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Poynting GPS-1, Low Profile Active GPS Antenna, 1575.42 to 1600 MHz

SKU
ANT-PY-00069
MPN
A-GPS-0001-V2-01

Description

The Poynting GPS-1 is a low-profile, active GPS antenna operating within the 1575.42 to 1600 MHz range, designed for robust GNSS applications. With a compact size of 99.3 x 36 mm and a weight of 0.31 kg, it is constructed from durable polycarbonate and boasts an IP68 ingress protection rating, ensuring reliability in harsh environments with temperatures ranging from -40 °C to 80 °C.

This antenna, featuring a single RF connection via an SMA Male interface, is ideal for precise GPS applications due to its right-hand circular polarisation and impressive 21 dBic gain. The integrated Low Noise Amplifier (LNA) enhances signal clarity with a noise figure of ≤ 1.5 dB and operates efficiently within a voltage range of 2.7 V to 3.3 V.

Compliant with CE, RoHS, and ISO 9001 standards, the GPS-1 is suitable for high-precision applications in telecommunication, broadcast, and consumer markets. Poynting, a renowned brand originating from South Africa...

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Poynting

Poynting is a top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...

RF Specification

GPS

Gain (Zenith)
21 dBic
Start Frequency
1575.42 MHz
Stop Frequency
1600 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain
21 dBic
Noise Figure
≤ 1.5 dB
Min. Operating Voltage
2.7 V
Max. Operating Voltage
3.3 V
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	A-302	2000 mm

Physical Specification

Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
99.3 x 36

Ingress Protection
IP68
Materials
Polycarbonate (PC)
Weight
0.31 kg
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management

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