

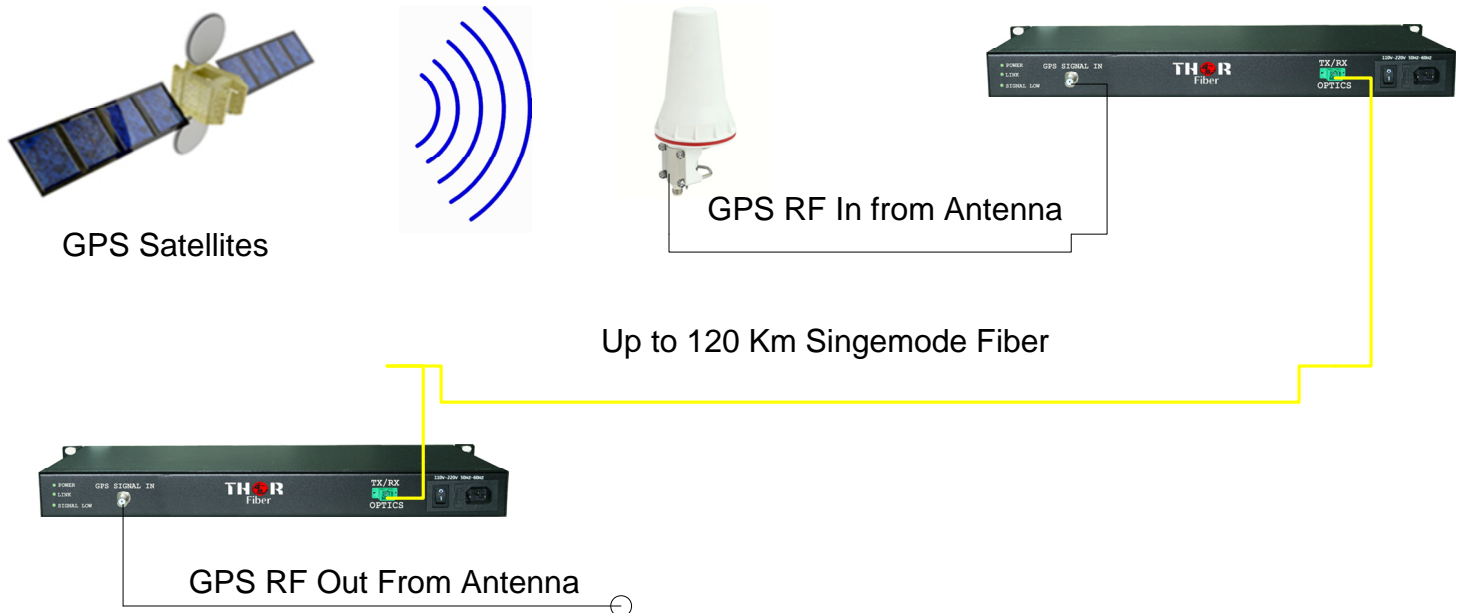
Data Sheet: F-GPSF



The F-GPSF fiber link is a transmitter and receiver pair used to transmit the RF Carrier signal from a GPS antenna to a remote location up to 10 Km. There are many advantages to converting the GPS Carrier to an optical signal. Fiber Optic cable is much less expensive than low loss coaxial cable used for RF signals. It is also much smaller and easier to work with. Optical signals are not affected by RF interference, therefore this system can be used to transport a GPS signal through a noisy RF environment. The F-GPSF can also be used to transport the signal from a single GPS antenna to a multitude of locations throughout a building, aircraft, or ship.



Typical F-GPSF Application



Technical Specifications

Optical Characteristics

Optical Output	1 – 10 mW (by request)
Wavelength	1310 nm +/-30

RF Characteristics

Bandwidth	1000 – 1700 MHz
Amplitude Flatness	1.5 dBm typical
Input VSWR 50 Ohm	2.0:1 max
MW/ma @ 1200MHz	0.1mW/ma min
1 dB Compression	-25 dBm

Link Characteristics

Link Loss	15 dB typical
Carrier / Noise	15 dB min with input drive @ 70dB
3 rd Order Intercept	22 dBm

Physical Characteristics

Operating Temp:	-25 – 70 (°C)
Storage Temp:	-30 – 75 (°C)
Operating Humidity:	0 – 90 (%)
Storage Humidity:	0 – 90 (%)
Power Requirements:	110/240V Auto Sense
Dimensions:	1.75x8.0x17.0 (in)
Optical Connector	FC/PC Fiber SM
RF Connector	SMA & N-Type