

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 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.

Small-size Design

NET10 is designed in small size without reduction 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		Communication	
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	Bluetooth	BT5.0 + EDR, compatible with BLE
		WIFI	802.11 b/g/n/ac
Channels	800	Ethernet	Support
Signal Reacquisition	< 1 sec	Port	1 x Lemo-0, 2-pin, DC in 1 x DB9 female, RS232 1 x RJ45 ethernet 1 x GNSS TNC female
Cold Start	< 60 sec	Baud Rate	9600 ~ 115200 bps
Warm Start	< 30 sec	Web UI	Support
Hot Start	< 10 sec	NMEA Output	NMEA0183
Initialization Reliability	> 99.9%	Correction Data	RTCM2.X, RTCM3.X, CMR, CMR+, DGPS, BINEX, RAW
Update Rate	10 Hz standard, up to 20 Hz	Data Recording	Support 8 recording simultaneously
Operation System	Linux	Recording Format	Binary, RINEX, BINEX
Internal Memory	32 GB	Recording Interval ²	2s, 5s, 10s, 15s, 30s, 60s 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
Performance		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
High Precision Static	H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm	Smart Alert	Email alert
Static/Fast Static	H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm	FTP Function	FTP server FTP client (FTP push)
RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm	NTP Server	Support
Code Differential	H: 0.3 m V: 0.6 m	Others	DDNS, SNMPD, Firewall, VPN
SBAS	H: 0.3 m V: 0.6 m	Physical	
L-Band	Atlas H10: 4 cm RMS Atlas H30: 15 cm RMS Atlas Basic: 30 cm RMS	Dimension	131 x 36.5 x 97 mm
1PPS	10 ns	Weight	435 g
Power Supply		Operating Temperature	-40°C ~ +65°C
Power	2-pin DC in	Storage Temperature	-45°C ~ +80°C
Voltage	8~36 VDC with over-voltage protection	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.

