

20km 30Mbps Ground Stations and Uav Real-Time Video Transmitter Auto-Tracking Antenna GCS with AES Encryption

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 7999~14999
- Packaging Details: carton
- Delivery Time: 3-7 work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per year



Product Specification

- Frequency: 800MHz/1.4GHz/2.4GHz
- RF Bandwidth: 5/10/20MHz
- RF Channel: 1T2R
- Transmission Power: 23dBm
- Max Throughput: 30Mbps
- Encryption: AES
- Dimension: 306*396*416mm
- Weight: 4.2kg (w/ Battery & Antenna)
- Highlight: UAV real-time video transmitter, drone data link with AES encryption, auto-tracking antenna GCS



More Images



Product Description

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Product Description

Our Product

The ZKManet2401 is a ground terminal specifically designed for long-distance video data communication. It features an integrated GPS tracking module along with a wireless communication module. The airborne GPS module transmits GPS/BD coordinate information to the wireless communication module via a serial port, enabling seamless data transmission. The ground terminal calculates the pointing angle by comparing its own latitude and longitude with those of the airborne module. This ensures that your ground panel antenna remains perfectly aligned with the airborne unit, optimizing wireless reception and significantly extending the operational range. It utilizes a 1T2R dual-antenna configuration, incorporating a high-gain directional antenna for both transmission and reception, as well as an omnidirectional antenna for enhanced signal reception, allowing for more effective signal transmission.

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

Uav Drone Directional Antenna Ground Terminal Tracker Gsc

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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. 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.

We hold several 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 by the Ministry of Public Security.

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FAQ

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