





Small and lightweight GNSS Receiver

S580 is a compact and light GNSS receiver but at the same time performing and with centimeter accuracy. S580 track double frequency signals and works with all satellite systems (GPS, Glonass, BeiDou, Galileo, QZSS).

Compared to traditional GIS products, the \$580 is an intelligent, high precision data acquisition receiver that can be worn or mounted on a pole, offering greater freedom of movement and flexibility.

The \$580 can communicate with an external device like a tablet, a smartphone or a PC through Bluetooth and Wi-Fi. Thanks to the internal web interface, or through the receiver can be configured and prepared to receive RTK differential corrections and connected to any software for Survey or GIS. 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



FULL CONSTELLATION SYSTEM

GPS, Glonass, BeiDou, Galileo, QZSS



HIGH PRECISION

High precision positioning, centimetric accuracy



WEB UI

Web interface for controlling and managing settings



DATA TRANSMISSION

Wi-fi, Bluetooth and external radio



RTK AND POST-PROCESSING

\$580 can work in real time with RTK corrections and simultaneously record the raw data for post-processing.



\$580 GNSS Receiver

From GIS to Topography

\$580 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, fotogrammetry by UAV, forestry are just a short list of the fields where Stonex \$580 will give a decisive impulse to the productivity and to the quality of the positioning data; with the ability to use the already existing devices, as Smartphones and Tablet with Android and Windows operating system.



UNI EN ISO 9001:2015 - S580 - APRIL 2021 - VER01 - REV-02

S580 TECHNICAL FEATURES

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	GPS: L1C/A, L2C	
	GLONASS: L1OF, L2OF	
Catallita signals tracked	BEIDOU: B1, B2	
Satellite signals tracked	GALILEO: E1, E5b	
	QZSS: L1C/A, L2C	
	SBAS: L1 ¹	
Channels	184	
Position Rate	Up to 10 Hz	
Signal Reacquisition	< 2 sec	
RTK Initialization	Typically > 10 sec	
Hot Start	Typically < 15 sec	
Initialization Reliability	> 99.9 %	

POSITIONING²

STATIC POST PROCESS	ING	
Horizontal	< 2 cm + 1 ppm RMS	
Vertical	< 3 cm + 1 ppm RMS	
CODE DIFFERENTIAL PO	OSITIONING	
Horizontal	< 0.5 m RMS	
Vertical	< 1.0 m RMS	
REAL TIME KINEMATIC		
Fixed RTK Horizontal	< 2 cm + 1 ppm RMS	
Fixed RTK Vertical	< 3 cm + 1 ppm RMS	

INTEGRATED GNSS ANTENNA

Full constellation GNSS antenna

HARDWARE

Processor	SC20	
RAM	512 MB	
Flash Memory	8 GB	
Operating System	Android	

- Enabled through future firmware update.

 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.
- 3. Varies with the operating environment and with electromagnetic pollution.

EXTERNAL RADIO (optional)

Model	SR02
Type	Tx - Rx - Transceiver (2 watt)
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Maximum Danas	3-4 Km in urban environment
Maximum Range	Up to 10 Km with optimal conditions ³

COMMUNICATION

I/O Connectors	TYPE-C connector support USB 2.0
Bluetooth	2.1+EDR / 3.0 / 4.1 LE
Wi-Fi	802.11 b/g/n
Real time protocols	RTCM 3 x

POWER SUPPLY

Battery	Rechargeable 3.8 V - 6.120 mAh
Working Time	> 10 hours
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	136 mm x 78 mm x 31 mm		
Weight	313g		
Operating Temperature	-40°C to 65°C (-40°F to 149°F)		
Storage Temperature	-40°C to 80°C (-40°F to 176°F)		
Waterproof/Dustproof	IP67		
Shock Resistance	Designed to endure a 1.2 m drop on concrete floor with no damage		

STANDARD ACCESSORIES

Power adapter, USB cable, Belt case, Pole mount

OPTIONAL ACCESSORIES

Carbon fiber pole, Telescopic pole, Soft case



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



