# **High Speed Data Transmission**

### For Point-to-Point High Speed Data Applications

The *LuxLink*® DT/DR-7301 system consists of the DT-7301 transmitter and DR-7301 receiver. This system is designed to transmit and receive TTL, ECL, or PECL signals in a wide range of diverse applications. The unit can easily be user configured for single-end or differential mode operation. The DT/DR-7301 will operate continuously at all data rates from 1Mb to 200 Mb/sec. An additional benefit of this system is that it can perform protocol conversion.

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.

1 to 200 Mb/s (50Mb/s TTL)

TTL (50 ohm/Hi-Z), ECL,

0.5ns typical, 2.5ns max

35ns typical with 1 meter fiber

1310 nm(-3,-7) or 1550 nm(-9)

Single-ended or differential

1 x 10<sup>-9</sup> (worse case) 3.0 ns maximum

0-15 dB (multimode)

FCPC (single-mode)

<95% non condensing

11-24 VAC/DC @ 210 mA

5.0" H (127) x 3.0" L (76)

-35° to +75°C

>120.000 hours

x 1.0" W (25.4)

**BNC** 

0-18 dB (single-mode) ST (multimode)

PECL. LVTTL

50/50 to 80/20

5.0 ns (ECL)

## **DT/DR-7301**



#### **Technical Specifications**

Data Rate Protocols Supported

Duty Cycle\*
Rise / Fall Time (ECL)
Minimum Pulse Width

Bit Error Rate Jitter

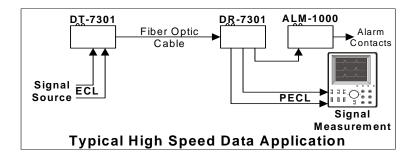
System Delay Operating Modes Operating Wavelength Optical Loss Budget

**Optical Connectors** 

Signal Connectors
Operating Temperature
Operating Humidity
MTBF (per MIL HBK 217)
Power Requirements
Physical Size (mm)

\*The DT/DR-7301 is AC coupled.

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



#### **Important Features**

- 1 Mb 200 Mb/s Data Rate
- Fully Adjustment Free
- TTL, ECL, PECL selectable
- Signal and Power Indicators
- Stand-alone, DIN or Rack Mountable (same unit)

#### **Ordering Information**

Transceiver, DX-7101-X

"X" = Wavelength/Fiber

-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.



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