Data Sheet

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	Value		
			Min.	Тур.	Max.	
All specifications at 25℃ case Temper	rature T _c , unless oth	erwise specified				
		MHz	1560		1615	L2 bands on request
Frequency range		dB	1000	3		Lz banus on reques
Gain		dB	1	3	5	
Gain flatness		dB		15		
Noise figure		dB dB Hz ^{2'3}		80		
Spurious-free dynamic range						
Max. input at 1dB compression		dBm		-30		
Max. input power for no damage		dBm	10	+15		440.0
Supply voltage V _S	Transmitter		+ 12	+ 12	+ 15	<110 mA
Supply voltage V _S	Receiver		+ 12	+ 12	+ 15	<130 mA
Temperature range (OTR)	Operating		-20		+ 50	
	Storage	C	-40		+60	
RF input impendence		ohm	50	50		
Mass transmitter		g	280	280		
Mass receiver		g	480	480		
Dimensions transmitter		mm	90 x 95	90 x 95 x 23		
Dimensions receiver		mm	160 x 90	160 x 90 x 27		
RF connectors			QMA / S	QMA / SMA female		

Optical Data

Parameters		Value		Remarks	
		Min.	Тур.	Max.	
All specifications at 25°C case Temperature T $_{\rm c}$, unles	s otherwise specified				
Fiber optic connectors		SC/APC)		
Fiber		Single r	Single mode fiber 9/125 um		
Optical power in fiber	mW	6	8	10	
Side mode suppression ratio	dB	30	40		

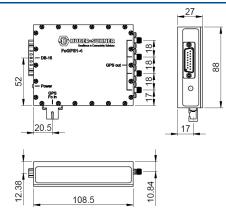


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Dimensions (mm)



Additional Information

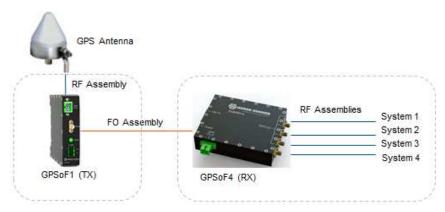
- All modules are RoHS Compliant
- All modules are EMV protected
- · DIN 35 brackets are delivered with each module. Other brackets available upon request
- No MIL Standard with standard module. MIL and other certifications are possible upon
- request. (A qualification fee will apply to any certifications)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

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.

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

www.hubersuhner.com

Waiver: It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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