

GPS-over-Fiber GPSoF Amp Expansion Module 16/32

Description

The GPSoF Amp Expansion Modules 16 / 32 are amplified RF distribution system components that enable seamless RF expansion and scalability function for GPSoF receivers. The GPSoF Amp Expansion Module 16 / 32 delivers best-in-class RF splitting and amplification performance combined with HUBER+SUHNER's renowned RF connectivity.

Features

- 1 to 16 RF splitting for GNSS
- 1 to 32 RF splitting for GNSS
- Compatible with all H+S GPSoF RX modules
- NEBS level 3 carrier grade



Order Information

Item Description	Item Number
GPSoF Amp Expansion Module 16	85128403
GPSoF Amp Expansion Module 32	85128404

Electrical Data

Parameters			Value			Remarks
			Min.	Typ.	Max.	
All specifications at 25°C case Temperature T _c , unless otherwise specified						
Frequency range				L1+L2		
Loss GPSoF Expansion Module 16		dB		0		
Loss GPSoF Expansion Module 32		dB		0		
Noise figure		dB		10		
Max. input at 1dB compression		dBm		+3		
Max. input power for no damage		dBm		+13		
VSWR (input and output)				< 1.4		
Time Delay ¹		ns		55		
Power Supply		VDC		+12	(2W)	
Temperature range		Operating °C	- 5		+ 55	
		Storage °C	- 40		+ 85	
RF input impedance		ohm	50			
Module weight – Indoor		kg / lbs	3.0 / 6.6			
Module dimensions – Indoor		mm / inches	306 x 481 x 88 / 12 x 19 x 3.5			
RF Inputs (connector)			1 (SMA female)		Alternative connectors available	
RF Outputs (connector)			16 (SMA female)		Alternative connectors available	
RF Inputs (connector)			2 (SMA female)		Alternative connectors available	
RF Outputs (connector)			32 (SMA female)		Alternative connectors available	

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

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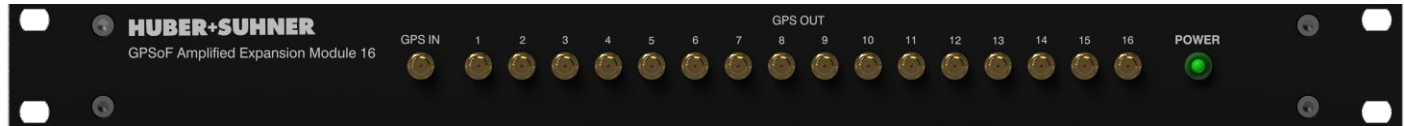
Mechanical Data

GPSoF Amp Expansion Module 16:

Dimensions Outline Drawing: DOU-00402887

	Input	Output	Description	Interface
	X		12 V DC IN	3 pin connector bulkhead (male)
	X		RF IN	SMA (female)
		X	RF OUT 1 – 16	SMA (female)

Front View



Back View



GPSoF Amp Expansion Module 32:

Dimensions Outline Drawing: DOU-00390533

	Input	Output	Description	Interface
	X		12 V DC IN	3 pin connector bulkhead (male)
	X		RF IN	SMA (female)
		X	RF OUT 1 – 32	SMA (female)

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

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