4W AES256 82Mbps 350MHz-4GHz Customizable IP66 Manpack IP MESH Video Transmitter

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ZKManet
- Certification: CE, ISO9001
- Model Number: ZKManet-2251UM
- 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: 350MHz-4GHz Customizable
- Default Frequencies: 1400MHz-1460MHz
- Channel Bandwidth: 2M/5M/10M/20MHz/40MHz
- Output Power: 36dBm (4W MIMO 2x2)
- WIFI: 2.4G WIFI (2x100mw)
- Modulation Type: DSSS/CCK BPSK/QPSK OFDM BPSK/QPSK/16-QAM/64-QAM
- Digital Sensitivity: -97dBm Max
- Transmission Rate: Up To 82Mbps
- Network Capability: 9 Hops And No Less Than 64 Nodes

More Images

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Product Description

I. Product Introduction

The ZKManet-2251UM is a rugged IP66 bodypack metro transceiver with a rugged design. With 4 watts of output power and a twist-lock battery for easy replacement, it is ideal for a variety of mesh deployments such as public safety, armed police, fire control, and robotics. Its multi-hop capability dramatically increases transmission distance, covering 1-2 kilometres of non-line-of-sight (NLOS) per hop. Data rates of up to 82Mbps make it easy to transmit video, data and audio simultaneously, and AES256 encryption technology ensures secure data transmission.

II. Product Features

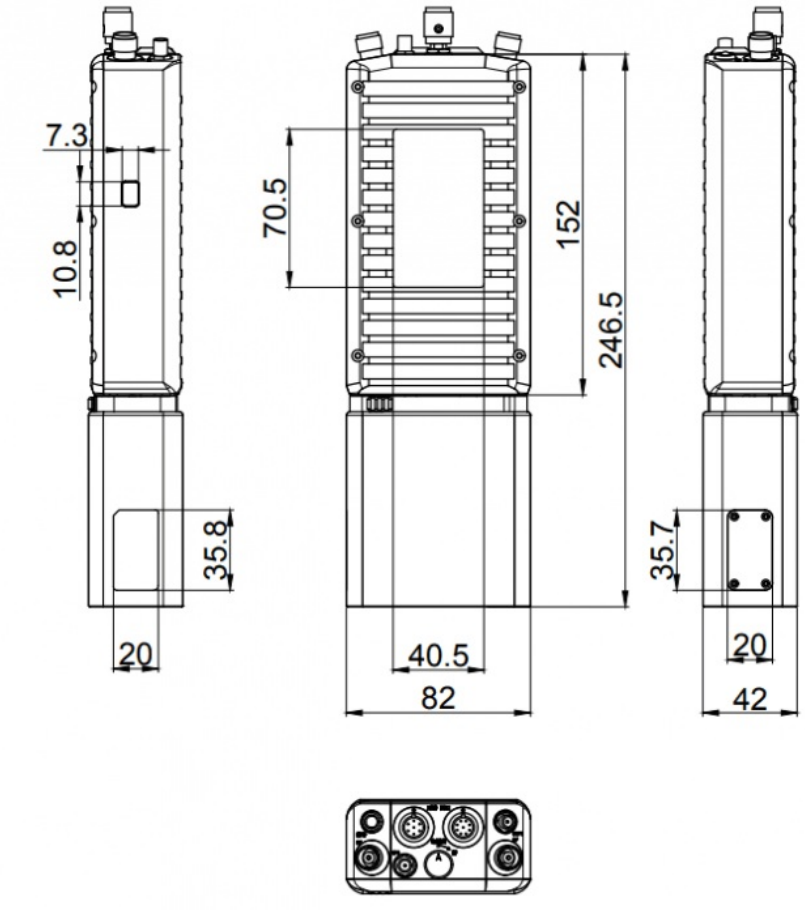
* Frequency 1400MHz-1460MHz (562-612MHz)
* Flexible networking, rapid deployment
* Data rate up to 82Mbps
* Range up to 1-2km NLOS
* Full duplex bidirectional & IP transparent data transmission
* Supports 2.4G WIFI connection
* With LCD to show the device parameters in real time
* tri-proof design, IP66 protection level with high reliability

