

2T2R 2*2 MIMO Multiple Usage for Manpack Handheld Tripod-Mounted IP Mesh Radio Transceiver

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3151
- Minimum Order Quantity: 1 piece
- Price: USD 2699 per piece
- Packaging Details: carton
- Delivery Time: 3-7 work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per year

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Product Specification

- Frequency: 300~3800MHz Customizable
- Working Bandwidth: 2.5/5/10/20MHz Customizable
- RF Channel: 2T2R,2*2MIMO
- Transmit Power: 4W, Supports Adjustable Output Power
- 1 Hop Communication Distance: $\geq 30\text{KM}$
- Single Hop Time Delay: Average $\leq 24\text{ms}@20\text{MHz}$
- WIFI: 2.4/5.8G
- Positioning: GPS/BD
- Dimension: 246.5*82*42mm
- Weight: 1.2kg(with Battery)

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More Images



Product Description

2T2R 2*2 MIMO Multiple Usage for Manpack Handheld Tripod-Mounted IP Mesh Radio Transceiver

Product Description

I.I product description

ZKManet 3151FSH is a high-performance and stable Mesh self-organizing network product that adopts FPGA scheme. It can adopt multiple communication combinations and be applied in different usage scenarios. The device is equipped with a data display screen, which can display the device status and connection status in real time; It can be carried by individual soldiers, used as a relay with a tripod, installed at fixed points, and can also be used on mobile vehicles, ships, robots, drones, unmanned ships, etc. It can be used anytime and anywhere with just one click on the power, without the need to configure or change parameters.

I.II product features

Integrated design, convenient for carrying and use;
 With HDMI interface, supporting HDMI video input;
 Supports WI-FI connection and GPS/BD positioning;
 Support voice intercom
 Support point-to-point/point-to-point/many to many communication methods;
 Support adaptive transmission rate of 1-100+Mbps; From
 With lithium batteries, usage time ≥ 4 hours;
 Full duplex bidirectional data transmission, full IP transparent data transmission;
 IP66 protection level, high reliability
 One click use upon device startup, no need to configure or change parameters, convenient operation and maintenance

Product Parameters

Item NO.	ZKManet 3151FSH	Band	ZKMANET
RF Parameters	Frequency	300~3800MHz Customizable	
	Working Bandwidth	2.5/5/10/20MHz Customizable	
	RF Channel	2T2R,2*2MIMO	
	Transmit power	4W, supports adjustable output power	
	1 hop communication distance	≥ 30 KM	
Network Parameters	Number of nodes	32	
	Number of hops	Supports automatic multi hop relay communication, with a hop count of ≥ 8 and a total bandwidth loss of $\leq 30\%$ for multi hop communication	
	Networking method	Supports no center, supports MANET technology co frequency self-organizing network, supports star/linear/mesh/hybrid dynamic networking	
	Single hop time delay	Average ≤ 24 ms@20MHz	
	WIFI	2.4/5.8G	
	Positioning	GPS/BD	
	Wireless bandwidth	No less than 50Mbps/20MHz under the premise of 2 * 2MIMO	
	Encryption	Support DES,AES128,AES256,and optional	
Physical	Dimension	246.5*82*42mm	
	Weight	1.2kg(with battery)	
	Working Temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$	
	IP	IP66	
Electrical Characteristics	Power supply	DC21V	
	Power dissipation	Less than 12W	
	Battery size	2.6Ah	
Other	Video Interface	HDMI	
	Frequency hopping function	Optional	
	Data display	Support	
	Intercom	Support	
	Anti-interference	Supports manual spectrum scanning channel selection and intelligent frequency selection	

- High-Performance and Stable Mesh Self-Organizing Network Fpga Scheme
- 1 GPS antenna interface
 - 2 PPT interface
 - 3 LAN port
 - 4 WIFI antenna interface
 - 5 MESH antenna interface
 - 6 Power switch
 - 7 Signal indicator light
 - 8 MESH antenna interface
 - 9 Modify parameter button
 - 10 Modify parameter button
 - 11 Display screen
 - 12 Modify parameter button
 - 13 Power display
 - 14 HDMI interface
 - 15 Charging interface
 - 16 Charging interface
 - 17 Tripod interface
- High-Performance and Stable Mesh Self-Organizing Network Fpga Scheme

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 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.

Our Patents

High-Performance and Stable Mesh Self-Organizing Network Fpga Scheme

Test Equipments

High-Performance and Stable Mesh Self-Organizing Network Fpga Scheme

High-Performance and Stable Mesh Self-Organizing Network Fpga Scheme

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