High Power 2x40dBm 2T2R 56Mbps Hopping Selection Outdoor Base Station Radio Transmitter And Receiver

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet3561
- Minimum Order Quantity: 1 piece
- Price: USD 9999 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

- Frequency: 70~6000MHz Customizable
- Bandwidth: 2.5/5/10/20MHz Customizable
- RF Channel: 2T2R
- Output Power: 2x40dBm
- Range: ≥70KM
- Video Interface: HDMI For Optional
- FHSS: Optional
- Intelligent Frequency Selection: Optional
- Highlight: **Outdoor radio transmitter, radio transmitter and receiver, station radio transmitter**

More Images

Product Description

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Product Description

Our Pro

ZKManet3561 is a high-power MESH self-organizing outdoor base station product utilizing an FPGA solution. The device can be fixedly installed using pole mounts, wall mounts, or brackets, primarily deployed at outdoor fixed points. The IP rating is IP67. With high transmission power and long coverage distance, it integrates data transmission, dynamic routing, and relay forwarding into one unit. It quickly self-organizes with other node devices to form a wireless multi-hop broadband network, providing users with wireless transmission services for voice, data, and video multimedia services. It is particularly suitable for applications such as long-distance communication coverage, information aggregation and feedback, regional coverage support, elevated point coverage enhancement, and relay transmission nodes.
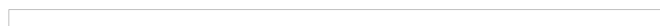
Features

* Supports Mobile Ad Hoc Network (MANET)

* Frequency 1300-1500MHz (70MHz-6GHz customizable)

* Supports FHSS and IFS (Intelligent Frequency Selection)

* Supports AES256 Encryption

* 2x40dBm power output

* Data rate up to 56Mbps

* Supports up to 32 nodes

* Supports GPS/BD/GLONASS (GNSS)

* Full transparent IP data transmission

* Supports Web and PC software management

* HDMI input as optional

* Rugged IP67 housing

Specifications

RF Parameters	
Default Frequencies	70MHz-6GHz customizable
Channel Bandwidth	2.5M/5M/10M/20MHz (40MHz optional)
RF Waveform	TDD-COFDM + 2T2R
Output Power	2x40dBm
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	50-70km (Air-to-Ground LOS) 30-50 km (Ground-to-Ground LOS)
Data rate	Up to 28Mbps@10MHz & 56Mbps@20MHz
Delay	7ms
Movement Speed	>1000km/h
Start Time	27s
Positioning	GPS/BD
Network Access Time	<1s
Network Extension	WIFI AP
Electrical Parameters	
Working Voltage	AC220V
Power Consumption	≤937dBm
Physical/Environment	
Weight	6.5kg
Dimensions	300*238*133mm
IP Rating	IP67
Working Temp.	-40°C~70°C
Interface	
LAN Interface	*1
RS232	*1
Voice Interface	PTT Mic (7-pin LEMO connector*1)
Video Interface	HDMI*1

Dimensions

Panel Description

2*40dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Base Station Radio Transmitter

1. MESH antenna interface-1, N-F
2. GPS/BD antenna interface, SMA-F
3. HDMI input interface type A (Optional)
4. WIFI antenna interface-1, SMA-F
5. MESH antenna interface-2, N-F
6. LAN interface, RJ45
7. 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

8. Power input port, 3-pin
9. Power push button

Company Profile

Zhongke Lianxun (Shenzhen) Co., Ltd was established in 2005. The company focuses on the research and development of products for drone defense/control, wireless video transmission, and network security encryption/decryption. It leverages the technical expertise of renowned university network security institutes. The company specializes in providing data encryption and decryption solutions as well as drone defense solutions for industries such as wind power, national power, oil and gas, firefighting, public security, road and bridge construction, and emergency management agencies.

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2*40dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Base Station Radio Transmitter

2*40dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Base Station Ra2i*o4T0dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Ba

FAQ

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