

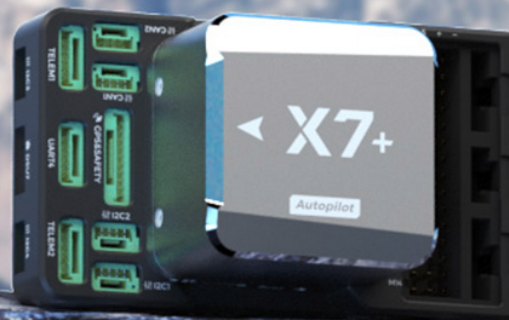
X7+ Controller

Come with new sensor

STM32H743 Processor

ICM-42688-P Acce&Gyro

RM3100 Industrial compass



H7 Processo Powerful Performance

X7+ autopilot uses STM32H743 series processors CPU, Cortex-M7 core (with double precision Floating-Point Unit). It makes operating frequency increase to 480Mhz, 2MB Flash, 1MB RAM, Meet the higher computing needs of flight controllers Compared with the STM32F7 product line, the dynamic power consumption efficiency is doubled.



Kernel



Frequency



Flash

The Sensor is Upgraded Again

The sensor is one of the important indicators to evaluate the flight controller. This time, we have added the ICM-42688-P sensor. Compared with the traditional consumer IMU, the noise figure of ICM-42688-P is reduced by 40%, and the temperature stability is improved 2 times, so as to ensure the highest accuracy measurement in the case of temperature changes.

Noise figure reduction

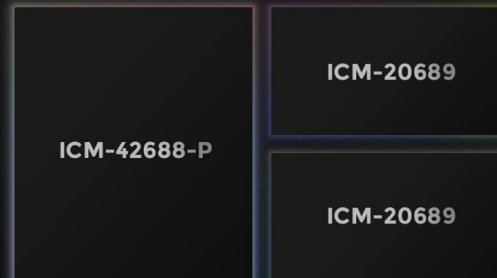
40%

Double temperature stability

2x

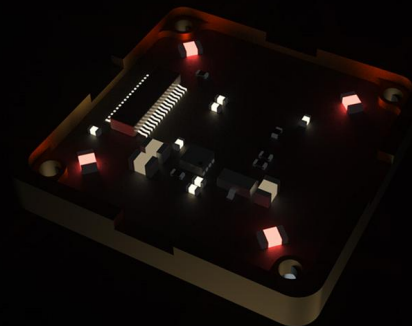
Sensor Redundancy Design

Built-in three sets of accelerometers and gyroscopes, the flight controller monitors the data of multiple sensors in real time, and executes redundant switching immediately in case of failure to improve flight safety and stability.



