

◎ SPECIFICATIONS

ITEMS		
GNSS Signal	Channels	1598, 336 (optional)
	GPS	L1C/A, L2E, L2C, L5
	BDS	B1, B2, B3
	GLONASS	L1C/A, L2P, L2C/A, L2P
	GALILEO	E1, E5A, E5B, B5AltBOC, E6
	SBAS	WASS, MSAS, EGNOS and GAGAN
	NavIC(IRNSS)	Depends on the installing board
	Intelligent and dynamic high sensitivity positioning technology to adapt rough working environment and longer working range	
	Initialization time: <45 s (cold start)	
	Reliability: >99.9%	
Accuracy	Autonomous	H: 3 m, V: 5 m(1 sigma, PDOP< 3)
	Differential GPS	H: 25cm+1ppm, V: 50+1 ppm
	Long observation static	H: 2.5mm+0.1ppm, V: 5mm+0.4ppm
	Static and fast static	H: 3mm+0.5ppm, V: 5mm+0.5ppm
	Realtime kinematic	H: 8mm+1ppm, V: 15mm+1ppm
Data Save/ Output	Internal memory	64G(support 1TB), auto cycling save
	Removable storage	Support external removable storage upto 1 T
	Position update rate	0.05Hz,0.1Hz,0.2Hz,1Hz,2Hz,5Hz,10Hz,20Hz,50Hz (depends on installation option)
	Differential data output	RTCM2.x,RTCM3.x,CMR,sCMRx,Novatelx,Binex
	Navigation data output	ASCII: NMEA-0183 GSV,AVR,RMC,HDT,VGK,VHD,ROT,GGK,GGA,GSA,ZDA,VTG, PJT,PJK,BPQ,GLL,GRS,GBS,Binary
	Static data format	STH,Rinex2.x,Rinex3.x,Binex
	Data retrieval	Data download by HTTP, FTP, pen drive copy
	Concurrent data logging	8 independent logging
Communication	Ethernet	Supports TCP/IP data stream, ntrip server, client, caster, HTTP, FTP
	Serial port	Support multi independent data streams,navigation data, observation data, differential correction data
	Bluetooth	Bluetooth 2.1+EDR, 2.4GHz
	WIFI	2.4GHz, IEEE 802.11b/g/n, supports hotspot and client mode
	Radio	Selectable(1W/2W/3W)
	Phone network	GSM,GPRS,LTE,UMTS,HADPA,3G,4G
Security	Authority level	3 Level(Super administrator, Auditor, administrator)
	System log	Log records up to 10000 for all the operations done with system
	Password authentication	Allows multi-characters combination for password and multi authentications
	Encryption algorithm	Advanced encryption algorithm, SM2+SM4 combination
	Digital certificate	Digital signature to authorize different level of configuring receiver
	System security	Inbuilt firewall, auto detect melicious attack. Dual system and configuration parameters backup
Electric	External power supply	9-36V DC input with over-voltage protection. 3 DC input ports
	Internal battery	Inbuilt 10000mAh li-ion battery supports continous work more than 20 hours. Auto charge inbuilt battery when external DC power is supplied
	Power	4.6W
Device Interface	Front panel indicating light: Bluetooth, differential correction, WIFI, data logging, power, battery status	
	Rj45: 1	
	Rs232: 2, support meteorology data, tilt sensor data and other sensor data	
	USB port: 2, USB host, USB device	
	External DC supply: 3	
	PPS output interface: 1; Event maker input interface: 1	
	External frequency scale port:1	
	GNSS antenna port: 1	
	UHF antenna port: 1	
	SIM card slot: 1	
Physical	Size	216X178X72 mm
	Weight	2.25 Kg
	Shock and drop	Rugged alluminium shell, survive a 2 m dop
	Water/dust proof	IP68
Environmental	Working temperature	-40℃-75℃
	Storage temperature	-45℃-85℃
	Non-condensing humidity	100%



