

## Long Range 800MHz 1.4GHz 2.4GHz Wireless UAV Data Link Communication Ground Station

Our Product Introduction

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### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2401
- Minimum Order Quantity: 1 piece
- Price: USD 8299 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

- Working Frequency: 800MHz, 1.4GHz, 2.4GHz
- RF Bandwidth: 5/10/20MHz
- RF Channel: 1T2R
- Transmission Power: 300mW
- Motor Torque: 30N\*m
- Rotation Angle: 360 Degree Horizontally, 90 Degree Vertically
- Angular Accuracy: 2 Degree
- Max. Motor Speed: 0.13s/60degree
- Highlight: **2.4GHz UAV Data Link, Wireless UAV Data Link, 1.4GHz Communication Ground Station**



### More Images



### Product Description

#### Long Range 800MHz 1.4GHz 2.4GHz Wireless UAV Data Link Communication Ground Station

##### Product Description

The ZKManet2401 is a ground terminal specifically crafted for long-range video data transmission. It incorporates an

Our Product

integrated GPS tracking module along with a wireless communication module. The airborne GPS module transmits GPS/BD coordinate data to the wireless communication module via a serial port, enabling seamless transmission. The ground terminal determines the pointing angle by comparing its own latitude and longitude with those of the airborne module. This alignment ensures that the ground panel antenna consistently points towards the airborne module, optimizing wireless reception and significantly enhancing the operational range. It features a 1T2R dual-antenna system, utilizing a high-gain directional antenna for both transmitting and receiving, as well as an omnidirectional antenna for improved signal reception, thereby enhancing overall transmission efficiency.

#### Features

- \* 316mw power output for up to 20km 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	ZKManet2401	Brand	ZKMANET
RF Parameters	Frequency	800MHz/1.4GHz/2.4GHz	
	Bandwidth	5MHz/10MHz/20MHz	
	RF Channel	1T2R	
	Output Power	23dBm	
	Range	20km(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

Uav Drone Directional Antenna Ground Terminal Tracker Gsc

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#### Panel Description

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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

Uav Drone Directional Antenna Ground Terminal Tracker Gsc

#### 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 provide design and development services for internet big data collection and analysis products and application solutions to large enterprises and institutions with confidentiality needs. Additionally, we offer sales of network security equipment and information security technical services. Our products are widely used by law enforcement forces 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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## ZKMANET Zhongke Lianxun (Shenzhen) Technology Co., Ltd

+86 13266718951

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