ZKMANET2421UM 320mw 15km Drone RJ45 Data Link Video Transmitter

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKMANET2421UM
- Minimum Order Quantity: 1 unit
- Price: USD 1999~4999
- Packaging Details: Brown Carton
- Delivery Time: 10 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per year

Product Specification

- Frequency: 806~826MHz 1428~1448MHz 2401~2481MH
- RF Bandwidth: 1.4MHz/3MHz/5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Output Power: 25dBm±2
- Data Rate: 30Mbps
- Modulation: BPSK, 16QAM And 64QAM (TDD-OFDM)
- Networking Mode: One-to-one And One-to-many (one To Sixteen Max)
- Serial Port: 1x UART Port (TTL232)
- Application: Drone UAV Long Distance Data Link
- Highlight: **Video Transmitter IP Mesh Radio**, **15km Drone Data Link**, **Mimo Drone Data Link**

More Images

Product Description

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Product Description

ZKManet2421UM is a compact and portable airborne device with HD and stable image quality. It adopts the current leading OFDM modulation technology, allowing for capturing high-quality images in high-speed motion and real-time transmission over

Our Pro

non-line-of-sight (NLOS) conditions. During transmission, encryption is applied to the images and data, supporting frequency hopping at 800MHz, 1.4GHz, and 2.4GHz, with a data rate of 30Mbps and a range of 5-15KM for air-to-ground transmission. It is well-suited for long-term and high-data-flow wireless transmission applications.

Features

* Range up to 5~15km(LOS)
* Supports 3 bands (800MHz/1.4GHz/2.4GHz)
* Supports FHSS
* IP transparent data transmission
* Compact size and light weight
* Rugged aluminum alloy housing
* Low power consumption

Compact Size
The transmitter is compact and lightweight, with a total weight of 124g, effectively reducing the drone's payload and enhancing its wind resistance in the air.

High Reliability
The system employs advanced Orthogonal Frequency Division Multiplexing (OFDM) modulation technology, which has strong anti-interference capabilities. It also uses AES encryption technology to effectively prevent interference and eavesdropping.

Strong Usability
Quick deployment without configuration is possible, and the system operates stably and reliably with simple maintenance.

Long Transmission Distance
Utilizing the drone's flight altitude and servo antenna tracking directional antenna technology, the transmission distance can be guaranteed at 15, 30, or longer kilometers, while the system also possesses strong diffraction and penetration capabilities.

Clear Image Transmission
The system uses H.264/MPEG-2/4 compression methods, allowing transmitted video to achieve 1080P quality, clearly presenting images captured by the drone to the user.

Specifications

Model	ZKMANET2421UM	Brand	ZKMANET
RF Parameters	Frequency	800MHz/1.4GHz /2.4GHz	
	Bandwidth	1.4MHz/3MHz/5MHz/10MHz/20MHz	
	RF Channel	1T2R	
	Output Power	25dBm	
	Range	5-15km (LOS)	
Network Parameters	Network Mode	One-to-one and one-to-many	
	Data Rate	30Mbps(Max)	
	Encryption	ZUC/SNOW3G/AES Optional	
	Conflict Handling	frequency adjustment or bandwidth reduction	
Physical/Environment	Dimensions	102*52*21.5mm	
	Weight	124g	
	Working Temp	-40ºC~+65ºC	
Electronic Parameters	Power Supply	DC12V	
	Power Consumption	<37dBm	
Other	Data Interface	RJ45*2,TTL*1	

Panel Description

1. Power Cables - power supply input line, red is VDD, black is
2. Data UART Port (GND, Rx, Tx) - 3.3V TTL
3. Link Status Indicator - When the device works as an access connection with the central node is normal, the indicator will on. When the device works as a central node, this indicator is
4. Micro USB Port - For device software maintenance.
5. Indicator (Red) for Power - Always on during normal operatio
6. Indicator for Ethernet Port 2 - Flashes according to the data works normally.
7. Ethernet Port 2 (RN, RP, TN, TP) - Ethernet port 1 and 2 are bridged.
8. Indicator for Ethernet Port 1 - Flashes according to the data works normally.
9. Ethernet Port 1 (RP, RN, TP, TN) - Ethernet port 1 and 2 are bridged.

Long Range 15km Light Weight Uav IP Radio Video Data Link Transmitter

1. Product Label
2. Air Inlet - for the cooling fan
3. ANT2 Port - Auxiliary antenna, works as auxiliary receiving, NO transmitting.
4. ANT1 Port - Main antenna, work mode is TDD transmitting/receiving.

Long Range 15km Light Weight Uav IP Radio Video Data Link

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd is a high-tech R&D enterprise. Our products mainly use Mesh,COFDM and LTE as core technologies and auxiliary decision-making software to form underground building emergency communication systems, and police investigation communication systems, and police noncombat training communication systems, urban emergency communication systems, emergency communication vehicle communication systems, etc. The products are widely used in law enforcement agencies and government departments such as public security, armed police, , forest fire prevention, civil air defense, and maritime affairs.

Long Range 15km Light Weight Uav IP Radio Video Data Link Transmitter

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FAQ

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ZKMANET **Zhongke Lianxun (Shenzhen) Technology Co., Ltd**

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