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# NET S10

Intelligent CORS receiver

All constellations

Linux

Powerful CPU

WIFI

Big capacity battery

Big memory

IP68



# NET S10

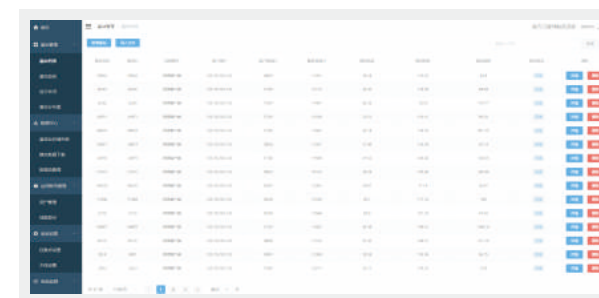
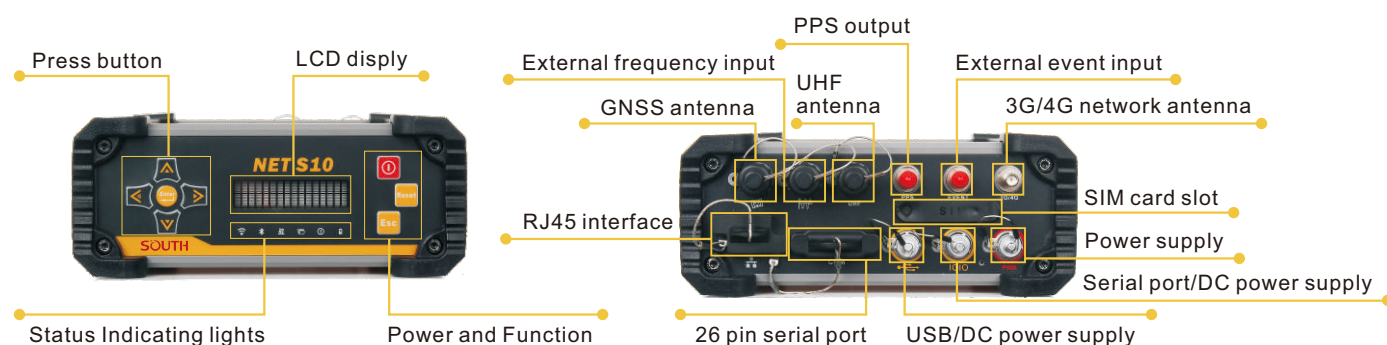
Intelligent CORS receiver

## © NRS(Network Reference System)

NET S10 is the latest design CORS receiver which supports all satellites constellations and integrated GPRS, WIFI, Radio, Bluetooth, Ethernet.

### © Key Features

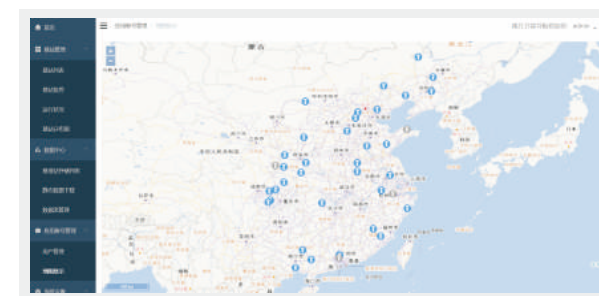
- With High-precision GNSS board, it supports 4 satellite constellations signal
- Equipped with Cortex-A5 processor and Linux system, it brings faster computing speed and higher stability.
- Adopting the SM2+SM4 Encryption algorithm, the security from data logging, storage to transferring can be seamlessly Guaranteed.
- A 3-level authority (super administrator, auditor, administrator) management architcture firmly ensures the data safety.
- Up to 10000 System logs record every operations. Misoperation can be traced easily.
- Rugged alluminium body resists collision, scratch, drop, press, etc.
- Rich indicating lights on front panel facilitate the configuration for receiver without the need of computer or mobile phone.
- WIFI and Bluetooth make receiver's configuration very easy.
- In case of internet failure, inbuilt Radio can make the receiver continue to work and delivery differential correction data to Rover.
- Multi format data recording (STH, RINEX2.x, RINEX3.x, BINEX).
- Inbuilt 10000mAh Li-ion battery provides upto 20 hours work duration.
- 64G internal memory+external storage (up to 1T) automatic circular storage.
- 10MHz external frequency input, 1 PPS output, 1 event input, Met/Tilt sensor input.



Standard data interface, support secondary development

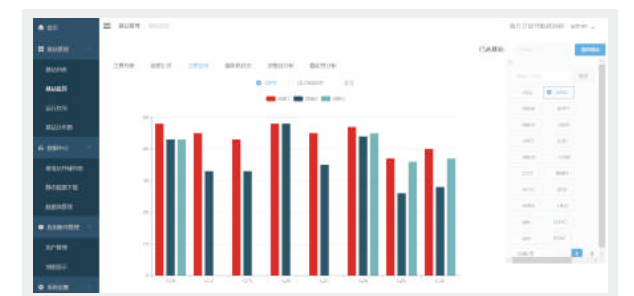


Full satellite constellations support



Being added the ionosphere and troposphere model NRS improves core algorithm towards baseline processing.

It can process either combination data of GPS, BDS, GLONASS, GALILEO or data from a single constellation.



Encrypted data broadcast of correction data, coordinates conversion parameters and improved Geoid model parameters secures the data safety.