

4W 82Mbps IP MESH Outdoor Base Station Radio for 5~20km Transmission

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2551UM
- Minimum Order Quantity: 1
- Price: USD 3500~5999
- 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: 1400-1460MHz (562-612MHz)
- RF Channel: 2T2R
- Output Power: 4W
- RF Bandwidth: 5M/10M/20M/40MHz
- Network Capacity: 64 Nodes
- Data Rate: 82Mbps
- Range: 5~20km



More Images



Product Description

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Product Description

The ZKManet2551UM is a high-performance, high-stability, high-power outdoor IP MESH Radio. By matching with directional,

Our Product

omnidirectional, sector and other antenna types, it can realize different types of point-to-multipoint or point-to-point and MESH networks. It adopts advanced industrial-grade design such as anti-surge/static, anti-salt spray corrosion, etc., which can meet all-weather uninterrupted work in various complex electromagnetic environments and harsh climates.

Features

- * Range up to 5-20km LOS
- * Data rate up to 82Mbps
- * Supports AES encryption
- * With dual antennas MIMO
- * Supports up to 64 nodes MESH network
- * Full duplex transparent IP data transmission
- * Flexible networking and rapid deployment
- * Rugged IP67

Quick Deployment

Mesh self-organizing network technology enables rapid mobile deployment, allowing for the establishment of a reliable wireless communication network in a short period of time to meet the timeliness requirements of emergency communications.

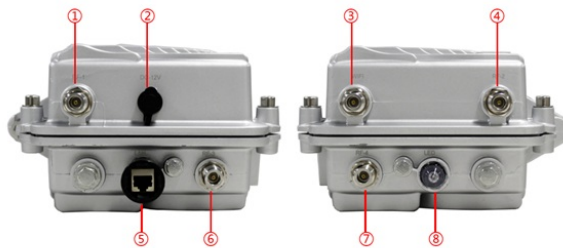
Strong Stability

Mesh self-organizing network technology features self-healing capabilities, ensuring that even if some devices fail, the entire network can continue to operate stably, preventing communication interruptions.

High Security

Advanced encryption algorithms and security authentication mechanisms are employed to effectively safeguard the security and confidentiality of communication data, preventing information leakage and malicious attacks.

Detailed Photos



MESH Antenna Interface
Power Input Port – DC 12V
WIFI Antenna Interface
MESH Antenna Interface
LAN Interface – RJ45
Antenna Interface – Reserved
Antenna Interface – Reserved
Signal Indicator

Product Parameters

Transmission Characteristics	
Modulation Type	BPSK/QPSK/16-QAM/64-QAM
Frequency	1400-1460MHz
RF Channel	2T2R
RF Power Output	36dBm (4W)
RF Bandwidth	2/5/10/20/40MHz
Network Characteristics	
Network Capacity	Up to 64 nodes
Data Rate	82Mbps@40MHz
Encryption	AES (User-defined password)
Electrical Characteristics	
Working Voltage	DC 12V
Working Current	≤1A (@12V)
Power Consumption	≤12W
Physical Characteristics	
Weight	3.2kg
Dimensions	286*216*122mm
Working Temp.	-20°C ~ +65°C
IP Code	IP67
Storage Temp.	-45°C ~ +85°C

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd. was founded in 2005 and specializes in the research and development of products related to drone defense and control, wireless video transmission, and network security encryption and decryption. With a commitment to high quality and cutting-edge technology, we deliver comprehensive network communication solutions

to our clients. Our team of chief scientists, led by professors from the Network Security Institute at Wuhan University, has made significant advancements in developing man-in-the-middle platforms for enhancing network security.

Currently, our offerings include platforms such as a drone denial system, long-range wireless video transmission for drones, a network encrypted data analysis platform, an IPSEC man-in-the-middle platform, and an SSH man-in-the-middle analysis platform. We also provide design and development services for big data collection and analysis products tailored for large enterprises and institutions with confidentiality requirements. In addition, we sell network security equipment and offer technical services in information security. Our products are extensively utilized by law enforcement agencies and government bodies, including public security, armed police forces, units, forest fire prevention teams, civil air defense organizations, and maritime authorities.

Our Patents

40dBm/43dBm Multi-Hop Outdoor Industrial IP Mesh Radio

Test Equipments

40dBm/43dBm Multi-Hop Outdoor Industrial IP Mesh Radio

40dBm/43dBm Multi-Hop Outdoor Industrial IP Mesh Radio

Our Advantages

40dBm/43dBm Multi-Hop Outdoor Industrial IP Mesh Radio

40dBm/43dBm Multi-Hop Outdoor Industrial IP Mesh Radio

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