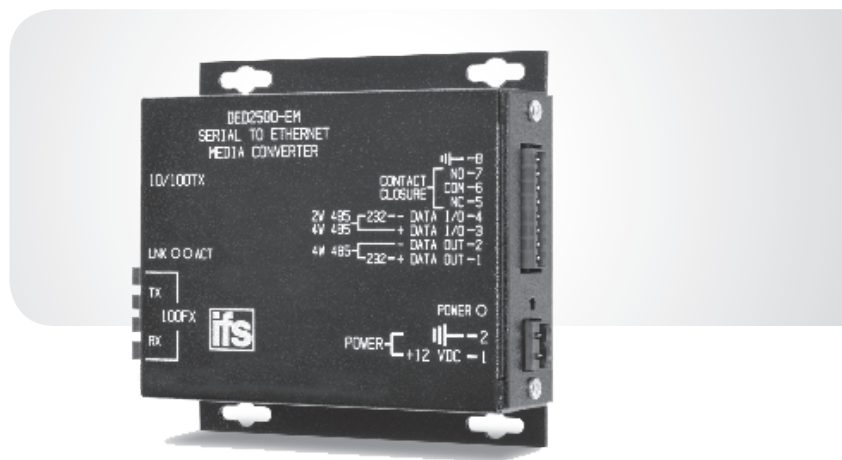


DED2500 Series

IFS Universal Ethernet Bi-Directional Data Transceiver



OVERVIEW

The IFS DED2500 Series data transceiver supports bi-directional data transmission over multimode, single mode optical fiber, or electrical. The modules are compatible with RS-232, and 2-wire or 4-wire RS-485 data interfaces and all major data protocols. The unit converts common standard serial data to Ethernet data to be transported over Ethernet networks. Web based configuration ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates status indicating LED's for monitoring of proper system operation. The modules are available in stand-alone only.

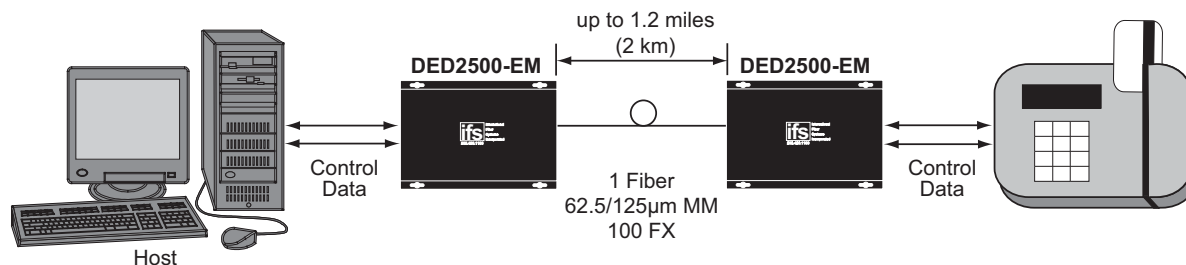
STANDARD FEATURES

- Digitally Encoded Data Transceiver
- Supports RS-232, or RS-485 (2-wire or 4-wire) Data Interfaces
- Data Rates to 115,200 bps
- Web Based Configuration
- No In-field Electrical or Optical Adjustments Required
- LED Status Indicators For Monitoring All Critical Operating Parameters
- Automatic Resettable Fuses on all Power Lines
- Distances up to 28 Miles (45km)
- Comprehensive Lifetime Warranty

APPLICATION EXAMPLES

- Data Control Over Ethernet
- Data Conversion

SYSTEM DESIGN



DED2500 Series

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

IFS Universal Ethernet Bi-Directional Data Transceiver

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Electrical	DED2500-E	10/100 Mbps Ethernet	N/A	N/A	1000 ft. (300 m)
Multimode 62.5/125µm**	DED2500-EM	Data Transceiver (1310 nm)	2	13 dB	1.2 miles (2 km)
Single Mode 9/125µm	DED2500-ES	1000 Mbps Ethernet (1310 nm)	4	15 dB	28 miles (45 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:	RS-232, RS-422, 2 and 4 wire RS-485 with Tri-State
Data Format:	7-8 Bit Data, Parity, Stop Bit Selectable
Data Rate:	9,600 - 115,200 bps
Bit Error Rate:	<1 in 10 ⁹ @ Maximum Optical Loss Budget
Operating Mode:	Simplex or Full-Duplex

Wavelength

1310 nm, Multimode or Single Mode

Opticalemitter

LED

Number Of Fibers

2

Connectors

Power:	Terminal Block with Screw Clamps
Optical:	ST

Electrical & Mechanical

Power:	
Surface Mount:	12 VDC @ 300 mA
Rack:	From Rack
Number of Rack Slots:	3
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	4.18 x 3.96 x 1.0 in., 10.62 x 10.06 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



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Specifications subject to change without notice.

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DED2500 Series