



STONEX

S9 GNSS RTK LIL2



STONEX S9 GNSS

Control panel with the following indicators and buttons:

- STA (Station) indicator
- Bluetooth symbol
- DL (Data Link) indicator
- PWR (Power) indicator
- Buttons: F (Factory Reset), I (Info/Menu)

Technical features		S9 GNSS RTK LIL2	
RTK device	Trimble BD970	Serial protocols	Reference outputs: CMR, CMR+, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1.
Channels	220		Navigation outputs: ASCII (NMEA-0183 GSV), AVR, RMC, HDT, VGK, VHD, ROT, GKG, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS, GSOF.
Satellite tracked	GPS: Simultaneous L1 C/A, L2E, L2C, L5. GLONASS: Simultaneous L1 C/A, L1 P, L2 C/A (GLONASS M Only), L2 P. SBAS: Simultaneous L1 C/A, L5. GIOVE-A: Simultaneous L1 BOC, E5A, E5B, E5AltBOC1. GIOVE-B: Simultaneous L1 CBOC, 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). Very low noise GNSS carrier phase measurements with < 1 mm precision in a 1 Hz bandwidth.	Internal Radio	only receiving
Position rate	up to 50 Hz	Frequency range	450-470 MHz
Signal recapture	< 1 sec	Channel spacing	6.25 KHz
• RTK signal initialization	typically < 10 sec	GPRS/GSM module	Siemens MC75
• Initial capture time	typically < 15 sec	Band	Quad-Band GSM 850/900/1800/1900 MHz
Internal memory	64 MB		GPRS Multislot class 12
Accuracy specifications			GSM release 99
Static horizontal accuracy	3mm ± 1ppm (RMS)	Output power	EDGE (E-GPRS) Multislot class 10
Static vertical accuracy	5mm ± 1ppm (RMS)		class 4 (2 W) for EGSM850, class 4 (2 W) for EGSM900, class 1 (1 W) for GSM1800, class 1 (1 W) for GSM1900
Fixed RTK horizontal accuracy	1cm ± 1ppm (RMS)	Maximum range	70km
Fixed RTK vertical accuracy	2cm ± 1ppm (RMS)	Power supply	
Code differential positioning accuracy	0.45m (CEP)		Adopt 2500mAh high capacity Lithium battery, Voltage 7.2 V
Stand Alone RTK positioning accuracy	1.5m (CEP)		9 to a 15V DC external power input with over-voltage
SBAS positioning accuracy	typically < 5m (3D RMS)	Working time in static mode	typically 6 hours
Communication		Working time in RTK rover mode	typically 4 hours
Connectors I/O	9-pins serial port (baud rate up to 115.200kbps) and 5-pins LEMO interfaces. Multicable with USB interface for connecting with PC Controller cable for supporting mobile phone GPRS connections	Charge Time	typically 7 hours
Bluetooth device	2.4 GHz class II: maximum range is 50m	Power consumption	< 3.8 W
		Remaining time with battery light blinking	1 hour
		Physical specification	
		Weight	1.2 Kg with internal battery, radio standard UHF antenna
		Operational temperature	-25°C to 60°C (-13°F to 140°F)
		Storage temperature	-55°C to 85°C (-67°F to 185°F)
		Waterproof	protected from temporary immersion to depth of 1 meter and from 100% humidity
		Shock resistance	designed to survive a 2m pole drop on concrete
		Dustproof, Vibration resistance	

