

# Altitude Tech wpga-1

Antennas Water resistant GSM 28 dBi antenna for IOT BIT - 4G, 3G and GSM

## Features

Mini GPS Antenna with High Gain

1575.42MHz +/- 3MHz

Active gain: >4dB

Active LNA/Filter +28dBi

Noise 1.5dB

VSWR <2.00

DC Voltage 3.3V +/-0.3V

Polarisation RHCP

VSWR <1.5:1

5metres RG174 Cable

Waterproof to IP67

SMA or MMCX Male Connector

Dimensions 38 x 34 x 12 (Approx.)

Mag Mount and Screw Fix



## Applications

Car GPS Systems

Hand held GPS Systems

## Description

A compact Antenna for GPS applications where high performance is required from a small size. The antenna includes a Low Noise Amplifier and incorporates both magnetic mount and screw fixings.

## Ordering Information

Part Number	Description	Cable Length	Connector
ANT-GPSC-SMA	Active GPS with cable and connector	5metres	SMA (M)
ANT-GPSC-MMCX	Active GPS with cable and connector	5metres	MMCX (straight)

## Test Data

### GENERAL

#### ENVIRONMENTAL CONDITIONS

OPERATING TEMPERATURE	-30°C TO +60°C
STORAGE TEMPERATURE	-40°C TO +90°C (110°C MAX 1HR.)
RELATIVE HUMIDITY	20% TO 95%, rain

#### ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE Require:	3.0 to 5.0 VDC
POWER CONSUMPTION	10~25 mA
OUTPUT CONNECTOR	SMA male
Coax Cable	RG174U
VSWR	<2.00
Max Gain	>-4dBic @ -90deg<0<+90deg (over 75% Vol)

#### MECHANICAL SPECIFICATIONS

MOUNTING	Magnetic Mount
PULLING FORCE OF MAGNET	29N
WATER PROOF	Waterproof IP67
MAGNET MOUNT	Withstand speed of upto 180Km/h.
CABLE PULLING FORCE	49N
BENDING TEST 1" radius	After bending test 90 degree right and left 1,000 cycles, no permanent damage found.

#### LNA Gain (without Cable)

FREQUENCY RANGE	1,575.42 + 1.1 MHz
GAIN	28dB (+30°C)

NOISE FIGURE	1.8 dB MAX. (+30°C)
OUT OF BAND REJECTION	fo =1,575.42 MHz fo + 20MHz 7dB MIN. fo + 50MHz 20dB MIN. fo + 100MHz 30dB MIN.
OUTPUT IMPEDANCE	50ohm

#### Other Specifications

ESD	ANTENNA SURFACE 5KV
WEEE & Rohs compliant	Yes

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