# WONDE PROUD

## Product Brief GPS-ANT380





#### **General Description**

The Wonde Proud GPS-ANT380 is a small, lightweight, 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) that 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.	Gain	28±3db (+25°C)
	20: -5.0 dBi min.		28±5db (-40°C to 85°C)
	(mounted on the 70mmx		
	70mm square ground plane	)	
Polarization	RHCP	Noise figure	1.5dB max (+25°C)
			2.5dB max. (+85°C)
Axial ratio	90: 3dB typical	Out of band rejection	fo=1,575.42MHz
			fo±50MHz 25db typical
			fo±100MHz 35db typical
Azimuth coverage	360 degrees	Reverse isolation	50dB typical
Elevation coverage	0 degree to 90 degrees	Output impedance	50Ω
		Output VSWR	2.0max

Wonde Proud e-mail: sales@wondeproud.com web: www.wondeproud.com

# WONDE PROUD

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				
A. Environmental conditions				
Operating temperature	-40°C to +85°C			
Storage temperature	-40°C to +100°C			
Relative humidity	20% to 95%			
B. Electrical specifications				
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			
C. Mechanical specifications				
Dimensions	L: 43mm W:33mm H:13.3mm			
Weight	23.0g			
D. Others				
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			

**Product Brief** 

**GPS-ANT380** 

#### ©Wonde Proud 2005

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.