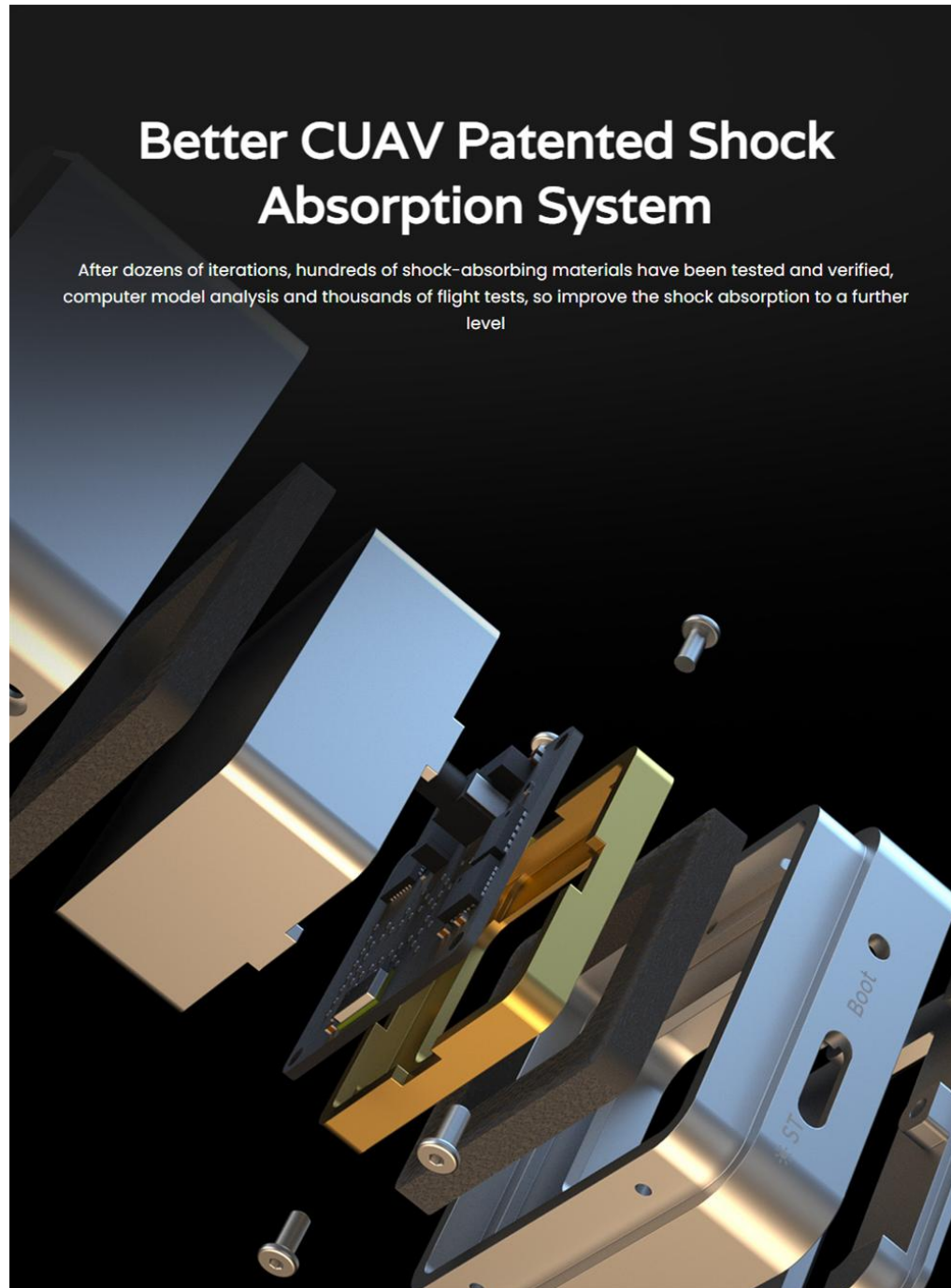
Temperature Compensation System

The built-in high-precision sensor temperature compensation system makes the sensor work at a constant temperature, ensuring that the sensor can operate stably with high precision and sensitivity in high and low temperature environments.



Better CUAU Patented Shock Absorption System

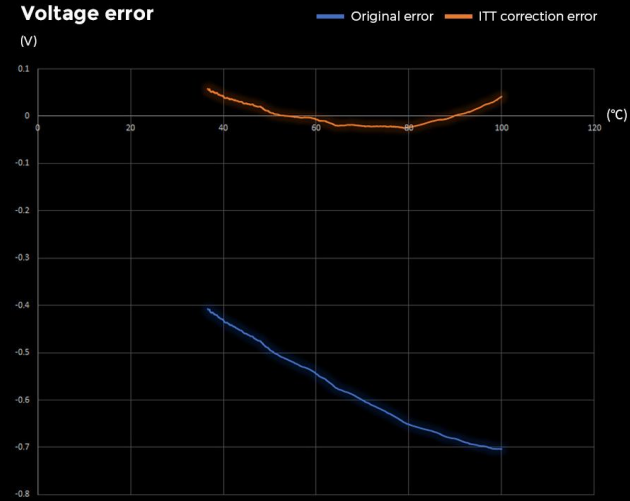
After dozens of iterations, hundreds of shock-absorbing materials have been tested and verified, computer model analysis and thousands of flight tests, so improve the shock absorption to a further level



Standard Pack Digital Power Module

Standard package include UAVCAN protocol digital power detection module, using CUAV independent R&D ITT algorithm, accurate measurement of UAV real-time voltage and current, making flight time estimation more reliable.

Voltage error

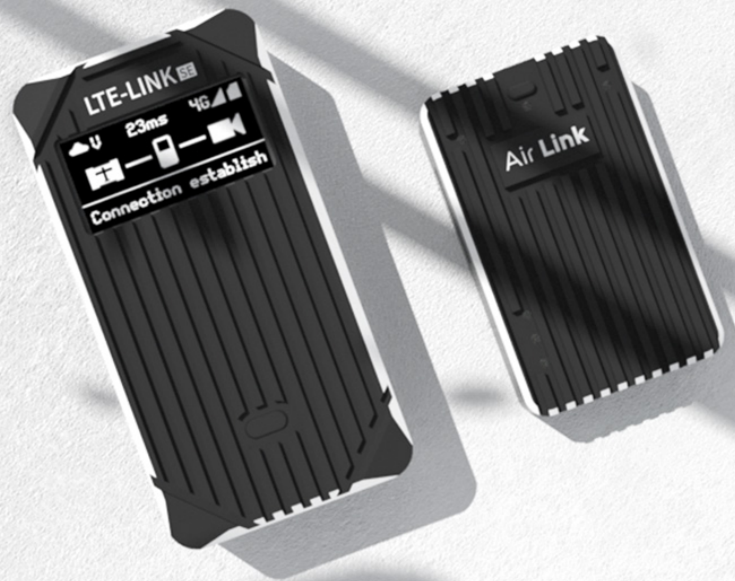


Current error



Support LTE Link Series 4G Telemetry

CUAV's C-RTK series products can be purchased to achieve centimeter-level positioning, which can be used in scenes that require high-precision positioning. Such as plant, Agriculture, surveying and mapping, etc.



Optional RTK to Realize Centimeter-Level Positioning

Support LTE Link series 4G telemetry, so that your flight video and data can be transmitted without distance limitation, and support video sharing.



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