Specifications

GNSSChannels1598GPSL1C/A, L2E, L2C, L5GLONASSL1C/A, L2P, L2C/A, L2PGALILEOE1, E5A, E5B, B5AltBOC, E6BDSB1, B2, B3SBASWASS, MSAS, EGNOS and GAGANInitialization<10sReliability>99%AccuracySBAS positioningTypically<5m 3DRMSCode differentialH: ±0.25m+1ppm, V: ±0.50m+1ppmReal-time KinematicH: ±8mm+1ppm, V: ±15mm+1ppmStaticH: ±2.5mm+1ppm, V: ±5mm+1ppmDataStorageStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n, supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysicalMuinterSize184*134*54mmMuintet4.0 m	Specifications								
GPSL1C/A, L2E, L2C, L5GLONASSL1C/A, L2P, L2C/A, L2PGALILEOE1, E5A, E5B, B5AltBOC, E6BDSB1, B2, B3SBASWASS, MSAS, EGNOS and GAGANInitialization<10s	GNSS								
GLONASSL1C/A, L2P, L2C/A, L2PGALILEOE1, E5A, E5B, B5AltBOC, E6BDSB1, B2, B3SBASWASS, MSAS, EGNOS and GAGANInitialization<10s	Channels	1598							
GALILEOE1, E5A, E5B, B5AltBOC, E6BDSB1, B2, B3SBASWASS, MSAS, EGNOS and GAGANInitialization<10s	GPS	L1C/A, L2E, L2C, L5							
GALILEOE1, E5A, E5B, B5AltBOC, E6BDSB1, B2, B3SBASWASS, MSAS, EGNOS and GAGANInitialization<10s	GLONASS	L1C/A, L2P, L2C/A, L2P							
SBASWASS, MSAS, EGNOS and GAGANInitialization<10s	GALILEO								
Initialization<10sReliability>99%AccuracySBAS positioningTypically<5m 3DRMS	BDS	B1, B2, B3							
Reliability>99%AccuracySBAS positioningTypically<5m 3DRMS	SBAS	WASS, MSAS, EGNOS and GAGAN							
AccuracySBAS positioningTypically<5m 3DRMS	Initialization	<10s							
SBAS positioningTypically<5m 3DRMSCode differentialH: ±0.25m+1ppm, V: ±0.50m+1ppmReal-time KinematicH: ±8mm+1ppm, V: ±15mm+1ppmStaticH: ±2.5mm+1ppm, V: ±15mm+1ppmDataDataStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationTCP/IP, HTTP and NTRIP protocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Reliability	>99%							
Code differentialH: ±0.25m+1ppm, V: ±0.50m+1ppmReal-time KinematicH: ±8mm+1ppm, V: ±15mm+1ppmStaticH: ±2.5mm+1ppm, V: ±5mm+1ppmDataDataStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationTCP/IP, HTTP and NTRIP protocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysicalI84*134*54mm	Accuracy								
Real-time KinematicH: ±8mm+1ppm, V: ±15mm+1ppmStaticH: ±2.5mm+1ppm, V: ±5mm+1ppmDataStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationTCP/IP, HTTP and NTRIP protocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	SBAS positioning	Typically<5m 3DRMS							
StaticH: ±2.5mm+1ppm, V: ±5mm+1ppmDataStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysicalI84*134*54mm	Code differential	H: ±0.25m+1ppm, V: ±0.50m+1ppm							
DataStorage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationTCP/IP, HTTP and NTRIP protocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Real-time Kinematic	H: ±8mm+1ppm, V: ±15mm+1ppm							
Storage8GB SSD (64GB optional)Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Static	H: ±2.5mm+1ppm, V: ±5mm+1ppm							
Position update rate1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Data								
Differential outputRTCM2.x, RTCM3.x, CMR, CMR+, sCMRxData outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Storage	8GB SSD (64GB optional)							
Data outputASCII (NMEA-0813), BINARYStatic formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationTCP/IP, HTTP and NTRIP protocolProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Position update rate	1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz(optional)							
Static formatSTH, RINEX2.x, RINEX3.xData retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Differential output	RTCM2.x, RTCM3.x, CMR, CMR+, sCMRx							
Data retrievalDownload form HTTP, FTP Push, or transfer by USB portCommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Data output	ASCII (NMEA-0813), BINARY							
CommunicationProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical5izeSize184*134*54mm	Static format	STH, RINEX2.x, RINEX3.x							
ProtocolTCP/IP, HTTP and NTRIP protocolLEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical	Data retrieval	Download form HTTP, FTP Push, or transfer by USB port							
LEMO portNavigation data, static data and differential correction data transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Communication								
LEMO porttransmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm	Protocol	TCP/IP, HTTP and NTRIP protocol							
transmission, PPS-UTCBluetoothBluetooth 2.1+EDRWi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm		Navigation data, static data and differential correction data							
Wi-Fi2.4GHz,IEEE 802.11b/g/n,supports hotspot and client modeRadio410MHz-470MHzCellular4GPhysical184*134*54mm		transmission, PPS-UTC							
Radio410MHz-470MHzCellular4GPhysicalImage: Mathematical states of the states	Bluetooth	Bluetooth 2.1+EDR							
Cellular4GPhysical	Wi-Fi	2.4GHz,IEEE 802.11b/g/n,supports hotspot and client mode							
PhysicalSize184*134*54mm	Radio	410MHz-470MHz							
Size 184*134*54mm	Cellular	4G							
	Physical								
	Size	184*134*54mm							
vveignt 1.2Kg	Weight	1.2kg							
Shock and Drop 1.2m	Shock and Drop	1.2m							
Water/Dust proof IP68	Water/Dust proof	IP68							
Environmental	Environmental								
Operation temperature -40°C -75°C	Operation temperature	-40°C -75°C							
Storage temperature -40°C -85°C	Storage temperature	-40°C -85°C							
Humidity 100%	Humidity	100%							



