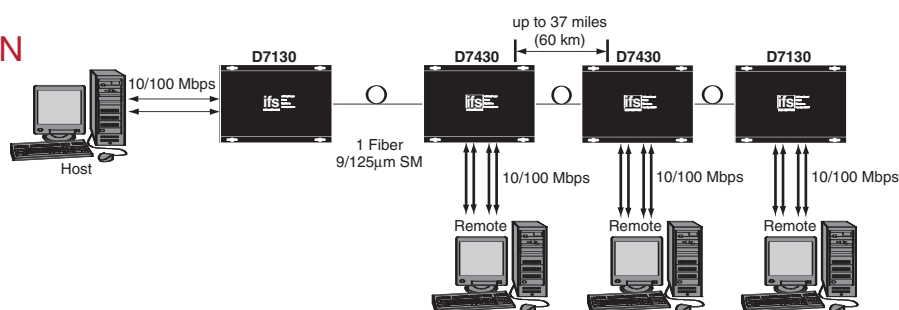
APPLICATION EXAMPLES

- Outdoor Traffic Management Control
 - Intra-City and Inter-City Traffic Management
- Industrial and Factory Automation
- High-Speed Computer Links
 - High-Speed Data Transmission
- CCTV

STANDARD FEATURES

- 10/100 Mbps Ethernet
 - Auto-Negotiating
 - 10/100 Selectable
- Auto Network Detection MDI/MDI-X
- Relay Output for Network Communication Failure Notification
- Power, Transmit and Receive Data Status LED Indicators
- Tested and Certified by an Independent Testing Laboratory for 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 Singlemode Versions Available
- IEEE 802.3 Compliant
- NTCIP Compatible
- No In-field Electrical or Optical Adjustments Required
- ST Optical Connectors Standard
- Hot-Swappable Rack Modules
- Distances up to 60 km (37 miles)
- Comprehensive Lifetime Warranty

SYSTEM DESIGN



D7400 Series

North America T 855-286-8889 Latin America T 561-998-6114

IFS Hardened 4 Port 10/100 Mbps Ethernet Managed Switch

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	D7420	4 Port Ethernet Drop & Repeat (1310 nm)	2 In/2 Out	10 dB	6 miles (10 km)
	D7420WDM	4 Port Ethernet Drop & Repeat (1310/1550 nm)	1 In/1 Out	10 dB	6 miles (10 km)
Single Mode 9/125µm	D7430WDM	4 Port Ethernet Drop & Repeat (1310/1550 nm)	1 In/1 Out	20 dB	37 miles (60 km)
Accessories □	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
Options	Add '-R3' to Model Number for R3 Rack Mount (Requires R3 Rack purchased separately)				

*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 Mbps
	IEEE 802.3 Compliant
Number of Inputs:	4

Wavelength

D7420	1310 nm
D7420WDM	1310/1550 nm (1550/1310 nm)
D7430WDM	1310/1550 nm (1550/1310 nm)

Number Of Fibers

	1 or 2
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Connectors

Optical:	ST
Power:	Terminal Block with Screw Clamps
Data:	RJ-45

Electrical & Mechanical

Power:	12 VDC @ 800 mA
Number of Rack Slots:	3
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:	7.0 x 4.9 x 2.0 in., 17.8 x 12.5 x 5.1 cm
Rack Mount:	7.7 x 5.0 x 3.0 in., 19.6 x 12.7 x 7.6 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



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Specifications subject to change without notice.

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