

# GPS Antenna

## GPS-ANT380

旺普科技有限公司  
WONDE PROUD



### General Description

The Wonde Proud GPS-Ant380 is a small, light weight, portable, and ready to use high quality GPS antenna. The GPS-Ant380 is waterproof and has a magnetic base making it ideal for vehicle mounted applications. Being an active antenna incorporates an LNA (low noise amplifier) which gives it far superior performance to passive equivalents.

For best performance, the antenna must be placed on a metal surface, such as the roof of a vehicle, so that a ground plane is formed.

### Key Features

- ◆ Low noise figure
- ◆ Fully waterproof
- ◆ Ultra low power consumption
- ◆ Compact construction
- ◆ Excellent temperature stability
- ◆ Magnetic mount base

### Specifications

Antenna		LNA	
Frequency range	1,575.42±1.023MHz	Frequency range	1,575.42±1.023MHz
Gain	90: 3.0 dBi min. 20: -5.0 dBi min. (mounted on the 70mmx 70mm square ground plane)	Gain	28±3db (+25°C) 28±5db (-40°C to 85°C)
Polarization	RHCP	Noise figure	1.5dB max (+25°C) 2.5dB max. (+85°C)
Axial ratio	90: 3dB typical	Out of band rejection	$f_0=1,575.42\text{MHz}$ $f_0\pm 50\text{MHz}$ 25db typical $f_0\pm 100\text{MHz}$ 35db typical
Azimuth coverage	360 degrees	Reverse isolation	50dB typical
Elevation coverage	0 degree to 90 degrees	Output impedance	50Ω
		Output VSWR	2.0max

Overall specifications (through antenna, LNA, cable and connector)	
Frequency range	1,575.42±1.023MHz
Gain	25±3dBi (25°C±5°C) 25±5dBi (-40°C to 85°C) (Mounted on the 70mmx70mm square ground plane) including cable loss
Output impedance	50Ω
VSWR	2.0max
Compression@ L1	-5dBm@LNA input

General	
<i>A. Environmental conditions</i>	
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +100°C
Relative humidity	20% to 95%
<i>B. Electrical specifications</i>	
Input voltage	2.5~4.5V
Power consumption	7mA typical@ 3.0v
Output connector	FME SMA
Cable	2m RG174/U (std.) 3m (optional)
Optional connector	FME MCX / SMB / SMC
<i>C. Mechanical specifications</i>	
Dimension	L:43mm W:33mm H:13.3mm
Weight	23.0g
<i>D. Others</i>	
Recommended storage condition	Temperature -20°C to 45°C Humidity 80% max
Waterproof	100% waterproof
Plastic color	Black

All specifications are subject to change without notice

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