IRIG Time Code   IRGT / IRGR-1501

For High Quality IRIG Point-to-Point Signal Transmission

The **LuxLink**® IRGT/R-1501 system consists of the IRGT-1501 transmitter and IRGR-1501 receiver. Both units are designed for the transmission of high quality IRIG A through H modulated signals for a multitude of time code applications in accordance with conventional IRIG (and similar) specifications. NASA-36 and IEEE 1344 are also supported. (The system is designed for use with 50 ohm IRIG equipment)
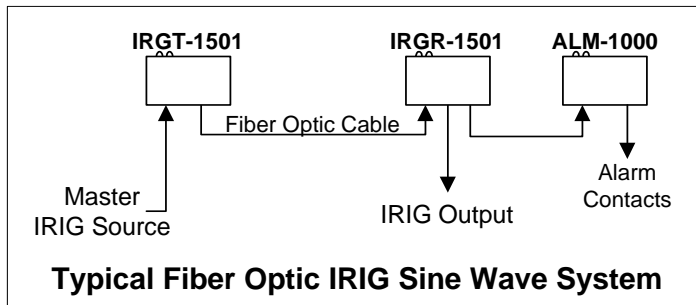
Integral indicators are provided on both units to continuously indicate the presence of IRIG signals as well as the presence of operating power making system troubleshooting simple.

Technical Specifications

Signal Bandwidth	100Hz - 500KHz (+0,-3dB)
Input / Output Impedance	50 ohms
Input / Output Level	3 volts pp maximum
Output Drive Current	60 mA maximum
Protocols	IRIG-A,B,D,E,G,H; NASA36
Signal/Noise Ratio*	60 dB minimum
Linearity	2% typical
System Delay	35ns for 850nm multimode
	16ns for 1310nm single-mode
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-12 dB (multimode or single-mode)
Optical Connectors	ST (multimode)
	FCPC (single-mode)
Signal Connector	BNC
MTBF (MIL-HDBK-217)	>100,000 Hours
Operating Temperature	-35° to +75°C
Relative Humidity	< 95% non-condensing
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0"(127) x 3.0"(76) x 1.0"(25.4)

*Measured with 1Km of 62.5u multimode fiber.
Note that all specifications are subject to change without prior notice.

Important Features

- **12 dB Loss Budget**

- **Signal & Power Indicators**

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

Ordering Information

Transmitter   IRGT-1501-X
Receiver   IRGR-1501-X

Where; "X" = Wavelength/Fiber

-1 = 850nm Multi mode, ST
-3 = 1310nm Multi mode, ST
-7 = 1310nm Single mode, FC
-9 = 1550nm Single mode, FC

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 Fiber Optic IRIG Sine Wave System

LuxLink®
Fiber Optic Transmission Systems

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