800MHz Mini Drone Data Link IP MESH Video Transmitter Radiolink For Drone UAV

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKMANET2421UM
- Minimum Order Quantity: 1 piece
- Price: USD999/PC
- Packaging Details: carton
- Delivery Time: 40dBmork days
- Payment Terms: T/T, Western Union, MoneyGram, L/C, D/A, D/P
- Supply Ability: 1000 pieces per year

Product Specification

- Working Frequency: 800MHz, 1.4GHz, 2.4GHz
- Working Bandwidth: 1.4MHz/3MHz/5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Transmit Power: 25dBm
- Coverage Distance: 5-15KM
- Dimension: 102*52*21.5mm
- Weight: 124g
- Working Temperature: -40ºC~+65ºC
- Power Supply: DC12V
- Power Consumption: <37dBm
- Application: Drone UAV
- Highlight: **IP MESH Video Transmitter Radiolink**, **IP MESH Drone Data Link**, **800MHz Mini Drone Data Link**

More Images

Our Product Introduction

for more products please visit us on zkmanet.com

Product Description

800MHz Mini Drone Data Link IP MESH Video Transmitter Radiolink for Drone UAV

Product Description

ZKManet2421UM is a compact and portable unmanned carrier device with high definition and stable image quality developed by our company. Adopting the current leading OFDM modulation technology, it can realize shooting and real-time transmission of high-quality images in non-line-of-sight (non-visual), high-speed movement, encrypting images and data during transmission, and supporting frequency hopping at 800MHz, 1.4GHz, 2.4GHz, transmission rate of 30Mbps and 5-15KM air-to-ground transmission, which is very suitable for long-time and high-dataflow wireless transmission applications.

Features

1. IP data transparent transmission;
2. Support webcam access;
3. Long transmission distance, line-of-sight 5-15km;
4. Supports transmission at 800MHz, 1.4GHz, 2.4GHz frequency hopping;
5. Small and portable design, aluminum alloy with good thermal conductivity, impact resistant;
6. Supports unicast, multicast, and broadcast propagation methods, and any node can communicate with each other using these three methods.

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.

Product Parameters

Item No.	**ZKMANET2421UM**	**BRAND**	**ZKMANET**
RF Parameters	**Working Frequency**	800MHz, 1.4GHz, 2.4GHz	
	Working Bandwidth	1.4MHz/3MHz/5MHz/10MHz/20MHz	
	RF Channel	1T2R	
	Transmit Power	25dBm	
	Coverage Distance	5-15KM	
Network Parameters	**Networking Methods**	Point to point, point to multi-point	
	Throughout Rate	30Mbps(Max)	
	Encryption	ZUC,SNOW3G,AES 3 encryption methods available	
	Conflict Management	When two or more self-organized networks interfere with each other, automatic frequency tuning or bandwidth reduction is performed.	
Physicals/Environments	**Dimension**	102*52*21.5mm	
	Weight	124g	
	Working Temperature	-40ºC~+65ºC	
Electrical Characteristics	**Power Supply**	DC12V	
	Power Consumption	<37dBm	
Other	**Data Interfaces**	RJ45*2,TTL*1	

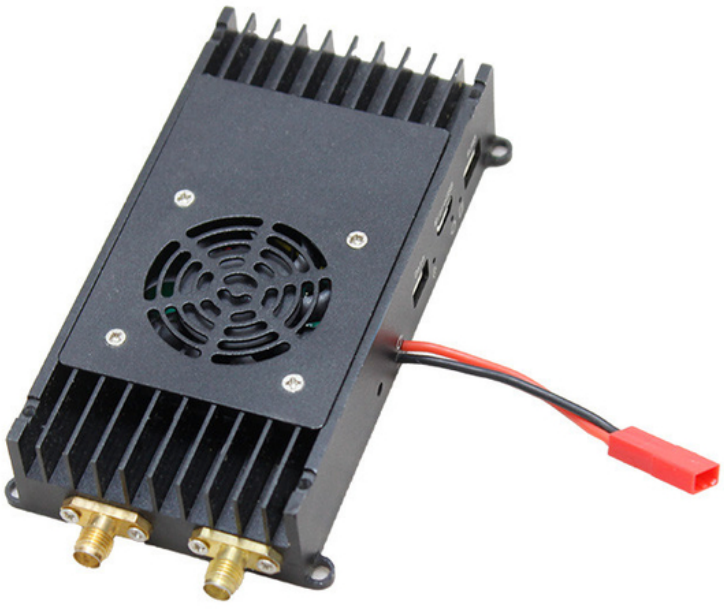
Detailed Photos

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

15km Coverage Distance Drone Airborne Vehicles Wireless Video Receiver Transmiiter

- 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.

15km Coverage Distance Drone Airborne Vehicles Wireless Vide



Application

Data Link Module for Drone

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd was founded in 2005, we are a national high-tech enterprise registered in Shenzhen. Our headquartered in Shenzhen and we have 5 development and service agencies in Beijing,Shanghai, Nanning, Xinjiang and Sichuan. Our products mainly invloved MESH and LTE as core technologies to form underground building emergency communication systems,widely used in ,public security, armed police, , forest fire prevention, civil air defense, and maritime. Especially the intelligent communication products of special robots have solved the long-distance communication and control problems of robots in complex environments.

Our vision: To create perfect wireless transmission services so that humans can be more calm in the face of disasters and emergencies because of our products.

FAQ

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