NET10

Portable CORS Solution

NET10 is specially designed for user who needs to set up reference stations. With the 3D choke-ring antenna, the device provides stable correction data to the rover. Integrated with Bluetooth, WIFI, Web UI, ethernet and serial port, NET10 brings possibility for more applications.

Multi-constellation and Multi-frequency
With 800 channels of GNSS tracking, NET10 covers multiple GNSS signals to provide stable and reliable data source.

L-Band RTX
RTX is a service to provide global precision correction service over L-band satellites. With RTX subscription, NET10 is able to achieve centimeter accuracy without any correction data.

Small-size Design
NET10 is designed in small size without redunction function. As a reference station, It is easy for operation.

Web UI
It is able to view position status, configurate device, download data and update firmware from Web user interface with any phone, tablet or PC.

Choke Ring Antenna
With eSurvey's small-size 3D choke ring antenna, the reference station can achieve best performance.

Rugged Design
With IP67 certification, NET10 ensures operation in various of tough environments.

Product Specification

GNSS

Satellites Tracking	GPS: L1CA/L2E/L2C/L5 BDS: B1/B2 GLONASS: L1CA/L2CA/L3 CDMA GALILEO: E1/E5a/E5b/E5ALTBOC QZSS: L1CA/L1 SAIF/L2C/L5/LEX IRNSS: L5 SBAS[1]: L1CA/L5 L-Band: RTX
Channels	336
Signal Reacquisition	< 2 sec
Cold Start	< 45 sec
Warm Start	< 30 sec
Hot Start	< 10 sec
Initialization Reliability	> 99.9%
Update Rate	20 Hz standard
Operation System	Linux
Internal Memory	32 GB

Performance

High Precision Static	H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm
Static/Fast Static	H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm
Code Differential	H: 0.3 m V: 0.6 m
SBAS	H: 0.3 m V: 0.6 m
1PPS	10 ns

Power Supply

Power	2-pin DC in
Voltage	8~36 VDC with over-voltage protection

Communication

Bluetooth	BT5.0 + EDR, compatible with BLE
WIFI	802.11 b/g/n/ac
Ethernet	Support
Port	1 x Lemo-0, 2-pin, DC in 1 x DB9 female, RS232 1 x RJ45 ethernet 1 x GNSS TNC female
Baud Rate	9600 ~ 115200 bps
Web UI	Support
NMEA Output	NMEA0183
Correction Data	RTCM2.X, RTCM3.X, CMR, CMR+, DGPS, BINEX, RAW
Data Recording	Support 8 recording simultaneously
Recording Format	Binary, RINEX, BINEX
Recording Interval[2]	2s, 5s, 10s, 15s, 30s, 60s 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
Data Stream	1 x Bluetooth 1 x Serial port 3 x NTRIP server streams 1 x NTRIP client streams 5 x Socket (TCP/UDP) streams
Smart Alert	Email alert
FTP Function	FTP server FTP client (FTP push)
NTP Server	Support
Others	DDNS, SNMPD, Firewall, VPN

Physical

Dimension	131 x 36.5 x 97 mm
Weight	435 g
Operating Temperature	-40℃ ~ +65℃
Storage Temperature	-45℃ ~ +80℃
Water/Dust Proof	IP67
Humidity	Up to 95%
Indicators	Power, satellite, recording, datalink
Button	1 x Reset button

1. BAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS.
2. The maximum rate depends on the GNSS registration.