

GNSSoF

Expansion module, Receiver, L1, 1RU, 16 RF OUT, 1 FO IN, 2 FO OUT

GPSoF16-2 (RX)

Properties

- Optical to RF signal conversion with 16 RF outputs
- Efficient low loss reference signal distribution (time and location)
- NEBS Level 3 Carrier Grade
- For GPS, Galileo, Glonass, BeiDou, IRNSS, QZSS and other GNSS systems

**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 range	8 dB ... 12 dB
Link gain typical	10 dB
Frequency response flatness	+/- 2 dB
Link noise figure typical	L1: 13 dB L2: 11 dB
VSWR	< 2
Power connector	3pole connector series 680, socket
Supply voltage range	10 V DC ... 14 V DC
Supply voltage typical	12 V DC
Supply current typical	144 mA

Mechanical data

Weight	2.2 kg
Dimensions (LxWxH)	285mm x 430mm x 44mm
Rack height unit	1 U

Environmental data

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

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Optical data	
Time delay	40 ns
Optical power - signal max	5 mW

Output of RF connection	
Product family RF connector	SMA
Gender	Female
Amount of RF connectors	16 pcs

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

Output of FO connection	
Product family FO connector	LC UPC
Amount of FO Connectors	2 pcs
Fiber type	Singlemode

Technical drawing



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

Ordering Information Table	
Item number	Item description
85145447	GPSoF16-2 (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 = time delay TX [ns] + 40 ns + 100m * 4.9 ns/m = 570 ns + time delay TX [ns]	

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