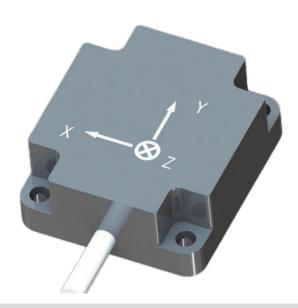
Inertial Measurement Unit



MU232



MU232 adopts the inertial measurement unit (IMU) of high precision gyroscope and accelerometer, and carries out the internal parameter compensation of the full temperature range. The angular velocity and linear acceleration of the output carrier can maintain a high measurement accuracy for a long time. Advanced MEMS process, structural sealing design and other measures to ensure the adaptability of the product in the harsh environment The product is suitable for measurement, navigation and control of aircraft, vehicle, robots, water vehicle, photoelectric pod and other carriers

Features

- Strong adaptability: silicon micro MEMS device, strong vibration and shock resistance.
- High device accuracy: very low noise gyroscope, zero bias stability 5° / h (10s smooth).
- Good user experience: support RS-422 interface, support output bandwidth, support output protocol, support online upload.
- Program / parameters.
- The maximum output frequency is 2000 Hz.

Specifications

Specifications					
	Measuring range: ± 500° / s (configurable to ± 2000)	Measurement range: ± 16		Operating voltage: 4.5 ~ 5.5V DC (typical value 5V)	Weight: not more than 15g
Gyroscope	Scaling factor repeatability: <100ppm	Scale factor nonlinearity: 0. 1%		Power consumption: 250 mW	Output frequency: 1~2000Hz
	Scale due to nonlinearity: <200ppm□	Zero-bias stability: 0.2 mg	Physical aracteristics	Communication interface: RS-422	Working vibration: 8g, RMS (20Hz-2 kHz)
	<200ppm□ Zero-bias stability (Allan variance): 1.5 ° / h □	Resolution: 0.2mg		Operating temperature: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$ (customizable- $55^{\circ}\text{C} \sim +85^{\circ}\text{C}$)	
	Zero-bias stability (10s smoothing): 5°/h	Measurement range: ± 16	ch	Dimensions: 22mm 20mm 8.7mm	
	Angular velocity random walk: <0.2 ° / hr			MTBF: 50000h	
	Bandwidth: 200Hz (customizable)			Impact limit: 2000g (charged)	

Inertial Measurement Unit



MU863B



The MU863B product is an inertial measurement unit (IMU) equipped with a built-in gyroscope and accelerometer. The full temperature range parameters of the electronic components used are compensated internally. The angular velocity and linear acceleration of the output carrier can maintain high measurement accuracy for a long time. Advanced MEMS process, structural sealing design and other measures are adopted to ensure the adaptability of the products in the harsh environment. The product is suitable for measurement, navigation and control of aircraft, vehicles, robots, water vehicles, photoelectric pods and other carriers. The product can replace the same performance products and low-precision fiber gyro products, providing customized services according to the needs of users.

Features

-Small volume,	low power	consumption;	
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- -High bandwidth, low latency; \Box
- -40°C to +80°C to full temperature calibration compensation;
- -Resistance to the harsh mechanical environment; □
- -With the software online upgrade function; \Box
- -The maximum output frequency is 2,000 Hz.

Specifications

Measuring range:
500/s, customizable

Zero partial stability:
≤ 0.5/h (Allan Curve, 1σ)

Zero partial stability:
≤ 2/h(10s smoothing,1σ)

The scale factor is nonlinearity:
≤ 100ppm

The angular velocity is a random walk: $\leq 0.125^{\circ}/\sqrt{hr}$

Tape width:

250 H z(customizable)

Noise: 0.125/s

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433m, 900M, 2.4G,
5.2G, 5.8G, 1.4G
Working Temperature :
-40 to +70°C
Working Time: 7*24H
Power supply: AC 110V-240V
AC 110 V-240 V
Dimensions:

410mm×330mm×190mm

Support Frequencies:

	4.5 ~ 5.5V DC(Typical value 5V)	≤ 2s
	Power dissipation: ≤2 W	Vibrate: 12g, RMS
ics	Storage + 85 temperature: -55 ~+ 85°C	MTBF: 50000h
r nysicai characteristics	Working temperature: $-40 \sim +60$ °C	Lash: Charged2,000g
chara	Refresh rate: ≤ 2000Hz	CI: RS-422

Source:

weight:

 $44.8 \text{mm} \times 38.6 \text{mm} \times 16.5 \text{mm}$ Not more than 50 g

Start time:

Broadband Ad hoc Network Onboard Module





The airborne self-organizing network radio is mounted on the launch platform and achieves long-distance communication across regions through aerial multi-point relay and dynamic cluster networking. it can be mounted on various heterogeneous launch platforms, with low network latency and large scale, up to 256 nodes.

Suitable for various scenarios such as swarm operations, forest fire prevention, reconnaissance and search, and power inspections.

Features

- With high bandwidth,
- low power consumption,
- -small size,
- -light weight,
- -rich interfaces

Specifications

Networking mode:

Point to point, point to multipoint, star network, chain network, mesh network

Network size:

≥64

Power on and network connection time: ≤30s

Multi hop capability:

Single hop delay:

 ≤ 3 ms

Encryption:

AES128

Receiver sensitivity:

≤-97dBm @1Mbps@5MHz; ≤-93dBm @7Mbps@10MHz

Working bandwidth:

5MHz, 10MHz, 20MHz, customizable

Working frequency band:

200MHz-1800MHz, customizable

User rate:

RF

maximum speed ≥ 80 Mbps

Output power:

2×1W(Average power)

Overall machine:

Maximum power consumption of 16W, average power consumption of 7W

Power supply: 12~30V

Data interface:
100Mbps Ethernet
Main antenna interface:

[ilot lamp:

Signal strength indicator

light

SMA

Protective class:

IP67

Operation temperature:

-40°C~+55°C

Storage temperature:

-55°C**~**+70°C

Volume: 110×58×15mm

Weight: 134g

Broadband Ad hoc Network OEM Module





Small in size and light in weight, it is easy to integrate into various systems and is suitable for being equipped on drones, unmanned ships, robots, or other unmanned equipment.

