Ultra-Wideband Analog Transmission — INST/INSR-1701

For Cost-effective Wideband Analog Applications

The ***LuxLink***® INST/INSR-1701 system consists of the INST-1701 transmitter and INSR-1701 receiver. This link will transmit ultra-wideband analog signals at frequencies up to 1.5 GHz.

Both multimode and single-mode 1310 & 1550 versions are available and installation is adjustment free. 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.

A 1V pp input level version is available as the INST-1721.

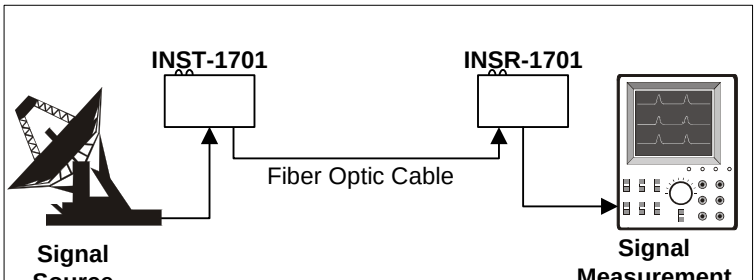
Technical Specifications

System Bandwidth Single-mode	200 KHz -1.5 GHz (+0,-3dB)
System Bandwidth Multimode	200 KHz – 500MHz/Km
Input/Output Impedance	50 Ohms
Input Level	0.1 Volt pp maximum
Output Level	1.0 Volt pp maximum
Signal / Noise Ratio	48 dB min. @ 0 dB loss 28 dB min. @ 10 dB loss
Optical Noise Level (typical)	-23 dBm (5uW) rms
Linearity	3.0% maximum
Phase Shift	3.0° maximum
Rise / Fall time	0.5 ns minimum
Dynamic Range	20 dB usable
Operating Wavelength	1310 nm or 1550 nm
Optical Loss Budget	0-10 dB
Optical Connectors	ST/PC multimode FCPC single-mode
Signal Connectors	BNC
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
Power Requirements	11-24 VAC/DC @350 mA
Physical Size (mm)	5.0”(127)x3.0”(76)x1.0”(25.4)

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

Important Features

- ***1.5 GHz Analog Bandwidth***
- ***Signal/Power Indicators***
- ***Standard Single-mode Fiber Compatibility***
- ***Stand-alone, DIN or Rack Mountable (same unit)***



Typical Wideband Fiber Optic Application

Ordering Information

Transmitter	INST-1701-X
Receiver	INSR-1701-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 power supply used with the rack-mounting panel.

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