

GPS/GNSS handheld receiver: GIS & SURVEY in one SOLUTION



The new STONEX S7 series GPS/GNSS receivers combine the modern positioning technology and versatility of a powerful handheld, perfect for collecting geographic data and operate fast and accurate measurements. The S7 handheld is compact, ergonomic and small size and weight: 234 mm x 99 mm and less than 900g. S7 are powered by a Marvell Xscale PXA-310 806MHz processor, and Windows Mobile 6.5 Professional operating system. To increase performance and to load the job data is available an SD card slot for external memory (internal 4 GB is included). All the S7 integrate a GSM/GPRS modem, that provides fast and efficient internet connection directly on the field, and Wi-Fi and Bluetooth technology, that allow the user to transfer data quickly and conveniently on long distances. Thanks to the internal modem

there is also the possibility to improve the accuracy of data, connecting to real time differential correction network provider. The two different available models can cover all the different survey applications, from GIS to high accuracy surveying. STONEX S7-D is an handheld GNSS receiver (L1, GPS, GLONASS, SBAS), designed to collect data in a quick and accurate way, as well as efficiently inspect and stake out assets.

STONEX S7-G is a real revolution in the world of GNSS receivers (L1, L2, GPS, GLONASS, SBAS): all in one hand with centimetric accuracy.

Both receivers can be equipped with GeoGis, a software application developed by Stonex.



Internal GNSS antenna for centimetric accuracy in RTK environment, a real topographic Rover ALL in one hand



Wi-Fi, Bluetooth, GPRS modem, 5 MP camera, voice call and MMS, Mini waterproof USB connector



See more @ <http://www.stonexpositioning.com/index.php/en/prodotti/gps>

FLEXIBLE

Choose your S7 for GIS and/or high accuracy surveying jobs, with integrated STONEX software

UNIQUE

Internal GNSS antenna for centimetric accuracy in RTK environment, a real topographic Rover ALL in one hand

POWERFUL

Up to 120 channels GNSS receiver for RTK centimetric surveying, ALL in one hand

COMPLETE

Wi-Fi, Bluetooth, GPRS modem, 5 megapixel camera, voice call and MMS, Mini waterproof USB connector, all included as standard, no options for STONEX S7

EASY TO USE

High performance touch screen 3.7" high resolution 640x480 pixel display, sunlight-optimized

KEY FEATURES

System Abstract	
Sunlight-readable 3.7" Polarized TouchScreen	
Built-in GSM Mobile Station Modem	
Wi-Fi and Bluetooth Wireless Technology	
5 Megapixel Autofocus Camera, Windows Mobile 6.5 Professional	
Battery (Rechargeable Lithium)	
Battery Capacity	11.1V × 2500mAh
Working Hours	8 hours (normal use)
Size and Weight	
Size	234 × 99 × 56 mm (L*W*D)
Weight	S7 G: 895g (battery included)
	S7 D: 850g (battery included)
Environment	
Humidity	5%~95% RH (non-condensing)
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
Waterproof/Dustproof	IP65
Camera	
Static Mode	AF 5MP
Image Format	JPG (2048×1536)
Video Mode and File Format	QVGA Resolution - WMV
Display	
Model	TFT colors, LED backlight
Resolution and Size	640 × 480 - 3.7" (diagonal)
Cellular Mobile and Wireless System	
GPRS	850/900/1800/1900MHz
Wi-Fi	802.11b/g
Bluetooth	Version 2.1 + EDR

Mechanical Shock	
Drop Test	1.2 m on concrete
Interface and Input	
Integrated Speaker and Microphone	
Soft Keyboard Numbers and Characters Input, SIM Socket	
External Power Supply Connector, SDHC card socket	
Buttons and Control	
Navigation Button, Power Button, Confirm Button	
F1 - F4 (customized function buttons), Windows Button	
Data Communication	
Voice Call and MMS, Mini Waterproof USB Connector	
802.11b/g Wireless LAN, Built-in GPRS/GSM Comm. module	
EDGE Support, Standard Bluetooth, Voice Call and MMS	
Hardware	
Processor	Marvell PXA-310 806 MHz Xscale CPU
RAM	256MB
Flash Memory	256MB + 4GB
External Storage	SDHC 4GB included (max. 16 GB)
Operation System	Windows Mobile 6.5 Professional
Input/Output	
NMEA 0183 Support	Available
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1,3.2, CMR, CMR+,RTCA
Standard Accessories	
Soft Bag, Charger Adapter, USB Cable, Rear Hand-strap, Battery	
Stylus Pen with String, CD and Manual, Screen Protector, Car adapter	
Optional Accessories	
Telescopic pole, Backpack kit for external antenna	
External antenna (GPS, GLONASS, L1-L2)	
External antenna cable (2m or 5m), Holder for pole, Carrying case	

Serie	S7 D	S7 G
Receiver	120 Channels ¹	120 Channels ¹
System	GPS (L1 C/A, L1); GLONASS (L1 C/A, L1), GALILEO (E1 test), COMPASS (L1), SBAS	GPS (L1 C/A, L1, L2, L2C), GLONASS (L1 C/A, L1, L2), GALILEO (E1 test), COMPASS, SBAS
Update Rate	5Hz ²	5Hz ²
Initialization time	<10s	<10s
Time to First Fix	<50s (Cold Start) ³	<50s (Cold Start) ³
	<35s (Hot Start) ⁴	<35s (Hot Start) ⁴
NMEA 0183 Support	Available	Available
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, 3.2, CMR, CMR+,RTCA	RTCM 2.1, 2.3, 3.0, 3.1,3.2, CMR, CMR+,RTCA
Accuracy ⁵	S7 D - GNSS	S7 G - GNSS
Positioning Accuracy	Sub-meter/decimeter	Centimeter
Accuracy internal antenna	Decimeter	RTK hor: 2cm+1ppm; RTK vert: 3cm+2 ppm
Accuracy external antenna	Decimeter	RTK hor: 1cm+1ppm; RTK vert: 2cm+1.5ppm
Postprocessed	<0.5m + 1ppm	5mm + 1ppm (horizontal)
Autonomous	1.5m (RMS)	1.2m (RMS)
SBAS	0.6m (RMS) ⁶	0.6m (RMS) ⁷
DGPS	0.5m (RMS)	0.4m (RMS)

Specifications subject to change without notice

¹Parallel tracking (10-channel when tracking SBAS).²Standard configuration for handheld use.³No almanac or ephemerides and no approximate position or time.⁴Almanac and recent ephemerides saved, approximate position and time entered.⁵Performance specifications subject to GPS system characteristics, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.⁶GPS only. Clock aligned to GPS system time.⁷GPS only.

STONEX AUTHORIZED DEALER



STONEX® srl

Via Cimabue 39 - 20851 Lissone (MB) Italy
Phone +39 039 2783008 Fax +39 039 2789576
www.stonexpositioning.com
info@stonexpositioning.com