

## S9 THIRD GENERATION GNSS RECEIVER FOR PROFESSIONAL SURVEY

The new STONEX® S9 III is the updated version of the worldwide known STONEX S9 II.

With its new firmware design S9 III improves performances on the field for professional survey.

S9III combines a compact and light body with an embedded 220 channels GNSS board, accurate and fast in satellite fixing, an internal UHF transmitting and receiving radio, GSM/GPRS module for network connection and direct call, and a Bluetooth device for wireless purposes.

A new Italian design with an aluminum bottom cover allows a better heat dissipation for internal radiomodem.

IP67 certification ensures an optimal watertight for mechanical parts, a high shock resistance and completely sealed against dust.

S9III receiver ensures a quick setup for all required working mode.



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

The internal radiomodem allows to reach up to 4 Km in the urban area with selectable output power 0.5/1 W

### CONFIGURABLE

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

### CERTIFICATED

More international certifications (even on the accessories, as batteries and battery charger) - IP67 waterproof degree

### POWERFUL

Internal radiomodem allows to reach up to 4 km in the urban area with selectable output power 0.5/1 W

### NEW DESIGN

Aluminum bottom cover for a better elimination of heat, increased EMC behavior of the instrument, new front panel with led's indicator

### INTEGRABLE

Compatible with Carlson SURV CE and the most known mobile survey software

## KEY FEATURES

Receiver	
Channels	220
Satellite tracked	GPS: Simultaneous L1 C/A, L2E, L2C,L5 GLONASS: Simultaneous L1 C/A, L1P, L2 C/A (GLONASS M Only), L2P SBAS: Simultaneous L1 C/A, L5 GIOVE-A (reserved): Simultaneous L1 BOC, E5A, E5B, E5AltBOC1. COMPASS: (reserved): B1 (QPSK), B1-MBOC (6,1, 1/11), B1-2 (QPSK), B2 (QPSK), B2-BOC (10,5), B3 (QPSK),B3BOC (15,2,5), L5 (QPSK)
Position rate	Up to 20 Hz
Signal recapture	< 1 sec
RTK signal initialization	typically < 10 sec
Initial capture time	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	3 mm ± 0.5 ppm (RMS)
Static vertical	5 mm ± 0.8 ppm (RMS)
Fixed RTK horizontal	1 cm ± 1 ppm (RMS)
Fixed RTK vertical	2 cm ± 1 ppm (RMS)
Code differential posit.	0,45 m (CEP)
Stand Alone RTK posit.	1,5 m (CEP)
SBAS positioning	typically < 5 m (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 is 50 m
Reference outputs	CMR, CMR+, RTCM 2.3, RTCM 3.0, RTCM 3.1
Navigation outputs	ASCII (NMEA-0183) GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS.
Internal radio modem (Optional on S9III N)	
Device	MDS TRM 450
Frequency range	410 - 470 MHz
Channel spacing	25 Khz
Emitting 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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