Trimble MPS865

MARINE POSITIONING SYSTEM GNSS RECEIVER

The Trimble® MPS865 is a highly versatile, rugged and reliable Global Navigation Satellite System (GNSS) positioning and heading solution for a wide variety of real-time and post-processing applications for marine survey and construction.

With a modular form factor, the MPS865 is flexible and can be used as an integrated on-board rover receiver, onshore land rover, a base station, or a continuously operating reference station. Since on-board space is scarce, the built-in precise heading feature ensures the receiver is of minimal size, consumes less power, and has less cabling.

The MPS865 improves usability in a congested marine construction site: multi constellations, cellular connectivity and beacon support. The multi-constellation option maintains productivity in marine sites or when antennas/satellites are partly obstructed. At many sites, the receiver can use the free-to-air beacon support. When coupled with the GA830 antennas, the MPS865 will receive the free-to-air beacon signals to deliver sub-meter accuracy horizontal positioning in many parts of the world. It always delivers precise heading even when no GNSS corrections are received.

The MPS865 has cellular inside—it is now easier to use base-station-free VRS onsite as well as communicate with the receiver via the internet and SMS messages. The receiver can also be used as a data access point on the vessel to download design files or for immediate remote support.

The patented GNSS-centric technology uses all available GNSS signals to deliver reliable positions in real-time. The MPS865 GNSS receiver allows the connection of two GNSS antennas for precise heading.

The MPS865 enables a broad range of mounting capabilities. In addition to the wide range of built-in communication options, the MPS865 features an internal removable battery, internal memory, and optional accessory kits for specific applications. The receiver is also compatible with a variety of software solutions including Trimble Marine Construction software and Trimble Siteworks software. The weatherproof, high-impact-resistant molded aluminum housing ensures your investment is safe in the extreme marine conditions typical of marine project sites or base station applications.

Key Features

- Rugged design built for marine environments
- Patented GNSS technology
- 480-channel tracking
- Dual GNSS antenna inputs for heading
- 1 PPS output for sonar synchronization
- OLED display, keyboard, and Web UI
- Optional internal transmit and receive 450 MHz UHF radio
- 3.5G cellular modem
- Bluetooth and WiFi communication
- SMS and email alerts
- Anti-theft technology
- Backup RTK - Hot Standby
- RTK bridge to rebroadcast corrections
- 2 MSS L-band channels

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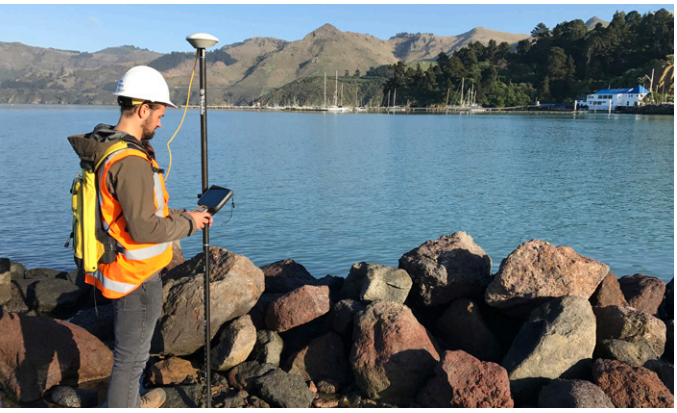

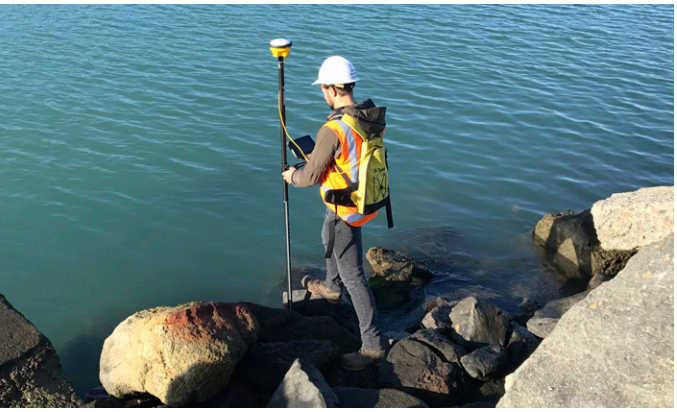

MPS865 AND SITEWORKS

Trimble Siteworks for Construction Surveyors

The Trimble Siteworks Positioning System enables surveyors to work with complex 3D models, collect large data sets faster, visualize complex 3D models more easily and work day or night efficiently.

- Import design files from Trimble Business Center or other CAD software
- Visualize and stakeout 3D designs
- Collect topographic data with feature codes for automated CAD drafting
- Progress volumes and reporting
- Easily configure and verify in the field
- Handle large and complex data sets and designs for fast data flow from collection to processing
- Choose between standing, walking and vehicle modes to optimize data collection based on the site

Siteworks is compatible with a range of data collectors to meet contractors' needs and budget including the Trimble TSC7 Controller, Trimble T7 and T10 Tablets, and also features Android compatibility.

Marine Applications

Configure and connect to the MPS865 GNSS Receiver using Trimble Siteworks software. Once connected, users can use the MPS865 in both base and rover mode. When in rover mode, mount the MPS865 on a vehicle or use the MPS865 in a backpack paired with a lightweight range pole and GNSS antenna.

With Siteworks, the same MPS865 can be used on site and on the vessel for both field rover measure up and topographic mapping.

Using Siteworks and the MPS865, more efficiently accomplish surveying tasks:

- GNSS base station setup
- Construction stakeout and as-built
- SonarMite echosounder integration for small scale bathymetric surveys
- Single beam echosounder surveys
- Measure on-land features such as beach profiles
- Quickly collect data when measuring up for beach reclamation and surveying port features

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