C-RTK 2

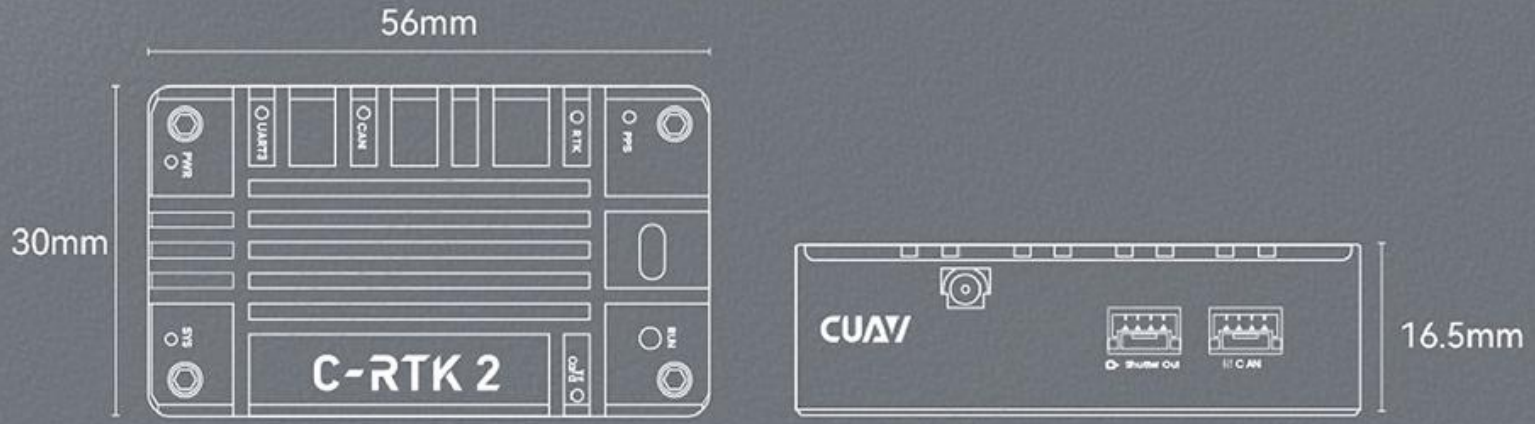
Built-in High-Precision Industrial IMU

C- RTK 2 built-in high-precision industrial grade ICM-20689 accelerator & gyroscope, RM3100 electronic compass, ICP10111 barometer, can be configured for flight controller external IMU, and can be shot in the posture, rich information such as elevation is recorded in POS data.

High-Speed USB Reading

C- RTK 2 supports reading data on the memory card directly through the Type-C data cable connected to the computer, with a speed of up to 48 M/s. It supports up to 32G TF card, it can quick config by text file

Weight: 39g


56mm
30mm
UART2
CAN
RTK
PPS
PWR
SYS
C-RTK 2
CUAV
Shutter Out
CAN
16.5mm

Applicable to Multiple Scenarios

C- RTK 2 is very suitable for mapping, UGV, Agricultural and other more scenarios

Aerial survey

Agricultural industry

Drone Shows

Precision navigation

C-RTK 2 accessories list

CAN data cable 35cm	X 1	
Remote control shutter release cable 35cm	X 1	
Hot shoe cable 30cm	X 1	
Hot shoe trigger cable 30cm	X 1	
Dupont connector 3P (wiring modification) 20cm	X 1	

C-RTK 2 Overview

C- RTK 2 is a high-performance PPK/RTK positioning module created by Viewpro for professional application fields such as UAV aerial survey; It integrates light appearance, industrial grade IMU, multi-star and multi-frequency satellite receiver, supports both RTK centimeter-level positioning navigation and RAW data recording for post-differential calculation. Supports shutter triggering and hotshoe synchronization. It adopts CAN bus protocol and is compatible with PX4/ArduPilot open-source flight controller. It can be applied to various specifications of multi-rotor, VTOL fixed wing, helicopter and other industrial use UAVs.

