

S580

Quick Start Guide



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Interface Description

Connection indicator 

Data-link indicator 

Satellite indicator 


Power indicator 

Power button 



139.0 mm

80.6mm

TYPE-C port 



30.6 mm

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Interface Description

Connection indicator	Flash when Bluetooth connected
Data-link indicator (Green)	Flash when differential data transmitting
Satellite indicator (Green)	Flash according to number of stars tracked
Power indicator (Red-Green)	Green always on when normally operating Red flash with warning beep: power <10% Charging: red always on in charging; green on when charging finished
TYPE-C port	TYPE C port supports USB 2.0; No OTG;
Voice Broadcasting	TTS voice broadcasting

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Technical Data

Channels	184
Signal Tracking	GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L2C
Update Rate	10Hz
Battery	Internal non-replaceable battery 3.85V/6120mAh
Working Time	12 hours at room temperature
Input Voltage	DC input 5V-2A
Single(RMS)	Horizontal 1.5m Vertical 3m
SBAS(RMS)	Horizontal 0.4m Vertical 0.8m
RTK(RMS)	Horizontal 1cm±1ppm, Vertical 1.5cm±1ppm
Time Accuracy	20ns
Speed Accuracy	0.03m/s

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Technical Data

Operating System	Android 7.0
Internal Memory	512M DDR3
Bluetooth	BT4.2
WiFi	2.4GHz 802.11b/g/n (HT20/HT40)
Dimension	139mm×80.6mm×30.6mm
Weight	330g
Operating Temperature	-30°C ~ +65°C
Storage Temperature	-40°C ~ +80°C
Waterproof/Dustproof	IP67
Shock Resistance	Designed to endure to a 2 m pole drop and 1.2 m free drop on concrete floor with no damage
Humidity	Relative humidity 95% (non-condensation)

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Operation

Power on/off Reset Charging



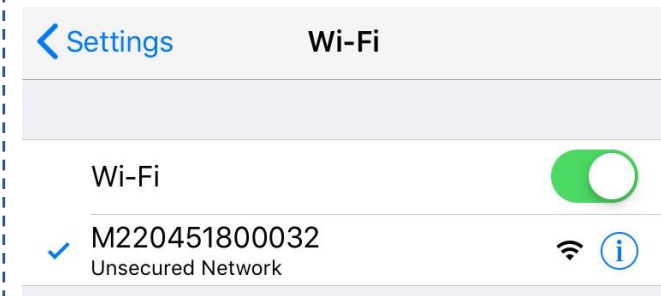
Press and hold for 3s to switch on/off device.
Press and hold for 12s to reset device.



Use the standard charger and type-c data cable to charge. Red always on in charging; green on when charging finished.

How to connect mobile phone

1. Connect to Wi-Fi named after SN number.



2. Open the browser on the phone and enter the following address:192.168.10.1

User: admin

Password: password

192.168.10.1

User:

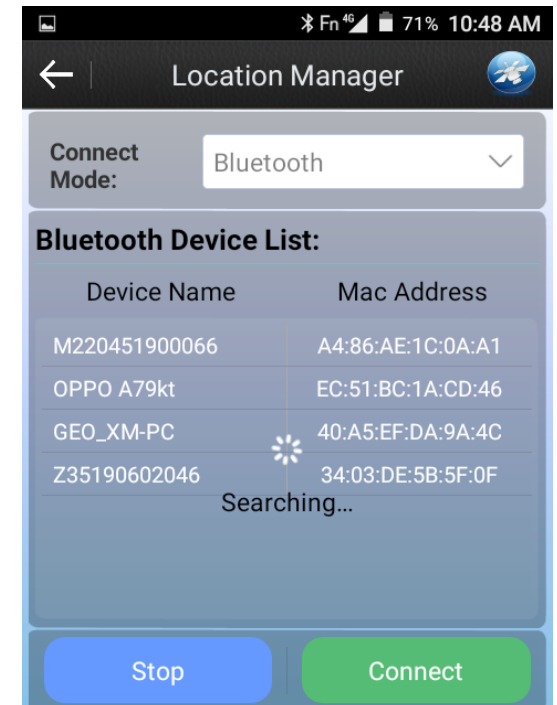
Password:

How to connect Handheld

1. Make sure that the app GeoLocationServer 2.0 is on your handheld. Open it and connect S580 via Bluetooth.



2. Handheld will automatically search Bluetooth. Find target S580 SN. And press "Connect".



What is on Web UI

Satellites

Position

Skyplot

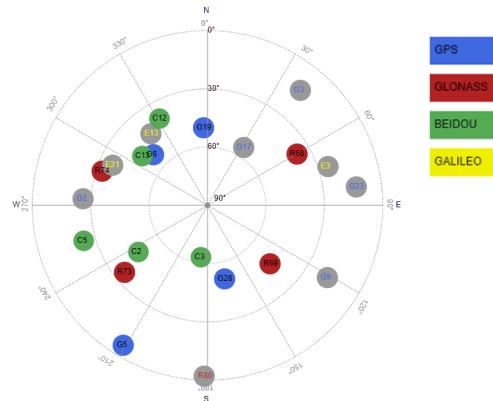
Satellites Info

In the position interface, you can view the current location information and solution.

