

零一空天科技 产品手册 PRODUCTS BROCHURE



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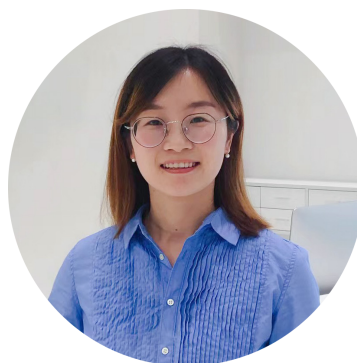
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About Us

零一空天（南京）科技有限公司，成立于 2015 年，创始人张杰博士，毕业于南京航空航天大学。于 2012 年开始无人机研究，经过 12 年的发展，组建了一支技术过硬的无人机研发团队。业务覆盖无人机航电系统开发、地面站软件开发，无人机编队协同与控制算法开发，动平台移动跟踪起降，涡喷发动机控制系统开发等。

Zero-One Aerospace (Nanjing) Technology Co., Ltd. was established in 2015. The founder, Dr. Jane, graduated from Nanjing University of Aeronautics and Astronautics. We started drone research in 2012. After 12 years of development, we have established a highly skilled drone research and development team. The business covers UAV avionics system development, ground station software development, UAV formation collaboration and control algorithm development, mobile platform tracking takeoff and landing, turbojet engine control system development, etc.



张杰 博士 Dr. Jane
CEO&Founder

我们做什么

What we do

无人机航电系统

Uav avionics system

飞行控制器、卫导模块、通讯链路、空速计、电源模块等无人机必备电设

Flight controller, GNSS Module, Communication Link, airspeed meter, power module and other necessary electrical equipment for drones

无人机解决方案

RTF UAV Solution

多旋翼、固定翼、垂直起降固定翼、倾转旋翼等多种构型的无人飞行器产品

Multi-rotor, fixed-wing, vertical take-off and landing fixed-wing, tiltrotor and other configurations of unmanned aerial vehicle products

涡喷发动机控制系统

Turbojet Engine Control Systems

应用于中高速固定翼飞行器的微小型涡轮喷气发动机控制系统产品

Micro turbojet engine control system for medium and high speed fixed wing aircraft

飞行控制算法开发、地面站软件定制

Flight control algorithm development, ground control software customization

自主决策、分布式智能协同、智能集群等功能的智能飞行控制算法，无人机地面站软件定制等

Intelligent flight control algorithms for autonomous decision-making, distributed intelligent collaboration, intelligent clustering and other functions, UAV ground station software customization, etc.

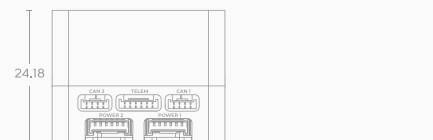
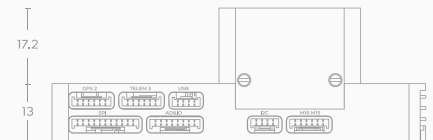
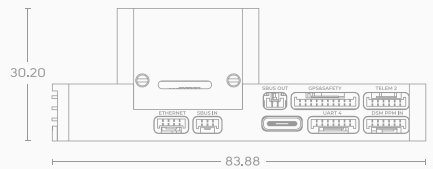
X6系列飞控 X6 Series Autopilot

X6 系列飞控，基于 FMU v6X 设计，布局紧凑，内置减震，拥有 IMU 三组冗余，恒温系统。支持网口通信，接口侧出，装机布局简约美观，支持 PX4 与 APM 固件，适用机型广泛。Pro 版本采用航天级的 ADIS16607 传感器，拥有出色的抗震与温度漂移性能，偏差稳定性仅 2.5° / 每小时，大幅领先 adis16470 16507 系列，非常适合工业级无人机及油动机型使用。

X6 series flight controller, based on FMU v6X design, compact layout, built-in shock absorption, with IMU triple redundancy, constant temperature system. Support network port communication, interface side out, simple and beautiful installation layout, support PX4 and APM firmware, applicable to a wide range of models. The Pro version uses the space-grade ADIS16607 sensor, which has excellent seismic and temperature drift performance, 2.5°/hr in run bias stability, significantly ahead of adis16470 16507 series, making it ideal for industrial grade UAVs and oil powered aircraft.



