



ZKMANET3261 43dBm 40km Frequency Hop Manpack IP Mesh Radio For Fire Department

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen
- Brand Name: ZKMANET
- Certification: CE
- Model Number: ZKMANET3261
- Minimum Order Quantity: 1
- Price: USD 99~999
- Packaging Details: Carton
- Delivery Time: 7 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 1000 pieces per year



Product Specification

- Size: 320*200*76mm
- Weight: 4.75kg
- IP Rating: IP66
- Voltage: 12-24V
- Interfaces: LAN PTT HDMI
- FHSS: Optional
- Application: Telecommunicate
- Highlight: 40km Manpack IP Mesh Radio, Frequency Hop Manpack IP Mesh Radio, IP Mesh Radio For Fire Department



More Images



Product Description

ZKMANET3261 Frequency Hop Manpack IP Mesh Radio For Fire Department

Product Description

ZKMANET3261 is a mesh self-organizing network product with FPGA solution, which can be applied to different usage scenarios by using various communication combination methods.

The device with data display, can real-time display of the device status and device connection status; can be used on the back of a single soldier, can also be used as a tripod as a relay, can also be installed at a fixed point, but also can be used on top of mobile vehicles, ships, robots, drones, unmanned boats, etc., at any time, anywhere, a key to boot to use, without the need to configure and change the parameters.

Features

- * Data rate up to 56Mbps
- * Supports two-way voice intercom
- * Supports WIFI
- * Supports GPS/BD
- * Supports HDMI input
- * Supports IP data transparent transmission
- * Easy operation

Flexible Networking

No central distributed networking, flexible carrier bandwidth configuration, supports various network topologies such as point-to-point, chain, star, mesh, mixed dynamic, etc.

Powerful Adaptivity

Built-in H.265 encoder adjusts video bitrate, resolution, and frame rate adaptively based on channel bandwidth to ensure the continuity and smoothness of video transmission services.

Intelligent Routing

Devices can move quickly and network topology can be updated accordingly with dynamic route reconstruction in real-time without affecting overall system communication.

Anti-interference

Wideband carrier frequency hopping (optional) effectively enhances anti-interference capabilities. Additionally, it supports intelligent frequency selection (optional) mode where devices can intelligently choose interference-free frequencies for network transmission to avoid interference. It also utilizes ARQ error control transmission mechanism to reduce data loss rates and improve data transmission reliability.

Full IP Interconnection

With Fully IP-based design, it supports various data transmissions for seamless integration with heterogeneous communication systems.

Encryption

It has independently developed system with custom transmission protocols and 64-bit key for air interface transmission encryption. It can dynamically generate scrambling sequences for channel encryption. The system also supports DES56/AES128/AES256 source encryption to enhance security.

Easy Operation

Built-in Wi-Fi communication module allows mobile devices, laptops, or PADs to access and control without the need for wired connections, making user management and maintenance convenient.

GIS Services

With built-in BD/GPS, it supports real-time display of geographical location and latitude/longitude positioning information through. It can measure distances between individual radio stations and track the continuous position of selected radio station groups.

Specification

| Model | ZKManet 3261 | |
|------------------------------|----------------------|--|
| RF parameters | Default Frequencies | 1300-1500MHz (70MHz-6GHz customizable) |
| | Bandwidth | 2.5/5/10/20Mhz (40MHz optional) |
| | RF Channel | TDD-COFDM + 2T2R |
| | Modulation Type | BPSK/QPSK/16QAM/64QAM (adaptive) |
| | Receive Sensitivity | -100dBm@2.5MHz |
| | FHSS | Optional (>1000 hop/s) |
| | IFS | Optional |
| | Output Power | 2*40dBm, 1dBm step adjustable |
| Network parameters | Network Size | Up to 10 nodes(Can be customized) |
| | Multi-hop Capability | 15 hops (short messages); 10 hops (voice) ; 8 hops (video) |
| | Range | 30-49 km (Ground-to-Ground LOS) |
| | Communication rate | Up to 28Mbps@10MHz & 56Mbps@20MHz |
| | Delay | 7ms@2.5MHz/hop |
| | Movement Speed | >1000km/h |
| | Start Time | 27s |
| | Positioning | GPS/BD |
| | Network Access Time | <1s |
| Physics/Environment | Dimensions | 320*200*76mm |
| | Weight | 4.75kg |
| | Working Temp | -40°C~70°C |
| | IP Rating | IP66 |
| Electrical parameters | Working Voltage | 12-24V |
| | Power Consumption | 937dBm |
| | battery capacity | 13Ah(6hours) |
| Interface | LAN interface | *1 |
| | Voice Interface | PTT Mic (7-pin LEMO connector*1) |
| | Video Interface | HDMI (optional) |

Panel description

1. Power push button
2. PTT (Mic)
3. MESH signal indicator

| SNR | Link Quality | Topology Color |
|---------------|--------------|----------------|
| SNR ≥ 17 | Excellent | Deep Green |
| 12 ≤ SNR < 17 | Good | Light Green |
| 7 ≤ SNR < 12 | Fine | Yellow |
| 2 ≤ SNR < 7 | Medium | Orange |
| -10 < SNR < 2 | Bad | Red |
| SNR = -10 | Disconnected | N/A |



1. LAN interface, RJ45
2. Digital LCD indicator
3. Configuration buttons (optional) - set frequency, bandwidth and distance parameters.
4. Battery Indicator
5. Battery butterfly clasp
6. MESH antenna interface-2
7. WIFI antenna interface-2
8. 4G antenna interface
9. GPS/BD antenna interface
10. WIFI antenna interface-1
11. MESH antenna interface-1

1. Battery charging port
2. Main body power input port

1. Battery +/- contacts
2. SIM card slot

Dimensions

43dBm 30km Smart MIMO IP Mesh Transceiver Radio

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., 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.

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FAQ

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