

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 signals for a multitude of time code applications in accordance with conventional IRIG (and similar) specifications. NASA-36 and IEEE 1344 are also supported. (For 1 Vpp or 600 Ohm 3Vpp systems see the IRGT/R-1001)

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

Important Features

Signal Bandwidth	100 Hz to 0.5 MHz (+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 multi mode 16ns for 1310nm single mode
Operating Wavelength	850, 1310 or 1550nm
Optical Output Power, (typ)	-15 dBm (multi mode) -15 dBm (single mode)
Optical Loss Budget	0-12 dB (multi mode) 0-12 dB (single mode)
Optical Connectors	ST (multi-mode) FCPC (single-mode)
Signal Connector	BNC
MTBF (MIL-HDBK-217D)	100,000 Hours
Operating Temperature	-35° to +75°C
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.

- **12 dB Loss Budget**
- **Signal & Power Indicators**
- **Stand-alone or Rack Mountable (same unit)**

Ordering Information

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

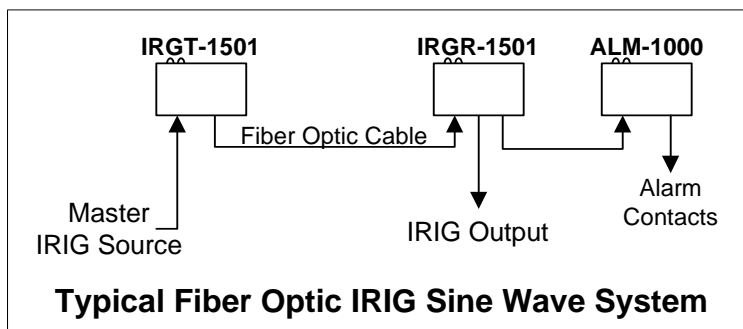
Where;

"X" = Wavelength/Fiber

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

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™

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