



# GPS/GLONASS Antenna

## Model: SA-200G

WI-RD-B-243 V1.0



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### Overview:

The model SA-200G is a GPS/GLONASS dual-band antenna. It is an active design to operate at the frequency of GPS L1 1575.42 MHz and GLONASS L1 1602 MHz. The antenna is optimized to receive right hand circularly polarized signals and have LNA designed in. The antenna can also be fixed by an optional mounting base.

### Features:

- High gain wide-band patch antenna
- GPS/GLONASS bands
- TNC Connector

### Applications:

- AVL (Automatic Vehicle Location)
- Car Navigation and Navigation Devices
- Security Surveillance and Military & Security
- NB,IPC,UMPC,PDA, PND, Handheld GPS device
- Vehicle tracking /Fleet Tracking/Asset Tracking
- Iridium Short Burst Data
- Embedded Applications
- Oil & Gas Industries
- Law Enforcement
- LBS & M2M Application

### Specification:

Physical Condition	
Dimension	Diameter:4.5" High:2.9"
Weight	245 g
Environmental Conditions	
Operation temperature	-30°C to +80°C
Relative Humidity	+40±2 °C,90~95%R.H
Patch Antenna	
Satellite Frequency	1575 MHz / 1607 MHz (CF:1595 MHz)
Absolute Gain @ Zenith	4 dBic typically
Bandwidth@ Return Loss $\leq$ -10dB	$\geq$ 50 MHz
Gain @ 10° Elevation	-5dBi typically
Low Noise Amplifier	
LNA Gain	30 dB typically
Noise Figure	1.5 max
Supply Voltages	3~5V DC
Current Consumption	5.9 mA typically
Output VSWR	2.0 max
Cable and Connector	
Output Impedance	50 ohm
VSWR	2.0 max.
Cable	RG-58 (Length is suggested between 3~5M)
Connector	TNC (antenna) to BNC of others at the terminal

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### Mechanical Diagram:

