Specifications

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| 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°C-85°C | | | | | | | |
| Humidity | 100% | | | | | | | |

SOUTH Target your success





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NET S10 mini





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NET SLO 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

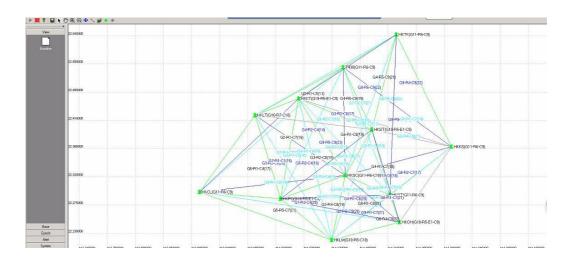
Net S10 mini adopts the advanced embedded LINUX operating system, so that users are able to login web interface of \$10 mini to configure various parameters via WiFi or network cable connection, thus, users can access to web interface with any mobile terminals like cellphone, tablet and laptop, which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

| admin SGT1AB117341515 [logad] | | WELCONE | 19212] | > TCP/IP Contig | | | | | | | | |
|--|---|---------|-----------------------|-----------------|------|-----------|------------|---------------|-------|-------------------|--------------|--------|
| | Registration | | Status | | Item | Work Mode | Local Port | Server IP | Port | Data Flow | Status | ONICFE |
| Status 🛨 | Serial Number: SG11A6117341515 | * | Configuration | | 1 | Caster • | | 58 248 35 130 | 2010 | SIC Observation • | Disconnected | |
| Configuration General Config | Code: AE34FD8EA4FD34FAB47C20BB07E5216F6D7/ Register | 16 | Satellite Information | | 2 | Caster • | | 58.248.35.130 | 2010 | Navigation Data • | Disconnected | |
| Base Setup | ExpiredDate: 20200617 | | Data Record | | 3 | Caster • | | 58 248 35 130 | 2010 | Navigation Data • | Disconnected | |
| Antenna Setup 🔲 | OnlineRegistration: OnlineRegi | | Data Transfer | | 4 | Caster • | 4444 | 58 248 35 130 | 2010 | Navigation Data • | Disconnected | |
| Satellite Tracking = Receiver Operation = | OEMRegisterCode: 0 Ragistar | | General | - | 5 | Caster • | | 58 248 35 130 | 2010 | Navigation Data • | Disconnected | |
| System Setup | | | | | | | | | | | | |
| Receiver Security 🖃 | Rode Setting | | | | | | | Enter | Cano | | | |
| ★ Satellite Information 🗄 | Work Mode: Base | | | - | | | | Circa | Calic | | | |
| 📅 Data Record 🔂 | Datalink: Radio • | | RTCM Config | | | | | | | | | |
| 🖳 Data Transfer 🔽 | Radio Rouler: None * | - | Network Config | - | | | | | | | | |
| Network Config | Radio Transfer: | I A | Radio Config | - | | | | | | | | |
| 🗄 Radio Config 🔁 | RTK Record: | ± | Firmware Update | - | | | | | | | | |
| 🖈 Firmware Update 🔒 | xFillEnable: | | Track Manage | - | | | | | | | | |
| 📅 🛛 Track Manage 🔒 | 1PPS: | - | Coordinate System | 0 | | | | | | | | |
| Coordinate System 🔒 | EVENT | ů | Online Service | | | | | | | | | |
| 🗘 Online Service 🔒 | EVENTPolarity: Negative + | 2 | User Management | - | | | | | | | | |

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.

