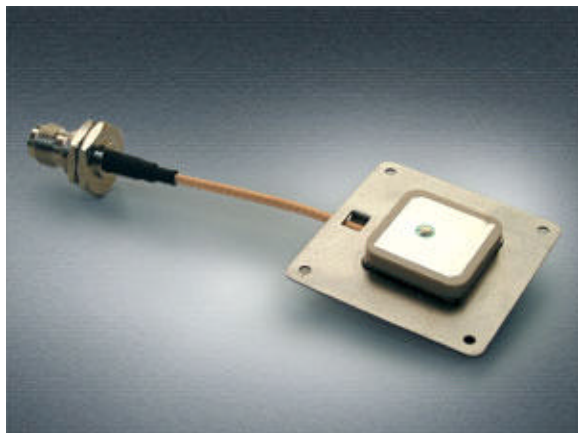




GPS Antenna Module

MODEL: AM-25A

Compact & Sensitive GPS Antenna Module with Excellent Signal Amplification for Navigation



- Operation temperature: -30°C to +80°C
- Input Voltage: 2.5V~5.5V
- Frequency range: 1575.42+1.023MHz
- Gain: AT 90°C 30+/-4.5dBi (cable loss)
- 48mm (L) x 48mm (W) x 8.4mm (H)

AM-25A is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. It is the integration of the high performance GPS patch antenna and a state-of-the-art low noise amplifier into an extremely compact/fully waterproof enclosure and when connected to a GPS receiver with 2.5~5.5VDC antenna power, it can provide 3V or 5V input Voltage.

SPECIFICATIONS:

Specification	
Physical Condition	
Dimension	48mm (L) x 48mm (W) x 8.4mm (H)
Weight	40 grams (including cable & connector)
Environmental Conditions	
Operation temperature	-30°C to +80°C
Storage temperature	-40°C to +100°C
Relative Humidity	40% to 95%
Electrical Specifications	
Input voltage	2.5v~5.5v
Power Consumption	at 3.0V Type:13mA Max:16mA
	at 5.0V Type:20mA Max:22mA



Antenna	
Frequency range	1575.42 ± 1.023 MHz
Gain	90° : 2.0 dBi Min 20° : -5.0 dBi Min Mounted on the 60mm x 60mm square ground plane
Polarization	RHCP
Axial Ratio	90°: MAX 3.0dB Mounted on the 60mm x 60mm square ground plane
LAN	
Frequency range	1575.42 ± 1.023 MHz
Gain	28 ± 4.5dB(+25°C ±5°C)
Noise Figure	1.5dB MAX. (+25°C ±5°C) 2.2dB MAX. (+85°C)
Out Band Rejection	fo = 1575.42 MHz fo +/- 20 MHz 7dB MIN fo +/- 30 MHz 12dB MIN fo +/- 50 MHz 20dB MIN fo +/- 100 MHz 30dB MIN
Output Impedance	50 ohm
Output VSWR	2.0 MAX
Total Specifications(Through Antenna, LAN, Cable and Connector)	
Frequency range	1575.42 +/- 1.023 MHz
Gain	At 90°C 30 ± 4.5dBi-(cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane
Output Impedance	50 ohm
VSWR	2.0 MAX

(This specification is subject to change without prior notice)

Note:1:Cable Loss=(-1.2dB/m)