项目 Item	参数 Specification
硬件标准 Hardware standard	FMU v6X
处理器 Processor	STM32H753
协处理器 Coprocessor	STM32F103
内置减震 Built-in shock absorption	有 Yes
IMU 温度补偿 IMU temperature compensation	有 Yes
加速计与陀螺仪 Accelerometer and gyroscope	TDK ICM45686(Pro:ADIS16607)/TDK ICM45686/BMI088
罗盘 Compass	工业级 RM3100
气压计 Barometer	ICP-20100×2
PWM 继电器 PWM relay	有 Yes
接收机协议输入 Receiver protocol input	SBUS+DSM+PPM
PWM 输出 PWM output	16 (14 路杜邦接口 +2 路 GH1.25 扩展接口) 16 (14 DuPont ports +2 GH1.25 expansion ports)
PWM 电平切换 PWM level switching	支持 3.3V 与 5V 之间切换 Switching between 3.3V and 5V is supported
电源接口 Power interface	2
接口明细 IO detail	CAN ×2 Telem ×3 GPS&Safety ×1 GPS2 ×1 DSM PPM IN×1 ETH ×1 UART 4×1 SUBUS IN×1 SBUS OUT×1 USB ×1 SPI ×1 AD&IO ×1 I2C ×1



X6 Nano 飞控

X6 Nano Autopilot

X6 Nano 飞控是由零一空天科技全新推出的一款开源无人机飞控，基于 Fmu v6X 进行开发，支持 Aurupilot 与 PX4 固件，体积小巧，接口丰富，可满足多种机型，多应用需求，针对对体积要求比较小，重量轻的用户打造。

X6 Autopilot, is the first open source flight controller launched by ZeroOne Aero, based on FMU v6X design, compact layout, built-in shock absorption and IMU redundancy, support network port communication, interface side out, installation layout is simple and beautiful, support PX4 and APM firmware, suitable for a wide range of models!



项目

Item

参数

硬件标准

Hardware standard

FMU v6X

处理器

Processor

STM32H753

协处理器

Coprocessor

STM32F103

内置减震

Built-in shock absorption

无

加速计与陀螺仪

Accelerometer and gyroscope

TDK ICM45686

磁罗盘

Compass

工业级 RM3100

气压计

Barometer

ICP-20100

PWM 继电器

PWM relay

有

接收机协议输入

Receiver protocol input

SBUS

PWM 输出

PWM output

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PWM 电平切换

PWM level switching

不支持

电源接口

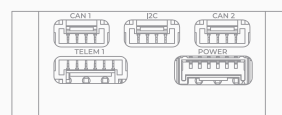
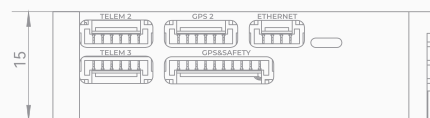
Power interface

1

接口明细

IO detail

CAN ×2 Telem ×3 GPS&Safety ×1 GPS2 ×1 DSM ETH ×1 UART 4×1 SUBUS IN×1 SBUS OUT×1 AD&IO ×1 I2C ×1



OneGPS M9N

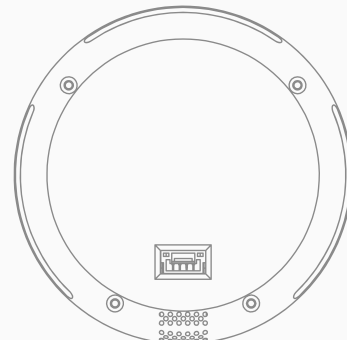
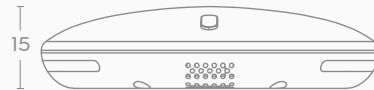
OneGPS M9N 系列采用高性能的 ublox M9N 卫星接收器，灵敏度高、抗干扰性较强，支持北斗、GPS、伽利略及格洛纳斯四大主流卫星系统，并支持四卫星同时接收，提高定位精度，采用 CAN 总线通信，集成工业级罗盘，气压计、蜂鸣器与安全开关。

The OneGPS M9N series uses the high-performance ublox M9N satellite receiver, which has high sensitivity and strong anti-interference. It supports the four mainstream satellite systems of Beidou, GPS, Galileo and GLONASS, and supports simultaneous reception of four satellites to improve positioning accuracy. CAN bus communication, integrated industrial compass, barometer, buzzer and safety switch.



项目 Item	参数
卫星接收机 GNSS receiver	ublox M9N
处理器 processor	STM32L431
通信协议 Communication protocol	DroneCAN 总线
罗盘 Compass	RM3100
气压计 barometer	ICP20100
蜂鸣器 buzzer	有
安全开关 Safety switch	有
LED 灯 LED light	有
工作频段 Frequency band	GPS: L1 C/A GLONASS:L10F Beidou:B1I Galileo:E1B/C
搜星数量 Number of satellites	32
定位精度 Accuracy	水平精度: 2m 速度精度 0.05ms Horizontal accuracy: 2m Speed accuracy 0.05ms

82.38



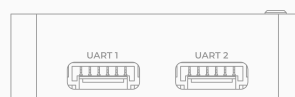
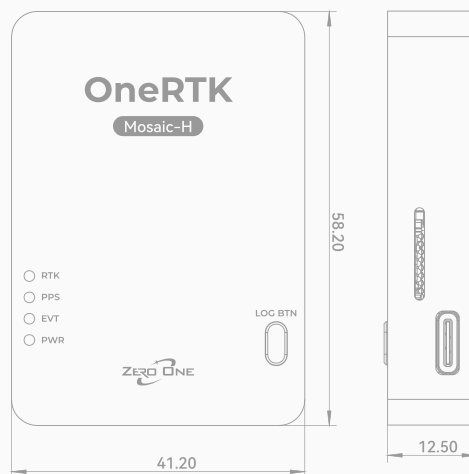
OneRTK Mosaic-H

