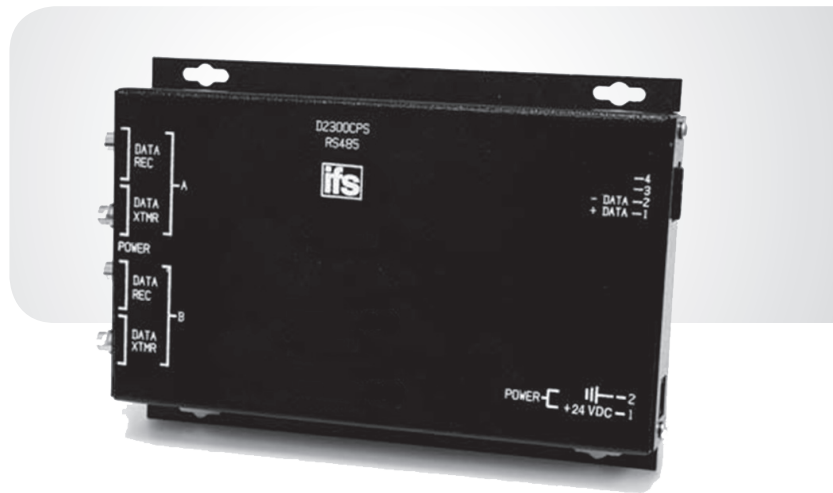# D2300CPS Series

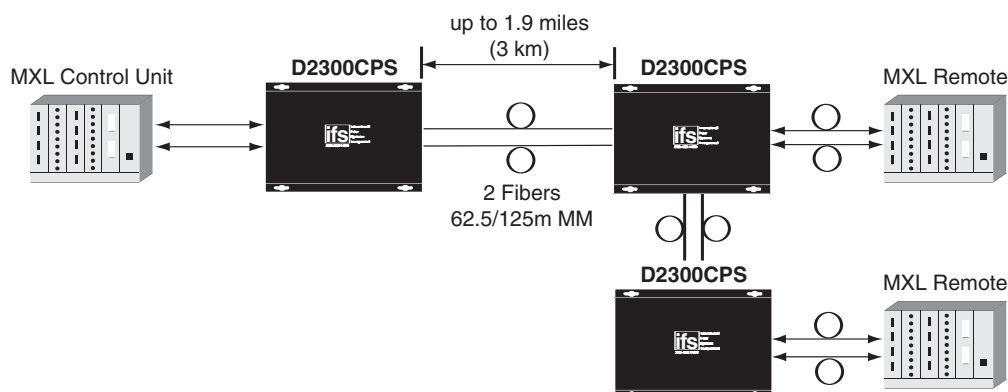IFS RS-485 Siemens Cerberus Pyrotronics Repeater

OVERVIEW

The IFS D2300CPS Series data transceiver is designed for full compatibility with a Cerberus Pyrotronics MXL network and CXL modem link. The module is UL listed for use in signal system control unit and burglar alarms unit subassemblies. The transceivers provide "drop & repeat" data transmission of EIARS-485 data signals over two optical fibers. The module is powered by the 24VDC power supply within the Siemens Cerberus Pyrotronics panel. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and transmit/receive data status indicating LED's for monitoring proper system operation. The modules are available in stand-alone version only.

APPLICATION EXAMPLES

- Siemens Cerberus Pyrotronics
- MXL Network (RS-485)
- CXL Modem Link (FSK)

STANDARD FEATURES

- MXL Network (RS-485)
- CXL Modem Link (FSK)
- Data Re-clocking
- Drop and Repeat Network Architecture
- Automatic Resettable Solid-State Current Limiters
- 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.
- No In-field Electrical or Optical Adjustments Required
- Power, Transmit and Receive Data Status LED Indicators
- Data rates up to 200 kbps
- Distances up to 25 Miles (40 km)
- Comprehensive Lifetime Warranty

SYSTEM DESIGN

MXL Control Unit — D2300CPS — up to 1.9 miles (3 km) — D2300CPS — MXL Remote

2 Fibers 62.5/125m MM

D2300CPS — MXL Remote

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D2300CPS Series
IFS RS-485 Siemens Cerberus Pyrotronics Repeater

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	D2300CPS	RS-485, 2-Wire Repeater (850 nm)	2 In/2 Out	10 dB	1.9 miles (3 km)
	D2320CPS	RS-485, 2-Wire Repeater (1310 nm)	2 In/2 Out	10 dB	6 miles (10 km)
Single Mode 9/125µm	D2325CPS	RS-485, 2-Wire Repeater (1310 nm)	2 In/2 Out	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)			

*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

MXL Network	
Data Interface:	RS-485 (CSMA/CD)
Data Rate:	19.2 kbps
CXL Modem Link	Cerberus Pyrotronics,MXL Network (RS-485), CXL Modem Link (FSK)
Total network	Up to 25 miles (40Km)
Pulse Distortion:	< 1µs

Wavelength

	850 nm, Multimode
	1310 nm, Multimode or Single Mode

Number Of Fibers

	2 In/2 Out

Connectors

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

Electrical & Mechanical

Power:	12VDC @ 100mA or 24VAC @ 50mA
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
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.