49km LOS 360° Rotation 5MHz/10MHz/20MHz Bandwidth 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: ±2°

More Images

Product Description

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Product Description

Our Pro

The ZKManet2441 is a ground terminal engineered for long-range video data communication. It comes equipped with an integrated GPS tracking module and a wireless communication module. The airborne GPS module transmits GPS/BD coordinate data to the wireless communication module via a serial port, facilitating seamless transmission. The ground terminal determines the pointing angle by comparing its own latitude and longitude with those of the airborne unit. This alignment ensures that the ground panel antenna consistently points towards the airborne module, optimizing wireless reception and greatly enhancing range. It features a 1T2R dual-antenna system, which includes a high-gain directional antenna for both transmitting and receiving signals, along with an omnidirectional antenna for improved reception, allowing for more efficient signal transmission.

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	
	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	-40ºC~+60ºC	
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 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. The products are widely used in law enforcement agencies and government departments such as public security, armed police, , forest fire prevention, civil air defense, and maritime affairs.

We hold numerous patents with independent intellectual property rights and have developed a robust quality management system that adheres to ISO9001 standards, as well as national standards. Our production processes strictly follow these national guidelines and internationally recognized standards, including CCC, CE, and FCC. Additionally, we have received the Radio Transmission Equipment Model Approval Certificate from the Ministry of Industry and Information Technology of China and have successfully completed wireless product testing certification from the Ministry of Public Security.

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FAQ

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