OneRTK Mosaic-H 是行业级高端高精度卫星接收机，具有双天线输入，提供精确可靠的航向数据。拥有高达 50Hz 的刷新率，0.1m+1ppm 的 RTK 精度，0.03°的航向精度，且延迟 <10 ms，支持 PPK 记录，并采用最先进的板载抗干扰技术 Aim+，支持（Open Service Navigation Message Authentication，开放服务导航电文鉴权）在民用信号上提供端到端的鉴权功能，保护接收机免受导航欺骗攻击，是移动起降，测绘等应用场景的不二选择！



OneRTK Mosaic-H is an industry-level high-end high-precision satellite receiver with dual antenna inputs that provides accurate and reliable heading data. It has a refresh rate of up to 50Hz, RTK accuracy of 0.1m+1ppm, heading accuracy of 0.03°, and latency <10 ms. It supports PPK recording and uses the most advanced onboard anti-interference technology Aim+ to support Open Service Navigation Message Authentication. It provides end-to-end authentication function on civilian signals and protects the receiver from navigation spoofing attacks. It is the best choice for mobile take-off and landing, surveying and mapping and other application scenarios!

项目 Item	参数
卫星接收机 GNSS Receiver	Mosaic-H
卫星频段支持 GNSS Band	GPS: L1, L2 Galileo: E1, E5b GLONASS: L1, L2 Beidou: B1, B2 QZSS: L1, L2 SBAS: Egnos, WAAS, GAGAN, MSAS, SDCM (L1)
导航刷新率 Update rate	位置 Position 100 Hz 位置和姿态 Position and attitude 50 Hz 仅测量 Measurements only 100 Hz
定位精度 Positioning accuracy	Horizontal: 0.6 cm + 0.5 ppm Vertical: 1 cm + 1 ppm
速度精度 Velocity accuracy	3cm/s
定向精度 Heading accuracy	天线距离 1M: 航向 0.15° Pitch/Roll 0.25° 天线距离 5M: 航向 0.03° Pitch/Roll 0.05°
授时精度 Time precision	xPPS out: 5ns 事件精度 < 20 ns
定位时间 Time to first fix	冷启动 Cold start 9 < 45 s 热启动 Warm start 10 < 20 s 重新捕获 Re-acquisition 1 s
工作温度 Operating temperature	-40 to 85° C
数据协议 Protocols	Septentrio Binary Format (SBF) NMEA 0183, v2.3, v3.03, V4.0 RINEX v2.x, v3.x RTCM v2.x, v3.x (MSM included)



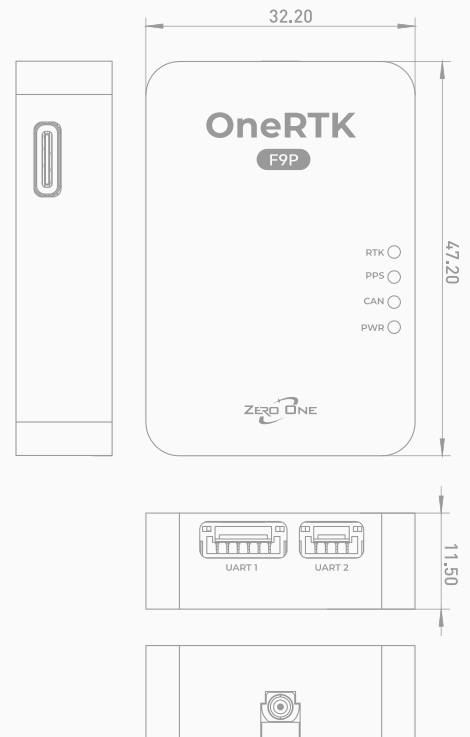
OneRTK F9P

OneRTK F9P 采用进口 ublox F9P 高精度 RTK 定位模块，四星多频 RTK 定位，精度可达 0.01m+1ppm CEP，支持飞机端使用两个模块进行航向测定，复杂电磁环境下代替磁罗盘。

OneRTK F9P adopts imported ublox F9P high-precision RTK positioning module, four-star multi-frequency RTK positioning, accuracy up to 0.01m+1ppm CEP, supporting the use of two modules for course determination at the aircraft end, replacing the magnetic compass in complex electromagnetic environment.



