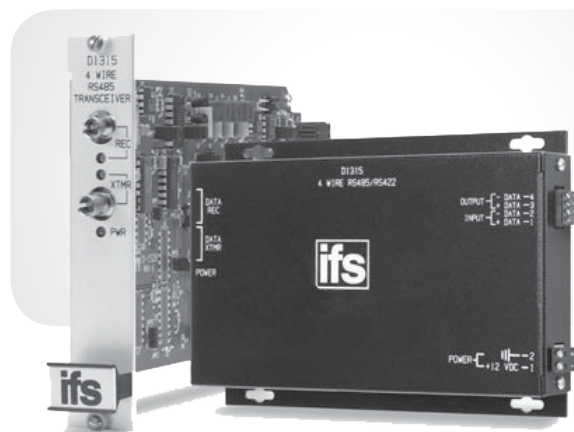


D1315 Series

IFS RS-485 (4-wire) Point-to-Point Data Transceivers



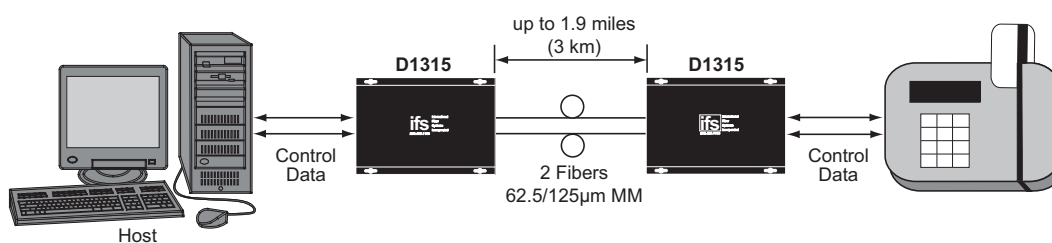
OVERVIEW

The IFS D1315 Series data transceivers provide point-to-point transmission of full-duplex (4-wire) EIA RS-485 tri-state data signals over two optical fibers. The transceivers are transparent to data encoding allowing for broad-range compatibility. When used as a line terminating device, these modules are also compatible with the IFS D2315 Series drop and repeat data transceivers. Models within this series are available for use with multimode or singlemode optical fiber. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and transmit/received at a status indicating LED's for monitoring proper system operation. The modules are available in either stand-alone or rack mount versions.

APPLICATION EXAMPLES

- Access Control Systems
- Building Automation and Environmental Control Systems
- Computer/Data Equipment
- Fire & Alarm Systems
- ITS Traffic Signalization Networks

SYSTEM DESIGN



STANDARD FEATURES

- Meets EIA RS-485 Specifications
- 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 NEMATS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Automatic Resettable Solid-State Current Limiters
- Power, Transmit and Receive Data Status LED Indicators
- No In-field Electrical or Optical Adjustments Required
- Data rates up to 200 kbps NRZ
- Data Re-clocking
- Transparent to Data Encoding/Compatible with Major Data Protocols
- Drop and Repeat Network Architecture
- 2-Wire (Half-Duplex)
- True Tri-State Output
- Distances up to 25 Miles (40km)
- Comprehensive Lifetime Warranty

D1315 Series

IFS RS-485 (4-wire) Point-to-Point Data Transceivers

North America
T 855-286-8889

Latin America
T 561-998-6114

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	D1315	RS-485 Data Transceiver (850 nm)	2	11 dB	1.9 miles (3 km)
	D1315WDMA	RS-485 Data Transceiver (850 nm)	1	11 dB	1.9 miles (3 km)
	D1315WDMB	RS-485 Data Transceiver (1310 nm)	1	11 dB	1.9 miles (3 km)
Single Mode 9/125µm	D1315-SM	RS-485 Data Transceiver (1310 nm)	2	11 dB	25 miles (40 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 - No Charge (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:	RS-485 (4-wire)
Data Rate:	DC - 200 Kbps*
Total Network Pulse Distortion:	< 1µs

Wavelength

D1315:	850 nm, Multimode
All others:	1310 nm, Multimode or Single Mode

Number Of Fibers

	1 or 2
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Connectors

Data and Power:	Terminal Block with Screw Clamps
Optical:	ST

Electrical & Mechanical

Power:	
Surface Mount:	12 VAC @ 200 mA
Rack:	From Rack
Number of Rack Slots:	1
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 1.0 in., 17.8 x 12.5 x 2.5 cm
Rack Mount:	7.0 x 4.9 x 1.0 in., 17.8 x 12.5 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)

Agency Compliance

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



interlogix.com

Specifications subject to change without notice.

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D1315 Series