

Net S9 (336)

Continuously Operating Reference Station



- Integrated professional OEM board, 336 channels
- New design of aluminum alloy housing
- IP67 industrial level standard
- WIFI hotspot and Bluetooth connections
- STH, RINEX raw data storage to FTP server
- eMMC technology for internal memory
- Supporting TCP Client, TCP Server, NTRIP Client, NTRIP Server, NTRIP Caster and Serial Port

Summary

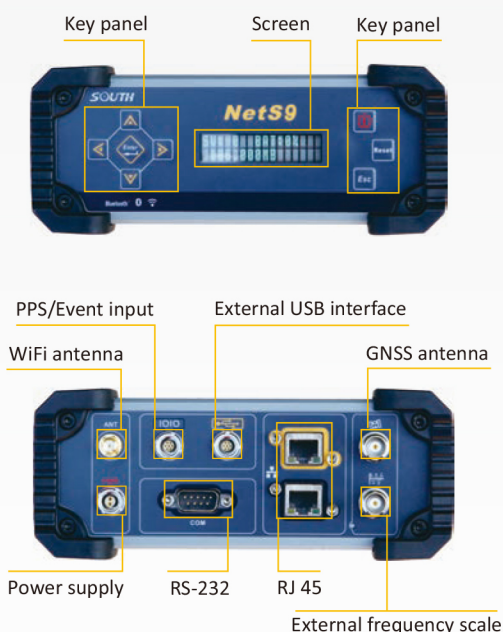
SOUTH NET S9 has integrated professional OEM board, 336 channels, compatible with all constellations.

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 built-in, can act as a primary power source or as an Uninterrupted Power Supply (UPS) backup.

SOUTH NET S9 is using eMMC (Embedded 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

GNSS

Channels	336 channels
GPS	L1 C/A, L2E, L2C, L5, L2P
GLONASS	L1 C/A, L1P, L2 C/A(GLONASS M only), L2P
BDS	B1, B2, B3
GALILEO	E1,L1 BOC, E5A, E5B, E5AltBOC1 , E6
SBAS	L1 C/A, L5
Initialization	Typically<10 seconds
Initialization reliability	>99.9%

Accuracy

Code differential GNSS positioning	Horizontal: 25cm+1ppm RMS Vertical: 50cm+1ppm RMS
SBAS positioning accuracy	<5m (typically) 3DRMS RMS
High precision static	Horizontal: 2.5mm+0.1ppm RMS Vertical: 3.5mm+0.4ppm RMS
Static GNSS surveying Baseline	Horizontal: 2.5mm+0.5ppm RMS Vertical: 5mm+0.5ppm RMS
Real-time Kinematic Baseline	Horizontal: 8mm+0.5ppm RMS Vertical: 15mm+0.5ppm RMS
Real-time Kinematic Network RTK	Horizontal: 8mm+0.5ppm RMS Vertical: 15mm+0.5ppm RMS

Data storage & output

Data storage	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, V GK, ROT, G GK, 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 and USB copy

Data communication

Ethernet protocol	Support TCP/IP, HTTP and NTRIP protocol
Serial port	Navigation data, static data and differential correction data transmission, PPS-UTC
Bluetooth	Bluetooth 2.1 (Class2)+EDR, 2.4GHz
WiFi	2.4GHz, IEEE 802.11 b/g/n, allows to access built-in web user interface with the mobile terminal via its WIFI hotspot

Electrical

Power supply	9V~28V DC input, 3 separate interfaces for power supply with over-voltage protection
Battery	10000mAh high capacity of battery built-in
Battery life	more than 15 hours for continuous work in default configuration
Consumption	Low power consumption 3.8W

User interface

Front panel	Front panel display with buttons and LED screen
Network interface	Two RJ45 100Mb Ethernet interface
RS-232 serial	One RS-232 serial port(9-pin), data transmission
USB	Two USB port, USB host and USB device
Power interface	Three separate power interface
Multi-function interface	One port supports PPS output, Event marker input, serial port and power supply
External frequency port	One external frequency scale port, supports high-precision atomic clock connection
GPS Antenna interface	Choke ring antenna connection
WiFi antenna interface	Allows to connect a WIFI broadcast antenna

Physical

Dimension(L×W×H)	216mm×178mm×72mm
Weight	2.28kg
Shock and vibration	Rugged aluminum alloy housing plus plastic ring seal, designed to survive a 2m drop onto concrete
Waterproof/Dustproof	IP67 level standard, protect against for temporary immersion to a depth of 1m; Completely protect from dust

Environmental

Storage temperature	-40℃~+80℃
Working temperature	-40℃~+75℃
Humidity	Relative humidity, able to operate up to 95% humidity