

GPS-over-Fiber GPSof4 – 1.5 GHz (RX)

Description

The GPS-over-Fiber Link (GPSof4 – 1.5 GHz) offers a very high stability in addition to excellent performance in phase noise and frequency jitter in applications such as remote antenna connection in GPS receiving systems.

Features

- For GPS L1 and Glonass L1 (L2 available on request)
- No external control circuits required
- Analog signal to optical convert and back

Applications

- Antenna remoting
- Interfacility communication links
- Reference signal distribution



Electrical Data

Parameters		Value			Remarks	
		Min.	Typ.	Max.		
All specifications at 25°C case Temperature T _c , unless otherwise specified						
Frequency range		MHz	1560		1615	L2 bands on request
Gain		dB	1	3	5	
Gain flatness		dB		3		
Noise figure		dB		15		
Spurious-free dynamic range		dB Hz ^{2⁄3}		80		
Max. input at 1dB compression		dBm		-30		
Max. input power for no damage		dBm		+15		
Supply voltage V _S	Transmitter	VDC	+ 12	+ 12	+ 15	<110 mA
Supply voltage V _S	Receiver	VDC	+ 12	+ 12	+ 15	<130 mA
Temperature range (OTR)	Operating	°C	-20		+ 50	
	Storage	°C	-40		+60	
RF input impedance		ohm	50			
Mass transmitter		g	280			
Mass receiver		g	480			
Dimensions transmitter		mm	90 x 95 x 23			
Dimensions receiver		mm	160 x 90 x 27			
RF connectors			QMA / SMA female			

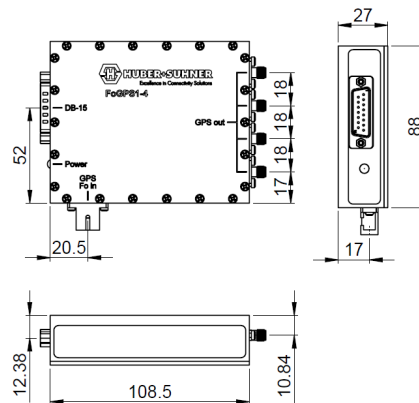
Optical Data

Parameters		Value			Remarks
		Min.	Typ.	Max.	
All specifications at 25°C case Temperature T _c , unless otherwise specified					
Fiber optic connectors		SC/APC			
Fiber		Single mode fiber 9/125 um			
Optical power in fiber	mW	6	8	10	
Side mode suppression ratio	dB	30	40		

Data Sheet

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Dimensions (mm)



Additional Information

- All modules are RoHS Compliant
- All modules are EMV protected
- DIN 35 brackets are delivered with each module. Other brackets available upon request
- No MIL Standard with standard module. MIL and other certifications are possible upon request. (A qualification fee will apply to any certifications)
- Various racks and enclosures available
- All modules are single packaged

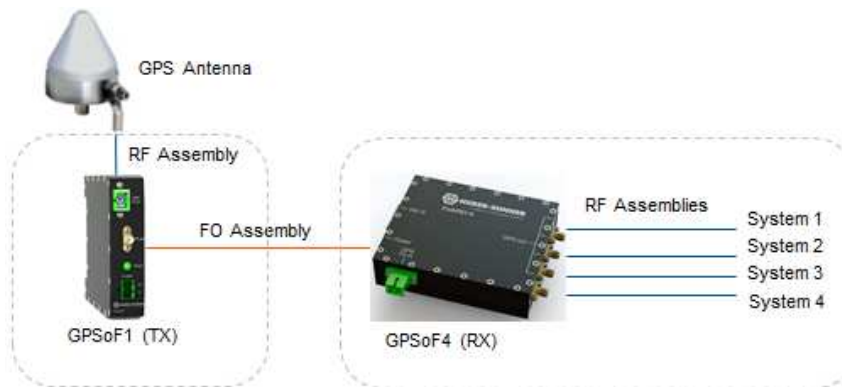
Important catalogue links

RF Cables: <http://literature.hubersuhner.com/Technologies/Radiofrequency/RFCablesEN/>

RF Connectors: <http://literature.hubersuhner.com/Technologies/Radiofrequency/RFCConnectorsEN/>

FO Standard Assemblies: <http://literature.hubersuhner.com/Technologies/Fiberoptics/FOcableassembliesEN/>

Application Notes



With the exception of GPS Receivers, all of the products required for a GPS-over-Fiber solution are available at HUBER+SUHNER.

Potential Applications

- Ideally suited to vehicles, ships and other structures such as offshore structures that require a single GPS source to be distributed to multiple systems.