

## Anti Interference Vehicle Mounted Data Link

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, 2\*2MIMO
- Output Power: 43dBm
- Range:  $\geq 70$ KM
- Video Interface: HDMI For Optional
- FHSS: Optional
- Intelligent Frequency Selection: Optional
- Highlight: **56Mbps Vehicle Mounted Data Link, Anti Interference Vehicle Mounted Data Link, data transceiver device**




### More Images






### Product Description

#### 50-70km Anti Interference 56Mbps Outdoor Base Station Video Wireless Data Transceiver

##### Product Description

ZKManet3561 is a high-power MESH self-organizing outdoor base station product utilizing an FPGA solution. The device can

Our Product

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

- \* 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.

#### Secure 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   | 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)<br>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) Technology Co., Ltd. was established in 2005. We focus on the research and development of products for drone defense/control, wireless video transmission, and network security encryption/decryption. With excellent quality and advanced technology, we provide comprehensive network communication solutions to our customers.

Our chief scientist team, led by professors from the Network Security Institute of Wuhan University, has achieved remarkable results in the development of man-in-the-middle platforms for network security. The company currently offers platforms such as a drone denial system platform, long-distance wireless video transmission platform for drones, network encrypted data analysis platform, IPSEC man-in-the-middle platform, and SSH man-in-the-middle analysis platform.

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FAQ

2\*40dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Base Station Ra2140dBm 2T2R 56Mbps 50~70km Fpga Fhss IP67 Outdoor Base

**ZKMANET** Zhongke Lianxun (Shenzhen) Technology Co., Ltd

+8613316826915    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