

## GNSSoF

**Expansion module, Receiver, L1, L2, 1RU, 32 RF OUT, 1 FO IN**  
GPSoF32 (RX)**Properties**

- Optical to RF signal conversion with 32 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

**General data**

Product family	GNSS Expansion
Suitable Products	D-GNSSoF1-1T-L12 85135572

**Electrical data**

GNSS band	L1: 1545 - 1610 MHz L2: 1164 - 1254 MHz
Link gain typical	20 dB
Frequency response flatness	+/- 2 dB
Link noise figure typical	L1: 12 dB L2: 9 dB
VSWR	< 2
Power connector	3pole connector series 680, socket
Supply voltage range	10 V DC ... 12.5 V DC
Supply voltage typical	12 V DC

**Mechanical data**

Weight	3 kg
Dimensions (LxWxH)	285mm x 430mm x 88mm
Rack height unit	2 U

**Environmental data**

Storage temperature	-40 °C ... 85 °C
Operation case temperature	-5 °C ... 55 °C

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**Optical data**

Time delay	55 ns
Optical power - signal max	5 mW

**Output of RF connection**

Product family RF connector	SMA
Gender	Female
Amount of RF connectors	32 pcs

**Input of FO connection**

Product family FO connector	LC UPC
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

**Technical drawing****Front View:****Back View:****Scope of delivery**

Scope of delivery	An external plug (UK, US, SAA, EU) in power supply will be delivered for 100 - 240 VAC to 12 VDC conversion
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**Ordering Information Table**

Item number	Item description
85140926	GPSoF32 (RX)

**Additional Information**

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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