DATA SHEET

GNSSoF

Power over fiber, 1RU, L1, L2, L5, 16 RF OUT, 1 FO OUT, Monitoring, DC

P-GNSSPoF16-RxE-03

Properties

- Optical power and signal distribution
- Enhanced transmission distance between antenna and receiver
- Power redundancy: two integrated hot swappable power supply modules
- Remote control / monitoring via Web GUI / SNMP / RESTCONF YANG
- Support for remote firmware upgrade
- Support for disabling unused network interfaces



General data	
Product line	Syncro
Product family	GNSS Power
Suitable Products	O-GNSSPoF0-1-L15, 85227355
	O-GNSSPoF0-1-L12, 85244046
	Power Supply DC, 85213407

Electrical data	
GNSS band	L1
	L2
	L5
VSWR	< 1.8
Equivalent active antenna gain	35 dB
Power consumption	< 36 W
Supply voltage range	36 V DC ... 60 V DC

Mechanical data	
Weight	6.7 kg
Dimensions (LxWxH)	482.6mm x 475mm x 43.65mm
Rack height unit	1 U

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Environmental data	
Storage temperature	-40 °C ... 75 °C
Operation case temperature	-5 °C ... 55 °C

Optical data	
Time delay	32 ns
Laser hazard level	4 / 1M
Optical power - signal typical	1 mW
Optical power - remote powering max	600 mW
Operating wavelength signal	1310 nm
Operating wavelength power	1480 nm

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	Q-ODC-12
Gender	Socket
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

Output of FO connection	
Product family FO connector	LC UPC
Gender	Plug
Amount of FO Connectors	1 pcs
Fiber type	Singlemode

Network			
	RJ 45	**SFP**	**USB**
Amount of Connectors	4 pcs	2 pcs	2 pcs
Type 1	1x RS 232	2x Ethernet 10/100/1000 Mbps	1x USB Type A
Type 2	2x Ethernet 10/100/1000 Mbps		1x USB MICRO B
Type 3	1x RS 485		

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Technical drawing

Front panel



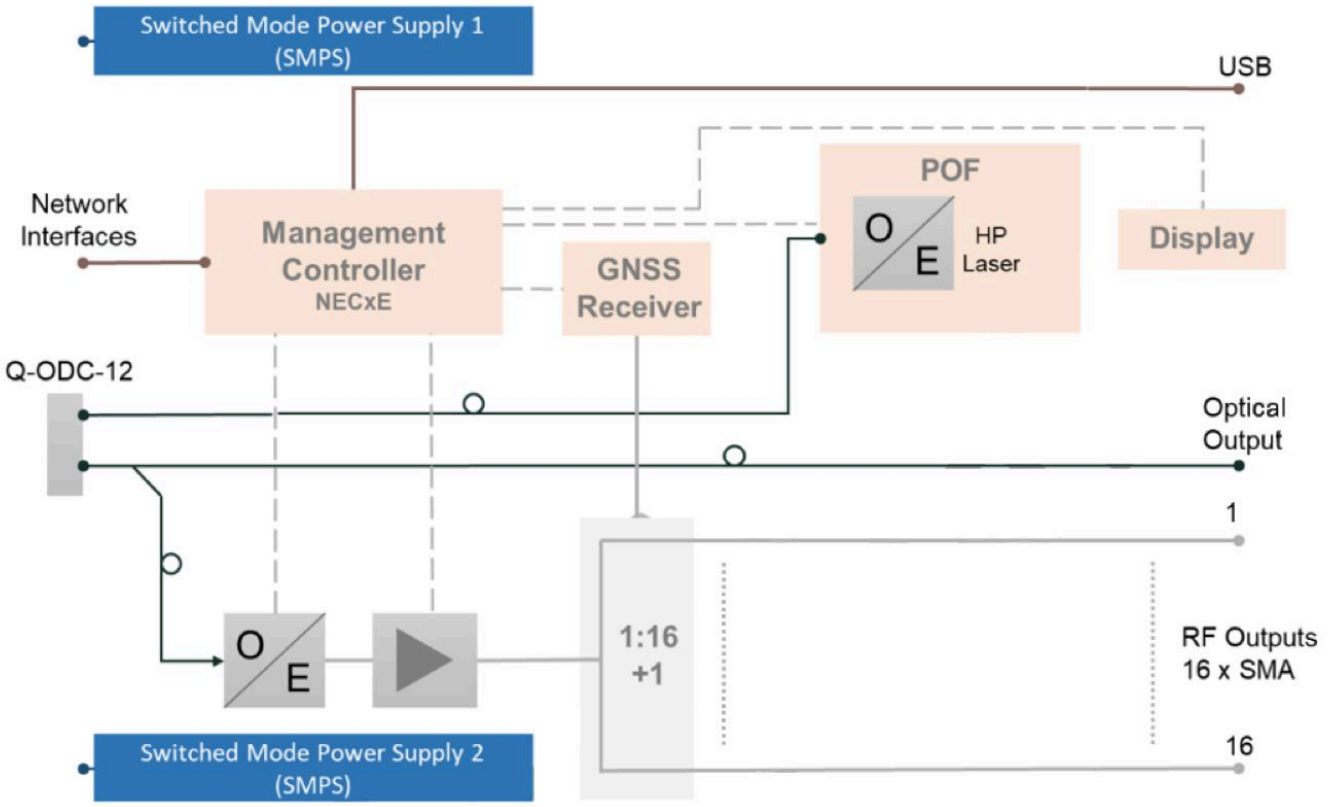
Back panel



Laser safety



Diagram



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Ordering Information Table	
Item number	Item description
85213405	P-GNSSPoF16-RxE-03

Additional Information

Time delay: in combination with antenna 85227355 O-GNSSPoF0-1-L15
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 = 32 ns + 32ns + 100m * 4.9 ns/m = 554 ns

Laser safety class:
Safety features are implemented to ensure safe installation and operation which is compliant to a 1M laser class specification. Modification on the system configuration is prohibited.

This RX module is broadband, received frequency bands depend on the connected GNSS antenna.

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