SPECIFICATIONS

GNSS	
Channels	220
GPS	L1 C/A, L2E, L2C, L5, with carrier phase smoothing
GLONASS	L1 C/A, L2 C/A
BDS	B1, B2
Galileo	E1, E5A, E5B, E5AltBOC
QZSS	L1 C/A, L1 SAIF, L2C, L5
SBAS	L1 C/A, L5
Data Output	NMEA-0183, TSIP
I/O Protocol	RTCM, RTCA, CMR
Update Rate	1Hz - 20Hz
Reacquisition	<1s
Cold Start	<30s
Accuracy	
Single point positioning	2m
SBAS	Horizontal: 0.5m Vertical: 0.85m
DGNSS	Horizontal: 0.25m+1ppm Vertical: 0.50m+1ppm
Single Baseline RTK(<30 km)	Horizontal: 0.008m+1ppm Vertical: 0.015m+1ppm
Static	0.003m+1ppm
Communication	
Data Interface	Mini USB2.0 (Ethernet port and OTG)
Bluetooth	Dual mode, Bluetooth V2.1/ Bluetooth V4.0, support EDR
WIFI	802.11 b/g standard
Data Storage	
Memory	8GB SSD internal memory
Static Data Format	STH, Rinex2.x, Rinex3.x
Sampling Rate	1Hz, 2Hz, 5Hz, 10Hz, 20Hz
Electrical	
Battery	6800mAh, Li-ion battery built in, 3.7V
Battery life	Typically 8 hrs or more
Environmental	
Operating temperature	-30℃～+65℃
Storage temperature	-35℃～+75℃
Shockproof	Withstand drop from 1.5m to concrete
Waterproof/Dustproof	Test to IP67 standard
Physical	
Dimensions(mm)	115(L)×115(W)×40(H)
Weight	540g
Remarks	
Measurement accuracy and operation range might vary due to atmospheric conditions, signal multipath, obstructions, observation time, temperature, signal geometry and number of tracked satellites. Specifications subject to change without prior notice.	

Configuration

1. Charger and adapter	1x
2. USB cable	1x
3. Backpack	1x
4. Case	1x
5. Instrument holder	1x

KOLIDA INSTRUMENT

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Best choice, Brightest price

KOLIDA GNSS

S680P

Portable GNSS Receiver

- Smart Linux Operation System
- Easy configuration under WIFI
- Compact, lightweight, rugged and cable-free design
- Dual frequency and multi-constellation GNSS receiver
- 220 Channels with optimized satellite tracking technology

Innovative Technology and Design

Key Features

Innovative. Simple. Lightweight. Rugged.

KOLIDA S680P is a dual frequency GNSS receiver which delivers centimeter level accuracy VRS positioning performance in an innovative form. S680P exemplifies a completely re-imagined approach to receiver design that offers an ultra-lightweight and ergonomic solution at a low cost.

Providing flexibility in a variety of ways for static or VRS data collection, S680P easily adapts for nearly any application. When combined with a cellular-enabled field controller, S680P is an ideal precision network rover.

S680P offers affordable high-quality results for traditional applications in the surveying and construction fields, as well as unconventional utilizations such as in landscape architecture, GIS, BIM and forensic mapping. The unique innovative antenna design creates a lightweight ergonomic solution.

The WIFI of S680P makes it not only available to be a WIFI hotspot to visit its web UI management, but also a datalink and by this way, S680P can acquire corrections from CORS network rapidly when connected to internet.

Open the case of S680P and discover this “box” GNSS solution.

Leading Edge Positioning Technology

Equipped with an advanced 220 channels GNSS board, S680P can track signals from GPS, GLONASS and BEIDOU system. The positioning accuracy can reach centimeter level.

Superior Compatibility

S680P is able to work with a variety of PDA mobile terminal which carries different operating system, such as Andriod, IOS, Windows mobile, WIN7/WIN8. Cell phone and tablet are the best choice data collectors to work with S680P to connect to network, improve flexibility for fieldwork.

Outstanding Antenna Performance

The advanced antenna design gives S680P excellent signal-tracking ability and interference-resistant ability. The positioning precision and stability is greatly improved, the multi-path effect is significantly reduced. In the mean time, the size of antenna keeps small, the unique "box" shape appears as a small extension of the range pole-almost as if it’s not even there.

