



GPS Antenna Module

MODEL: AM-15

Compact & Sensitive GPS Antenna module with Extremely Low Attenuation & Power Consumption



©2008 San Jose Technology, Inc. All specifications subject to change without notice.

Overview

Featuring excellent anti-signal interference capabilities and amazingly low current consumption, **AM-15** 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. **AM-15's** comprehensive coverage can extend to far-off horizon, performing excellently in foliage or urban canyon environment – even in the presence of electromagnetic interference!

Coming up with diminutive but substantial enclosure plus unparalleled performance, **AM-15** 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. Low current consumption.
2. Microscopic & rigid structure suits well military and other applications demanding high degree of confidentiality.
3. Ultra-high sensitivity.
4. Module board available for embedded applications.
5. Ideal for PDA, HPC and other computing devices running GPS applications.
6. High temperature stability.

Applications

AVL / Car Navigation / Vehicle Tracking / Weather Balloon / Security Surveillance / External Antenna for Handheld GPS / PDA / PC

Specification

Physical construction	
Dimension:	16mm (L) x 16mm (W) x 8mm (H)
Weight:	30 grams (excluding cable & connector)
Antenna element	
Center frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	R.H.C.P. (Right Hand Circular Polarization)
Absolute gain @ zenith:	+1 dBi typically
Axial ratio:	3 dB typically
Output VSWR:	2.0 dB typically
Output impedance:	50 ohm
Low noise amplifier	
Center frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	17 dB
Band width:	2 MHz
Noise figure:	1.3 dB typically
Supply voltage:	2.5 ~3.3 V DC
Current consumption:	4.5 ~ 8.0 mA
Output impedance:	50 ohm
Bpf or saw filter	
Out-of-band attenuation (824 ~ 2400 MHz)	30 dB typically
Cable & connector	
RF cable:	RG174/U (standard), with RG-178/U and RG-316/U as customized options.
Connector available:	BNC, TNC, FME (to be adapted), GT5, MCX (OSX), SMA, SMB or SMC in straight or right angle type
Optional adapters:	FME~MCX, FME~BNC, FME~SMA, FME~SMB, FME~TNC
Overall performance (antenna element, lna & cable)	
Center frequency:	1575.42 MHz
Gain:	15 dB
Noise figure:	1.3 dB
Band width:	2 MHz
Axial ratio:	3 dB max.
VSWR:	2.0 dB
Output impedance:	50 ohm
Environmental conditions	
Operating temperature:	-30°C~+80°C
Storage temperature:	-40°C~+90°C
Relative humidity:	95% non-condensing

* This specification is subject to change without prior notice

Data Updated: May. 08, 2006

©2008 San Jose Technology, Inc.
All specifications subject to change without notice.