

S8 GNSS Receiver



Key Features

Configurable

Internal UHF TX/RX radiomodem and GPRS, GPS Network ready rover offering wider scope

Certified

International certifications which include the accessories, batteries and battery charger with high standards; IP67 Waterproof degree

Powerful

Internal radiomodem with selectable output power 0.5/1 W

New design

New, optimized Italian design structure; better elimination of heat and increased the EMC behavior of the instrument

Compatibility

Compatible with Carlson SURV CE, MS FieldGenius and the new CUBE field software

S8 GNSS Receiver

A new opportunity for surveyors

The new STONEX S8 is one among the evolution of the range of GNSS receivers designed and manufactured by STONEX.

As with the S9III and S7 Series, S8 provides new opportunities for the Surveyor's needs, featuring top performances at an exceedingly reasonable cost.

STONEX S8 hosts a complete range of features and flexibility. The standard STONEX S8 receiver features an inbuilt internal UHF transmitting and receiving radio modem, GSM/GPRS module for GPS network connection facilitating direct communication, and Bluetooth™ device for wireless communication.

Designed in Italy with an aluminum lower casing, the STONEX S8 allows a better heat dissipation generated from the internal radio modem to increase the performance and durability

New frontal panel with indicators led for individual functions to indicate the status of receiver



STONEX S8 receivers ensure a quick and easy setup in all working modes. The broader compatibility of STONEX S8 with S9III, S9II, and with Trim talk™ protocol, lets you to combine S8 as a TX Base / Rover unit with other STONEX and non STONEX GNSS receivers. Survey has never been so easy, thanks to the integrated STONEX CUBE software.

STONEX Cube – Professional application software for survey professionals developed at STONEX facilities combines a fresh and easy interface enabling a simple and powerful workflow for the user. Its integration with STONEX GNSS receivers makes CUBE, the most preferred tool for day-to-day work of Survey Professionals.

Technical features S8

| Receiver | |
|--------------------------------|---|
| Channels | 120 |
| Satellite tracked | GPS: Simultaneous L1, L2, L2C |
| | GLONASS: Simultaneous L1, L2 |
| | GALILEO: E1 |
| | GIOVE-A / GIOVE-B: test |
| | COMPASS: reserved |
| | SBAS: Simultaneous L1 C/A, L5 |
| Position rate | Up to 20 Hz |
| Signal recapture | < 1 sec |
| Hot start | typically < 10 sec |
| Cold start | typically < 15 sec |
| Internal memory | 256 Mb |
| Micro SD Card | 4 Gb Internal Memory (Over 60 days of raw static data storage with recording sample every 1 second) |
| Accuracy specifications | |
| Static horizontal | 5 mm \pm 0.5 ppm (RMS) |
| Static vertical | 10 mm \pm 0.5 ppm (RMS) |
| Fixed RTK horizontal | 10 mm \pm 1 ppm (RMS) |
| Fixed RTK vertical | 20 mm \pm 1 ppm (RMS) |
| Single Point L1 L2 positioning | 1,2 m (3D RMS) |
| SBAS positioning | typically < 5 m (3D RMS) |
| Code differential positioning | 0,25m (3D RMS) |
| Communication | |
| Connectors I/O | 7-pins Lemo and 5-pins Lemo interfaces. Multicable with USB interface for connecting with PC |
| Bluetooth device | 2,4 Ghz class II: maximum range 50 m |
| Reference outputs | CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 |
| Navigation outputs | Navigation output support for NMEA-0183 and detailed NovAtel ASCII and binary logs. |
| Internal radio | |
| Frequency range | 410 - 470 MHz |
| Channel spacing | 25 KHz |
| Output power | 0,5 -1 W |
| Maximum range | About 3-4 Km (urban environment) |

| GPRS/GSM module | |
|---|---|
| Device | Telit_GC864-QUAD_V2 |
| Band | Quad-Band GSM 850/900/1800/1900 MHz GPRS Multislot class 12 GSM release 99 EDGE (E-GPRS) Multislot class 10 |
| Output power | Class 4 (2W) for EGSM850 Class 4 (2W) for EGSM900 Class 1 (1W) for GSM1800 Class 1 (1W) for GSM1900 |
| Power supply | |
| Battery | 2500mAh high capacity Lithium battery, Voltage 7,2V |
| Voltage | 9 to 15V DC external power input with over-voltage protection |
| Working time in static mode (GPS+GLONASS) | 7 hours |
| Working time in GSM RTK with cable connection (GPS+GLONASS) | 6.5 hours |
| Working time in GSM RTK with Bluetooth connection (GPS+GLONASS) | around 4 hours |
| Charge time | typically 7 hours |
| Power consumption | < 3,8 W |
| Remaining time battery light blinking | 1 hour |
| Physical specification | |
| Weight | 1,2 Kg with internal battery, radio standard UHF antenna |
| Operating temperature | -30°C to 60°C (-22°F to 140°F) (internal radio TX 50°C) |
| Storage temperature | -40°C to 80°C (-40°F to 176°F) |
| Waterproof/Dustproof | IP67. Protected from temporary immersion to depth of 1 meter and from 100% humidity |
| Shock resistance | Designed to survive a 2 m pole drop on concrete |
| Vibration | Vibration resistance |
| Winter Grade Option | Operating at -40°C (-40°F) |

Specifications subject to change without notice.



STONEX AUTHORIZED DEALER

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