

4W FGPA Scheme Frequency Selectable Handheld IP Mesh Radio with FHSS

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



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)
- Highlight: **4W handheld IP mesh radio, frequency selectable handheld radio, FHSS IP mesh radio**



More Images



Product Description

4W FPGA Scheme Frequency Selectable Handheld IP Mesh Radio with FHSS

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. was established in 2005, focusing on the research and development of products for drone defense/control, wireless video transmission, and network security encryption/decryption. We leverage the technical expertise of renowned university network security institutes.

Adhering to the principles of "unity and dedication, technological innovation, and service innovation," we serve users both domestically and internationally. We uphold the tenet of "quality first, reputation first" to provide high-quality, efficient, and customized services to our clients worldwide. The company is committed to promoting an innovative spirit of "exploration and progress."

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

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

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