ZKMANET3151 Handheld IP Mesh Radio, 300-3800MHz, Black, Frequency Hop Select

Our Product Introduction

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: **Black Handheld IP Mesh Radio**, **3800MHz Handheld IP Mesh Radio**, **Frequency Hop Handheld IP Mesh Radio**

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ZKMANET3151 Handheld IP Mesh Radio

300-3800MHz Frequency Range with Frequency Hop Select

Key Specifications

Attribute	Value
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

Product Overview

The **ZKMANET3151** is a robust, FPGA-based mesh self-organizing network device designed for versatile communication needs. This handheld IP mesh radio supports multiple communication modes and adapts seamlessly to various operational scenarios.

Key Features

- Integrated design for convenient carrying and use
- HDMI interface supporting video input
- WI-FI connection and GPS/BD positioning support
- Voice intercom capability
- Supports point-to-point, point-to-multipoint, and many-to-many communication
- Adaptive transmission rate of 1-100+Mbps
- Lithium battery with ≥4 hours usage time
- Full duplex bidirectional data transmission
- IP66 protection level for high reliability
- One-click operation with no manual configuration required

Technical Parameters

RF Parameters

Frequency	300~3800MHz (Customizable)
Working Bandwidth	2.5/5/10/20MHz (Customizable)
RF Channel	2T2R, 2*2MIMO
Transmit power	4W (adjustable)
1 hop communication distance	≥30KM

Network Parameters

Number of nodes	10 (Customizable)
Number of hops	≥8 hops with ≤30% bandwidth loss
Networking method	Star/linear/mesh/hybrid dynamic networking
Single hop time delay	Average ≤24ms@20MHz
WIFI	2.4/5.8G
Positioning	GPS/BD
Wireless bandwidth	≥50Mbps/20MHz (2*2MIMO)
Encryption	DES, AES128, AES256 (optional)

Physical Characteristics

Dimension	246.5*82*42mm
Weight	1.2kg (with battery)
Working Temperature	-40ºC to +70ºC
IP Rating	IP66

Electrical Characteristics

Power supply	DC21V
Power dissipation	<12W
Battery size	2.6Ah

Interface Panel

Applications

About ZKMANET Technology

Established in 2005, ZKMANET Technology is a high-tech R&D enterprise specializing in wireless broadband communication products for emergency communication, military applications, and intelligent communication systems for special robots.

Our Patents

Test Equipment

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