FHSS IFS Smart IP MESH Radio Frequency Hopping Handheld Radio

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen
- Brand Name: ZKMANET
- Certification: CE
- Model Number: ZKMANET3151
- Minimum Order Quantity: 1
- Price: USD 99~999
- Packaging Details: Carton
- Delivery Time: 10 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 1000 pieces per year

Product Specification

- Frequency: 300-3800MHz
- Bandwidth: 2.5/5/10/20MHz
- RF Channel: 2T2R
- Interface: HDMI WIFI BD GPS
- Weight: 1.2kg
- Dimension: 246.5*82*42mm
- Application: Data Transmission
- Highlight: **FHSS IFS Smart IP MESH Radio**, **Frequency Hopping Handheld Radio**, **Handheld Smart IP MESH Radio**

More Images

Product Description

FHSS IFS Smart IP MESH Radio Frequency Hopping Handheld Radio
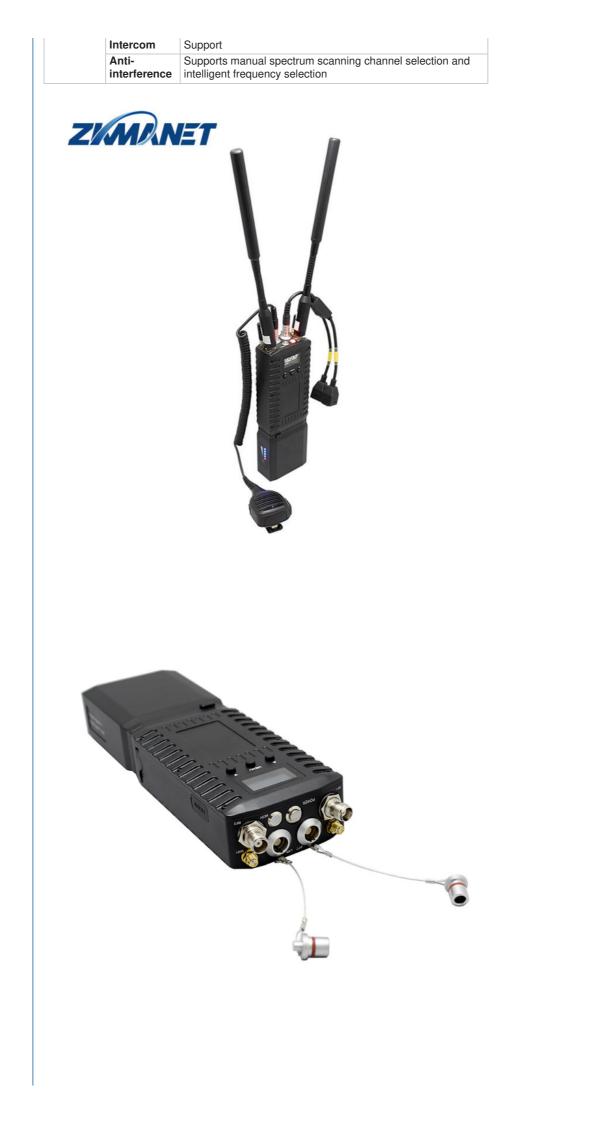
Product Description

ZKMANET3151 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.

Features

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

Product Parameters

Item NO.	ZKManet 3151	Brand	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	≥30KM	
Network Parameters	**Number of nodes**	10(Can be customized)	
	Number of hops	Supports automatic multi hop relay communication, with a hop count of ≥ 8 and a total bandwidth loss of ≤ 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 ≤ 24ms@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	-40ºC---+70ºC	
	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

Panel Description

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

Application

Company Profile

ZKMANET Technology was established in 2005 and is a high-tech enterprise producing COFDM wireless transceivers; 4G-LTE wireless transceivers, 4G/5G wireless receivers, UAV/UGV radio data link, as well as MESH/SOC communication series products based on intelligent communication. Our company is market-oriented, focusing on developing products suitable for emergency communication, non-combat mission communication systems for forces, special robot intelligent communication products, and auxiliary decision-making systems. We dedicated to providing customers with wireless broadband communication products and auxiliary decision-making system research and production under complex conditions.

High-Performance Stable Fpga Mesh Network Radio High-Performance Stable Fpga Mesh Network Radio High-Performance Stable Fpga Mesh Network Radio

Our Patents

High-Performance Stable Fpga Mesh Network Radio

Test Equipments

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