



GPS RADIONOVA® M10214-A1 RF Antenna Module

Antenova's GPS RADIONOVA® M10214-A1 RF Antenna Module is the world's first single package solution to combine RF and passive antenna on the same module. The GPS RADIONOVA® M10214-A1 is a flash based highly integrated GPS RF Antenna Module suitable for L1-band GPS and A-GPS systems. The device is based on the high performance SiRFstarIII™ GPS architecture combined with Antenova's high efficiency complementary antenna technology.

All front-end components are contained in a single package laminate base module for optimum performance. The GPS RADIONOVA® M10214-A1 operates on a single 3.6V positive bias supply with low power consumption and available low power modes for further power savings. M10214-A1 is supported by SiRF stand alone software and uses a UART as the host processor interface.

Providing a true drop in solution with the antenna and RF in a single package, GPS RADIONOVA® M₁₀₂₁₄-A₁ offers ease of integration and shorter design cycles for faster time to market.

Applications:

- Personal Navigation Devices (PNDs)
- Portable Media Players (PMPs)
- Personal Digital Assistants (PDAs)
- Feature phones and Smart Phones
- Asset Tracking / Personal Safety
- Ultra Mobile Devices (UMDs)

Features:

- Low cost single package RF Antenna Module
- SiRFstarIII[™] GPS Chipset Architecture
- Low current consumption
- Built-in filter allows co-existence with GSM/ CDMA/WCDMA/WLAN/BT
- Resistant to de-tuning

43mm



9 mm

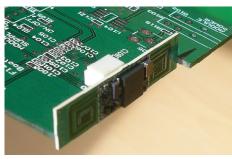
PS RADIONOVA® M10214-A1 RF antenna module

Top view (w/o shield can)



Bottom view





Vertical Mount (with optional cut-out)

Added Manufacturer (VAM)



Connector

electrical mechanical

Frequency: 1575 MHz Dimensions : $43 \times 9 \times 4$ mm Supply Voltage 3.6V (w/shield can)

Suppy Current: 30mA

Hibernate Current: 30 uA Mounting: Vertical mount / low profile

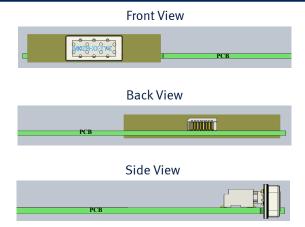
COM Interface: UART

Output Protocol: SiRF Binary / NMEA 0183

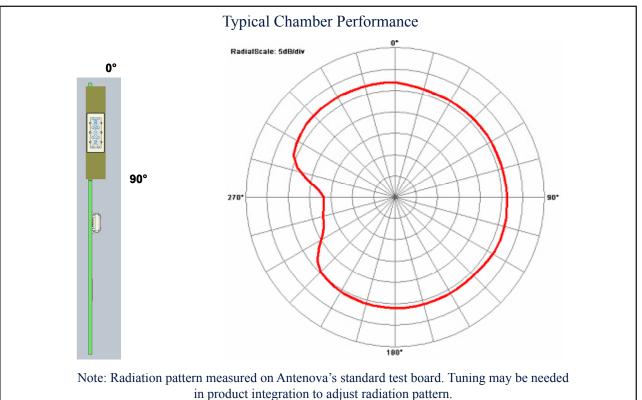
Operating Temperature: -25°C to +70°C Groundplane: 30 x 45mm min

M10214 Module

Typical RF Antenna Module Placement PCB



connector





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