

FPGA 4W 56Mbps IP MESH Manpack Handheld Radio with HDMI Input and Support FHSS and Intelligent Frequency Selection

Our Product Introduction

for more products please visit us on zkmanet.com

Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3151
- Minimum Order Quantity: 1
- Price: USD 5999 per piece
- Packaging Details: Brown Carton
- Delivery Time: 5~8 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 10000 pieces per year



Product Specification

- Frequency: 1300-1500MHz (70MHz-6GHz Customizable)
- Bandwidth: 2.5M/5M/10M/20MHz (40MHz Optional)
- Output Power: 4W
- Receive Sensitivity: -100dBm@2.5MHz
- Modulation: BPSK/QPSK/16QAM/64QAM (adaptive)
- FHSS: Optional (>1000 Hop/s)
- Intelligent Frequency Selection: Optional
- Delay: 7ms



More Images



Product Description

FPGA 4W 56Mbps IP MESH Manpack Handheld Radio with HDMI Input and Support FHSS and Intelligent Frequency Selection

Product Description

Our Product

The ZKManet3151 is a manpack self-organizing network radio (optional: adaptive frequency selection radio/ frequency hopping radio), with a customizable transmission frequency range from 70M to 6G. It adopts our new-generation multi-hop self-organizing network protocol wireless technology, which has the ability to adaptively select frequencies and hop frequencies in complex channel environments, enabling broadband service transmission in complex scenarios. It enables networking between individual soldiers, vehicles, drones, and fixed points, allowing users to quickly establish dedicated networks in emergency situations. This provides users with stable wireless transmission channels for voice, IP data, video, and other communication needs.

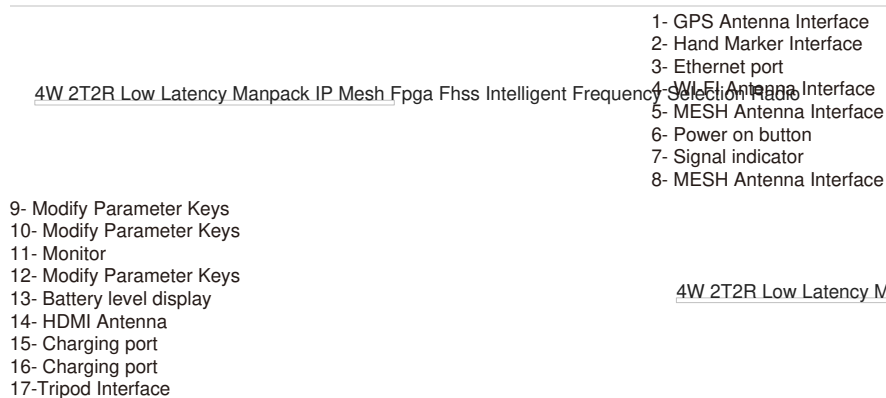
Features

Frequency 1300-1500MHz (70MHz-6GHz customizable)
 Data rate up to 56Mbps
 Full transparent IP data transmission
 Supports PTT voice intercom
 Supports GPS/BD/GLONASS (GNSS)
 HDMI input as optional
 Supports WIFI
 Easy operation
 IP66

Specifications

RF Parameters	
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
Network Parameters	
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
Physical/Environment	
Weight	1.2kg (with battery)
Dimensions	246.5*82*42mm
IP Rating	IP66
Working Temp.	-40°C~70°C
Electrical Parameters	
Working Voltage	18.5V (15-21V)
Power Consumption	≤237dBm
Battery Life	6 hours
Interface	
LAN Interface	1*LAN
Voice Interface	PTT Mic (7-pin LEMO connector*1)
Video Interface	Mini HDMI*1

Detailed Photos



- 1- GPS Antenna Interface
- 2- Hand Marker Interface
- 3- Ethernet port
- 4- WIFI Antenna Interface
- 5- MESH Antenna Interface
- 6- Power on button
- 7- Signal indicator
- 8- MESH Antenna Interface

4W 2T2R Low Latency Manpack IP Mesh Fpga Fhss Intelligent Frequency Selection Radio

- 9- Modify Parameter Keys
- 10- Modify Parameter Keys
- 11- Monitor
- 12- Modify Parameter Keys
- 13- Battery level display
- 14- HDMI Antenna
- 15- Charging port
- 16- Charging port
- 17-Tripod Interface

4W 2T2R Low Latency Manpack IP Mesh Fpga Fhss Intelligent

Application

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. The products are widely used in law enforcement agencies and government departments such as public security, armed police, , forest fire prevention, civil air defense, and maritime affairs.

We hold numerous 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 from the Ministry of Public Security.

Our Patents

4W 4t4r Dual Band 3~5km Transmission Manpack IP Mesh Radio

Test Equipments

4W 4t4r Dual Band 3~5km Transmission Manpack IP Mesh Radio

4W 4t4r Dual Band 3~5km Transmission Manpack IP Mesh Radio

FAQ

4W 2T2R Low Latency Manpack IP Mesh Fpga Fhss Intelligent Frequency Selection Radio

ZKMANET Zhongke Lianxun (Shenzhen) Technology Co., Ltd



+86 13266718951



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