

## 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<sup>1</sup> high speed CAN (Controller Area Network, ISO-11898-2) signals onto fiber optic cables, providing RFI & electrical isolation. This CAN bus repeater supports the CAN-based higher level protocols, eg CAL<sup>2</sup>, CAN Kingdom<sup>2</sup>, CANOpen<sup>2</sup>, DeviceNet<sup>2</sup>, Smart Distributed Systems (SDS)<sup>2</sup>.

Both multi-mode 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

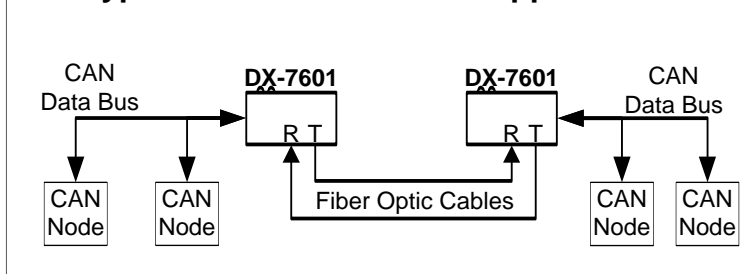
Data Transmission Rate	10 Kb/s to 1 Mb/s
Protocols Supported	CAN (ISO-11898-2)
Isolation	>3 KV
Indicators	Tx, Rx, Power
Operating Wavelength	850, 1310 or 1550nm
Optical Output Power (typ.)	-14dBm (multimode) -10 dBm (single-mode)
Optical Loss Budget	0-10 dB (multimode) 0-10 dB (single-mode)
Optical Connectors	ST (multimode) FCPC (single-mode)
Signal Connector	Removable Terminal Block
Operating Temperature	-35° to +75°C
Power Requirements*	10-24 VAC/DC @150 mA
Physical Size (mm)	5.0" (127) x 3.0" (76) x 1.0" (25.4)

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

### Important Features

- **10 Kb/s to 1 Mb/s Data Rate**
- **Adjustment Free**
- **Data Signal & Power Indicators**
- **Stand-alone or Rack Mountable (same unit)**

### Typical CAN Fiber Modem Applications



### 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.

1) Link distance can be limited by signaling rate as specified by the CAN specification due to bus arbitration. See the manual on web site for further details.  
2) Registered trademarks of other companies and are used only for explanation and to the owners benefit.