# 2x2W 56Mbps Long Range Drone Data Link Wireless Video Transmitter And Receiver

Our Product Introduction

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## Basic Information

- Place of Origin:              Guangdong, China
- Brand Name:                ZKMANET
- Certification:                 CE, ISO9001
- Model Number:             ZKManet3451
- Minimum Order Quantity:   1 piece
- Price:                        USD 3999~4999 per piece
- Packaging Details:          carton
- Delivery Time:               3-7 work days
- Payment Terms:             T/T, Western Union, MoneyGram
- Supply Ability:              10000 pieces per year

## Product Specification

- Frequency:                  1300-1500MHz (70MHz-6GHz Customizable)
- RF Bandwidth:              1.4MHz/3MHz/5MHz/10MHz/20MHz
- RF Channel:                TDD-COFDM (2T2R)
- Data Rate:                  2x2W
- Coverage Distance:         Long Range Customizable
- Throughput:                 56Mbps
- Encryption:                 AES256
- Movement Speed:           >1000km/h
- Highlight:                   **2.4GHz wireless video transmitter and receiver**, **data link drone**, **drone data link**

## More Images

## Product Description

**2x2W 56Mbps Long Range Drone Data Link Wireless Video Transmitter And Receiver**

Product Description

The ZKManet3451 is an airborne Mesh radio that utilizes an FPGA solution. It supports adaptive frequency hopping and

selection, automatically choosing the optimal frequency in the presence of electromagnetic interference. This enables broadband network self-organization and transmission in complex scenarios. It can be used in various communication combinations for different usage scenarios, such as on moving UAVs or USVs, allowing for easy plug-and-play operation without the need for configuration or parameter changes. It is primarily used for multimedia interconnection between drones and base stations, as well as serving as a Mesh relay node.

## Features

* Data rate up to 56Mbps
* Full transparent IP data transmission
* With HDMI input
* Long range customizable
* Supports GPS/BD
* Supports up to 8 nodes customizable
* With TTL and LAN interface

## Specifications

| RF Parameters | |
|---|---|
| Default Frequencies | 1300-1500MHz (70MHz-6GHz customizable) |
| Channel Bandwidth | 2.5M/5M/10M/20MHz (40MHz optional) |
| RF Waveform | TDD-COFDM (2T2R) |
| Output Power | 2x2W, 1dBm step adjustable |
| Receive Sensitivity | -100dBm@2.5MHz |
| Modulation Type | BPSK/QPSK/16QAM/64QAM (adaptive) |
| FHSS | Optional (>1000 hop/s) |
| IFS | Optional |
| **Network Parameters** | |
| Network Size | 8 nodes customizable |
| Multi-hop Capability | 15 hops (short message); 10 hops (voice); 8 hops (video) |
| Range | Long range customizable |
| Data rate | Up to 28Mbps@10MHz & 56Mbps@20MHz |
| Delay | 7ms@2.5MHz/hop |
| Movement Speed | >1000km/h |
| Start Time | 27s |
| Positioning | GPS/BD/GLONASS (GNSS) |
| Network Access Time | <1s |
| Network Extension | WIFI AP |
| **Electrical Parameters** | |
| Working Voltage | 12-36V DC |
| Power Consumption | ≤237dBm |
| **Physical/Environment** | |
| Weight | 475g |
| Dimensions | 120*90*40mm |
| Working Temp. | -40°C~70°C |
| **Interface** | |
| LAN Interface | *1 |
| Serial Interface | RS232*1 (Or TTL) |
| Video Interface | Mini HDMI*1 |

## Panel Description

1. MESH antenna interface-2, SMA F
2. WIFI/LoRa antenna interface, SMA F
3. HDMI input interface, Mini HDMI
4. GPS antenna interface, SMA F
5. MESH antenna interface-1, SMA F
6. Mounting hole x4
7. LAN/TTL interface
8. Power input interface (XT60)
9. Signal Indicator

70km Frequency Hopping Uav Drone Accessory Video Data Link  Radio

| SNR | Link Quality | Topology Color |
|---|---|---|
| SNR ≥ 17 | Excellent | Deep Green |
| 12 ≤ SNR < 17 | Good | Light Green |
| 7 ≤ SNR <12 | Fine | Yellow |
| 2 ≤ SNR <7 | Medium | Orange |
| -10 < SNR <2 | Bad | Red |
| SNR = -10 | Disconnected | N/A |

## Application

70km Frequency Hopping Uav Drone Accessory Video Data Link  Radio        70km Frequency Hopping Uav Drone Accessory Video Data Li

## 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.

We provide design and development services for internet big data collection and analysis products and application solutions to large enterprises and institutions with confidentiality needs. Additionally, we offer sales of network security equipment and information security technical services. Our products are widely used by law enforcement forces and government departments such as public security, armed police, , forest fire prevention, civil air defense, and maritime affairs.

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## FAQ

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