4W Long Range Manet Mesh Drone Data Link UAV 56Mbps with FHSS and AES256 Encryption

Basic Information

Place of Origin: Guangdong, China
Brand Name: ZKMANET
Certification: CE, ISO9001
Model Number: ZKManet3451
Minimum Order Quantity: 1 piece

• Price: USD 1999 2399 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

• Frequency: 1300-1500MHz (70MHz-6GHz

Customizable)

• Working Bandwidth: 2.5M/5M/10M/20MHz

RF Channel: 2T2RTransmit Power: 4WThroughout Rate: 56Mbps

Nodes: 8 Nodes Customizable

• Encryption: AES256

Coverage Distance: Long Range Customizable

• Highlight: 40-Long Distance Wireless Video Transceiver,

40-Long Distance Drone Data Link,

82Mbps Drone Data Link





More Images

ZVANANET







Product Description

4W Long Range Manet Mesh Drone Data Link UAV 56Mbps with FHSS and AES256 Encryption

Product Description

The ZKManet3451 is an airborne Mesh radio that utilizes an FPGA solution. It supports adaptive frequency hopping and

Our Product Introduction

selection, automatically choosing the optimal frequency in the presence of electromagnetic interference. This enables broadband network self-organization and transmission in complex scenarios. It can be used in various communication combinations for different usage scenarios, such as on moving UAVs or USVs, allowing for easy plug-and-play operation without the need for configuration or parameter changes. It is primarily used for multimedia interconnection between drones and base stations, as well as serving as a Mesh relay node.

Features

- * Data rate up to 56Mbps
- * Full transparent IP data transmission
- * With HDMI input
- * Long range customizable * Supports GPS/BD
- * Supports up to 8 nodes customizable
- * With TTL and LAN interface

Specifications

RF Parameters				
	1000 1500MH= /70MH= COH= avatassis abla\			
Default Frequencies	1300-1500MHz (70MHz-6GHz customizable)			
Channel Bandwidth	2.5M/5M/10M/20MHz (40MHz optional)			
RF Waveform	TDD-COFDM (2T2R)			
Output Power	2x2W, 1dBm step adjustable			
Receive Sensitivity	-100dBm@2.5MHz			
Modulation Type	BPSK/QPSK/16QAM/64QAM (adaptive)			
FHSS	Optional (>1000 hop/s)			
IFS	Optional			
Network Parameters				
Network Size	8 nodes customizable			
Multi-hop Capability	15 hops (short message); 10 hops (voice); 8 hops (video)			
Range	Long range customizable			
Data rate	Up to 28Mbps@10MHz & 56Mbps@20MHz			
Delay	7ms@2.5MHz/hop			
Movement Speed	>1000km/h			
Start Time	27s			
Positioning	GPS/BD/GLONASS (GNSS)			
Network Access Time	<1s			
Network Extension	WIFI AP			
Electrical Parameters				
Working Voltage	12-36V DC			
Power Consumption	≤237dBm			
Physical/Environment				
Weight	475g			
Dimensions	120*90*40mm			
Working Temp.	-40°C~70°C			
Interface				
LAN Interface	*1			
Serial Interface	RS232*1 (Or TTL)			
Video Interface	Mini HDMI*1			

Panel Description

- 1. MESH antenna interface-2, SMA F
- 2. WIFI/LoRa antenna interface, SMA F
- 3. HDMI input interface, Mini HDMI
- 4. GPS antenna interface, SMA F
- 5. MESH antenna interface-1, SMA F
- 6. Mounting hole x4
- 7. LAN/TTL interface

4W Long Distance Long Range Transmission 56Mbps GPS/Bd Positioning 8 Properties (XT60)

9. Signal Indicator

SNR	Link Quality	Торо	logy Color
SNR ≥ 17	Excellent	Deep	Green
12 ≤ SNR < 17	Good	Light	Green
7 ≤ SNR <12	Fine	Yello	w
2 ≤ SNR <7	Medium	Oran	ge
-10 < SNR <2	Bad	Red	
SNR = -10	Disconnected	N/A	

4W Long Distance Long Range Transmission 56Mbps GPS/Bd Positioning D#Whed/igdistance/Rading Range Transmission 56Mbps GPS/Bd

Company Profile

Zhongke Lianxun (Shenzhen) Technology Co., Ltd. was founded in 2005 and specializes in the research and development of products related to drone defense and control, wireless video transmission, and network security encryption and decryption. With a commitment to high quality and cutting-edge technology, we deliver comprehensive network communication solutions to our clients. Our team of chief scientists, led by professors from the Network Security Institute at Wuhan University, has made significant advancements in developing man-in-the-middle platforms for enhancing network security.

Currently, our offerings include platforms such as a drone denial system, long-range wireless video transmission for drones, a network encrypted data analysis platform, an IPSEC man-in-the-middle platform, and an SSH man-in-the-middle analysis platform. We also provide design and development services for big data collection and analysis products tailored for large enterprises and institutions with confidentiality requirements. In addition, we sell network security equipment and offer technical services in information security. Our products are extensively utilized by law enforcement agencies and government bodies, including public security, armed police forces, units, forest fire prevention teams, civil air defense organizations, and maritime

authorities. 4W Long Distance Long Range Transmission 56MMMV CORO BuisRovatiolog PhamgeVTdansDrissiBnaci6MMMV CORO BuisRovatiolog PhamgeVTdansDrissiBnaci6MMMV CORO BuisRovation BnamgeVTdansDrissiBnaci6MMMV CORO BuisRovation BnamgeVTdansDrissiBnaci6MMV CORO BnamgeVTdansDrissiBnaci6MMV C

4W Long Distance Long Range Transmission 56Mbps GPS/Bd Positioning Drone Video Data Radio

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FAQ

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