

# RGPSM001

## GPS Receiver Module

*Ultra low-power*

*Micro-sized GPS receiver for portable products*

RGPSM001 GPS receiver with metal shield



### GENERAL DESCRIPTION

The RGPSM001 GPS Receiver from Racewood is a GPS receiver product features the revolutionary FirstGPS™ architecture. This complete enabled GPS receiver module provides high position and speed accuracy performances as well as high sensitivity and tracking capabilities in urban canyon conditions. The solution enables small form factor package. The RGPSM001 delivers major advancements in GPS performances, accuracy, integration, computing power and flexibility. It is designed to simplify the embedded system integration process.

### APPLICATION

- Automotive
- Asset management/tracking
- Palmtop, Laptop, PDA
- Location Based Services enabled devices
- Handheld receivers

### KEY FEATURES

#### **INDUSTRY LEADING GPS PERFORMANCE**

- Builds on high performance FirstGPS core
- Satellite signal tracking engine to perform GPS acquisition and tracking functions without CPU intervention
- High sensitivity: to -143 dBm tracking, superior urban canyon performances
- Position accuracy: < 3m CEP (50%) without SA (horizontal)
- Warm Start is under 42 seconds (90%)
- Hot Start is under 10 seconds (90%)

#### **ULTRA LOW POWER**

- Ultra low power: 17mA typical – tracking @ 3.3Volts, optimized RF and DSP architectures
- Further power saving thanks to 4 different power down mode

#### **BENEFITS TO USERS**

- Small form factor and low cost solution
- Ready-to-plug solution, fully autonomous PVT solution. Easily integrated into existing systems
- High signal acquisition & tracking performances
- On-board RAM for GPS navigation data
- PPS output
- Bi-directional NMEA interface
- Application software can be customized for high volume applications



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