项目 Item	参数
卫星接收机 GNSS Receiver	ublox F9P
通道 Channels	184
卫星系统支持 GNSS support	BDS/GPS/GLONASS/Galileo
卫星频段 GNSS Band	B1I, B2a, E1B/C, E5a, L1C/A, L1OF, L5
并发卫星系统数 Concurrent GNSS	4
导航刷新率 Refresh rate	RTK 20Hz RAW 25Hz PVT 25Hz
定位精度 Positioning accuracy	RTK: 0.01m+1ppm CEP Single: 1.5m CEP; SBAS: 1.0m CEP
收敛时间 RTK Surveyin-time	RTK<60s
灵敏度 Sensitivity	追踪 & 导航 Tracking & Nav: -167dBm 冷启动 Cold starts: -148dBm 热启动 Hot starts: -157dBm 再次捕获 Reacquisition: -160 dBm
工作电压 Operating voltage	4.5 V ~ 6 V
工作温度 Operating temperature	-40 °C ~ +85 °C
数据协议 Protocols	NMEA、UBX binary、RTCM 3.x



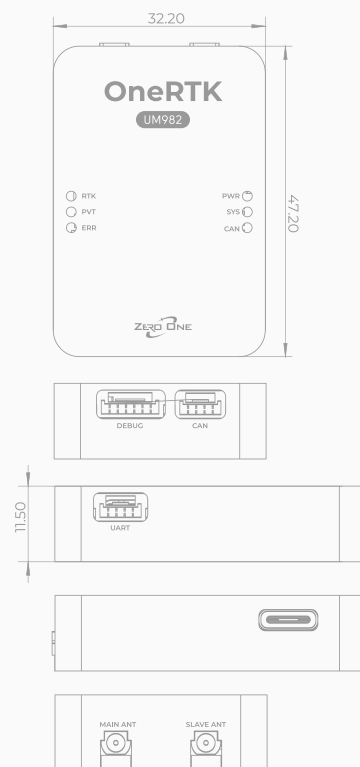
OneRTK UM982

ZeroOne OneRTK UM982 是一款双天线 RTK 模块，提供厘米级高精度的定位信息，单个模块接两根天线可用于测定飞机航向，在机内有电气系统或外部干扰磁罗盘的情况下，代替磁罗盘，提供稳定的精准的航向测定与高精度定位。使无人机能够轻松胜任电力巡线、金属矿产巡查等复杂磁场环境的应用场景。



The ZeroOne OneRTK UM982 is a dual antenna RTK module that provides centimeter-high precision positioning data. A single module with two antennas can be used to estimate yaw. In the case of electrical systems or external interference, the magnetic compass can replace the magnetic compass to provide stable and accurate yaw data and high-precision positioning. The UAV can easily be qualified for complex magnetic field environment application scenarios such as power line inspection and metal mineral inspection.

项目 Item	参数 Item
通信接口 Communication interface	DroneCAN/UART
通道 Channels	1408 通道，基于 NebulasIV Channel 1408, based on NebulasIV
星座 GNSS	BDS/GPS/GLONASS/Galileo/QZSS
主天线频点 Main ANT Fre. Band	BDS: B1I、B2I、B3I GPS: L1C/A、L2P (Y)/L2C、L5 GLONASS: G1、G2 Galileo: E1、E5a、E5b QZSS: L1、L2、L5
从天线频点 Slave ANT Fre.Band	BDS: B1I、B2I、B3I GPS: L1C/A、L2C GLONASS: G1、G2 Galileo: E1、E5b QZSS: L1、L2
定位精度 Positioning accuracy	Single Point: 1.5m (Horizontal) /2.5m (Vertical) RTK: 0.8cm+1PPM (Horizontal) /1.5cm+1PPM (Vertical)
定向精度 (RMS) Yaw Accuracy(RMS)	0.1 度 /1 m 基线 0.1 degrees /1 m baseline
速度精度 (RMS) Speed accuracy(RMS)	0.03 m/s
首次定位时间 Time to first fix	冷启动 < 30 s 热启动 < 4 s Cold start < 30 s Hot start < 4 s initialization time
初始化时间 Initialization time	< 5 s (典型值) < 5 s (typical value)



OneVLink CX6652

图数一体链路

OneVLink CX6652 Video Link

OneVLink CX6652 是一款点对多点图数一体链路，支持多种带宽分配 (1.4MHz/3MHz/5MHz/10MHz/20MHz)，扁平化系统架构设计，有效减少系统延时，提高系统传输能力，具备传输距离远、数据吞吐量大、抗干扰性强的特点。

OneVLink CX6652 is a point to multipoint video link, support for multiple bandwidth allocation (1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 20 MHz), flat system architecture design, effectively reduce system delay, improve system transmission capacity, with long transmission distance, large data throughput, strong anti-interference characteristics.



项目 Item

通信频率
Communication frequency

功率等级
Wireless power

无线特性
Wireless characteristics

工作带宽
Operating bandwidth

速率
Speed

加密
Encipher

自动重建链
Auto reconstruction chain

传输距离
Transmission distance

空口时延
Air delay

建网时间
Net construction time

工作电压
Operating voltage

工作温度
Operating temperature

散热
Heat dissipation

参数 SPEC

2400-2483.5 MHz
Communication frequency

2.4G 25dBm±2
Wireless power

动态调频
Frequency Hopping

1.4MHz/3MHz/5MHz/10MHz/20MHz

单节点最大 48Mbps
The maximum value of a single node is 48Mbps

支持用户配置层二加密开启关闭以及加密方式 (ZUC, SNOW3G, AES 三种加密方式可选)
Supports user configuration of Layer 2 encryption on/off and encryption mode (ZUC, SNOW3G, AES three encryption modes are optional)

支持链路失败后自动发起重新建链过程。
Supports automatic link re-establishment when a link fails.

