

High Speed CAN Bus Fiber Optic Repeater

DX-7601

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

The **LuxLink®** DX-7601 is a CAN Bus repeater system designed to extend high speed CAN (Controller Area Network, ISO-11898-2) signals onto fiber optic cables, providing RFI as well as electrical isolation. This CAN bus repeater supports the following CAN-based higher level protocols: CAL*, CAN Kingdom*, CANOpen*, DeviceNet*, Smart Distributed Systems (SDS)*.

Both multimode and single-mode fiber 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. For ISO-11898-3 (ISO-11519) or SAE-J2411 please contact us.



Technical Specifications

Important Features

Note that Link distance can be limited by signaling rate as specified by the CAN specification due to bus arbitration. See the DX-7601 manual for further details.

* These are registered trademarks of other companies and are used only for explanation and to the owners benefit.

Data Rate	10 Kb/s to 1 Mb/s
Protocol Supported	CAN (ISO-11898-2)
System Delay	<2 microseconds
Isolation	>3K Volts
Indicators	Pwr, Alm, Rx, Tx
Operating Wavelength	850nm, 1310nm or 1550nm
Optical Loss Budget	0-10 dB (multimode) 0-10 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 217)	>120,000 hours
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0"(127)x3.0"(76)x1.0"(25.4)

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

- **10 Kb/s to 1 Mb/s Data Rate**

- **Adjustment Free**

- **Data Signal & Power Indicators**

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

Ordering Information

Transceiver, DX-7601-X

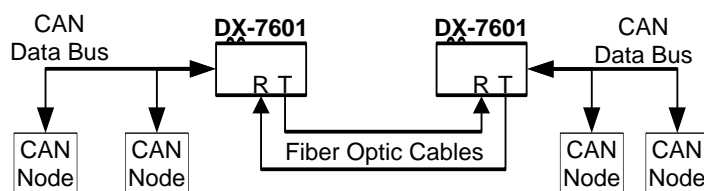
"X" = Wavelength/Fiber

-1 = 850nm Multimode
-3 = 1310nm Multimode
-7 = 1310nm 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 CAN Fiber Modem Applications



LuxLink®
Fiber Optic Transmission Systems

www.LuxLink.com
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