UNIVERSAL DATA   DX-7001

Point-to-Point or Drop-and-Repeat Applications

The *LuxLink*® DX-7001 is a data transceiver designed to transmit and receive RS-232, RS-422, RS-485 (2 wire or 4 wire) or TTL signals in a wide range of diverse applications. The unit is designed to operate in simplex, full duplex or drop-and-repeat modes and can easily be user configured for a single protocol or for mixed protocol operation. The DX-7001 will operate continuously at all data rates from DC to 10 Mb/sec.

Both multimode and single-mode versions are available and installation is totally adjustment free. In addition, integral indicators are provided to continuously indicate the presence of data signals as well as the presence of operating power making system troubleshooting simple.

Technical Specifications   Important Features

Data Transmission Rate	DC to 10 Mb/s (RS-232 DC-1Mb/s)
Operating Modes	Simplex, Duplex, Drop-and-Repeat, RTS or Data Derived T/R
Protocols Supported	RS-232, RS-422, RS-485 (2 and 4 wire), TTL
Rise/Fall Times (typ.)	100 nsec, RS-232, 1.0 usec
Propagation delay RS-422	0.1 usec
Propagation delay RS-232	1.5 usec, +/- 12ns
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-15 dB (multimode) 0-18 dB (single-mode)
Optical Connectors	ST (multimode) FCPC (single-mode)
Signal Connector	Removable Terminal Block
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power Requirements**	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0" H (127) x 1.0"W (25.4) x 3.0" L(76)

Note that all specifications are subject to change without prior notice.

Important Features

- *DC to 10Mb/s Data Rate*

- *Fully Adjustment Free*

- *Data Signal & Power Indicators*

- *Stand-alone, DIN or Rack Mountable (same unit)*

Ordering Information

Transceiver, DX-7001-X

"X" = Wavelength/Fiber

-1 = 850nm Multimode
-3 = 1310nm Multimode
-7 = 1310nm Single-mode
-9 = 1550nm Single-mode

**For stand-alone operation order a PS-1205 power supply for each unit.

**For rack mounted operation all operating power is provided by the power supply used with the rack panel.

Typical Universal Data Applications

DX-7001   DX-7001   DX-7001   DX-7001   DX-7001

R T   R T   R T   R T   R T

Data   Data   Data   Data   Data

Fiber Optic Cables   Fiber Optic Cables

Point-to-Point Datalink   **Loop type data bus system**

LuxLink®
Fiber Optic Transmission Systems

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