

S500 GNSS Receiver

GNSS Receiver for GIS & RTK Applications





S500 Small and lightweight GNSS Receiver

Compared to traditional GIS products, the \$500 is an intelligent, high precision data acquisition receiver that can be used without the need to hold it in your hand and therefore offers greater freedom of movement and flexibility.

Thanks to the internal web interface, the receiver can be configured and prepared to receive RTK differential corrections and ready to be connected to any software for Survey or GIS.

The \$500 offers high-precision positioning and is equipped with a high speed 4G module. The positioning is so fast and reliable that it can also be used by vehicles moving at high speed. \$500 works with all 4 satellite system (GPS, Glonass, BeiDou, Galileo), support access to external differential RTK signal to get centimeter level positioning results.

Rubber protective cover, increase the protection of the device, non-slip and no damage, the whole device protective class reaches IP67, and it resists 1.2m hard ground drop.





ANDROID SYSTEM Android system on board



4 CONSTELLATION SYSTEM

GPS, Glonass, BeiDou, Galileo



HIGH PRECISION

High precision positioning, centimetric accurancy



WEB UI Web interface for controlling and managing settings



DATA TRANSMISSION Wi-fi, Bluetooth and 4G



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S500 GNSS Receiver From GIS to Topography

\$500 is a versatile and flexible instrument, capable to offer high accuracies for the demanding users, switching from GIS to topographic Survey.

Precision Farming, Mapping, GIS data collection, environmental agencies, forestry are just a short list of the fields where Stonex S500 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.



S500 TECHNICAL FEATURES

Small and lightweight GNSS Receiver for GIS & RTK Applications

With its innovative design and contained dimensions and weight, Stonex S500 is the ideal GNSS receiver for GIS applications that require accurate precision. The GNSS receiver S500, single frequency, tracks the constellations GPS, GLONASS, BEIDOU, GALILEO, SBAS.

Equipped with sim slot and 4G support, the S500 uses real-time RTK differential corrections to achieve centimeter accuracy.

Satellite Tracked	GPS: L1 GLONASS: L1 BEIDOU: B1	I/O Connectors Bluetooth	TYP C connector support USB 2.0
Satellite Tracked	BEIDOU: B1	Bluetooth	
Satellite Tracked			4.0, 2.4 GHz
		Wi-Fi	802.11 g
	GALILEO: E1	Differential	RTCM 2.x, 3.x
	SBAS: L1		CMR
Channels	432		
Position Rate	Up to 20 Hz	POWER SUPPLY	
Signal Reacquisition	< 1 sec	Battery	Rechargeable
RTK Initialization	Typically > 120 sec		3.8 V - 6.000 mAh
Hot Start	Typically < 15 sec	Working Time	Up to 10 hours (Post Processing)
Initialization Reliability	> 99.9 %		Up to 8 hours (RTK with GSM)
~		Charge Time	Typically 6 hours
POSITIONING ¹			
POST PROCESSING 1 cm		PHYSICAL SPECIFICATION	
DGPS	<50 cm	Dimensions	136 mm x 78 mm x 31 mm
RTK ²	3 cm	Weight	350 gr
		Operating Temperature	-30°C to 65°C (-22°F to 149°F)
INTEGRATED GNSS ANTENNA		Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Four constellation antenna		Waterproof/Dustproof	IP67
HARDWARE		Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage
Processor	SC20	STANDARD ACCESSORIES	
RAM	512 MB		
Flash Memory	8 GB	USB cable, Belt Case	
Operating System	Android		
operating of stell		OPTIONAL ACCESSORI	ES
INTERNAL MODEM		Carbon fiber pole, Telescopic pole, Bracket 5/8", Soft Case	
Pand	GSM/GPRS/EDGE		

Band

 Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions. In static mode they are subject even to occupation times: the longer is the Baseline, the longer must be the occupation time.

WCDMA/LTE

Network RTK precision depends on the network performances and are referenced to the closest physical base station.

Illustrations, descriptions and technical specifications are not binding and may change





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