

# MobileMapper™ Beacon



## Differential Correction Receiver with Bluetooth Wireless Technology

### Features

- DGPS corrections broadcasting
- Increase real-time accuracy
- Cable free
- Robust performance
- Automatic RTCM tuning

### Flexible Compatibility

MobileMapper™ Beacon compliments GPS receivers by improving real-time positioning accuracy with DGPS corrections. Specifically designed for Magellan Mobile Mapping Solutions, MobileMapper Beacon is also compatible with most GPS manufacturers' receivers. MobileMapper Beacon provides access to standard RTCM SC-104 DGPS corrections broadcast by beacon networks around the world and can be connected to your GPS receiver via the integrated wireless Bluetooth® link or the included serial cable.

### Reliable Accuracy

In the field, reliable positioning accuracy is imperative. With MobileMapper Beacon providing DGPS corrections to your handheld GPS receiver, you can have confidence in your ability to attain accurate results even in environments considered challenging for SBAS (WAAS, EGNOS, MSAS).

Designed to go where you go, MobileMapper Beacon offers maximum portability and convenience with an integrated all-in-one design built to withstand rigorous conditions. When paired with Magellan MobileMapper receivers, MobileMapper Beacon delivers reliable DGPS corrections to attain sub-meter accuracy.

### Advanced Features

MobileMapper Beacon employs an integrated H-field antenna and advanced signal processing for superior performance in challenging environments, and automatic tuning to the best available beacon signal minimizes configuration and set-up time.

Powered by four standard AA batteries and conveniently worn in a belt-mounted carrying case, MobileMapper Beacon is ideal for demanding users that expect flexible, reliable and powerful hands-free performance.

MobileMapper Beacon offers an external serial data port for cabled connectivity and integrated Bluetooth wireless technology for cable-free convenience with devices featuring Bluetooth technology.

# MobileMapper Beacon Technical Specifications

## Receiver Characteristics

- Channels: 2 independent channels
- Frequency input: 283.5 to 325.0 kHz
- Channel spacing: 500 Hz
- Modulation: Minimum shift keying (MSK)
- MSK data rates: 100 and 200 bps
- Dynamic range: 100 dB
- Selectivity: > 60 dB at 400 Hz offset
- Operation modes: manual and automatic
- Internal antenna: H-field

## Communication Characteristics

- Data output: RTCM SC-104
- Serial RS232 support
- Port settings: 4800 baud, 8 data bits, 1 stop bit, no parity
- Bluetooth wireless technology
  - Bluetooth specification: 1.1
  - Bluetooth power class: 1
  - Profile: Standard serial port

## Physical Characteristics

- Size: 4.75" W x 4.95" L x 4.95" H (12.07 cm W x 12.57 cm L x 12.57 cm H)
- Weight: 0.58 kg (1.27 lbs) including 4 AA alkaline batteries, no pouch

## User Interface

- Power Button - On/Off push-button
- LED indication: Power - red, beacon lock - green, Bluetooth connection - Blue
- Advanced configuration setup and diagnostics via DGPS Configuration (MobileMapper software utility)
- Automatic tuning feature

## Power Characteristics

- Input Voltage: 4.0 to 6.0 VDC
- Batteries: 4 AA batteries, alkaline or NiMH
- Battery life: 8 hours continuous at 0° C
- Nominal current: 130 mA
- RF Connector: SMA socket
- Antenna Impedance: 50 ohms

## Environmental Characteristics

- Environmental Protection: IEC-529 IPX5
- Operating Temperature: -30° C to +70° C operating, excluding battery effects
- Storage Temperature: -40° C to +80° C, excluding batteries
- Humidity: 100% condensing, ingress protection to IPX5

## Standard Accessories

- 2 battery clips
- Pouch
- 4 AA batteries
- PC interface cable
- Printed manual

## Standard Accessories

- External H-field loop DGPS beacon antenna 3.3 VDC
- External RF cable (SMA to TNC)
- Serial cable

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