CUBE RTK

Introduction

The cubic RTK high-precision satellite locator is a high-precision satellite positioning device using the latest technical solutions. It is small in size, light in weight, high in precision and full in function. It can be used as a reference station or a measurement station. It is a high-precision positioning device. The preferred device for measurement.

Cube RTK has built-in high-precision satellite positioning module with full-frequency point or four-system eight-frequency point, high-precision measurement satellite receiving antenna, IMU tilt measurement module, 4G CAT1 full Netcom communication module, WIFI communication module, dual-mode Bluetooth 5.2 communication module , LORA data transmission module, PD fast charging module, built-in large-capacity battery for up to 16 hours of battery life, support CORS differential and LORA portable base station differential, can also send RTCM data through 4G, WIFI, LORA.

Function

- 1. Two working modes, users can choose one of two modes, base station mode and measuring station mode. In the measuring station mode, you can choose to open or close the inertial navigation tilt measurement function.
- 2. In base station mode, users can set how to obtain their own coordinates (automatic convergence/differential positioning),
 You can also set which way to upload RTCM data (4G/WIFI/LORA, manual NTRIP/manual MQTT/Glacier MQTT).
- 3. Measuring station mode, the user can set how to obtain differential data (4G/WIFI/BT/LORA, Glacier NTRIP/Manual NTRIP/Glacier MQTT/Manual MQTT), you can also set whether to enable the tilt measurement function.



Product Specifications (Dual Frequency)

GNSS performance			
Tracking frequency		GPS/QZSS: L1/L5;BeiDou: B1I/B2a;GALILEO: E1/E5a;GLONASS: G1(选配)	
Data update frequency		1Hz/5Hz	
Sensitivity		Track:-165dBm; Recapture:-160dBm; Capture sensitivity:-148dBm	
Speed accuracy		0.1m/s	
First positioning time		Cold start:30s; Hot Start:2s	
RTK accuracy		Horizontal accuracy: 1cm + 1ppm; Elevation accuracy: 2cm + 1ppm	
Physical Specifications			
Volume	104*104*65mm		
Weight	450g		
Bottom thread	3/8inch		
Battery capacity	6000mAh		
External interface	Type-C		
Protection class	IP67		
Performance Specifications			
Battery life			20h (Base station mode, WIFI upload)
Supported Differential Methods			NTRIP、Bluetooth、MQTT
Storage card			Built-in TF card, 16-128GB
SIM card			SMD card / plug-in card
Bluetooth			Bluetooth5.2
WIFI			IEEE802.11b/g/n
LoRa			Support400-500MHz、800-900MHz
4G full Netcom			LTE-FDD:B1/B3/B5/B8; LTE-TDD:B34/B38/B39/B40/B41
Operating environment			
Working temperature -20°C ~ 70°		-20°C ~ 70°	°C
Storage temperature -20°C ~ 70°		-20°C ~ 70°	°C