Built-in High Precision IMU

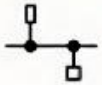
H7 Processor

Both Support RTK&PPK

Support Hotshoe Trigger

Reduce Control Point

Multi-star Multi-frequency

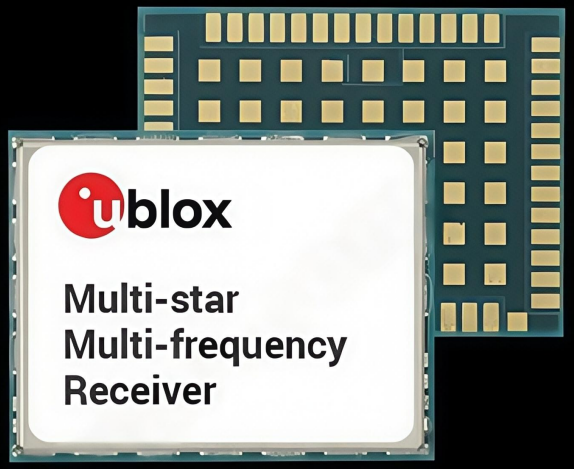


UAVCAN Protocol

48M/s Reading Speed

Multi-star Multi-Frequency High- Precision Positioning

Built-in u-blox F9P multi-star multi-frequency satellite receiver,support GPS, Beidou,Glonass,Galieo four satellite systems, and support the simultaneous reception of four satellite systems, positioning accuracy ≤rtk 0.01m + 1ppm CEP.



