



ANN

Active Antenna

The ANN active GPS antenna with integrated low-noise amplifier (LNA) is the perfect match to the u-blox GPS receivers.



Benefits

- Easy to use
- Compact size
- High performance
- Fast and easy integration
- No antenna know-how necessary

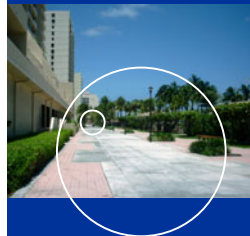
Features

- Built-in low noise amplifier with 27 dB gain and 1.5 dB noise figure
- 5 m coaxial cable
- Magnetic base suitable for mounting on car roof
- Industrial temperature range: -40 ... +85°C
- Wide range of supply voltage: 3 ... 5 V

Overview

ANN offers the performance to exploit the full capabilities of all u-blox GPS receivers. ANN can be operated at a supply voltage of 3 - 5V. ANN is available with SMA, SMB and MCX connectors.

*your position
is our focus*



Specifications

Patch Antenna Characteristics

Frequency	1575 ± 3 MHz
VSWR	Max. 2
Bandwidth	Min. 10 MHz
Impedance	50 Ω
Peak Gain	Min. 4 dBic (over 7 x 7 cm ground plane)
Gain Coverage	≥ -4 dBic at $-90^\circ \leq \theta \leq +90^\circ$ (over 75% volume)
Power Handling	1 Watt
Polarization	RHCP Right-Handed Circular Polarization

Amplifier Characteristics

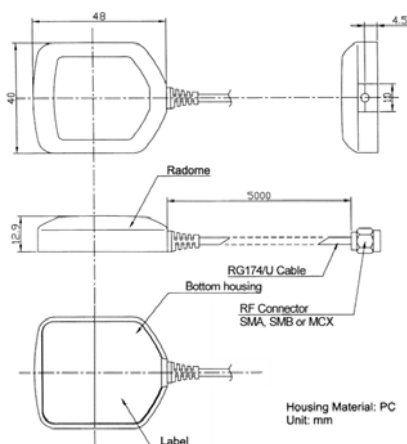
Gain without Cable	Typ. 27 dB
Noise Figure	Max. 1.5 dB
Output VWSR	Max. 2.0
Filtering	-30 dB (± 100 MHz)
DC Voltage	3 - 5 V
DC Current	Max. 22 mA

Environmental Data

Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 125°C
Humidity	95% ~ 100% RH (Suitable for car roof use during rainy weather)
Sealing Class	EN60529 IP54
Vibration	Sine Sweep 1G (0-Peak), 10-150-10Hz each axis

Mechanical Data

Weight	≤ 105 g
Size	48 x 40 x 13 mm
Cable	5m RG174 standard
Connector	Choice of SMA, SMB, MCX
Mounting	Magnetic base
Housing Color	Black



Ordering Information

ANN-MS-0-005-0	ANN Active GPS Antenna 5m cable, SMA connector
ANN-MS-1-005-0	ANN Active GPS Antenna 5m cable, SMB connector
ANN-MS-2-005-0	ANN Active GPS Antenna 5m cable, MCX connector