

## 4W FPGA Reliability Wireless Handheld Manpack IP Mesh Radio Video Transmitter with FHSS

Our Product Introduction

for more products please visit us on [zkmanet.com](http://zkmanet.com)

### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3151
- Minimum Order Quantity: 1 piece
- Price: USD 3499~6399 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

- Working Frequency: 1.4GHz, Can Be Customized
- Bandwidth: 2.5/5/10/20Mhz
- RF Channel: 2T2R
- Output Power: 4W
- Cover Distance: 20-30KM(stand Tall)
- Capacity: 64 Nodes
- Data Rate: 56Mbps
- Encryption: AES



### More Images



### Product Description

## Product Description

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The ZKManet3151 is a high-performance, high-stability mesh self-organizing network product with FPGA program, which can be used in a variety of communication combinations and applied to different use scenarios. The device with data display, real-time display of device status and device connection status; can be used on the back of a single soldier, you can also use a tripod as a relay, can also be installed at a fixed point, but also in the mobile vehicles, ships, robots, drones, unmanned ships, and so on above the use of anytime, anywhere, a key to open the use of the device, without the need to configure and change the parameters!

### Features

- \* One-button use of the device, no need to configure and change parameters, convenient operation and maintenance
- \* With a display that shows device configuration information and device connection status
- \* With HDMI interface, support HDMI video input
- \* Supports WI-FI connection, GPS/BD positioning
- \* Support voice intercom
- \* Large bandwidth, point-to-point peak bandwidth up to 56Mbps
- \* Full duplex bi-directional data transmission, full IP transparent data transmission
- \* Flexible networking and rapid deployment
- \* Triple-proof design, IP66 protection level, high reliability

### Product Parameters

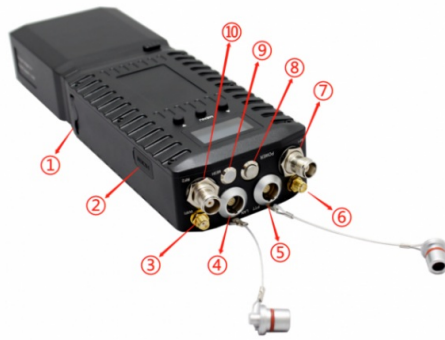
<b>RF Parameters</b>	
Default Frequencies	1300-1500MHz (70MHz-6GHz customizable)
Channel Bandwidth	2.5M/5M/10M/20MHz (40MHz optional)
RF Waveform	TDD-COFDM (2T2R)
Output Power	2x2W, 1dBm step adjustable
Receive Sensitivity	-100dBm@2.5MHz
Modulation Type	BPSK/QPSK/16QAM/64QAM (adaptive)
FHSS	Optional (>1000 hop/s)
IFS	Optional
<b>Network Parameters</b>	
Network Size	Up to 32 nodes
Multi-hop Capability	15 hops (short message); 10 hops (voice); 8 hops (video)
Range	20-30km (Air-to-Ground LOS) 3-10 km (Ground-to-Ground LOS)
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
<b>Physical/Environment</b>	
Weight	1.2kg (with battery)
Dimensions	246.5*82*42mm
IP Rating	IP66
Working Temp.	-40°C~70°C
<b>Electrical Parameters</b>	
Working Voltage	18.5V (15-21V)
Power Consumption	≤237dBm
Battery Life	6 hours
<b>Interface</b>	
LAN Interface	1*LAN
Voice Interface	PTT Mic (7-pin LEMO connector*1)
Video Interface	Mini HDMI*1

### Detailed Photos

### Dimensions



### Panel Description



Main body power input port  
 HDMI input (mini HDMI interface)  
 WIFI antenna interface  
 LAN input interface (9-pin LEMO connector), pin-1234 equals  
 RJ45 pin-1236 (Tx+, Tx-, Rx+, Rx-), and Pin-5678 equals RJ45  
 pin-1236 (Tx+, Tx-, Rx+, Rx-).  
 Mic input interface  
 GPS/BD antenna interface  
 MESH antenna interface-1  
 Power push button  
 Signal Indicator

SNR	Link Quality	Topology Color
SNR $\geq 17$	Excellent	Deep Green
$12 \leq \text{SNR} < 17$	Good	Light Green
$7 \leq \text{SNR} < 12$	Fine	Yellow
$2 \leq \text{SNR} < 7$	Medium	Orange
$-10 < \text{SNR} < 2$	Bad	Red
SNR = -10	Disconnected	N/A

MESH antenna interface-2

## Company Profile

We are 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 non combat 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.

Zhongke Lianxun (Shenzhen) Co., Ltd has 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.

Light High Reliability Wireless Handheld IP Mesh Radio Video Transmitter

## Our Patents

Light High Reliability Wireless Handheld IP Mesh Radio Video Transmitter

## Test Equipments

Light High Reliability Wireless Handheld IP Mesh Radio Video Transmitter

## Our Advantages

Light High Reliability Wireless Handheld IP Mesh Radio Video Transmitter

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