GPS

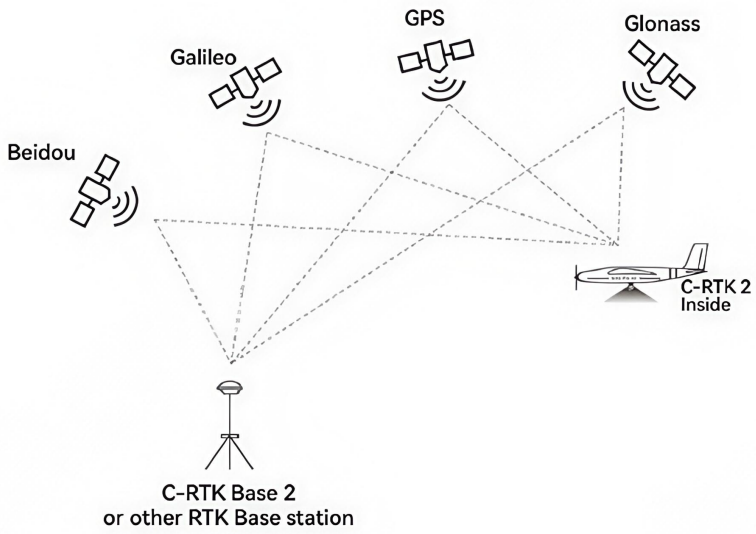
Beidou

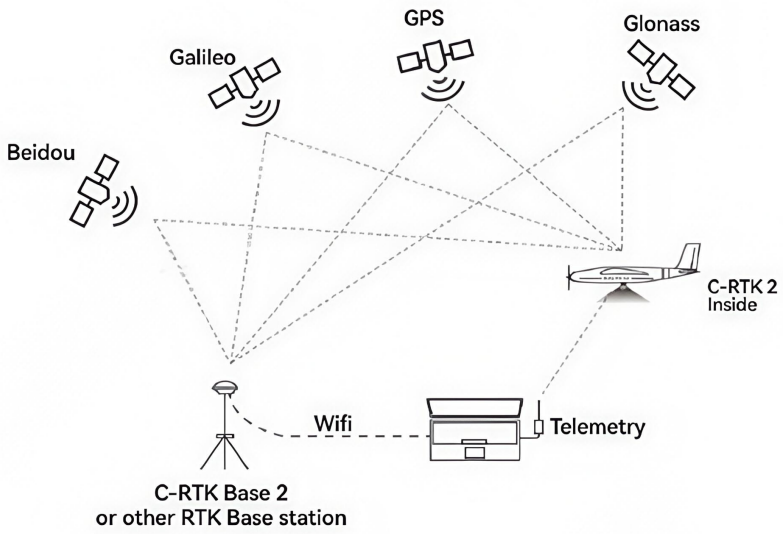
Glonass

Galieo

Both RTK&PPK are Supported

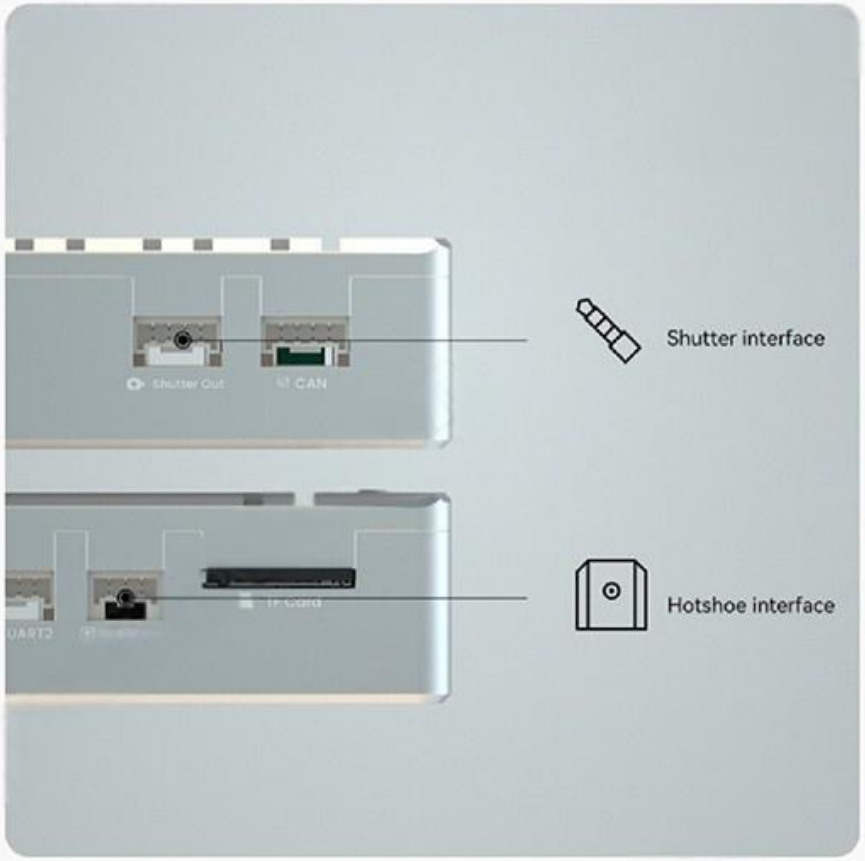
C- RTK 2 supports both RTK and PPK functions and supports up to 25Hz raw data recording. It is very suitable for surveying and mapping, unmanned driving, unmanned vehicles, inspection, agriculture and other fields.





High Performance H7 Processor

C- RTK 2 uses STM32H7 processor, STM32H743 processor, Cortex-M7 core (with double-precision floating point unit), running frequency as high as 480MHz,2MB Flash,1MB RAM, running real-time system, enable C- RTK 2 to work efficiently and stably



Support Shutter and Hotshoe Trigger

C- RTK 2 supports double triggering of shutter and hot boot at the same time, and obtains more accurate Pos data through real-time communication between hotshoe and camera.

Less Control Point

By using C-RTK 2 for mapping, the control point can be reduced by more than 80%. With the use of professional mapping camera, can even realized control point free

Before use C-RTK 2

After use C-RTK 2

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