-20Km
-20Km

从节点 - 中心节点传输延迟 <=200ms
Transmission delay from slave node to central node <=200ms

<30s
<30s

12-60V 输入
12-60V input

工作温度: -20°C ~ 75°C 存储温度: -40°C ~ 85°C
Operating temperature: -20°C to 75°C Storage temperature: -40°C to 85°C

主动散热 10000kv
Active heat dissipation 10000kv



OneDLink HP900/P900 数传

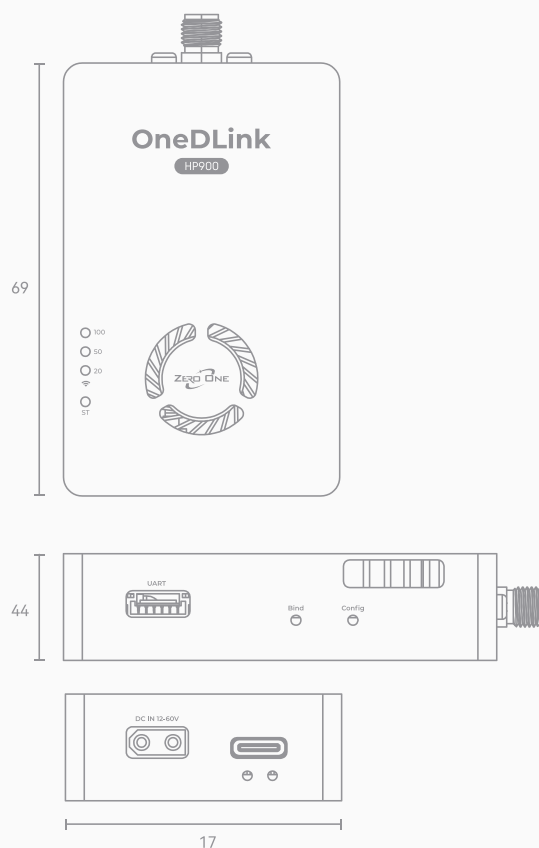
OneDLink HP900/P900 Telemetry

采用进口 HP900/P900 模块，拥有 40km 通信距离，在小巧的体积下，集成了一块高转速的散热风扇，让模块长时间作业的稳定性提供了保障，支持 12-60 宽电压输入，装机方便！HP900 版本拥有高达 500kbps 的空口速率，满足更大的带宽需求！

Imported HP900/P900 module, with 40km communication distance, in the compact size, integrated a high speed cooling fan, so that the module long-term operation stability to provide protection, support 12-60 wide voltage input, easy to install! The HP900 version has an air port rate of up to 500kbps for even greater bandwidth requirements!



项目 Item	参数 Item
通信频率 Communication frequency	902-928 MHz
传输协议 Transport protocol	跳频传输 Frequency Hopping
加密 Encipher	可定制 AES 加密 Optional (see -AES option)
通信距离 Communication distance	40km (参考值) 40km for Reference
输出功率 Output power	100mW - 1W (20-30dBm) 默认 1W 100mW - 1W (20-30dBm) Default
空口速率 Link rate	P900: 115 - 276 kbps HP900: 19.2kbps - 500kbps
电压输入 Voltage input	12-60V
散热方式 Heat dissipation mode	主动散热 10000KV Active heat dissipation



OneASP L10D 空速计

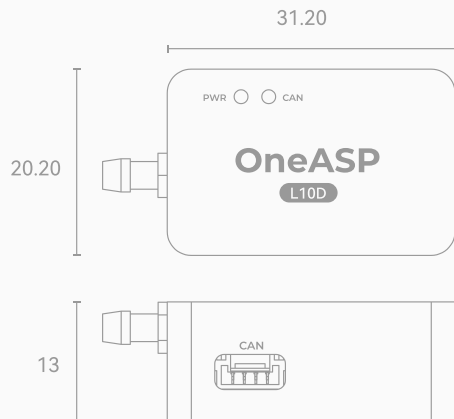
OneASP L10D Airspeed Meter

OneASP L10D 空速计，基于先进的 CoBeam2 技术，为无人机提供了一款高性能的空速计解决方案。OneASP L10D 支持 CAN 总线通信，抗干扰性能强，数据传输高效。最大测量空速 64.4m/s，满足从低速到高速的无人机的空速测量需求。此外，OneASP L10D 在宽温度范围内展现出卓越的温漂性能，保证了在极端气候条件下的测量稳定性和可靠性。采用航空铝外壳，耐用且精确度高，是无人机实现精确空速测量的理想选择。



OneASP L10D airspeed meter, based on advanced CoBeam2 technology, provides a high-performance airspeed meter solution for UAVs. OneASP L10D supports CAN bus communication, with strong anti-interference performance and efficient data transmission. The maximum measured airspeed is 64.4m/s, which meets the airspeed measurement needs of UAVs from low speed to high speed. In addition, OneASP L10D exhibits excellent temperature drift performance over a wide temperature range, ensuring measurement stability and reliability under extreme climate conditions. Made of aviation aluminum casing, it is durable and highly accurate, making it an ideal choice for drones to achieve precise airspeed measurements.

