Specifications

GNSS	
Channels	965, 336 (optional)
GPS	L1C/A, L2E, L2C, L5
GLONASS	L1C/A, L2P, L2C/A, L2P
GALILEO	E1, E5A, E5B, B5AltBOC, E6
BDS	B1, B2, B3
SBAS	WASS, MSAS, EGNOS and GAGAN
Initialization	<10s
Reliability	>99%
Accuracy	
SBAS positioning	Typically<5m 3DRMS
Code differential GNSS	Horizontal: 0.25 m + 1 ppm RMS, Vertical: 0.50 m + 1 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, Vertical: 3.5 mm + 0.5 ppm RMS
Rapid static	Horizontal: 2.5 mm + 0.5 ppm RMS, 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	8GB SSD (64GB optional)
Position update rate	1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)
Differential output	RTCM2.x, RTCM3.x, CMR, CMR+, sCMRx
Data output	ASCII (NMEA-0813), BINARY
Static format	STH, RINEX2.x, RINEX3.x
Data retrieval	Download form HTTP, FTP Push, or transfer by USB port
Communication	
Protocol	TCP/IP, HTTP and NTRIP protocol
LEMO port	Navigation data, static data and differential correction data transmission, PPS-UTC
Bluetooth	Bluetooth 2.1+EDR
Wi-Fi	2.4GHz,IEEE 802.11b/g/n,supports hotspot and client mode
Radio	410MHz-470MHz
Cellular	4G
Physical	
Size	184*134*54mm
Weight	1.2kg
Shock and Drop	1.2m
Water/Dust proof	IP68
Environmental	
Operation temperature	-40℃-75℃
Storage temperature	-40℃-85℃
Humidity	100%

NET S10 mini

All constellations   Linux OS   UHF Radio   Communication   Cloud service
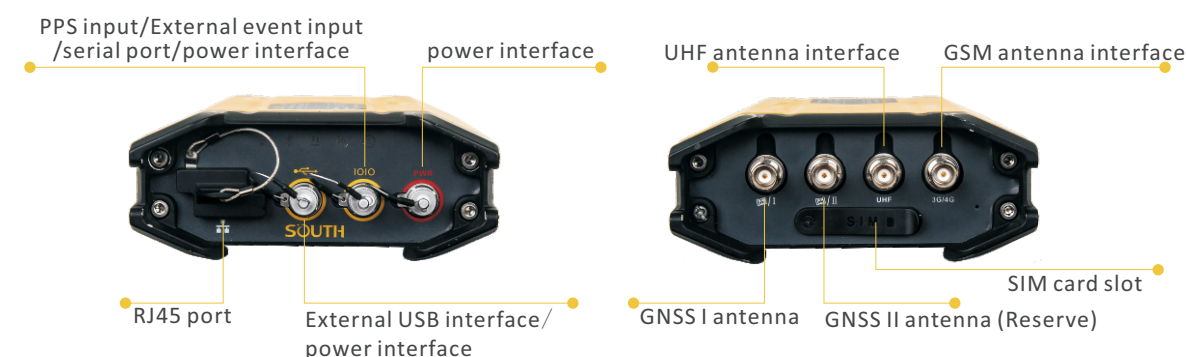
Net S10 mini is a new multi-band and multi-constellation CORS/monitoring receiver, which is able to track all GNSS constellations and all current and future signals. Using the international mainstream operating system-Linux, and coupled with the powerful software and the strong computing performance, S10 mini can be widely used in various scenarios.
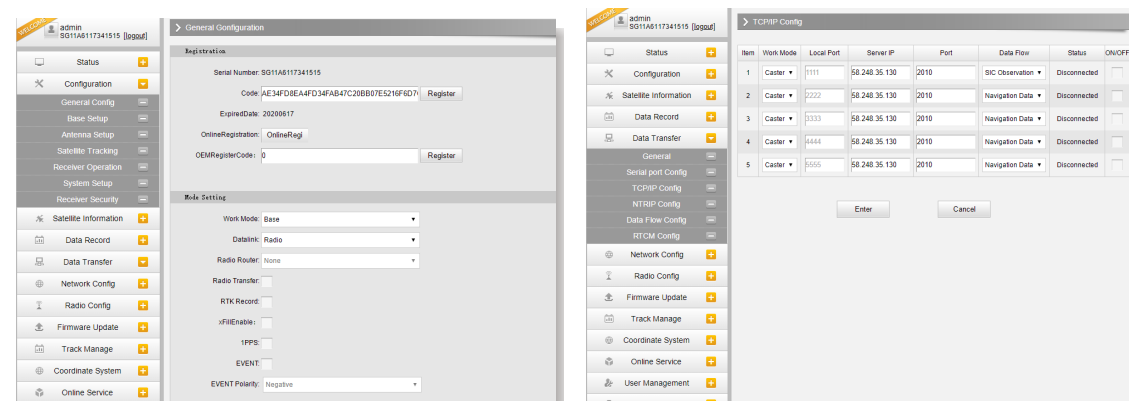
◎ Key features:

All-in-view constellation tracking.
10/100M Ethernet interface, supports HTTP protocol, and 5 independent data streams transmission.
Supports STH, RINEX2.x, RINEX3.x, customizable sampling interval.
Supports dual-antenna configuration.
Built-in network module, easy to operate, ultra-low power consumption.

PPS input/External event input /serial port/power interface
power interface
UHF antenna interface
GSM antenna interface
SIM card slot
RJ45 port
External USB interface/ power interface
GNSS I antenna
GNSS II antenna (Reserve)

◎ Web interface

Net S10 mini adopts the advanced embedded LINUX operating system, so that users are able to login web interface of S10 mini to configure various parameters via WiFi or network cable connection, thus, users can access to web interface with any mobile terminals like cellphone, tablet and laptop, which greatly improve the operation experience and flexibility. And registration, firmware update, data transmission are implemented on web interface.

◎ NRS software

NRS (Network Reference System) CORS software system is developed by SOUTH company independently which can provide proper correction service and data management.

NRS contains all features of VRS technology, also at the same time it has part of advantages of FKP and MAX. Deep-NRS is a new improved technology which based on NRS, it increases usability of network CORS and provides auto work mode selection for rover.
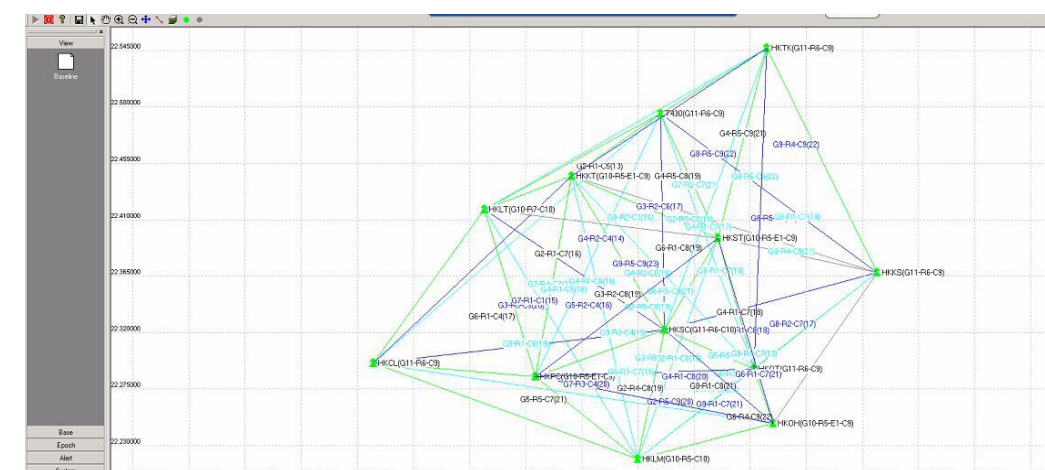
Deep-NRS---Optimized NRS technology makes the system more usable.
Fully support GPS+GLONASS+BDS+GALILEO---Provide differential data with all constellations.
Be compatible with current main brands---Support processing reference data from Trimble, Leica and so on.
Unlimited stations and rovers---Permanent key for unlimited stations and rovers.
Distributed structure---Provide safer security system.
Eagle mode---Every base station can be a 'reference' station.