

# 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  $\leq 1.5$  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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## RF Specification



### 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 ...

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

## Low Noise Amplifier (LNA)

|               |          |                         |       |
|---------------|----------|-------------------------|-------|
| LNA Gain:     | 21 dBic  | Min. Operating Voltage: | 2.7 V |
| Noise Figure: | ≤ 1.5 dB | 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        | Dimensions:                 | 99.3 x 36          |
| MIMO:                       | 1x1 SISO | Ingress Protection:         | IP68               |
| Min. Operating Temperature: | -40 °C   | Materials:                  | Polycarbonate (PC) |
| Max. Operating Temperature: | 80 °C    | Weight:                     | 0.31 kg            |
|                             |          | Compliance/Certifications:  | CE                 |
|                             |          |                             | '                  |
|                             |          | RoHS                        |                    |
|                             |          |                             | '                  |
|                             |          | ISO 9001 Quality Management |                    |

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