项目 Item	参数
通信协议 Interface protocol	DroneCAN
最大测量空速 Max air speed measurement	64.4m/s
总误差带 Total Error Band	±1.0% Span
跨度温度漂移 Span Temperature Shift	±0.2%FSS
长期稳定性 Long-Term Stability	±0.15%FSS/year
输出分辨率 Output Resolution	14bit
工作温度范围 Operating Temperature	-25° C~85° C
响应时间 Response Time	9.5ms

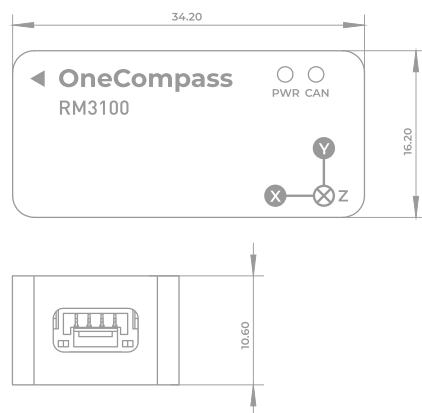




OneCompass RM3100 罗盘

OneCompass RM3100 是零一空天推出的工业级无人机磁罗盘，具有出色的信噪比、无漂移和精确的方向测量。体积细长小巧，可以非常方便的安装在任何地方，远离干扰源。

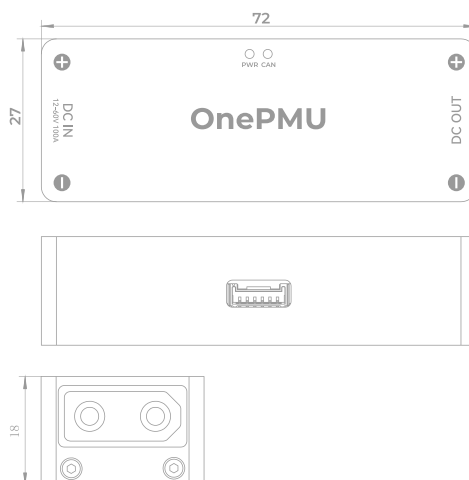
The OneCompass RM3100 is a industrial grade drone magnetic compass from ZeroOne, with excellent signal-to-noise ratio, no drift and accurate direction measurement. Slim and small, it can be easily installed anywhere, away from interference sources.



OnePMU 电源模块

OnePMU 电源模块，采用 DroneCAN 通信协议，支持 10-60V 输入，XT90 接头，最大 100A 电流检测，并支持自动校准，拥有 0.01V，0.02A 电压电流检测精度，多重滤波设计，电源波纹小，带温度控制，并支持防反接，防打火，过压保护功能。

OnePMU power module adopts DroneCAN communication protocol, supports 10-60V input, XT90 connector, maximum current detection of 100A, and supports automatic calibration. It has 0.01V, 0.02A voltage and current detection accuracy, multiple filtering design, small power ripple, and temperature control, and supports anti-reverse connection, anti-ignition, and overvoltage protection functions.



无人机解决方案

UAV Solutions

四旋翼无人机集群解决方案

Quadrotor drone swarm solution

方案采用四旋翼轴距 1m，配备 24 寸桨，起飞重量 12kg，空载续航 60min，搭载多节点链路，与定制化地面站，可以实现 50 架的无人机编队飞行。三角形，环形，矩形等自定义阵型

The scheme adopts a four-rotor wheelbase of 1m, equipped with 24-inch paddle, take-off weight of 12kg, no-load endurance of 60min, equipped with multi-node link, and customized ground station, can achieve 50 UAV formation flight. Support heart-shaped, triangular, circular, rectangular and other formations



垂直起降无人机车载移动起降

Vtol UAV mobile takeoff and landing on truck

采用翼展 2.6m 的垂直起降固定翼 + 移动信标 + RTK 厘米级定位模块，实现无人机在宽 2.4 米的移动货车的甲板上精准起飞 & 降落

Using a 2.6m wingspan VTOL fixed wing + mobile beacon + RTK Cm-class positioning module, the UAV can accurately take off and land on the deck of a 2.4m wide mobile truck