III. Product Parameters

Transmission Characteristics	
Frequency	350MHz-4GHz customizable
Default Frequencies	1400MHz-1460MHz
Channel Bandwidth	2M/5M/10M/20MHz/40MHz
Output Power	36dBm (4W MIMO 2x2)
WIFI	2.4G WIFI (2x100mw)
Modulation Type	DSSS/CCK BPSK/QPSK OFDM BPSK/QPSK/16-QAM/64-QAM
Digital Sensitivity	-97dBm Max
Transmission Rate	Up to 82Mbps
Network Capability	9 hops and no less than 64 nodes
Electrical Characteristics	
Working Voltage	DC18.5V
Power Consumption	≤12W
Battery	48Wh
Physical Characteristics	
Weight	≤1.2kg (w/ battery)
Dimensions	246.5*82*42mm (w/battery)
IP Rating	IP66
Storage Temp.	-45℃~85℃
Working Temp.	-20℃~65℃
Working Humidity	5%-95% (Non-Condensing)

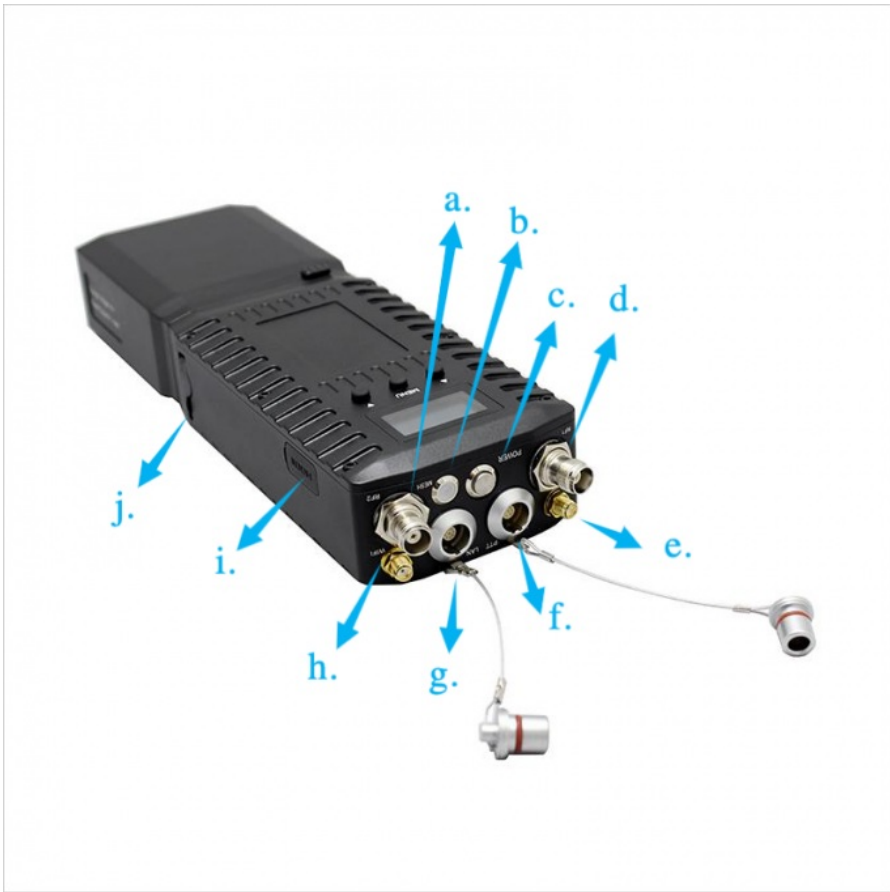
IV. Products Details

Dimensions



Panel Description

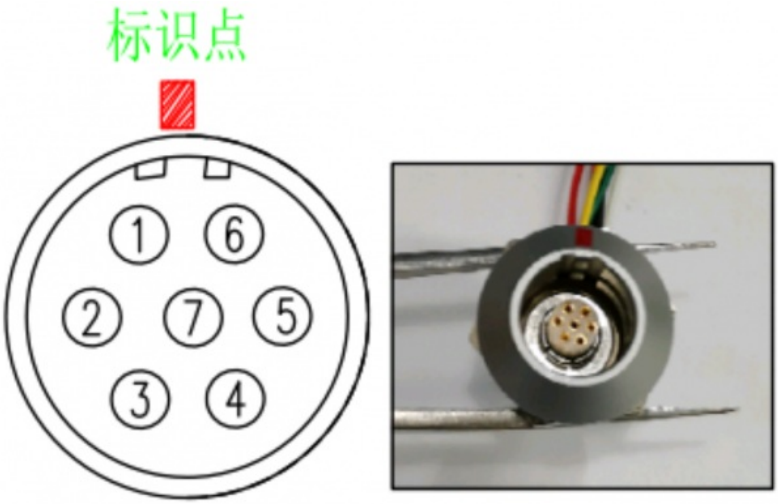
n **Front View**



a. MESH antenna interface-1
b. Signal Indicator

Indicator Status		**Signal Strength**	
Red flickers		No device connected	
Red still		Weak signal	
Orange still		Medium signal	
Green still		Strong signal	
SNR	**Indicator Color**	**Topology Color**	**Topology Value**
0	Red flicker	Red	0
-90	Red still	Red	-90
-75 to -90	Orange still	Orange	-75 to -90
