

Overview

The IFS D1200 series data transceivers provide point-to-point transmission of simplex or duplex T1, E1 (CCITT) data signals over two optical fibers. 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, carrier detect and transmit/receive data status indicating LED's for monitoring proper system operation. The modules are available in either stand-alone or rack mount versions.

Application Examples

- E1/T1 Multiplexed Telephony Systems
- Emergency Phone Stations
- Computer/Data Equipment
- ITS Traffic Signalization Networks

Standard Features

- Supports T1, E1 (CCITT) Data
- Transparent to AMI and Zero Code Suppression Encoding Schemes
- Data Rates up to 2.048 Mbps
- No In-field Electrical or Optical Adjustments Required
- Power, Carrier Detect, 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.
- Point-to-Point Network Architecture
- Automatic Resettable Solid-State Current Limiters
- Hot-Swappable Rack Modules
- Distances up to 43 Miles (69 km)
- Comprehensive Lifetime Warranty

T1, E1 (CCITT) Transceiver

Provides point-to-point transmission of simplex or duplex T1, E1 (CCITT) data signals over two optical fibers.



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Specifications subject to
 change without notice

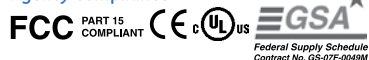
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Specifications

Data	
Data Interface:	T1, E1 (CCITT)
Data Rate:	DC to 2.048 Mbps, Transparent to zero suppression code
Impedance (T1):	100 ohms (twisted pair)
Impedance (E1):	120 ohms (twisted pair)
Wavelength	
D1210:	850 nm, MM
D1220:	1310 nm, MM
D1225, D1230:	1310 nm, SM
Number Of Fibers	
	2
Connectors	
Optical:	ST
Data and Power:	Terminal Block with Screw Clamps
Electrical & Mechanical	
Power:	24 VAC CT @ 250 mA
Surface Mount:	From Rack
Rack:	1
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 4.8 x 1.0 in., 17.8 x 12.2 x 2.5 cm
Rack Mount:	7.0 x 4.9 x 2.0 in., 17.8 x 12.5 x 5.0 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)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

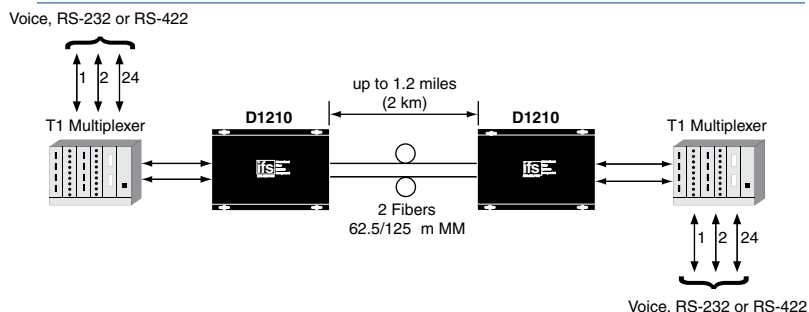
Agency compliance



Made in the USA

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

System Design



Ordering Information

	Part Number	Description	Fibers Required	Opt. Pwr. Budget	Max. Distance*
Multimode	D1210	T1/E1 Compatible Data Link, LED (850 nm)	2	13 dB	1.2 miles (2 km)
62.5/125µm**	D1220	T1/E1 Compatible Data Link, LED (1310 nm)			8 miles (13 km)
Single Mode	D1225	T1/E1 Compatible Data Link, LED (1310 nm)	2	14 dB	25 miles (40 km)
9/125µm	D1230	T1/E1 Compatible Data Link, Laser (1310 nm)		23 dB	43 miles (69 km)

Accessories ♦ PS-24ACCT 24 VAC C.T. Transformer Included

Options Add '-24' for 24 VDC Power (Extra charge, consult factory)
 Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)
 Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)

*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. v WDMA must mate with a WDMB