Satellites	0/0	Solution	Invalid
Longitude	0°0'0.0000"	Latitude	0°0'0.0000"
Altitude	0	HRMS	0
VRMS	0	PDOP	0
HDOP	0	VDOP	0
Date	0000-00-00	Time	08:00:00
Differential Delay	0(s)		

Skyplot

In the Skyplot interface, you can view satellite Sky map.



Satellites Info

In the satellites info interface, you can see satellites information.

Number	Elevation	Azimuth	L1
G2	26	273	41
G3	14	39	36
G5	7	211	39
G6	52	313	46
G9	18	121	39
G17	55	32	48
G19	50	357	45
G23	13	83	39
G28	51	167	46
R68	37	60	42
R69	46	132	46
R70	8	182	31
R73	35	231	41
R74	33	288	42
R80	2	181	32
E3	25	72	39
E13	43	323	42
E15	38	36	41
E21	37	293	40
C2	47	236	40

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Operation

Device

Information

Self-Test

Upgrade

Observations

NMEA

View Log

In the information interface, you can view device info such as firmware version.

Firmware	1.0.20190521
GNSS Serial no.	2310409000020-GH1201182502475
GNSS Hardware	UM4B0
GNSS Firmware	R2.00Build
IMEI	869074034754395
Battery Level	91%
Network Signal	(UNKNOWN)
IP Address	
Signal Level	34%
CORS Connection	Disconnected
Differential Mode	Differential corrections
Current Data Link	Internal
Available Storage	4.03 G
Total Storage	4.36 G

Self-Test

In the checking interface, you can run the self-test program.

Checking

Upgrade

In the upgrade online interface, you can choose a file to upgrade.

Upgrade Online

Please select a file

 未选择任何文件

Observations

In the observation interface, you can download observation files.

Select	Filename	Size	Modify Time	Convert	Download	Delete
<input type="checkbox"/>	00322019052101.dat	9.21 M	2019-05-21 11:26:53	Convert	Download	Delete
<input type="checkbox"/>	00322019052102.dat	757 K	2019-05-21 11:39:41	Convert	Download	Delete
<input type="checkbox"/>	00322019052102_LEICA302.tar.Z	508 K	2019-05-21 14:05:54	Convert	Download	Delete
<input type="checkbox"/>	00322019052102_RINEX210.tar.gz	503 K	2019-05-21 14:05:37	Convert	Download	Delete
<input type="checkbox"/>	00322019052102_RINEX302.zip	472 K	2019-05-21 14:04:59	Convert	Download	Delete
<input type="checkbox"/>	00322019052103.dat	12.33 M	2019-05-21 15:19:30	Convert	Download	Delete
<input type="checkbox"/>	00322019052104.dat	0 byte	2019-05-21 15:20:14	Convert	Download	Delete
<input type="checkbox"/>	00322019052105.dat	2.88 M	2019-05-21 16:11:46	Convert	Download	Delete
<input type="checkbox"/>	00322019052106.dat	1.55 M	2019-05-21 16:36:13	Convert	Download	Delete
<input type="checkbox"/>	00322019052201.dat	0 byte	2019-05-22 10:29:02	Convert	Download	Delete
<input type="checkbox"/>	00322019052202.dat	0 byte	2019-05-22 10:30:06	Convert	Download	Delete
<input type="checkbox"/>	00322019052203.dat	0 byte	2019-05-22 14:38:56	Convert	Download	Delete
<input type="checkbox"/>	00322019052204.dat	0 byte	2019-05-22 17:16:16	Convert	Download	Delete
<input type="checkbox"/>	00322019052801.dat	0 byte	2019-05-28 10:55:10	Convert	Download	Delete
<input type="checkbox"/>	00322019052802.dat	0 byte	2019-05-28 10:57:53 (Record...)	Convert	Download	Delete

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Operation

NMEA

In the NMEA interface, you can download NMEA files.

