

15km 1T2R Triple Band 800MHz/1.4GHz/2.4GHz FHSS IP UAV Video Data Link Radio Communication

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKManet
- Certification: CE, ISO9001
- Model Number: ZKManet-2421UM
- Minimum Order Quantity: 1 unit
- Price: USD 1999~4999
- Packaging Details: Brown Carton
- Delivery Time: 4 working weeks
- Payment Terms: T/T, Western Union
- Supply Ability: 10000 pieces per year

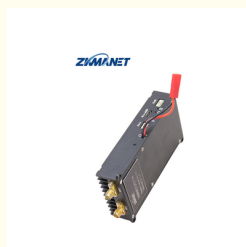


Product Specification

- Frequency: 806~826MHz 1428~1448MHz 2401~2481MHz
- 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)



More Images



Product Description

15km 1T2R Triple Band 800MHz/1.4GHz/2.4GHz FHSS IP UAV Video Data Link Radio Communication

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 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

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	-40°C~+65°C	
Electronic Parameters	Power Supply	DC12V	
	Power Consumption	<37dBm	
Other	Data Interface	RJ45*2,TTL*1	

Panel Description

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.

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 point connection with the central node is normal, 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 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.

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Application

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Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd is a high-tech R&D enterprise. Our products mainly use Mesh 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., suitable for law enforcement forces and government departments such as 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.

We have multiple patents with independent intellectual property rights, has established a sound quality system and national standard system that comply with ISO9001 standards, and strictly produces products in accordance with national standards and internationally recognized standards such as CCC, CE, FCC, etc. It has obtained the Radio Transmission Equipment Model Approval Certificate issued by the Ministry of Industry and Information Technology of China and has passed the wireless product testing certification of the Ministry of Public Security.

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FAQ

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