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NET S10 mini





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Communicatio

Cloud servic

NET SIO mini

Net \$10 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.



Web interface

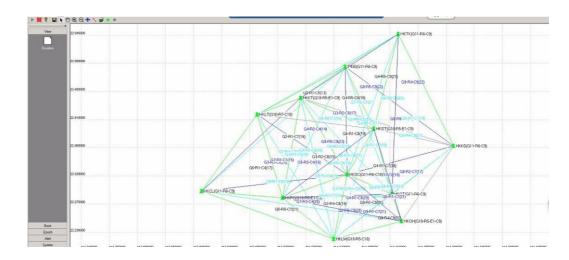
Net S10 mini adopts the advanced embedded LINUX operating system, so that users are able to login web interface of \$10 mini to configure various parameters via WiFi or network cable connection, thus, users can access to web interface with any mobile terminals like cellphone, tablet and laptop, which greatly improve the operation experience and flexibility. And registration, firmware update, data transmission are implemented on web interface.

admin. 3011A117341515 [accual] Ceneral Configuration		admin S011A6117341515 [bggut] > TCPIIP Config									
	Registration.	Status		ten	Work Mode	Local Port	Server IP	Port	Data Flow	Status	ONOF
Configuration	Serial Number: SG11A6117341515	* Configuration		1	Caster •		58.248.35.130	2010	SIC Observation •	Disconnected	
Configuration	Code: AE34FD8EA4FD34FAB47C20BB07E5216F6D7 Register		on 🔂	2	Caster •		58.248.35.130	2010	Navigation Data •	Disconnected	
	ExpiredDate: 20200617	Data Record		3	Caster •		58.248.35.130	2010	Navigation Data 🔹	Disconnected	•
	OnlineRegistration: OnlineRegi	🖳 🛛 Data Transfer		4	Caster •	4444	58.248.35.130	2010	Navigation Data •	Disconnected	
	OEMRegisterCode: 0 Register	General Serial port Cont		5	Caster •	5555	58.248.35.130	2010	Navigation Data •	Disconnected	
		TCP/IP Confic									
Receiver Security	eceiver Security 😑 Xole Setting						Enter	Cano			
🚿 Satellite Information 🔒	Work Mode: Base	Data Flow Cont					Eure	Can	el.		
📅 Data Record 🔂	Datalini: Radio •	RTCM Config	-								
😞 Data Transfer 🔽	Radio Router: None *	Network Config									
Network Config	Radio Transfer:	I Radio Config									
T Radio Config 🔂	RTK Record:	① Firmware Upda	_								
🖈 Firmware Update 🔂	xFilEnable:	Track Manage									
🕮 🛛 Track Manage 🔂	1PPS	Coordinate System	_								
Coordinate System	EVENT	Online Service									
Online Service	EVENT Polarity: Negative *	송 User Manageme	nt 🖸								

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.

