

GPS Antenna



When success is the only option

Radiall introduces a new range of L1 GPS Antennas designed for military applications. This comprehensive offer covers both passive and active versions and ensures outstanding performance, durability, and highly robust design. Radiall ensures guaranteed reliability due to ownership of the entire process including design and production.

New L1 GPS Antenna

- Passive, Active 14 dB & 28 dB versions
- Three form factors
- IP68 product
- Environmental performance according to MILSTD810G
- Complete Design & Manufacturing by Radiall



GPS Antenna

	Passive version	Active L1 14 dB	Active L1 28 dB
Frequency	1575.42 MHz		
Bandwidth	4 MHz		
VSWR	2.5:1 max		
Gain	-1.5 +/- 1dBic	14 dBic	28 dBic
Impedance	50 Ω		
Polarization	RHCP		
Axial Ratio (stand alone)	3 dBmax (zenith typical, free space conditions)		
Efficiency	50%		
Operating Temperature	-40°C to 71°C		
RF Connector	SMA		
3 dB Beamwidth	100 x 100° min		
Noise Figure	/	1.5 dB max (when applicable)	
DC Voltage	/	3.3 V +/- 0.2V	
DC Current	/	12 mA max	25 mA max



Radiall GPS Antennas are the best choice for military global positioning applications.

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Part Number

R380300025
R380300026
R380300027

Description

Large GPS L1 Passive Antenna
Large GPS L1 Active 14 dB Antenna
Large GPS L1 Active 28 dB Antenna

R380300028
R380300029
R380300030

Medium GPS L1 Passive Antenna
Medium GPS L1 Active 14 dB Antenna
Medium GPS L1 Active 28 dB Antenna

R380300024

Small GPS L1 Active 25 dB Antenna

**Custom GPS antennas available upon request*

Features & Benefits

- Excellent RF Performance
 - » Low Axial Ratio performance
 - » Right Hand Circular Polarization
 - » High Gain performance
 - » Excellent efficiency: 50%
- Robust design
 - » IP68 & Environmental performance according to MILSTD810G
- Complete Design & Manufacturing by Radiall

Applications

- Embedded GPS Military Radio equipment
- All other GPS applications that require global positioning
 - » Vehicle and fleet tracking
 - » Asset tracking
 - » Seismic recording instruments
 - » Navigation devices
 - » Mining equipment
 - » LBS & M2M applications
 - » Handheld device

