

800MHz/1.4GHz/2.4GHz FHSS Long Range 15km 30Mbps UAV Drone Video Data Transmission Radio

Our Product Introduction

for more products please visit us on zkmanet.com

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

800MHz/1.4GHz/2.4GHz FHSS Long Range 15km 30Mbps 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

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

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

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

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.

Guided by the principles of "unity and commitment, technological advancement, and service innovation," we cater to users both at home and abroad. We prioritize the motto of "quality first, reputation foremost" in delivering high-quality, efficient, and tailored services to our global clientele. The company is dedicated to fostering an innovative culture centered on "exploration and progress."

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