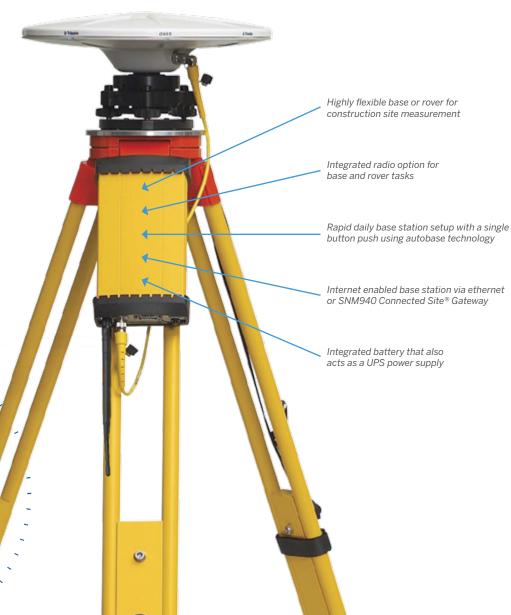
SPS855

GNSS MODULAR RECEIVER

FLEXIBLE RECEIVER FOR JOBSITE MEASUREMENT

Whether you need a reliable GNSS base station or a rugged rover, the Trimble® SPS855 GNSS Modular Receiver gives you the flexibility to perform all of your construction site measurements. As a permanent or semi-permanent base station, it provides GNSS corrections for site measurements and machine control. As a rover, it can move easily from a site supervisor truck to a pole mount for grade checking, site measurement and stakeout.

The versatile SPS855 receiver is available in a range of options to suit your jobsite or marine construction performance requirements. Simply purchase the receiver that you need today, and upgrade as your needs change.



Key Features

Secure and Easy to Use

The Trimble SPS855 is comprised of an integrated GNSS receiver and radio plus a choice of external antenna. The receiver can be placed in a secure environment such as the job trailer or boat cabin where it is protected from theft and weather. The less expensive antenna can be placed in a location with clear visibility to the sky and maximum radio coverage.

You don't have to be a GNSS expert to use the SPS855. Integrated 450 or 900 MHz license-free radio and interface with Trimble SCS900 Site Controller Software make the SPS855 easy to use, fast to setup and more productive on the job. Trimble AutobaseTM technology means anyone on the jobsite can perform daily base station set up with one button push.

For more advanced troubleshooting, the receiver's web interface allows your GNSS manager to remotely monitor base station performance, availability, and configuration. No need for time-consuming and costly visits to the base station to set up each day or diagnose issues that may arise.

The fully upgradable SPS855 GNSS Modular Receiver can be configured in a variety of ways. For example:

- As a base station only
- As a rover only with SBAS, Location, or Precision Real-Time Kinematic (RTK) accuracy
- As a flexible base or rover with Precision RTK accuracy

The SPS855 can be combined with the Trimble SPS555H Heading Add-on Receiver, for applications on cranes, construction vessels, and dredges where real-time position and orientation are important.



SPS855 GNSS Modular Receiver

GENERAL Keyboard and display Vacuum fluorescent display 16 characters by 2 rows Dimensions (L \times W \times D)

Weight

Dimmable. On/Off key for one-button startup
24 cm × 12 cm × 5 cm (9.4 in x 4.7 in x 1.9 in)
1.65 kg (3.64 lb) receiver with internal battery and radio 1.55 kg (3.42 lb) receiver with internal battery and no radio

ANTENNA OPTIONS

..... L1/L2/L2C GPS, SBAS, RTX and OmniSTAR

FNVIRONMENT

Operating ¹	40 °C to +65 °C (-40 °F to +149 °F)
Storage	40 °C to +80 °C (-40 °F to +176 °F)
Humidity	MIL-STD 810F, Method 507.4
Waterproof	IP67 for submersion to depth of 1 m (3.3 ft), dustproof
Pole drop	Designed to survive a 1 m (3.3 ft) pole drop onto a hard surface

MEASUREMENTS²

- 440-channel L1C/A, L1/L2/L2C GPS and QZSS.
- Upgradable to L5 and GLONASS L1/L2C/A, L1/L2P Full Cycle Carrier
- ReiDou
- CenterPoint™ RTX™ Correction Service
- OmniSTAR
- Trimble EVEREST™ multipath signal rejection
 4-channel SBAS (WAAS/EGNOS/MSAS/QZSS)

CODE DIFFERENTIAL GPS POSITIONING3

Horizontal accuracy. 0.25 m + 1 ppm RMS (0.8 ft + 1 ppm RMS)

REAL-TIME KINEMATIC (RTK UP TO 30 KM) POSITIONING³

 Horizontal accuracy.
 .8 mm + 1 ppm RMS (0.026 ft + 1 ppm RMS)

 Vertical accuracy
 .15 mm + 1 ppm RMS (0.05 ft +1 ppm RMS)

TRIMBLE XFILL

Horizontal accuracy.......RTK⁴ + 10mm/minute RMS Vertical accuracy RTK + 20mm/minute RMS

TRIMBLE CENTERPOINT RTX

INITIALIZATION TIME

OPERATION TIME ON INTERNAL BATTERY

Base station 450 MHz systems...... Approximately 11 hours; varies with temperature⁶ 900 MHz systems Approximately 9 hours; varies with temperature 220 MHz systems Approximately 9 hours; varies with temperature

External Power input on 7-pin 0-shell Lemo connector is optimized for lead acid batteries with a cut-off threshold of 11.5 V Power input on the 26-pin D-sub connector is optimized for Trimble Lithium-ion battery input with a cut-off threshold of 10.5 V

REGULATORY APPROVALS

 FCC: Part 15 Subpart B (Class B Device) and Subpart C, Part 90
 Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Canadian RSS-310, RSS-210, and RSS-119. Cet appareil est conforme à la norme

CNR-310, CNR-210, et CNR-119 du Canada. ACMA: AS/NZS 4295 approval

- CE mark compliance
- C-tick mark compliance UN ST/SG/AC.10.11/Rev. 3, Amend. 1 (Lithium-ion Battery) UN ST/SG/AC. 10/27/Add. 2 (Lithium-ion Battery)
- · RoHS compliant
- WEEE compliant
 China CRRC 220 MHz

......Through a multi-port adaptor Fully-integrated, fully-sealed 2.4 GHz Bluetooth module⁷ Integrated radios (optional). Fully-integrated, fully-sealed internal 450 MHz (UHF) Tx/Rx; internal 900 MHz Tx/Rx; internal 220 MHz Tx/Rx

- Receiver will operate normally to -40 °C. Internal batteries are rated to -20 °C.
- The Trimble SPS855 GNSS Modular Receiver is capable of supporting existing and planned GNSS satellite signals, including GPS, GLONASS, Galileo, CenterPoint RTX, Quasi Zenith Satellite System and BeiDou, and existing and planned augmentations to these GNSS systems. Support for the Galileo system is developed under a license of the European Union and the European
- Space Agency.

 Accuracy and reliability may be subject to anomalies such as multipath, obstructions, satellite geometry, and atmospheric conditions. Always follow recommended practices. 4 RTK refers to the last reported precision before the correction source was lost and xFill started.
- May be affected by atmospheric conditions, signal multipath, and satellite geometry. Initialization reliability is continuously monitored to ensure highest quality.
- 6 For receivers with the 2.0W upgrade, reduced battery performance should be expected compared to the 0.5W solution.
- Bluetooth type approvals are country specific. For more information, contact your local Trimble office or representative.

Specifications subject to change without notice.





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