

GPS-over-Fiber GPSoF8 (RX)

Description

The GPS-over-Fiber 8 (RX) receiver enables efficient optical timing signal to RF conversion for applications such as remote antenna connection in GNSS receiving systems in combination with HUBER+SUHNER GPSoF modules.

Features

- Optical to RF signal conversion with 8 RF outputs
- For GPS, Galileo, Glonass, BeiDou, IRNSS, QZSS and other GNSS systems
- Efficient low loss reference signal distribution (time and location)
- NEBS Level 3 carrier grade



Order Information

Item Description	Item Number
GPSoF8 (RX)	85134405

Electrical Data

Parameters		Value			Remarks
		min.	typ.	max.	
All specifications at 25°C case Temperature T _c , unless otherwise specified					
GNSS band			L1+L2		
Gain (link with TX)	dB		25		optical path loss not included
Gain flatness	dB		< 2		
Noise figure (link with TX)			6		optical path loss not included
VSWR (RF output)			< 2		
Time delay (link with TX) ¹	ns		55		optical path delay not included
Supply voltage	VDC	+ 10	+ 12	+ 35	<0.1 A
Temperature range	operating °C	-5		+ 55	
	storage °C	-40		+ 85	
RF output impedance	ohm	50			
Module weight	kg / lbs	1.8 / 4.0			
Dimensions	mm / inches	285 x 430 x 44 / 11.2 x 19 x 1.75			19" 1 RU
RF connectors		SMA female			

¹ Total link time delay calculation Total delay [ns] = time delay TX [ns] + time delay RX [ns] + Time delay single mode fiber 1310nm [ns/m] * link length [m]
Example 100m link delay = 55 ns + 100m * 4.9 ns/m = 545 ns

Optical Data

Parameters		Value			Remarks
		min.	typ.	max.	
All specifications at 25°C case Temperature T _c , unless otherwise specified					
Fiber optic connectors		LC/UPC			other connectors available
Fiber		standard single mode 9/125 um			
Optical input power	mW			5	
Side mode suppression ratio	dB	30	40		

GPS-over-Fiber
GPSoF8 (RX)

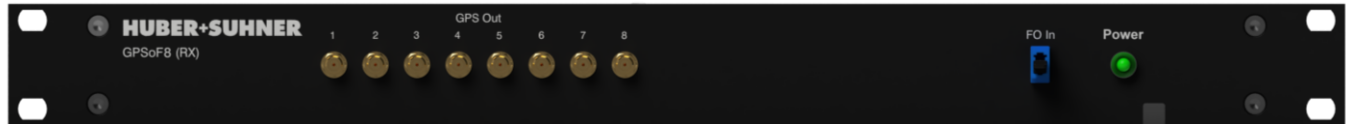
Mechanical Data

GPSoF8 (RX)

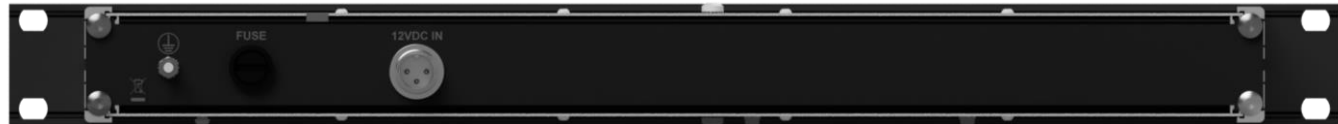
Dimensions Outline Drawing: DOU-00391337

	Input	Output	Description	Interface	
		X	GPS out	SMA (female)	
	X		FO in	LC/UPC (bulkhead)	
	X		12 VDC in	3-pole connector jack	

Front View:



Back View:



Additional Information

- All modules are RoHS Compliant
- All modules are EMC protected
- MIL and other certifications are possible upon request.
- 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/>

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

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