

5-15km 300mW 30Mbps Portable Drone Airborne Video Image Transmitter

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKManet
- Certification: CE, ISO9001
- Model Number: ZKManet2421UM
- Minimum Order Quantity: 1 piece
- Price: USD 1999~4999
- Packaging Details: carton
- Delivery Time: 3-7 work days
- Payment Terms: T/T, Western Union
- Supply Ability: 10000 pieces per year



Product Specification

- Frequency: 806~826MHz 1428~1448MHz 2401~2481MH
- RF Bandwidth: 1.4MHz/3MHz/5MHz/10MHz/20MHz
- RF Channel: 1T2R
- Output Power: 300mW
- Max Throughput: Max 30Mbps@20MHz
- Modulation: BPSK, 16QAM And 64QAM (TDD-OFDM)
- Networking Mode: One-to-one And One-to-many (one To Sixteen Max)
- Serial Port: 1x UART Port (TTL232)



More Images



Product Description

I. Produce Introduction

The ZKManet2421UM is a miniature OFDM IP radio that operates in the 800MHz, 1.4GHz and 2.4GHz frequency bands with frequency hopping spread spectrum (FHSS) to ensure good stability even in fast-moving situations. It supports data rates up to 30Mbps and air-to-ground range up to 5-20km, which is ideal for long range and high data stream wireless transmission applications such as surveillance/UAV/USV/robotics etc.



II. Product Features

* Up to 5-20km LOS (air-to-ground)

- * AES128 encryption (user-defined)
- * TDD-OFDM modulation
- * Compact size and light weight
- * Rugged aluminum alloy housing
- * Max 30Mbps@20MHz throughput
- * IP data transparent transmission
- * 1.4/3/5/10/20MHz five channel bandwidths
- * Supports one-to-one and one-to-many transmission
- * Supports FHSS inside each band and across bands
- * Supports 800MHz, 1.4GHz, 2.4GHz frequency hopping transmission

III. Product Details



- a. ANT2 Port - Auxiliary antenna, works as auxiliary receiving, NO transmitting.
b. ANT1 Port – Main antenna, work mode is TDD transmitting/receiving.

IV. Product Parameters

Item	Parameters
Frequency	806~826MHz, 1428~1448MHz, 2401~2481MHz
RF Bandwidth	1.4MHz/3MHz/5MHz/10MHz/20MHz
RF Channel	1T2R
Output Power	25dBm±2
800MHz Sensitivity	10MHz:-103dBm
	5MHz:-104dBm
	3MHz:-106dBm
1.4GHz Sensitivity	10MHz:-103dBm
	5MHz:-104dBm
	3MHz:-106dBm
2.4GHz Sensitivity	20MHz:-99dBm
	10MHz:-103dBm
	5MHz:-104dBm
	3MHz:-106dBm
Max Throughput	Max 30Mbps@20MHz
Modulation	BPSK, 16QAM and 64QAM (TDD-OFDM)
Networking Mode	One-to-one and one-to-many (one to Sixteen max)
Serial Port	1x UART Port (TTL232)
Baud Rate	115200bps
Video Input	IPCam
Channel Latency	10ms
Movement Speed	Supports no less than 120km/h
Power Input	12VDC (7V-30V)
Working Current	≤0.5A
Power Consumption	<6W (3.7W@7V, 4.37dBm@30V)
Working Temp.	-20°C ~ +55°C

Storage Temp.	-40°C ~ +65°C
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V. Packing List

For reference only, subject to change for each project.

Item Name	Description	Qty
TX	Transmitter (Access Node)	1
RX	Receiver (Central Node)	1
Whip Antenna	1.4GHz, 2dBi, SMA Male	2
FRP Antenna	1.4GHz, 5dBi, N type Male	2
Ethernet Cable	4-pin to RJ45, 2m	2
Extension Cable	SMA M to SMA F, 30cm	2
Extension Cable	SMA M to Type N F with flange, 50cm	2
TTL 3-pin Cable	TTL 3-pin to 3-pin cable, 10cm	2
Power Supply	12V/1A DC power supply	2

VI. Applications



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