

## Compact Size 124g Long Range 15km 30Mbps Data Rate UAV Drone Video Data Transmission Radio

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2421UM
- Minimum Order Quantity: 1
- Price: USD 999~1699
- Packaging Details: Brown Carton
- Delivery Time: 5~8 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 10000 pieces per year




### Product Specification

- Frequency: 800MHz/1.4GHz /2.4GHz
- Bandwidth: 1.4MHz/3MHz/5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Output Power: 25dBm
- Range: 5-15km (LOS)
- Data Rate: 30Mbps
- Dimensions: 102\*52\*21.5mm
- Weight: 124g




### More Images






### Product Description

#### Compact Size 124g Long Range 15km 30Mbps Data Rate UAV Drone Video Data Transmission Radio

##### Product Description

ZKManet2421UM is a compact and portable airborne device with HD and stable image quality. It adopts the current leading

Our Product

OFDM modulation technology, allowing for capturing high-quality images in high-speed motion and real-time transmission over 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 transmission 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

#### Specifications

<b>Model</b>	ZKManet2421UM	<b>Brand</b>	ZKMANET
<b>RF Parameters</b>	<b>Frequency</b>	800MHz/1.4GHz /2.4GHz	
	<b>Bandwidth</b>	1.4MHz/3MHz/5MHz/10MHz/20MHz	
	<b>RF Channel</b>	1T2R	
	<b>Output Power</b>	25dBm	
	<b>Range</b>	5-15km (LOS)	
<b>Network Parameters</b>	<b>Network Mode</b>	One-to-one and one-to-many	
	<b>Data Rate</b>	30Mbps(Max)	
	<b>Encryption</b>	ZUC/SNOW3G/AES Optional	
	<b>Conflict Handling</b>	frequency adjustment or bandwidth reduction	
<b>Physical/Environment</b>	<b>Dimensions</b>	102*52*21.5mm	
	<b>Weight</b>	124g	
	<b>Working Temp</b>	-40°C~+65°C	
<b>Electronic Parameters</b>	<b>Power Supply</b>	DC12V	
	<b>Power Consumption</b>	<37dBm	
<b>Other</b>	<b>Data Interface</b>	RJ45*2,TTL*1	

#### Panel Description

##### 23dBm 15km Uav Video Data Transmission 30Mbps Drone Radio

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, the indicator will be 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 transmission status.
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 transmission status.
9. Ethernet Port 1 (RP, RN, TP, TN) - Ethernet port 1 and 2 are bridged.

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.

#### Application

23dBm 15km Uav Video Data Transmission 30Mbps Drone Radio

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#### Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd. was established in 2005, focusing on the research and development of products for drone defense/control, wireless video transmission, and network security encryption/decryption. We leverage the technical expertise of renowned university network security institutes.

Adhering to the principles of "unity and dedication, technological innovation, and service innovation," we serve users both domestically and internationally. We uphold the tenet of "quality first, reputation first" to provide high-quality, efficient, and customized services to our clients worldwide. The company is committed to promoting an innovative spirit of "exploration and progress."

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FAQ

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