垂直起降无人机船舶移动起降

Vtol UAV mobile takeoff and landing on ship

采用翼展 2.4m 的垂直起降固定翼 + 移动信标 + RTK 厘米级定位模块，实现在 6m 的甲板上无人机的移动起降

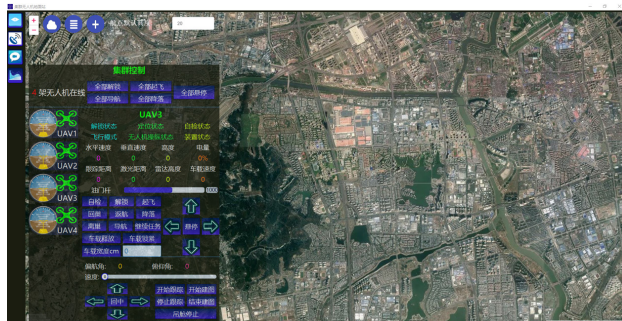
The VTOL fixed wing with wingspan of 2.4m + mobile beacon + RTK Cm-class positioning module is adopted to realize the mobile take-off and landing of the UAV on the 6m deck

地面站开发

QGC Dev

我们为客户提供无人机地面站定制，支持定制化的 UI 与 LOGO，添加编队功能，并支持匹配客户所指定的协议等

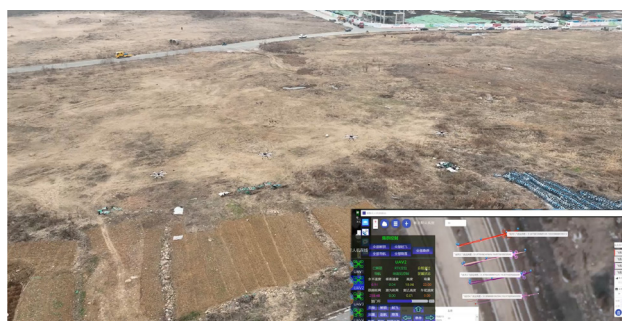
Provide customization of UAV Ground Control, support customized UI and LOGO, add formation and other functions, and support to match the protocol specified by customers



