

Long Range 20km LOS UAV Drone Ground Terminal with Auto-Tracking and High-Gain Antenna

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: ZKMANET
- Certification: CE, ISO9001
- Model Number: ZKManet2401
- Minimum Order Quantity: 1
- Price: USD2999~5999
- 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
- Bandwidth: 5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Output Power: 23dBm
- Range: 20km(LOS)
- Motor Torque: 30N*m
- Rotation Angle: 360°horizontally, 90°vertically
- Angle Accuracy: $\pm 2^\circ$
- Highlight: long range UAV drone ground terminal, 20km LOS drone terminal with auto-tracking, high-gain antenna drone data link terminal



More Images



Product Description

Long Range 20km LOS UAV Drone Ground Terminal with Auto-Tracking and High-Gain Antenna

Product Description

The ZKManet2401 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

- * 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

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

Panel Description

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

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