



# GPS Repeater Specifications

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## Part Numbers

## Product Description

GPSRK

GPS Repeater Amplifier & Antenna assembled on a Pedestal Mount

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### **General Specifications:**

- Operating Temperature -55 to 125 °C
- Repeating Range 150ft
- Free Space Path Loss Characteristics
  - -45dB at 10ft / -55dB at 25ft
  - -60dB at 50ft (approximate signal strength of outdoors or -130dBm)
  - -65dB at 100ft / -70dB at 150ft

### **Repeater Amplifier Specifications:**

- Frequency response GPS L1/L2 and GLONASS
- 30dB gain / Flatness less than +/-1.5dB
- Noise figure less than 1.8dB
- Input & Output SWR less than 2.0:1
- Reverse Isolation greater than 50dB
- Pass DC voltage to the antenna
- 50-Ohm impedance on all ports
- Power consumption 50mW @ 3vdc
  - Typical 15ma
- MIL-STD-810 Design

### **Repeater Antenna Specifications:**

- Frequency: 1.575GHz +/-20MHz
- VSWR: 1.5:1
- Peak Gain: 3dBic
- Polarization: Right-Hand Circular
- Impedance 50 Ohms

Customer can choose to block DC to the antenna  
L2 or GLONASS operation requires antenna options

### **Mechanical Specifications:**

- Amplifier 2.5"x2.5"x1.25" / Pedestal Mount 4.125" Height / Total Assembly Height = 5.375"
- Pedestal Mount base 2.5"x2.5" / Pedestal Mount hole pattern 2"x2" (4-holes)
- Repeater Antenna 2.6"x2.6"
- Antenna (RF IN) N type female connector

Customer can choose any connector male (plug) / female (jack) type N, TNC, BNC, SMA, SMB, SMC, or MCX

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### **Available Options:**

- AC/DC Quick Connect
- Variable Power Supply
- Mil DC Power Supply
- Solar Power Supply
- Additional Port Out
- L1 Repeater Antenna
- L1/L2 Repeater Antenna
- L1/GLONASS Repeater Antenna
- L1 Roof Antenna
- L1/L2 Roof Antenna
- L1/GLONASS Roof Antenna
- Water Proof
- Variable Gain
- Cable 50'
- Cable 100'
- Cable 150'