Select	Filename	Size	Modify Time	Download	Delete
<input type="checkbox"/>	2019052101.nmea	6.28 M	2019-05-21 11:26:53	Download	Delete
<input type="checkbox"/>	2019052102.nmea	485 K	2019-05-21 11:39:41	Download	Delete
<input type="checkbox"/>	2019052103.nmea	9.09 M	2019-05-21 15:19:30	Download	Delete
<input type="checkbox"/>	2019052104.nmea	0 byte	2019-05-21 15:20:14	Download	Delete
<input type="checkbox"/>	2019052105.nmea	2.12 M	2019-05-21 16:11:46	Download	Delete
<input type="checkbox"/>	2019052106.nmea	1.00 M	2019-05-21 16:36:14	Download	Delete
<input type="checkbox"/>	2019052201.nmea	0 byte	2019-05-22 10:29:02	Download	Delete
<input type="checkbox"/>	2019052202.nmea	0 byte	2019-05-22 10:30:06	Download	Delete
<input type="checkbox"/>	2019052203.nmea	807 K	2019-05-22 15:19:37	Download	Delete
<input type="checkbox"/>	2019052204.nmea	336 K	2019-05-22 17:31:48	Download	Delete
<input type="checkbox"/>	2019052801.nmea	6 K	2019-05-28 10:55:40	Download	Delete
<input type="checkbox"/>	2019052802.nmea	1.00 M	2019-05-28 11:44:55 (Record...)	Download	Delete

View Log

In the view log interface, you can download and view device run log.

System log

Settings

APN

Track back Settings

Working Mode

Port Settings

Convert Coordinate

GNSS

Set NMEA output

Others

In the working mode interface, you can set system mode, datalink and other settings of the device.

Working Mode Settings

System Mode: Rover Base

Current Datalink: SBAS Internal Network External Differential

Mode:

Server Address:

Server Port:

Access Point:

Username:

Password:

Connect Immediately: Yes No

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Operation

Working Mode

In the working mode interface, you can also do observation settings.

Observation Settings

Status: Enable Disable

Duration Tme:

FTP Push: Enable Disable

FTP Server Address:

FTP Server Port:

FTP User:

FTP Password:

Remote Directory:

Set NMEA output

In the set NMEA output interface, you can set NMEA statement and output frequency.

Set NMEA Output

GGA: 1S	GSA: 1S
GST: 1S	ZDA: 1S
GSV: 5S	VTG: 1S
RMC: close	GLL: close
DTM: close	GNS: close
GBS: close	GRS: close
HDG: close	HDM: close
HDT: close	HEV: close
HPR: close	ROT: close
RRE: close	ALM: close
GEREF: 5s	GELOC: 1S

Automatic Save NMEA Output

Status: Enable Disable

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Care and Transport

Equipment care

- Respect the temperature limits when storing the equipment, particularly in summer if the equipment is inside a vehicle. Refer to "2 Technical Data" for information about temperature limits.

Build-in Battery Care

- Your product is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles.
- The battery can be charged and discharged hundreds of times, but will eventually wear out. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime.
- If left unused, a fully charged battery will lose its charge over time.

Charger Care

- Do not attempt to charge/power your product with other than the charger provided. The use of any other types may damage or destroy the product and could be dangerous. Use of other chargers may invalidate any approval or warranty. For availability of approved enhancements, please check with your dealer.
- Charge/power the product according to the instructions supplied with the product.

Maintenance

- Unplug the product or charger before cleaning.
- Cleaning the product by wiping with a dry or slightly damp cloth. The cord and charger may only be dry-dusted.

Transport

When transporting the product by rail, air or sea, always use the complete original STONEX packaging, transport container and cardboard box, or its equivalent, to protect against shock and vibration.

Never carry the product loose in a road vehicle, as it can be affected by shock and vibration. Always carry the product in its transport container, original packaging or equivalent and secure it.

When transporting or shipping batteries, the person responsible for the product must ensure that the applicable national and international rules and regulations are observed. Before transportation or shipping, contact your local passenger or freight transport company.

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Warning and Declaration

FCC & IC Warnings

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warnings:

This device complies with Industry Canada's licence-exempt RSSs

Operation is subject to the following two conditions:

(1) This device may not cause interference and

(2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils SAR test distance 0mm.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with an accessory that contains no metal. radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage

radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur. Distance de test SAR 0mm.

Pour un usage sur le corps, ce téléphone a été testé et respecte les directives d'exposition RF de la ISED lorsqu'il est utilisé avec un accessoire sans métal. SAR test distance 0mm. For body worn operation, this phone has been tested and meets the ISED RF exposure guidelines when used with an accessory that contains no metal.

