

# ZXIMCU sMesh750

## Broadband Mesh Fixed Device



The sMesh ("s" is smart, means highly flexible) broadband ad hoc products, based on LTE, combine mature OFDM technology with flexible channel coding. They feature optimized designs for the physical layer and data link layer, while inheriting the excellent RF (radio frequency) performance of carrier-grade products. This ensures the products' stability, reliability, and adaptability to harsh environments.

# Features

- **One Device, Multiple Usages**

Can be fixedly installed outdoors, or mounted on vehicles (ships, aircraft).

It can be flexibly and quickly deployed as needed.

- **Diversified Services**

Support voice, data, positioning, video, etc.

Support VPN transmission, interconnection with systems like satellites, public networks and so on.

- **Flexible Networking**

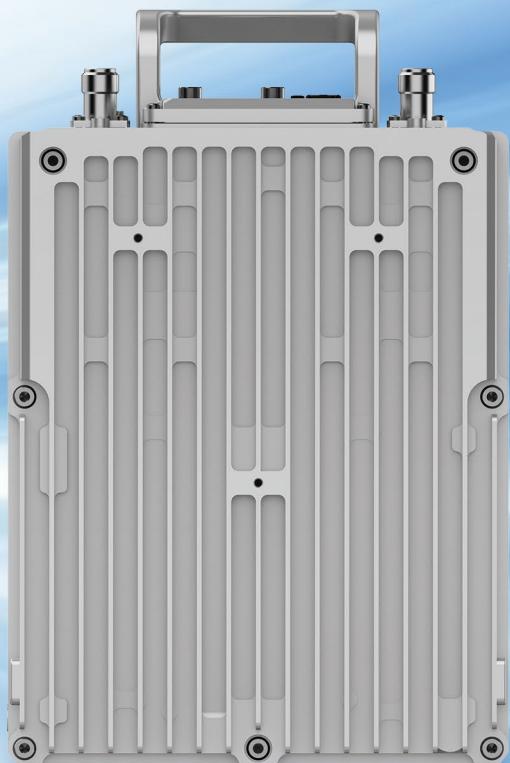
Ad hoc networking, with flexibly configurable carrier bandwidth.

Support any network topology such as point-to-multipoint, chain relay, mesh, and hybrid structures, as well as multi-hop relaying and forwarding.

- **Easy Management**

With professional dispatching and management tools, it can monitor the working status of devices at each node, wireless link quality in real-time, and view GIS positioning information, etc.

## Product Views



# Industry Applications



Forest Fire Fighting



Fire Fighting and Rescue



On-site Rescue for Natural Disasters



Chemical Park



Security for Major Events



Maritime Communication



Coverage along the Power Grid



Public Safety

# Accessories

## Standard



Power Cord (Fixed)



Aviation Plug Network Cable

## Optional



Airborne Antenna



Gooseneck Antenna



Air Tube Earphone



Wi-Fi Antenna



GPS Module



HDMI Encoder



USB HD Camera



PAD Dispatch Console



Laptop Dispatch Console



Adapter



Aviation Case

Vehicle-mounted/  
Fixed Antenna

# Specifications

General		⊕
Frequency	1.4GHz, Other bands customizable	
Protocol	TDD	
Transmission	COFDM	
Bandwidth	1.25MHz/2.5MHz/5MHz/10MHz/20MHz	
Transmitting Power	2×10W	
Receiving Sensitivity	≤-103dBm	
Path	2 paths, 2T2R	
Data Rate	≥50Mbps, MIMO≥90Mbps	
Networking	Ad hoc network	
Ad Hoc Network Maximum Nodes	More than 64 nodes	
Hop	Suggest≤9 hops	
Encryption	DES/AES256	
Physical		⊕
Dimensions	270mm×212mm×110mm (Without handle)	
Weight	About 6kg	
Port	Network port: data transmission and network management, aviation plug structure Wi-Fi(SMA): connect Wi-Fi antenna RF(N): connect RF antenna GPS: GPS antenna, aviation plug structure Power port: external power supply, aviation plug structure	
Electrical		⊕
Power Supply	DC input: 12 - 60V DC, Suggest 48V DC	
Environmental Conditions		⊕
Operating Temperature	-40°C~ +60°C	
Storage Temperature	-50°C~ +70°C	
Air Pressure Range	70 ~ 106 kPa	
Dust and Water Resistance	IP67	
Seismic Strengthening	GB/T 4798.7-2007 (Part 7: Portable & Non-stationary Use, Above Grade 7M2)	
System Extension (Optional)		⊕
Extended Network Access	Support public 4G network, optical port extension	
External Video Access	Support HDMI external video access, realize the external video backhaul	
Screen	1.7-inch, TFT LCD, show device status, link status, and straight-line distance to adjacent device, etc. Support quick configuration via the screen and buttons	

General Disclaimer:  
 The specifications in this document are in accordance with the applicable standard test.  
 Due to the continuous technology development, Caltta may change the specifications without prior notice.

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