

GNSS RECEIVER FOR MOBILE APPLICATIONS

Break the barrier

Until today the GPS world was divided into two main parts, high accuracy receivers for Land Surveyors on one side, GIS and low accuracy positioning and navigation devices on the other. In the middle, the submeter accuracy Handheld Windows Mobile GPS, integrated devices with great limitations due to the operating system and to the non upgradable hardware, forcing the User to purchase complete (display, GPS, keyboard, battery ...) and expensive devices, soon obsolete. Today, thanks to the smallest, rugged and most advanced SMART Mobile GPS, anyone can improve the positioning capabilities of already existent modern devices, as Smartphones, Android and Windows Tablet, Notebook ... just adding the new STONEX S5 SMART Mobile GNSS receiver.

SMART connections and WEB UI

STONEX S5 uses the most modern connection technologies: even if the traditional Bluetooth™ connectivity is present, Stonex S5 Linux based System, is equipped with WiFi connectivity, for an efficient, fast and reliable data connection with the external device. The friendly Web User Interface makes Stonex S5 an 'active device', giving the User a complete control of the unit, regardless of the application software used on the external device.

Work where you need

Stonex S5 SMART Mobile GNSS supports multiple constellations - GPS, GLONASS, Beidou, Galileo - and SBAS accuracy augmentation systems, to make safe working sessions using several available and visible satellites.

Thanks to the integrated GPRS modem, S5 can take advantage from existing GPS Networks, directly receiving corrections from the Network and without to keep busy the external device phone and using slow and not always reliable non WiFi connections. And the submeter accuracy will be always available without the necessity to use other additional and expensive services.

SMART Solutions

High accuracy Agriculture, Mapping, GIS data collection, environmental agencies, Forestry are just a short list of the fields where Stonex S5 will give a decisive impulse to the productivity and to the quality of the positioning data: and using the already existent devices, as Smartphones and Tablet with Android, iOS, Windows operating system.

Stonex GeoGis (for Windows Mobile™), ENLIL (ANDROID) and hundreds of third party software applications are already available for STONEX S5 GNSS.



WIFI AND LONG RANGE BLUETOOTH™ CONNECTION

to any external Android, Windows, iOS device

3.75G (FOR HSPDA+) INTEGRATED MODEM

for an immediate GPS Network corrections support

WEB UI

gives the total control of the unit even to non expert Users

A WORLD OF READY SOLUTIONS

for several application fields

ANDROID, IOS, WINDOWS

choose your preferred controller and O.S.

KEY FEATURES

RECEIVER

Channels	372, parallel tracking
GNSS module	Internal GNSS antenna: GPS L1/GLONASS L1/BEIDOU B1 Galileo and QZSS ready
	SBAS 3 channels parallel tracking
	Ublox 6 m for assisted navigation
	Customizable NMEA protocols through WEB UI
	RTK correction protocols: CMR, CMR+, RTCM 2.x, 3.0, 3.1, 3.2

POSITIONING ACCURACY¹

Range	Sub meter - decimeter
Post-differential Positioning	< 0.5 m+1 ppm
Point Positioning (Autonomous)	1.2 m (RMS)
DGPS Positioning	0.5 m (CEP)
SBAS Positioning	0.6 m (RMS)
RTK (GPS Network/CORS connected)	0.3 m – 0.6 m ¹

COMMUNICATION

Connector I/O	SMB external antenna port
	Mini USB (for stored NMEA files download and charging)
	Buzzing
Bluetooth™	SIM Slot
	Long range (50m) Bluetooth™ 2.1

Wi-Fi	IEEE 802.11 a/b
Network Module	Support WCDMA/HSDPA+/GPRS
WebUI	Yes
Supported Platforms	ANDROID, Windows Mobile™, WinCE, Windows Systems

POWER SUPPLY

Battery	Li-Ion 3.7 V/6800 mAH, 8 hours life
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PHYSICAL SPECIFICATION

Size & Weight	11,9 x 8,6 x 3,2 cm; 290 g
Operating temperature	-30°C to 65°C
Storage temperature	-40°C to 80°C

Waterproof/Dustproof	IP67
	Drops: 1.2m four sides @normal temperature, -20°C

OS	Linux
Platform	AM335X

Keypad and Display	Four LEDs with specific functions: power, satellite, network, data (raw data or differential data)
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Memory	512 MB
Storage	Internal 4 GB

IN THE BOX

STONEX S5 instrument unit, 2 pin adapter, 5.35 V/2A, USB cable, soft bag for S5 (color: black)
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Figures, specifications and descriptions subjected to modifications without notice

¹ The accuracy of any measurement is subject to possible anomalies due to satellites geometry, atmospheric conditions, electromagnetic disturbances, obstructions. Follow the S5 User Guide to get the best possible performances.



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