





# S580 Small and lightweight GNSS Receiver

\$580 is a compact and light GN\$5 receiver but at the same time performing and with centimeter accuracy. \$560 track double frequency signals and works with all satellite systems [GP\$, Glonass, BeiDau, Galileo, Q2\$5].

Compared to traditional GIS products, the 5580 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-FL Thanks to the internal web interface, or through the Cube-connector APP, 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 1P67, and it resists 1.2m hard ground drap.



ANDROID SYSTEM Android system on board



### FULL CONSTELLATION SYSTEM

GP5, Glonass, BelDou, Galileo, QZSS



#### HIGH PRECISION

High precision positioning, centimetric accuracy



WEB UI Web interface for controlling and managing settings



## DATA TRANSMISSION

WI-II, Bluetooth and external radio



#### **RTK AND POST-PROCESSING**

S580 can work in real time with RTK corrections and simultaneously record the raw data for post-processing.





# S580 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 SSB0 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.



# **\$580 TECHNICAL FEATURES**

#### RECEIVER

Satellite signals tracked	GPS: L1C/A, L2C	_
	GLONASS: L1OF, L2OF	
	BEIDOU: 81, 82	_
	GALILEO: E1, E5b	
	QZ55: L1C/A, L2C	
	SBAS: L11	
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 %	

#### POSITIONING<sup>2</sup>

STATIC POST PROCESS	ING	
Horizontal	< 2 cm + 1 ppm RMS	
Vertical	< 3 cm + 1 ppm RMS	
CODE DIFFERENTIAL P	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

SC20	
512 MB	
8 GB	
Android	
	8 GB

#### EXTERNAL RADIO (optional)

Model	5R02	
Туре	Tx - Rx - Transceiver (2 watt)	
Frequency Range	410 - 470 MHz	
Channel Spacing	12.5 KHz / 25 KHz	
Maximum Range	3-4 Km in urban environment Un to 30 Km with optimal conditions <sup>3</sup>	

#### 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

Enabled through future framware update.
Accuracy and relability are generally subject to sublifts geometry (DOPA), multipath, atmosphere combines and obtainston. In table: mode they are subject over its compation times the longer is the Sawlins, the longer multi be the occuraged by publicity.
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