

2W 1T2R Long Range 49km LOS UAV Drone Auto-Tracking Antenna Ground Terminal

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2441
- Minimum Order Quantity: 1
- Price: USD 1699~USD2299
- 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: 800MHz/1.4GHz/2.4GHz(Customizable)
- Bandwidth: 5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Output Power: 2W
- Range: 49km(LOS)
- Motor Torque: 30N*m
- Rotation Angle: 360°horizontally, 90°vertically
- Angle Accuracy: $\pm 2^\circ$



More Images



Product Description

2W 1T2R Long Range 49km LOS UAV Drone Auto-Tracking Antenna Ground Terminal

Product Description

Our Product

The ZKManet2441 is a ground terminal designed for long distances video data communication. It has built-in GPS tracking module and wireless communication module. The airborne GPS module feeds GPS/BD coordinate information to the wireless communication module through serial port for transparent transmission. The ground terminal calculates the pointing angle based on its own latitude and longitude and that of the airborne module. This ensures your ground panel antenna is always aligned with your airborne module, maintaining the best possible wireless reception and significantly increasing the range. It adopts 1T2R dual-antenna transmission, with a high-gain directional antenna for sending and receiving, and an omnidirectional antenna for receiving, which can transmit signals more effectively.

Features

- * 2W power output for up to 49km range
- * Automatic calibration algorithm at startup
- * With main and sub (LoRa) dual links to ensure timely refreshing of GPS data
- * Using 1T2R dual-antenna transmission for more reliable transmission
- * 360-degree twist-free slip ring

Specifications

| | | | |
|-----------------------|---------------------|----------------------------------|---------|
| Model | ZKManet2441 | Brand | ZKMANET |
| RF Parameters | Frequency | 800MHz/1.4GHz/2.4GHz | |
| | Bandwidth | 5MHz/10MHz/20MHz | |
| | RF Channel | 1T2R | |
| | Output Power | 2W | |
| | Range | 49km(LOS) | |
| PTZ Parameters | Motor Torque | 30N*m | |
| | Rotation Angle | 360°horizontally, 90°vertically+ | |
| | Angle Accuracy | ±2° | |
| | Maximum Motor Speed | 0.21s/60° | |
| Interface Parameters | RF Interface | N*1,SMA*2 | |
| | LAN Interface | Waterproof aviation connector | |
| | Power Interface | Waterproof DC connector | |
| Network Parameters | Data Rate | 30Mbps(Max) | |
| | Encryption | ZAES128 | |
| Physical/Environment | Dimensions | 306*396*416mm | |
| | Weight | 4.2kg (w/ battery & antenna) | |
| | IP Rating | IP65 | |
| | Working Temp | -40°C~+60°C | |
| Electrical Parameters | Power Supply | DC12V | |
| | Power Consumption | <High Power | |

Dimensions

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

Panel Description

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

1. GPS Antenna
2. Directional panel antenna interface, SAM F
3. LoRa link antenna interface, SMA F
4. Power button
5. OLED screen (1.3") and configuration buttons (up, down and menu)
6. Battery indicator
7. Omnidirectional antenna interface, SAM F
8. LAN & Serial port - 9 pin aviation connector (4 pins for LAN, 3 pins for TTL and 2 pins not used)
9. DC power input interface, waterproof

Application

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

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.

We have multiple patents with independent intellectual property rights, has established a sound quality system and national standard system that comply with ISO9001 standards, and strictly produces products in accordance with national standards and internationally recognized standards such as CCC, CE, FCC, etc. It has obtained the Radio Transmission Equipment Model Approval Certificate issued by the Ministry of Industry and Information Technology of China and has passed the wireless product testing certification of the Ministry of Public Security.

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800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

FAQ

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna

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