

FPGA High Power 43dBm Long Range Customizable UAV Drone IP MESH Video Data Radio Transceiver

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3371
- Minimum Order Quantity: 1 piece
- Price: USD 3999 per piece
- Packaging Details: carton
- Delivery Time: 3-7 work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per year

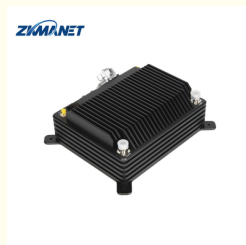


Product Specification

- Correspondence: 70~6000MHz Range Can Be Customized
- Output Power: 43dBm (43dBm)
- Bandwidth Mode: 2.5/5/10/MHz(20/40MHz As Optional)
- Communication Waveforms: TDD-COFDM +2T2R(2T2R)
- Carrier Modulation: BPSK/QPSK/16QAM/64QAM(Self-adaptive)
- Receiver Sensitivity: -100dBm@2.5MHz
- Intelligent Frequency Selection: Optional
- Dimension: 220x180x85mm
- Weight: 3.5Kg
- Working Temperature: -40~+70°C



More Images



Product Description

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ZKManet3371 is a high-power radio utilizing an FPGA solution, supporting adaptive frequency hopping and selection. It has

Our Product

the capability to automatically select the optimal frequency in the presence of electromagnetic interference, enabling broadband service transmission in complex scenarios through self-organizing networks. The device is designed with professional shock absorption features, making it easy to install on vehicles, ships, and aircraft. It can be easily powered on with a single button press, without the need for configuration or parameter changes.

Features

- * Data rate up to 56Mbps
- * Supports two-way voice intercom
- * Supports WIFI
- * Supports GPS/BD
- * Supports HDMI input
- * Supports IP data transparent transmission
- * Easy operation

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	43dBm (43dBm)
Receive Sensitivity	-100dBm@2.5MHz
Modulation Type	BPSK/QPSK/16QAM/64QAM (adaptive)
FHSS	Optional (>1000 hop/s)
Intelligent Frequency Slection	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
Network Access Time	<1s
Network Extension	WIFI AP

Physical/Environment

Weight	3.5kg (w/o Antenna)
Dimensions	220*180*85mm
IP Rating	IP66
Working Temp.	-40°C~70°C

Electrical Parameters

Working Voltage	24-36VDC
Power Consumption	≤937dBm

Interface

LAN Interface	*1
RS232 Interface	*1
Video Interface	HDMI*1

Detailed Photos

Dimensions

Panel Description

Fpga High Power Long Range Uav Drone Video Data Radio Transceiver

1. WIFI antenna interface
2. LAN/DATA Interface
3. HDMI Interface
4. MESH signal indicator
5. Power input port
6. Power push button
7. GPS antenna interface
8. MESH antenna Interface -1
9. MESH antenna Interface -2

Application

Fpga High Power Long Range Uav Drone Video Data Radio Transceiver

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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