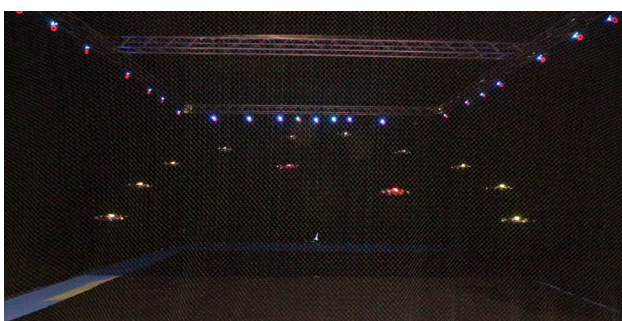
编队地面站 -1
Formation ground control-1



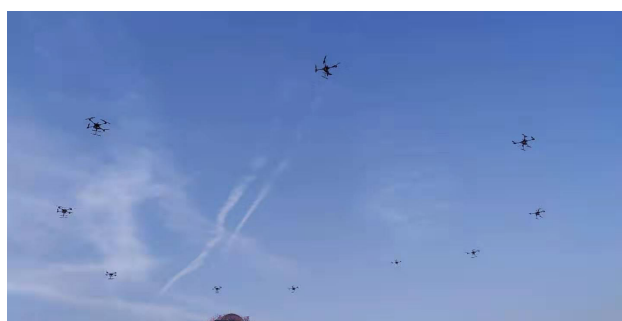
编队地面站 -2
Formation ground control-2



编队地面站 -3
Formation ground control-3



室内无人机编队
Indoor drone formation



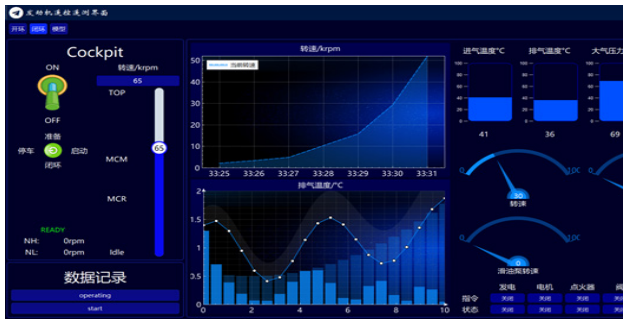
圆形编队效果 -3
Circular formation effect

地面站开发

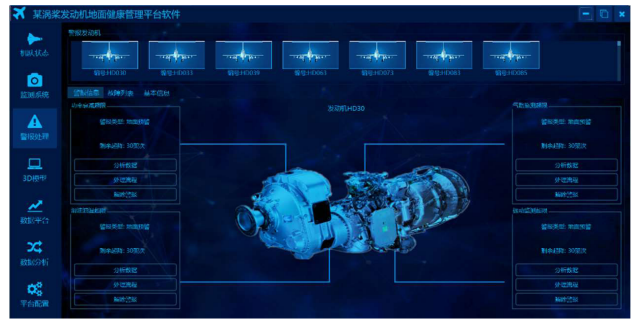
QGC Dev

我们为客户提供无人机地面站定制，支持定制化的 UI 与 LOGO，添加编队功能，并支持匹配客户所指定的协议等

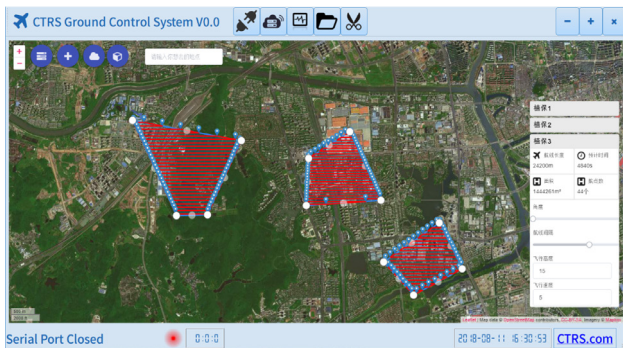
Provide customization of UAV Ground Control, support customized UI and LOGO, add formation and other functions, and support to match the protocol specified by customers



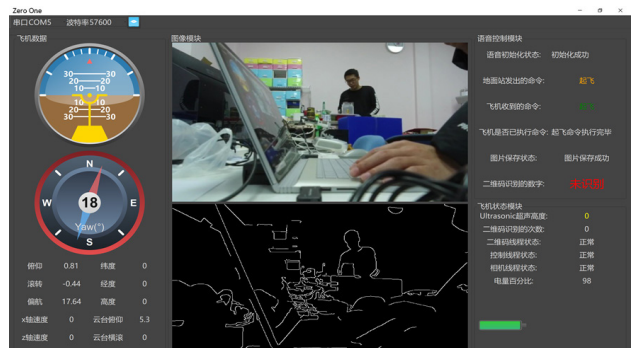
发动机数据遥测地面站
Engine data telemetry ground control



涡轮发动机地面健康管理平台
Turboprop engine ground health management platform



编队植保地面站
Formation agricultural ground control



视觉识别地面站
Visual identify ground control



客制化地面站 -1
Customized ground control 1



客制化地面站 -2
Customized ground control 2

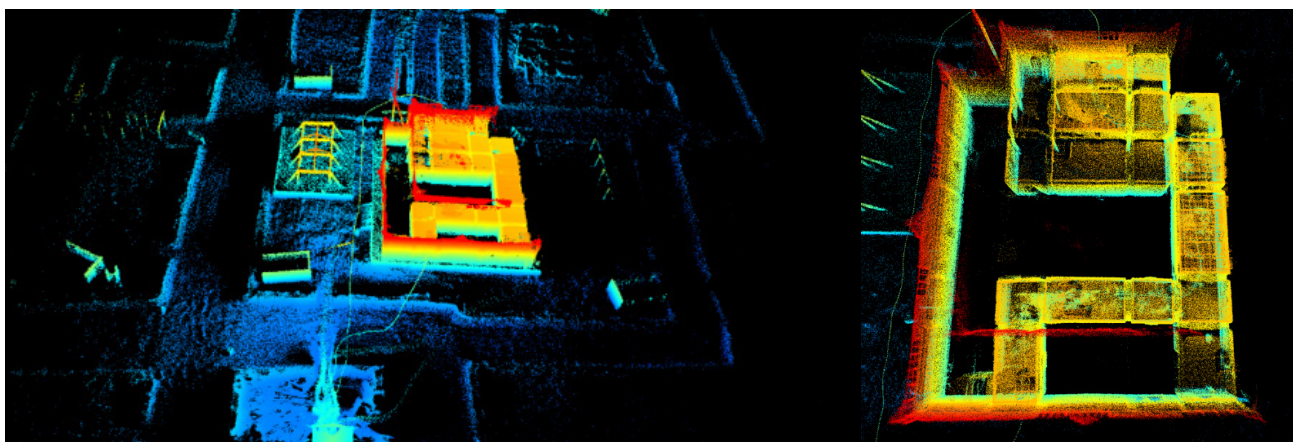
视觉建模导航 UAV Solutions

室内 SLAM 建模与自主飞行

Indoor SLAM modeling and autonomous flight

融合激光雷达、视觉相机和惯导数据的轻量级传感器系统（约 200g），在室内无 GPS 情况下，实现室内精准定位（0.5m）与自主飞行

A lightweight sensor system (about 200g) that combines LiDAR, visual camera and inertial data enables accurate indoor positioning (0.5m) and autonomous flight without GPS indoors



视觉识别跟踪

Visual Recognition Tracking

智能跟随

Intelligent following

可自动识别目标
定位动态人员目标
可选择待跟踪目标
实时回传目标位置

Automatic target identification
Locate dynamic people targets
Select the target to be tracked
Real-time return of target location



车辆识别跟踪 -1

Vehicle identification tracking -1



人物识别跟踪 -1

Character identification tracking -1



人物识别跟踪 -2

Character identification tracking -2

零一空天科技

ZeroOne AeroSpace

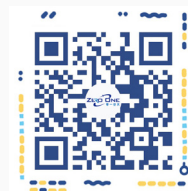
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