GPS Antenna Module

MODEL: GAM-05

Compact & Sensitive GPS Antenna Module with Excellent Signal Amplification for Mobile Applications

- Gain: 18 dB
- Ultra-high sensitivity
- Voltage: 1.5~3.1V DC
- Current: 5.0mA Typ.
- 18.5mm (L) x 5.0mm (W) x 5.0mm (H)

GAM-05 is the most compact GPS antenna module currently available on the market, thanks to our cutting-edge technology that makes the device the tiniest possible without sacrificing performance. With comprehensive coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment. Featuring diminutive but substantial enclosure plus unparalleled performance, **GAM-05** is compatible with almost every GPS receiver model available on the market and provides a perfect alternative for a vast range of GPS applications in the fields of AVL, vehicle navigation, aviation and military.

Features:

1. Microscopic & rigid structure suit well military and other applications demanding high degree of confidentiality.
2. High sensitivity.
3. Module board available for embedded applications.
4. Ideal for PDA, Handhelds and other computing devices running GPS applications.
5. High temperature stability.

Applications:

External Antenna for Handheld GPS / PDA / PC for GPS Navigation

Specifications:

PHYSICAL CONDITION	
Dimension:	18.5mm (L) x 5.0mm (W) x 5.0mm (H)
Weight:	2 g
Standard Mounting:	Solder
ANTENNA ELEMENT	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	Linearity.
Absolute Gain at Zenith:	0.5 dBic
Axial Ratio:	1.0 dB Typ.
Output VSWR:	2.0 Max.
Output Impedance:	50 ohm
Ground size	NO
LOW NOISE AMPLIFIER	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	18dB Typ.
Band Width:	5 MHz min. @S11-10 dB
Noise Figure:	1.2 Typ.
Supply Voltage:	1.5V~3.1 V DC
Current Consumption:	5.0 mA Typ.
Output Impedance:	50 ohm
CABLE & CONNECTOR	
RF Cable:	OD1.13mm cable
Connector Available:	H.FL, u.FL, I.PEX, SMA, open or others are available in straight or right angle type.
ENVIRONMENTAL CONDITIONS	
Operating Temperature:	-40°C~+85°C
Storage Temperature:	-40°C~+90°C
Relative Humidity:	10~95% non-condensing

∗This specification is subject to change without prior notice **Data Updated:** MAR 11, 2010