

MIL-1553 Bus Monitoring System

DT/DR-7701

MIL-1553 Transmission System Data

The **LuxLink®** DT/DR-7701 system consists of the DT-7701 transmitter and DR-7701 receiver. Both utilize intensity modulation (IM) to transmit all voltages present on a MIL-STD-1553 bus for monitoring and diagnostic purposes. All voltages present on the bus from 0 to 5 volts are linearly transmitted allowing noise, hum and other undesirable analog and digital signals to be observed. Voltages from 5 to 20 volts are compressed but still transmitted for monitoring purposes.

Both multimode and single-mode fiber optic versions are available. Integral indicators are provided on both units to continuously indicate the presence of repetitive signals as well as the presence of operating power making system troubleshooting simple.



Technical Specifications

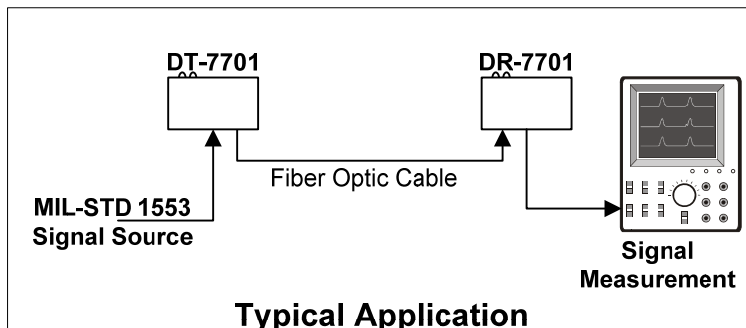
Important Feature

System Bandwidth (min.)	20 Hz to 10 MHz
Input / Output Impedance	3000 ohms/50 ohms
Input/Output Coupling Method	Transformer
Input / Output Signal Level*	0 to 20 Volts pp
Linear Range*	0 to 5 Volts pp
Signal/Noise Ratio	60 dB minimum
Phase Shift	3.0° maximum
Linearity	3.0% maximum
System Delay	25ns + 1 ns/foot of fiber
Optical Loss Budget	0 – 10 dB
Signal Connectors	BJ-77
Optical Connectors	ST (multimode)
Power Requirements	12 to 24 Volts DC @ 500 mA
Operating temperature	-35° to +75° C
Physical Size (mm)	5.0" x 3.0 x 1.0" (127) x (76) x (25.4) mm

- **10 MHz signal bandwidth**
- **Linear Pure Analog Transmission**
- **Transformer Coupled Input and Output**
- **Signal and Power Indicators**
- **Multimode and Single-mode versions**
- **Stand-alone, DIN or Rack Mountable (same unit)**

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

* Voltage from 0 to 5 volts are transmitted linearly. Voltages from 5 to 20 volts are compressed but still transmitted for monitoring purposes.



Ordering Information

Transmitter DT-7701-X
Receiver DR-7701-X

"X" = Wavelength/Fiber
-3 = 1310nm Multimode

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

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

Liteway®

Fiber Optic Transmission Systems

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