

# **Net S9** Continuously Operating Reference Station





- · Integrated professional OEM board
- $\cdot$  New design of aluminum alloy housing
- · IP67 industrial level standard
- $\cdot$  WIFI hotspot and Bluetooth connections
- $\cdot$  STH, RINEX raw data storage to FTP server
- $\cdot$  eMMC technology for internal memory

#### Summary

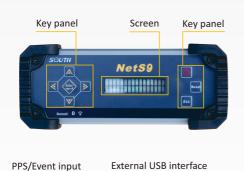
SOUTH NET S9 has integrated professional OEM board, compatible with all constellations.

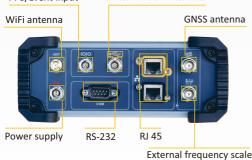
In addition, we greatly improve the operation experience and convenience for users with the additional function of WiFi hotspot and Bluetooth connections, thus, users are able to configure receiver with any mobile terminal. NET S9 is not only able to record STH file, but also support RINEX file storage.

10000mAh high capacity of battery builtin, can act as a primary power source or as an Uninterupted Power Supply (UPS) backup.

SOUTH NET S9 is using eMMC (Embeded Multi Media Card) technology for internal memory, faster and larger, stable and reliable. Moreover, NET S9 allows to connect to an external storage devices(maximum up to 1TB) via USB Host interface so that you don't have to worry about data storage.

#### **User Interface**





## **Distributor Info**

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GNSS	
Channels	692 channels, 220 channels (optional)
GPS	L1 C/A, L2E, L2C, L5
GLONASS	L1 C/A, L1P, L2 C/A(GLONASS M only), L2P
BDS	B1, B2, B3
GALILEO	
SBAS	L1 BOC, E5A, E5B, E5AltBOC1
	L1, L2C, L5
Initialization	Typically<10 seconds
Initialization reliability	>99.9%
Accuracy SBAS positioning accuracy	<5m (typically) 3DRMS RMS
Code differential GNSS	Horizontal: 0.25 m + 1 ppm RMS
code differential GN35	Vertical: $0.25 \text{ m} + 1 \text{ ppm RMS}$
Static(long observations)	Horizontal: 2.5 mm + 0.1 ppm RMS
	Vertical: 3 mm + 0.4 ppm RMS
Static	Horizontal: 2.5 mm + 0.5 ppm RMS
Static	Vertical: 3.5 mm + 0.5 ppm RMS
Rapid static	Horizontal: 2.5 mm + 0.5 ppm RMS
hapia statie	Vertical: 5 mm + 0.5 ppm RMS
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS
	Vertical: 15 mm + 1 ppm RMS
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS
	Vertical: 15 mm + 0.5 ppm RMS
Data storage & output	
Data storage	8G (extend to 32G) internal memory is capable of cycle-
	recording raw data, adopts eMMC technology, stable and reliable
Positioning rate	1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(depend on setup option)
Reference output	CMR, CMR+, RTCM2.1, RTCM2.2, RTCM2.3, RTCM3.0,
	RTCM3.1, RTCM3.2, sCMRx, RTCA, NOVATELX
Navigation output	ASCII: NMEA-0183 GSV, AVR, RMC, HDT, VGK, ROT, GGK, GGA,
	GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS and binary
Data format	Support STH, RINEX2.x, RINEX3.x raw data storage
Data retrieval	Download form HTTP, FTP Push and USB copy
Data communication	
Ethernet protocol	Support TCP/IP, HTTP and NTRIP protocol
Liternet protocol	
Serial port	Navigation data, static data and differential correction data
Serial port	Navigation data, static data and differential correction data transmission, PPS-UTC
Serial port Bluetooth	Navigation data, static data and differential correction data transmission, PPS-UTC Bluetooth 2.1 (Class2)+EDR, 2.4GHz
Serial port	Navigation data, static data and differential correction data transmission, PPS-UTC Bluetooth 2.1 (Class2)+EDR, 2.4GHz 2.4GHz, IEEE 802.11 b/g/n, allows to access built-in web user
Serial port Bluetooth WiFi	Navigation data, static data and differential correction data transmission, PPS-UTC Bluetooth 2.1 (Class2)+EDR, 2.4GHz
Serial port Bluetooth WiFi Electrical	Navigation data, static data and differential correction data transmission, PPS-UTC Bluetooth 2.1 (Class2)+EDR, 2.4GHz 2.4GHz, IEEE 802.11 b/g/n, allows to access built-in web user interface with the mobile terminal via its WIFI hotspot
Serial port Bluetooth WiFi	Navigation data, static data and differential correction data transmission, PPS-UTC Bluetooth 2.1 (Class2)+EDR, 2.4GHz 2.4GHz, IEEE 802.11 b/g/n, allows to access built-in web user interface with the mobile terminal via its WIFI hotspot 9V~28V DC input, 3 separate interfaces for power supply with
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### SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

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