

## ROGER™ GNSS RAS-16

### GNSS-RAS-16, a 1-to-16 Splitter

The GNSS-RAS-16 is a robust, active 1-to-16 signal splitter with 10dB gain.

Designed for accurate GNSS/GPS signal distribution in essential settings like server halls, laboratories, and other locations requiring reliable GNSS reception. Covers all

GNSS constellations within the frequency range of 1.15 GHz to 1.63 GHz, ensuring comprehensive coverage for synchronization and distribution needs.



**Redundant Power Supply:** Equipped with a fully redundant dual power supply system to guarantee uninterrupted signal reception for end-user devices. Supports operation with one or two power supplies. **LED Status Indicators:** Intuitive indicator LEDs monitor antenna current consumption and power supply units (PSUs), facilitating quick and efficient troubleshooting.

**Signal Integrity:** Each splitter output is DC loaded with 200-ohm resistors to simulate antenna current draw, preventing false antenna alarms in connected receivers.

The GNSS-RAS-16 delivers dependable performance and precise signal distribution, meeting the demands of environments requiring robust GNSS reception solutions.

Technical Specifications - General				
Dimensions:	19.01 x 8.35 x 1.73" ( 483 x 212 x 44 mm)			
Weight:	3.96 lbs (1.8 kg)			
Operating Temperature:	-13 - +131° F (-25 - + 55° C)			
Power Connector:	M8 4-pin male			
RF In Connector:	1 x SMA female			
RF Out Connectors::	16 x SMA Female			
CE:	Yes			
EMC:	EN 301 489-1			
Power On Indicator:	1 ea per PSU			
Antenna Current Indicator:	Green: Antenna OK		Red: Antenna Fault	
Technical Specifications - Electrical				
	Min	Typical	Max	Unit
Frequency Range:	1.16		1.63	GHz
Gain:	8.5	11.0	12.8	dB
Amplitude Balance:		0.5		dB
Phase Balance:		<5		degrees
Input VSWR		<2		
Output VSWR		<1.2		
Output Port Isolation:		>21		dB
RF Input:			-20	dBm
Input Voltage:	10.8	12	13.2	VDC
Power Consumption:		3		W
Antenna Output Voltage		5		VDC
Antenna Current:			100	mA
DC Block Load Termination:		200		Ω
DC Block Voltage:			12.0	VDC



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