

## NetBOX2



## **PRECISION**

As big as your pocket





**UHF RADIO** 



**WEBUI** 



EI	ш	I.	CNISS

PHYSYCAL				
HARDWARE				
Kirk Julyeying	Vertical: ±(15mm + 1.0ppm)			
RTK Surveying	Horizontal: ±(8mm + 1.0ppm)			
Static Grass surveying	Vertical: ±(5mm + 0.5ppm)			
Static GNSS surveying	Horizontal: ±(2.5mm + 0.5ppm)			
Positioning <sup>1</sup>				
Time accuracy	20 ns			
Initialization Reliability	>99.99%			
RTK Initialization time	<5s			
Signal Reacquisition	<1s			
Positioning output rate	1Hz-50Hz			
Hot start	<15 s			
Cold start	<60 s			
Channels	1408 channels			
	GAGAN, SDCM			
	SBAS: WAAS, EGNOS, MSAS,			
	Q255: L1/L2/L5/L0			

GPS: L1 C/A, L2C, L2P, L5

GALILEO: EI/E5a/E5b/E6

BEIDOU: B1, B2, B3, B1C, B2a, B2b

GLONASS: L1, L2

0755-11/12/15/16

**Performance specification** 

Satellite signals tracked

simultaneously

Material	Magnesium alloy
Dimensions	100×100×73mm
weight	0.55kg
Operating temperature	-40°C to + 75°C
Storage temperature	-55°C to + 85°C
Protection IP	IP67 dust proof, protected from
	30min immersion to depth of 1m
Shock	IK08,Survive 2 m drop onto the
SHOCK	concrete
Vibration	MIL-STD-810G
Humidity	100%, condensing
	IMU
IMU	Supported, 4D IMU initialization
	in 3 seconds
IMU update rate	400Hz
IMU accuracy	<2.5cm within 30°
IMU tilt compensation	0-60°

1- Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. The specifications stated recommend the use of stable mounts in an open sky view, EMI and multipath clean environment, optimalGNSS constellation configurations. Base lines longer than 30 km require precise ephemeris and occupations up to 24 hours may be required to achieve the high precision static specification.

E	LECTRYCAL
Power: 9~24 V DC externa	l power
Support USB Type-C fast c	harging
Internal 6800mAh lithium-	ion battery
Battery Life	Rover Mode: 14 hours
battery Life	Static Mode: 20 hours
Communication & Da	ata Storage
	USB TypeC (support charging,
I/O interface	data download) ; SMA radio
	antenna interface
WEBUI	Support WEBUI configuration
Cellular	Controller 4G, Bulit-in LTE
RAD	IO MODEM
internal radio	RX internal module (Tx/Rx optiona
internal radio frenquency	410-470 MHZ
Communication protocol	Transparent transmission /TT450S
	WIFI
802.11 b/g standard, access	s point & client mode, supports
access to hotspot for corre	ection transmission
	Bluetooth
Fully integrated Bluetooth	V4.0, range ≤ 50m
С	Oata format
Differential data	RTCM2.X、RTCM3.X
GPS output data format	NMEA 0183s RJK, Binary code
static data format	RINEX
	storage

8GB internal memory, supports cyclic storage; with ability to collect over one year raw observation based on 5 seconds interval

#### **Others**

System integration			
OS system:	Intelligent LINUX operating system		
Relay station	CORS relay, Radio relay		
Supported controllers	All android devices with supported software  Design		
Key	Double button		
Indicator	Power indicator, data link indicator, satellite indicator, Bluetooth indicator		
WEBUI	Support WEBUI configuration		

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### NetBOX2 -

Netbox2 is a compact new generation of smart GNSS receiver designed for any surveying project using the latest GNSS technology. This receiver is equipped with all modern required connectivity modules: Bluetooth, Internal radio, WIFI & 4G modem. 6800mAh Built-in battery, IMU tilt technology and WebUI are other latest technologies used in Netbox2 receivers.



#### ■ GSM & UHF radio

A fast internet connection is guaranteed with a built-in 4G module that accelerate receiving correction data using all telecommunication signals and bands. Netbox2 comes with an integrated Tx/Rx internal UHF radio that ranges from 410 MHz to 470 MHz with selectable frequency providing ability to connect and collect accurate real time data in Base/Rover mode.



#### ■ Multi constellation

Netbox2 with it's 1408 channels new generation full GNSS chipset & ability to support multiple satellite constellation including GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS and IRNSS provides precise and accurate spatial data for all users around the world.



#### ■ Battery & Power

Netbox2 is delivered with an internal large capacity 6800mAh lithium-ion internal battery supporting USB type-C fast charging which allows users to work for more than 14 hours in daily field work.



#### ■ WiFi and WebUI

Netbox2 serves as a WIFI hotspot, so users can easily access/manage the status, set the configuration or download static and PPK raw data through advanced WebUI using computer, smartphone or other electronic devices with WIFI support without any need to third party software or cable.



### **■** IP67

Choosing a small, light but professional, reugged GNSS receiver has always been a concern among professional surveyors. Netbox2 with its high quality magnesium alloy body provides such advantages without decreasing quality or notable increase in price.



#### **■ IMU Tilt Sensor**

Netbox2 is equipped with a fast initialization, calibration free  $\varepsilon$  immune to magnetic interference Inertial Measurement Unit (IMU). All users can use this technology to collect or stakeout topo points up to 60°.



#### **■** Working mode

Every surveyor needs to Operat and choose suitable working method based on project requirements and required accuracy. In order to work in such condition users will need a device to be able to work in different modes such as Static, Network RTK, UHF RTK, PPK & etc. Netbox2 is offering all you need in a package!

