



Smart 1-to-2 splitter with 10 dB gain

GNSS-SMART-S2

Key Features

Smart GNSS Splitter, designed for reliable GNSS signal distribution in professional installations. It provides 1-to-2 signal splitting with 10 dB gain, allowing a single GNSS antenna signal to feed up to two receivers while compensating for splitter and cable losses.

The splitter accepts power from both connected GNSS receivers, providing flexible and robust power redundancy without requiring a dedicated power input.

Typical use cases

- Two GNSS receivers, one antenna — Share a single high-quality GNSS antenna between up to two receivers.
- Reference and monitoring systems — Feed the same GNSS signal to reference stations, monitoring equipment, and other GNSS devices.
- Timing and synchronization — Distribute GNSS signals to two timing or synchronization receivers from one antenna.
- Test and development setups — Connect two GNSS receivers simultaneously for comparison, testing, or validation.
- Installations with long cable runs — The 10 dB gain helps compensate for splitter and cable losses.
- Redundant systems — Power acceptance from two connected GNSS receivers provides additional flexibility and power redundancy

Compact, efficient, and easy to integrate, it delivers a strong and stable GNSS signal across both two outputs.



General				
Size	130x89x42 mm 5.12x3.54x1.65 inches			
Weight	0.29kg, 0.64 pounds			
Operating Temperature	-25 - +55°C			
RF IN (1) and RF OUT Connectors (2)	TNC female			
Impedance	50 Ω			
IP Rating	IP66			
Electrical				
	Min	Typical	Max	Unit
Frequency Range	1.150		1.627	GHz
Gain (GNSS bands)	9	11	13.5	dB
RF Input			-20	dBm
Input Voltage	4.2		15	VDC
Current Consumption @ 5V		10		mA
Output Voltage		Dependent on input voltage		
Voltage drop from RF OUT to RF IN @ 100mA		5		mV
Max. Antenna Current			100	mA