



# 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<sup>™</sup> GPS Chipset Architecture
- Low current consumption
- Built-in filter allows co-existence with GSM/ CDMA/WCDMA/WLAN/BT
- Resistant to de-tuning

43mm



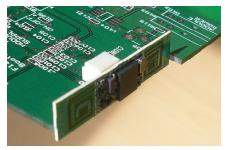
(w/o shield can)

Top view



Bottom view





Vertical Mount (with optional cut-out)

Antenova is a certified SiRF Value Added Manufacturer (VAM)



RF antenna module PS RADIONOVA® M10214-A1

9 mm

Integrated Antenna and RF Solutions

#### mechanical electrical

Frequency: 1575 MHz Dimensions: 43 x 9 x 4mm Supply Voltage 3.6 (w/shield can)

**Suppy Current:** зотА

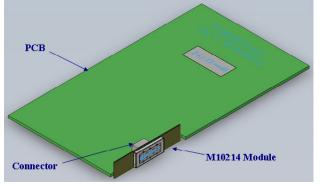
**Hibernate Current:** Vertical mount / low profile 30 uA Mounting:

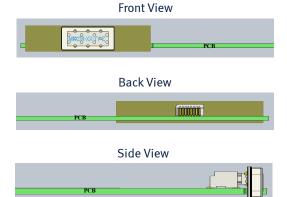
**COM Interface: UART** connector

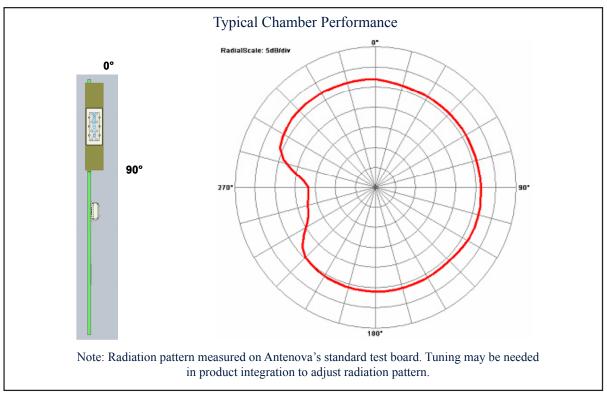
**Output Protocol:** SiRF Binary / NMEA 0183

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

## Typical RF Antenna Module Placement









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