

# S500 GNSS Receiver GNSS Receiver for GIS & RTK Applications STONEX



# 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.

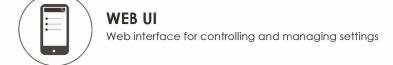
Rubber protective cover, increase the protection of the device, non-slip and no damage, the whole device protective class reaches IP67, and it resists 1.2m hard ground drop.

















### \$500 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 \$500 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 \$500 is the ideal GNSS receiver for GIS applications that require accurate precision. The GNSS receiver \$500, single frequency, tracks the constellations GPS, GLONASS, BEIDOU, GALILEO,

Equipped with sim slot and 4G support, the \$500 uses real-time RTK differential corrections to achieve centimeter accuracy.

RECEIVER		COMMUNICATION	
	GPS: L1	I/O Connectors	TYPE C connector support \
	GLONASS: L1	Bluetooth	4.0, 2.4 GHz
Satellite Tracked	BEIDOU: B1	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		Rechargeable
RTK Initialization	Typically > 120 sec	Battery	3.8 V - 6.000 mAh
Hot Start	Typically < 15 sec		Up to 10 hours (Post Proces
Initialization Reliability	> 99.9 %	Working Time	Up to 8 hours (RTK with GS
		Charge Time	Typically 6 hours
POSITIONING <sup>1</sup>			
POST PROCESSING	1 cm	PHYSICAL SPECIFICATION	
DGPS	<50 cm	Dimensions	136 mm x 78 mm x 31 mm
RTK <sup>2</sup>	3 cm	Weight	350 gr
		Operating Temperature	-30°C to 65°C (-22°F to 149
INTEGRATED GNSS ANTENNA		Storage Temperature	-40°C to 80°C (-40°F to 176
Four constellation antenna		Waterproof/Dustproof	IP67
HARDWARE		Shock Resistance	Designed to endure to a 1.2 m on concrete floor with no dam
Processor	SC20		
RAM	512 MB	STANDARD ACCESSORIES	
Flash Memory	8 GB	USB cable, Belt Case	
Operating System	Android		
		OPTIONAL ACCESSOR	IES
INTERNAL MODEM		Carbon fiber pole, Telescopic pole, Bracket 5/8", Soft Case	
Band	GSM/GPRS/EDGE WCDMA/LTE		

1.	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.

<sup>2.</sup> 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



## **STONEX®**

TYPE C connector support USB 2.0

Up to 10 hours (Post Processing) Up to 8 hours (RTK with GSM)

-30°C to 65°C (-22°F to 149°F) -40°C to 80°C (-40°F to 176°F)

Designed to endure to a 1.2 m pole drop on concrete floor with no damage