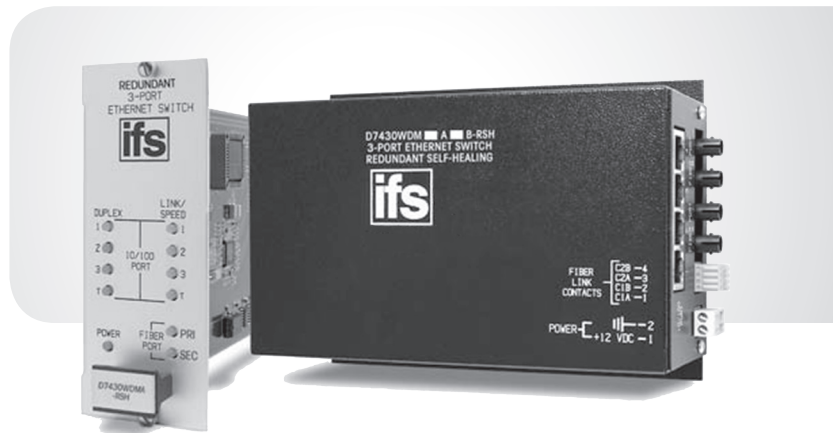


# D7400RSH Series

IFS Hardened 3 Port 10/100 Mbps Ethernet Redundant Self-healing



## OVERVIEW

The IFS D7400RSH Series Ethernet transceivers provide transmission of (3) 10/100 Mbps Ethernet data signals in a redundant, self-healing ring network architecture utilizing one optical fiber. The transceivers feature 3 electrical and 2 optical ports and can be configured in a redundant self-healing capacity that allows the user to easily configure a network that is highly reliable. The 3 electrical ports are capable of connecting at 10/100 Mbps Ethernet data 802.3 protocol using auto-negotiating and auto-MDI/MDI-X features. 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.

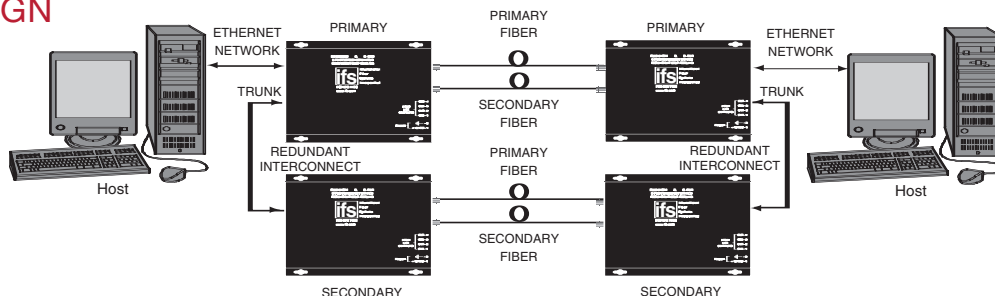
## APPLICATION EXAMPLES

- 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
- No In-field Electrical or Optical Adjustments Required
- Auto Network Detection MDI/MDI-X
- Relay Output for Network Communication Failure Notification
- Power, Transmit and Receive Data Status LED Indicators
- Multimode and Single mode Versions Available
- 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.
- Distances up to 60km (37 miles)
- ST Optical Connectors Standard
- Hot-Swappable Rack Modules
- IEEE 802.3 Compliant
- Comprehensive Lifetime Warranty

## SYSTEM DESIGN



# D7400RSH Series

North America  
T 855-286-8889

Latin America  
T 561-998-6114

IFS Hardened 3 Port 10/100 Mbps Ethernet Redundant Self-healing

## Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	D7420WDMA-RSH ⇄	3 Port Ethernet (1310/1550 nm)	1 In/1 Out	10 dB	6 miles (10 km)
	D7420WDMB-RSH	3 Port Ethernet (1550/1310 nm)	1 In/1 Out	10 dB	6 miles (10 km)
Single Mode 9/125µm	D7430WDMA-RSH ⇄	3 Port Ethernet (1310/1550 nm)	1 In/1 Out	20 dB	37 miles (60 km)
	D7430WDMB-RSH	3 Port Ethernet (1550/1310 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. ⇄ WDMA must mate with a WDMB

## Specifications

### Data

Data Interface:	Ethernet
Data Rate:	10/100 Mbps
	IEEE 802.3 Compliant
Number of Inputs:	3

### Wavelength

D7420WDMA-RSH	1310/1550 nm
D7420WDMB-RSH	1550/1310 nm
D7430WDMA-RSH	1310/1550 nm
D7430WDMB-RSH	1550/1310 nm

### Number Of Fibers

	1
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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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