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 three different available models can cover all the different survey applications, from GIS to high accuracy surveying.

> > **KEY FEATURES**

STONEX S7-S is an handheld GPS receiver (L1, GPS, SBAS), designed to collect data in a quick and accurate way, as well as efficiently inspect and stake out assets. The S7-S can be equipped with Internal GNSS antenna for centimetric accuracy in RTK environment.

GeoGis, a software application developed by a real topographic Rover ALL in one hard STONEX® Europe. STONEX S7 - D a dds a more powerful GNSS receiver system, thanks GNSS L1 C/A + phase capabilities, tracking GPS, GLONASS and SBAS. STONEX S7-G, a real revolution in the world of GNSS receivers: all in one hand, a GPS, GLONASS and Galileo 120 channels receiver, with centimetric accuracy.



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

POWERFUL

EASY TO USE

TECHNICAL FEATURES S7 S/D/G



System Abstract			
Sunlight-readable 3.7" Polarize	ed TouchScreen		
Built-in GSM Mobile Station M	lodem		
Wi-Fi and Bluetooth Wireless	Technology		
5 Megapixel Autofocus Camer	a, Windows Mobile 6.5 Pro		
Battery (Rechargeable Lithiun	n)		
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 S/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	1.2 m (Aft) to always ad ayer consists		
Drop Test	1.2 m (4ft) to plywood over concrete		
Interface and Input	and the large records:		
Integrated Speaker and N			
	and Characters Input, SIM Socket		
	onnector, SDHC card socket		
Buttons and Control			
Navigation Button, Power Button, Confirm Button			
F1 - F4 (customized function buttons), Windows Button			
Data Communication	NAME OF THE PROPERTY OF		
Voice Call and MMS, Mini Waterproof USB Connector			
	Built-in GPRS/GSM Comm. module		
CDGE Support, Standard	Bluetooth		
Hardware			
Processor	Marvell PXA-310 806 MHz Xscale CPU		
RAM and	256MB		
Flash Memory	256MB + 4GB		
External Storage	SDHC 4Gb included (max. 16 GB)		
Operation System	Windows Mobile 6.5		
Input/Output			
NMEA 0183 Support	Available		
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+,RTCA		
Standard Accessories			
Soft Bag, Charger Adapte	r, USB Cable, Rear Hand-strap, Battery		
Stylus Pen with String, Cl	and Manual, Screen Protector, Car adapter		
Optional Accessories			
Telescopic pole, Backpac	k kit for external antenna		
External antenna (GPS, G	LONASS, L1-L2)		
External antenna cable (2	m or 5m), Holder for pole, Carrying case		

Serie	S7 S	S7 D	S7 G
Receiver	12 Channels ¹	14 Channels	120 Channels
System	GPS (L1 C/A, L1 carrier phase smoothing), SBAS	GPS (L1 C/A, L1); GLONASS (L1 C/A, L1)	GPS (L1 C/A, L1, L2, L2C), GLONASS (L1 C/A, L1, L2), GALILEO (E1 test), COMPASS, SBAS
Update Rate	1Hz ²	1Hz ²	1Hz ²
Initialization time	< 15s	< 15s	<10s
Time to First Fix	< 60s (Cold Start) ³	<60s (Cold Start) ³	<50s (Cold Start) ³
	< 35s (Hot Start) ⁴	<35s (Hot Start) ⁴	<35s (Hot Start) ⁴
NMEA 0183 Support	Available	Available	Available
RTCM/CMR Support	RTCM SC-104 v2.x	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+,RTCA	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+,RTCA
Accuracy ⁵	S7 S - GPS	S7 D - GNSS	S7 G - GNSS
Positioning Accuracy	Sub-meter/decimeter	Sub-meter/decimeter	Centimeter
Accuracy internal antenna	Decimeter	Decimeter	RTK hor: 2cm+1ppm; RTK vert: 3cm+2 ppm
Accuracy external antenna	Decimeter	Decimeter	RTK hor: 1cm+1ppm; RTK vert: 2cm+1.5ppm
Postprocessed	<0.5m + 1ppm	<0.5m + 1ppm	5mm + 1ppm (horizontal)
Autonomous	2.5m (RMS)	1.5m (RMS)	1.2m (RMS)
SBAS	0.6m (RMS)	0.6m (RMS) ⁶	0.6m (RMS) ⁷
DGPS	0.5m (RMS)	0.5m (RMS)	0.4m (RMS)

Specifications subject to change without notice

¹ Parallel tracking (10-channel when tracking SBAS).² Standard configuration for handheld use.³ No almanac or ephemerides and no approximate position or time. Almanac and recent ephemerides saved, approximate position and time entered. 5 Performance 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. 6 GPS only. Clock aligned to GPS system time. 7 GPS only.













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