

## 2W 1T2R Long Range 49km Transmission for Uav Drone Ground Station Tracker

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 Transmission for Uav Drone Ground Station Tracker

##### Product Description

The ZKManet2441 is a ground terminal designed for long distances video data communication. It has built-in GPS tracking

Our Product

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 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	
	Range49	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 Antenna800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tr

#### Panel Description

800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tracking Antenna800MHz/1.4GHz/2.4GHz Uav Drone Ground Terminal Auto Tr

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 research and development enterprise. Our products primarily leverage Mesh, COFDM and LTE technologies, along with supporting decision-making software, to create emergency communication systems for underground facilities, and police investigations, non-combat training, urban emergencies, and communication vehicles. These solutions are designed for law enforcement agencies and government departments, including public security, armed police, , forest fire prevention, civil defense, and maritime operations. Notably, our intelligent communication products for specialized robots address the challenges of long-distance communication and control 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.

Adhering to the principles of "unity and dedication, technological innovation, and service innovation," we serve users both domestically and internationally. We uphold the tenet of "quality first, reputation first" to provide high-quality, efficient, and customized services to our clients worldwide. The company is committed to promoting an innovative spirit of "exploration and progress."

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FAQ

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