

1.4GHz Frequency Customizable Long Range 49km IP MESH UAV Drone Video Data Transceiver

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2451UM
- Minimum Order Quantity: 1
- 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: 1.4GHz (300MHz-3.8GHz Customizable)
- Bandwidth: 5/10/20/40MHz
- RF Channel: 2T2R
- Output Power: 4W
- Network Capacity: 8 Nodes Customizable
- Data Rate: 82Mbps
- Encryption: AES
- Range: 40-49 Km (LOS)
- Highlight: 1.4GHz long range drone transceiver, customizable UAV data link, IP MESH drone video transmitter




More Images






Product Description

1.4GHz Frequency Customizable Long Range 49km IP MESH UAV Drone Video Data Transceiver

Product Description

The ZKManet2451UM is a durable MANET mesh transceiver specifically engineered for transmitting video data from UAVs.

Our Product

With a robust power output of 4 watt, it is well-suited for various mesh applications, including public security, armed police operations, fire control, and use. Its multi-hop capability significantly extends transmission range, with each hop covering distances of 15-30 km in a line-of-sight scenario. Capable of achieving data rates of up to 82 Mbps, it can seamlessly transmit video, data, and audio simultaneously. Additionally, AES encryption safeguards the security of the transmitted data.

Features

- * Data rate up to 82Mbps
- * Range up to 40~49km
- * Full transparent IP data transmission
- * With HDMI input
- * Supports 8 nodes customizable
- * Small size and light weight

Specifications

Model	ZKManet2451UM	Brand	ZKMANET
RF Parameters	Frequency	1400-1460MHz (300MHz-3.8GHz Customizable)	
	Bandwidth	5/10/20/40MHz	
	RF Channel	2T2R	
	Output Power	4W	
Network Parameters	Network Size	8 nodes customizable	
	Data Rate	82Mbps	
	Encryption	AES	
	Range	40-49 km (LOS)	
Physical/ Environment	Dimensions	113*84*38mm	
	Weight	450g	
	Working Temp	-40°C~+65°C	
	IP Rating	IP54	
Electronic Parameters	Power Supply	DC12-24V	
	Power Consumption	<12W	
Other	HDMI Interface	Support	
	LAN Port	Support	
	TTL Port	Support	

Dimensions

4W 82Mbps Long Range 40~Long Distance Uav Video Data Link Radio Transmitter

Panel Description

1. MESH antenna interface, SMA F
2. HDMI input interface
3. MESH antenna interface, SMA F
4. LAN/TTL interface (J30J-15TJ connector, PIN 1, 2, 3 and 4, PIN 5, 6 and 7 for TTL GND, TX and RX)
5. Power input interface

Application

4W 82Mbps Long Range 40~Long Distance Uav Video Data Link Radio Transmitter 4W 82Mbps Long Range 40~Long Distance Uav Video Data Link Radio Transmitter

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.

Our chief scientist team, led by professors from the Network Security Institute of Wuhan University, has achieved remarkable results in the development of man-in-the-middle platforms for network security. The company currently offers platforms such as a drone denial system platform, long-distance wireless video transmission platform for drones, network encrypted data analysis platform, IPSEC man-in-the-middle platform, and SSH man-in-the-middle analysis platform.

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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ZKMANET Zhongke Lianxun (Shenzhen) Technology Co., Ltd



+8613316826915



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