GNSS Positioning System

METEOR S680N

The new GNSS positioning system S680N combines user-friendly, ergonomic design with high-end reliability under harsh conditions.

The powerful GNSS mainboard, integrated Linux OS and advanced L-Band global rover correction help you to complete your surveying tasks with the highest speed and accuracy. The innovative split-type design avoids the electro-magnetic interference from controller to the mainboard. It only weighs 500g with a hand's size, ideal to carry no matter on hand or on the back.

Crafted for iPositioning

692 channels, all constellations

New generation of powerful GNSS mainboard with 692 channels enables S680N to support a wide range of satellite signals, including GPS, GLONASS, BeiDou, Galileo, SBAS, etc, with greater single stability and positioning accuracy.

Linux OS

Powered by the new generation of embedded Linux operating system, S680N has a greatly improved RTK performance and efficiency. One unique core processing mechanism is able to response to more than one command at one time.

WiFi and Web Server

By connecting through the integrated WiFi of S680N, you can log on an user-friendly management platform on the browser of your phone or computer. All status monitoring and parameter settings can be achieved in a fast and easy way.

Global Rover Correction

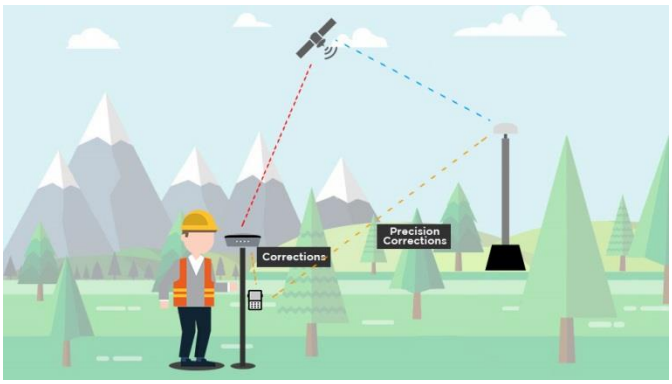
With RTX function, corrections can be transmitted to S680N via satellite (where coverage is available) or via IP (Internet Protocol) nearly worldwide. No longer to worry about losing radio or internet signal connectivity since a base station is not required.

More than simple

With only 1 PWR button, 1 I/O interface, 4 indicators, and a hand's size, but it is able to fulfill all operations on field.

HOW IT WORKS

After connecting with controller or Android cellphone or tablet via Bluetooth, Meteor receives satellites signals, and transmits to the mainboard. Meanwhile, the controller or Android device acquires differential correction signals from CORS via the network of telecom or WIFI, and then transmits to the mainboard, which will figure out the precise coordinates based on data of satellite and differential signals.



RECEIVER SPECIFICATION

S680N

Channels	692
GPS Tracking	L1, L2C, L2P, L5
GLONASS Tracking	L1, L2
BeiDou Tracking	B1, B2, B3, B1C, B2a
Galileo Tracking	E1C, E5a, E5b
SBAS	L1C/A, L5
Positioning Rate	1-20Hz

S680N Pro

Channels	336
GPS Tracking	L1 C/A, L2E, L2C, L5
GLONASS Tracking	L1 C/A, L2 C/A
BeiDou Tracking	B1, B2,
Galileo Tracking	E1C, E5a, E5b, E5AltBOC
SBAS	L1C/A, L5
Positioning Rate	1-20Hz
L-Band	RTX (Powered by Trimble)

RECEIVER ACCURACY

Code Differential	Horizontal 0.25m±1ppm (rms) Vertical 0.50m±1ppm (rms)
Static	Horizontal 2.5mm±0.5ppm (rms) Vertical 5mm±0.5ppm (rms)
Network RTK	Horizontal 8mm±1ppm (rms) Vertical 15mm±1ppm (rms)
L-Band	RTX Horizontal 4-10cm(5-30min) Vertical 8-20cm(5-30min)

COMMUNICATION

I/O	LEMO USB (OTG) + Ethernet
WiFi	802.11b/g/n Hotspot / Data Link
Bluetooth	Bluetooth 2.1 +EDR and 4.0

DATA STORAGE

Type & Storage	SSD 8GB
Static format	STH, Rinex 2.x, Rinex 3.x
Date Transfer	USB transfer Supports FTP/HTTP download
Format (Differential)	CMR, CMR+, sCRMx, RTCM 2.X, RTCM 3.0, RTCM 3.1, RTCM 3.2
GPS Output Format	NMEA 0183, Extended NMEA 0183, PTNL, PJK, AVR, NAVPOS, ETC. Binary
Network Model	VRS, FKP, MAC NTRIP fully supportable

POWER SUPPLY

Supply Type	Built in battery
Battery	Li-on battery 7.4V, 6800mAh
Operating Time	Typically 8 hours

PHYSICAL

Dimension	115mm(L) X 115mm(W) X 40mm(H)
Weight with batt.	540g
Operating Temp.	-30° C to 65° C
Protection Class	IP67
Shock	1.5m drop on hard surface

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