Featuring fast deployment, high compatibility, lightweight and compact design, low power consumption, and high bandwidth.

Rich interfaces, flexible networking, and ready to use upon startup, it can provide IP transparent transmission channels for upper level applications such as video, voice, and data.

Specifications

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Point to point, point to multipoint, star network, chain network, mesh network

Network size:

>64

Power on and network connection time:

≤30s

Multi hop capability:

≥63

Single hop delay:

≤3ms

Encryption:

AES128

Working frequency band:

200MHz-1800MHz, customizable

Working bandwidth:

5MHz, 10MHz, 20MHz, customizable

User rate:

maximum speed ≥ 80 Mbps

Receiver sensitivity:

 \leq -95dBm @1Mbps@5MHz; ≤-93dBm @7Mbps@10MHz

Output power:

 $2 \times 0.5 W$, $2 \times 1 W$, $2 \times 2 W$ (customizable), Double sending and double receiving

Overall machine:

Maximum power consumption of 30W, average power consumption of 6W (

2x2W)

Operation:

Supports voice intercom, video image and IP data

transmission

Power supply:

10~30V DC power supply

Audio and video data:

2×100Mbps Ethernet

Main antenna interface:

 $2 \times SMA$

Pilot lamp: Signal strength

indicator light

Volume:

Weight:

≤65g

IP67

70×36×17.5mmm

 $m (2 \times 2W \text{ size})$

Protective class:

Handheld Ad Hoc Network Individual Terminal





Individual handheld self-organizing network radios are an ideal choice for achieving rapid communication between individuals and teams in complex and harsh environments.

No need to rely on communication base stations, network access in 3 seconds, reorganization in 5 seconds, quickly build a broadband distributed network, and achieve real-time interaction of voice, data, video and other information.

Far superior to communication methods such as intercom, cluster, and mobile phones, it is suitable for various scenarios such as cities, jungles, deserts, islands, potholes, and mountainous areas.

Specifications

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Point to point, point to multipoint, star network, chain network, mesh network

Network ize:

>64

Power on and network connection time:

≤30s

Multi hop capability:

≥63

Single hop delay:

 $\leq 3 \text{ms}$

Encry ption:

AES128

Working frequency band:

200MHz-1800MHz, customizable

Working bandwidth:

5MHz, 10MHz, 20MHz, customizable

maximum speed ≥ 80 Mbps

Receiver sensitivity:

≤-95dBm @1Mbps@5MHz ; ≤-93dBm @7Mbps@10MHz

Output power:

 2×0.5 W,Double sending and double receiving

Overall machine:

Maximum power consumption of 13W, average power consumption of 5W (2x2W)

Battery life:

Working hours≥6h, standby time≥12h

characteristics Power supply:

9~30V

Audio and video data:

100Mbps Ethernet port, HDMI video interface, 3.5 audio interface

Main antenna interface:

TNC interface, omnidirectional antenna

WIFI antenna:

SMA

Storagea temperature:

-40°C \sim +55°C

pilot lamp:

Signal strength indicator light, battery level display light

Positioning antenna

interface: **SMA**

Volume:

 $148 \times 75 \times 30$ mm

Weight: ≤500g

Operation temperature: -55°C∼+70°C

Protective class:

IP67

Flight Control Module





The power supply is equipped with EMI filtering, surge resistance, and supports 50ms power outage maintenance capability, interface isolation design, integrated inertial navigation, digital barometer, GPS positioning and orientation.

Specifications

Steady-state voltage:

DC12V~36V

Overall Power Consumption:

≯15W

CPU main frequency:

866.6MHz

RAM:

512MB@DDR3

FLASH:

32MB@QSPI

Electrical

F-RAM:

2Mbit

Data Storage:

16GB@eMMC

Inertial navigation:

Three axis gyroscope, three-axis accelerometer, three-axis magnetic compass

Static pressure sensor:

115kPa

Dynamic pressure transducer:

-25∼+25kPa

Isolation CAN:

2-way

Analog input:

4-way ± 10 VDC

Isolation RS232:

4-way

IsolationRS422/RS485:15-way(RS422*13-way;

RS422/RS485*2;-way, Software

configurable)

Discrete magnitude input:

4-wayPower/ON

orGND/ON(Hardware configurable)

Discrete magnitude output:

8-wayPower/ON

orGND/ON(Hardware configurable)

Positioning and directional function:

Support GPS, GLONASS, Galileo

SeiDou

Ethernet:

1-way10/100Mself-adaption

Color:

silver gray

Weight:

662g

Maximum external

dimensions:

≯150×110×60mm Operation temperature:

 $-40^{\circ}\text{C}{\sim}+55^{\circ}\text{C}$

Storage temperature: -55°C~65°C

Physical characteristics

Power Management Unit

500W/1000w/3000w





| Specifications

- -Remote Power Generation
- -Power Regulation from Alternative sources, ex. wind or solar
- -Unmanned Air Vehicles (UAV's) and Unmanned Ground

Specifications

	500w	1000w	3000w
power supply	3 Phase AC primary input, 25 - 95 VACrms	3 Phase AC primary input, 25 - 95 VACrms	3 Phase AC primary input, 25 - 95 VACrms
peak power	Operates up to 93%	Operates up to 91%	Operates up to 93%
Integrated start control	compatible with inductive and non inductive drive, with good start performance		