



G-Link

gps antenna remoting

GPS ANTENNA REMOTING

UP TO 10 km LINK LENGTH

LOW NOISE

EMI IMMUNITY

LIGHTNING ISOLATION

Linear Photonics G-Link Antenna Remoting Fiber Optic Links provide low noise, long distance GPS signal transfer directly from the GPS Antenna/LNA to the receiver location.

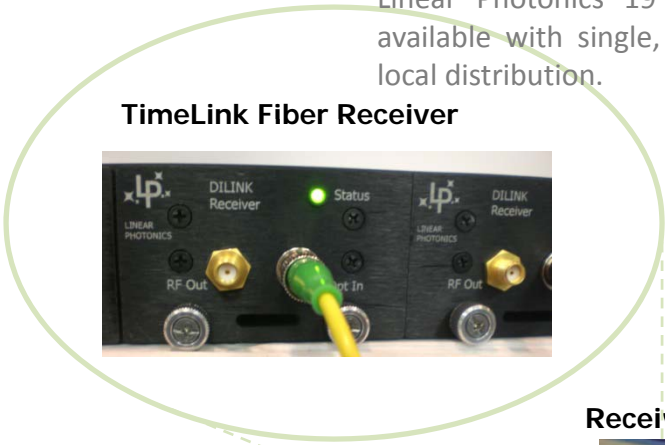
G-Link Transmitters employ Low Noise Distributed Feedback (DFB) Lasers and operate over Single Mode Fiber, providing superior signal integrity and greater link length than can be achieved with coax or multimode fiber. They also provide additional lightning and EMI isolation between the antenna and the control center.

G-Link Transmitters provide 5 V DC output through the input RF port to power the antenna LNA. An optional integrated LNA is also available.

TimeLink GPS Fiber Optic Receivers are available as hot-swappable standard single-wide modules in Linear Photonics 19" IFL Rack platform, and are available with single, dual, or quad RF outputs for local distribution.



GPS antenna / LNA / GPSLink Fiber Transmitter



TimeLink Fiber Receiver

Receiver / Distribution Center



Single-mode Fiber Cable up to 10 km

G-Link consists of a 1000-2000 MHz RF link for the remoting of GPS signals from a receive antenna / LNA.

The Fiber Transmitter is housed in a 5" x 10" x 2.5" environmentally sealed enclosure intended for use in an equipment shed. The unit includes a preamplifier and a bias tee to provide 5V DC power to the receive LNA through the RF cable. It accepts AC power through a standard equipment plug.

The receive end consists of a TimeLink GPS Modular Fiber Optic Receiver. This module plugs into a standard LPL IFL-RACK 19" 1RU rack mount enclosure.

Parameter	Units	Value
RF Frequency Response	MHz	1000 - 2000
Minimum RF Gain (1 km link)	dB	20
Gain Flatness (full band)	dB	± 1
Gain Flatness (any 250 MHz)	dB	± 0.25
Maximum RF Input Power	dBm	-30
RF Noise Figure	dB	10
Unit Power		
Transmitter		90-264 VAC 50/60 Hz
Receiver		powered from IFL Rack
RF Connector		
Transmitter		SMA female
Receiver		SMA female
Optical Connector		
Transmitter		Diamond AVIM or FC/APC
Receiver		FC/APC
Operating Temperature		
Transmitter Baseplate	°C	-40 to +70
Receiver Ambient	°C	0 to 50
LNA Bias		5 V, 25 mA (max) provided through Transmitter RF input connector

