25dBm Airborne Radio Small 3 Bands FHSS IP UAV Video Data Link Radio with 30Mbps Data Rate

Basic Information

• Place of Origin: Guangdong, China • Brand Name: ZKManet CE, ISO9001 Certification: • Model Number: ZKManet-2421UM

• Minimum Order Quantity: 1 unit

USD 1999~4999 Price: Packaging Details: Brown Carton • Delivery Time: 4 working weeks • Payment Terms: T/T, Western Union 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 30Mbps Data Rate:

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) • Highlight: Airborne Radio 800MHz 1.4GHz,

data link radio communication, Data Link Radio



ZVANANET

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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

Our Product Introduction

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 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.

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/Environ ment	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 r 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
- Long Range 15km Light Weight Uav IP Radio Video Data Link Transmitter 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.

- Product Label
- 2. Air Inlet for the cooling fan
- 3. ANT2 Port Auxiliary antenna, works as auxiliary receiving, NO transmitting.

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

4. ANT1 Port - Main antenna, work mode is TDD transmitting/receiving.

Application

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

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd. was established in 2005. We focus on the research and development of products for drone defense/control, wireless video transmission, and network security encryption/decryption. With excellent quality and advanced technology, we provide comprehensive network communication solutions to our customers.

We hold several patents with independent intellectual property rights and have developed a robust quality management system that adheres to ISO9001 standards, as well as national standards. Our production processes strictly follow these national guidelines and internationally recognized standards, including CCC, CE, and FCC. Additionally, we have received the Radio Transmission Equipment Model Approval Certificate from the Ministry of Industry and Information Technology of China and have successfully completed wireless product testing certification by the Ministry of Public Security

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FAQ

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ZIMINET Zhongke Lianxun (Shenzhen) Technology Co., Ltd

+86 13266718951

Info@chinamanet.com

zkmanet.com

203-B161, Block B, Garden City Digital Building, No.1079 Nanhai Avenue, Yanshan Community, Merchants Street, Nanshan District, Shenzhen, China