43dBm Manpack Radio with Frequency Hopping Adaptive Frequency Selection and 70MHz~6GHz Customizable

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3261
- Minimum Order Quantity: 1 piece
- Price: USD 9999~13999 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

- Communication Frequency: 1300-1500MHz(70~6000MHz Could Be Customized)
- Transmit Power: 2*40dBm, Adjustable In 1dBm Steps
- Bandwidth Mode: 2.5/5/10/20 MHz (40 MHz Optional)
- Communication Waveforms: TDD-COFDM +2T2R (dual Transmitter And Dual Receiver)
- Carrier Modulation (electronics): BPSK/QPSK/16QAM/64QAM (adaptive)
- Receiver Sensitivity: -100dBm@2.5MHz
- Intelligent Frequency Selection: Optional
- Frequency-hopping: Optional (with Frequency Hopping Anti-interference (>1000 Hops/sec))

More Images

Product Description

43dBm Manpack Radio with Frequency Hopping Adaptive Frequency Selection and 70MHz~6GHz Customizable

Product Description

Our Pro

ZKManet3261 is a high-power 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

* 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.

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	2x40dBm, 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 messages); 10 hops (voice) ; 8 hops (video)
Range	50-70km (Air-to-Ground LOS) 30-50 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
Network Extension	WIFI AP/4G Router (optional)
Electrical Parameters	
Working Voltage	12-24V
Power Consumption	937dBm
Battery Life	6 hours (13Ah)
Physical/Environment	
Weight	4.75kg (with battery)
Dimensions	320*200*70mm
IP Rating	IP66
Working Temp.	-40°C~70°C
Interface	
LAN interface	*1
Voice Interface	PTT Mic (7-pin LEMO connector*1)
Video Interface	HDMI (optional)

Detailed Photos

Application

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd is a high-tech R&D enterprise. Our products mainly use Mesh,COFDM 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.

Guided by the principles of "unity and commitment, technological advancement, and service innovation," we cater to users both at home and abroad. We prioritize the motto of "quality first, reputation foremost" in delivering high-quality, efficient, and tailored services to our global clientele. The company is dedicated to fostering an innovative culture centered on "exploration and progress."

43dBm Long Distance Mesh Vehicle Mounted Fhss Mesh Video Transmission Radio   43dBm Long Distance Mesh Vehicle Mounted Fhss Mesh Video Transmission Radio

43dBm Long Distance Mesh Vehicle Mounted Fhss Mesh Video Transmission Radio
43dBm Long Distance Mesh Vehicle Mounted Fhss Mesh Video Transmission Radio   43dBm Long Distance Mesh Vehicle Mounted Fhss Mesh Video

FAQ

Rugged IP66 1300-1500MHz Frequency Customizable Fhss and Ifs Manpack SP86 1300-1500MHz Frequency Customizable Fhss a

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