

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.

Small-size Design

NET10 is designed in small size without reduction function. As a reference station, It is easy for operation.

Choke Ring Antenna

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

L-Band Atlas

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

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.

Rugged Design

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

Product Specification

GNSS	
Satellites Tracking	GPS: L1CA/L1P/L1C/L2P/L2C/L5 BDS: B1I/B2I/B3I/B1C/B2a/B2b/ ACEBOC GLONASS: G1/G2/G3, P1/P2 GALILEO: E1/E5a/E5b/E6/ALTBOC QZSS: L1CA/L1C/L2C/L5/LEX IRNSS: L5 SBAS ¹ : L1/L5 L-Band: Atlas H10/H30/Basic
Channels	800
Signal Reacquisition	< 1 sec
Cold Start	< 60 sec
Warm Start	< 30 sec
Hot Start	< 10 sec
Initialization Reliability	> 99.9%
Update Rate	10 Hz standard, up to 20 Hz
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
L-Band	Atlas H10: 4 cm RMS Atlas H30: 15 cm RMS Atlas Basic: 30 cm RMS
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°C ~ +65°C
Storage Temperature	-45°C ~ +80°C
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.