Ultimate Portability

S680P is extremely small and light. The total dimension is 115mm x 115mm x 40mm, the weight is only 540g. Whereas it carries a 6800mAH battery and the continuous working hour is up to 12 hours. Advantages of portability and speed of operation make S680P particularly suitable for fieldwork in areas of complex terrain.

Intelligent Data Storage

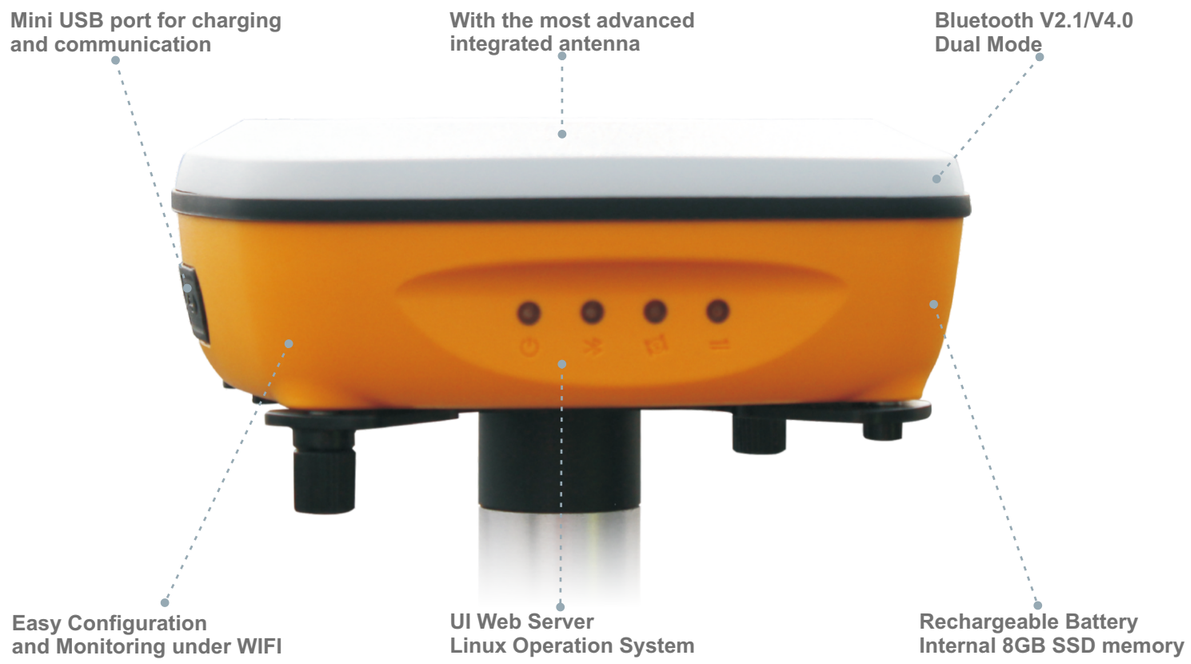
Equipped with an 8GB Solid State Drive, S680P can significantly improve data management efficiency and provide enough storage space during continuous work. It also supports an external USB storage for data collection and transfer.

Keep it light with KOLIDA S10 field controller

The KOLIDA S10 field controller is an economical, entry-level controller that is packed with various features. Outfit the unit with the powerful E-star Field software, and you instantly have the ability to drive KOLIDA GNSS instruments wirelessly.

Weighing only 348g, it is the lightest data collector in KOLIDA product lineup and it could even fit in your pocket.

- Windows Mobile 6.5 operation system
- 3.7" VGA sunlight readable screen
- High-sensitivity GPS for outstanding performances
- Built-in GPRS phone and data transmission
- Bluetooth and Wi-Fi connectivity
- 5.0 megapixel camera with autofocus



Wide Application

Range Pole Mode

When mounted to a range pole, S680P can work perfectly as a VRS RTK Rover. It is an ideal solution for construction project, cadastre and land survey.

Backpack Mode

Loaded S680P with a backpack, user can free their hands then easily move on all kinds of complex terrain. This mode is often used in field investigation and electric pipeline inspection.

Tablet Mode

With a special bracket, S680P can be mounted onto tablet PC, the positioning performance will be more steady, operation will be more convenient.

Vehicle Mode

S680P also can be mounted to vehicle by car-mount bracket, to record movement track. This mode is suitable for patrolling, monitoring, scheduling management.