-75	Green still	Green	-75

c. Power push button
d. MESH antenna interface-2
e. GPS/BD antenna interface
f. Mic input interface



PIN Number	**Pin Definition**	**Internal Cable Color**
1	PTT	Blue
2	MIC (50mVpp)	Green
3	GND	Brown
4	N/A	Yellow
5	N/A	White

6	N/A	Red
7	L-Out (1.5Vpp)	Black

g. LAN input interface (9-pin LEMO connector), pin-1234 equals RJ45 pin-1236 (Tx+, Tx-, Rx+, Rx-), and Pin-5678 equals RJ45 pin-1236 (Tx+, Tx-, Rx+, Rx-).
h. WIFI antenna interface
i. HDMI input (mini HDMI interface)
j. Main body power input port

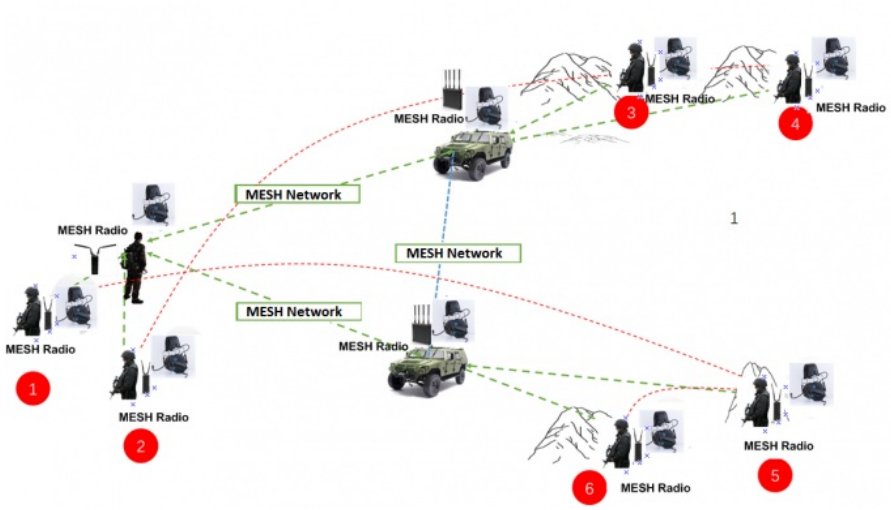
n **Rear View**

a. a.3.5mm audio interface
b. Configuration buttons (optional) – set frequency, bandwidth and distance parameters.
c. Battery locker - push to remove battery
d. Battery indicator
e. Battery charging port

V. **Packing Content**

Item Name	**Description**	**Qty**
MESH network backpack radio	ZKManet-2251UM	1
MESH Antenna	TNC header, 2dBi gain	2
WIFI Antenna	SMA header	1
GPS Antenna	SMA header	1
Chargers	21V3A	1
Network connection cable	9 pole Remo header to network interface	**1**
toast mike	7 pole Remo header	1

VI. **Applications**



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