Product Information Datasheet

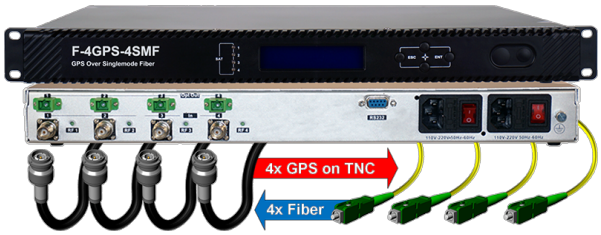
F-4GPS

4 CH Fiber Optic GPS System

Remote GPS Antenna Link

Industrial 4 Ch GPS Fiber Optic Antenna Extension Kit

Converts four GPS inputs on TNC to four fiber optic cables on SC/APC.



Transport 4 L-Band Coax on 1 Fiber Cable

The F-4GPS system from Thor Broadcast is designed to support GPS based timing systems such as those found on BTS controllers or cellular tower control systems. The system is based on four independent optical transmitter and receiver circuits. The Transmitter and receiver system are both housed in 19 in rack enclosures with easy to read status LCD displays that indicate the state of all four channels. Each optical circuit has it's own dedicated fiber to increase reliability through redundancy. The F-GPS platform can be configured to support the needs of specific applications. The F-4GPS platform provides four channels on four fibers, however other configurations can be ordered if given sufficient lead time. Contact a Thor sales representative for more information.

Product Specifications and Information Table

Transmitter Parameters		Optical Power Outputs	
Optical Wavelength	1310nm, 1550nm, or CWDM	Laser Rating = 2 mW	Optical Power Out = 3.0 dBm
Standard Wavelengths	1310nm on 4x SC/APC	Laser Rating = 4 mW	Optical Power Out = 6.0 dBm
RF Input Inputs	4x Coax TNC 50Ω	Laser Rating = 6 mW	Optical Power Out = 8.0 dBm
Return loss	15 dB Typical	Laser Rating = 10 mW	Optical Power Out = 10. dBm
RF Frequency Response	1000 - 1900 MHz	**Power Consumption**	
Amplitude Flatness	1.5 dB Typical	Power supply	AC 110 - 240 VAC
RF Connector Type	TNC, (Or by Request)	DC input voltage range	24V~48V
Input VSWR (50 Ω)	2.0 : 1 (max)	Power consumption	50W±10% (varies by temp)
MW/ma@1200 MHz	0.1 mW/ma (min)	**Environmental**	
Receiver Parameters		Working temperature	-30 ~ 60℃
Optical Wavelength	Matched to Transmitter	Unit Weight (sea level)	3.5 kg
Optical Power Range	-13 dBm - 0 dBm	Storage temperature	-40 ~ 85℃
RF Frequency Response	1000 - 1900 MHz	**Dimensions**	
RF Connector Type	F-Type, (Or by Request)	Rackmount Enclosure	482mm×268mm×44mm