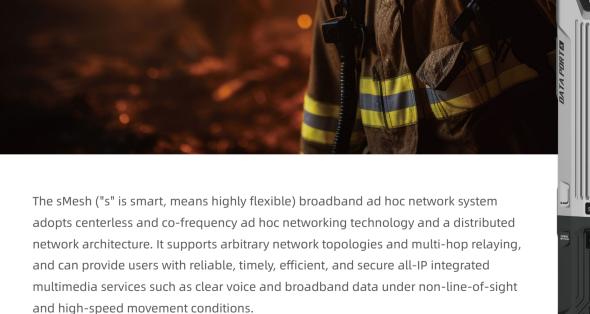


ZXIMCU sMesh150 Broadband Mesh Individual Device

Portable Design, Connectable Anytime & Anywhere



- Quick Startup,
 Second-level Connection
- Diversified Services,
 Easy Management
- Multi-purpose, Flexible Deployment
- Professional Design,
 Smaller and Lighter

Features

High Communication Capability **Excellent Performance**

 Adopt an advanced SDR architecture, based on carrier-grade LTE technology, and combine mature COFDM technology with flexible channel coding, thus achieving excellent transmission performance. The single-hop throughput rate can reach 90Mbps, and the single-hop communication distance can reach 100km.

Flexible Ad Hoc Networking **High Communication Anti-destruction**

• Support more than 64 nodes, with automatic link switching between remaining nodes if one goes offline to ensure anti-destruction. Its anti-interference mechanism enhances data transmission reliability under severe interference. Nodes moving faster than 300km/h maintain connections without packet loss, leaving services unaffected.



Video Dispatch

Multiple Optional Functions Meet the Needs of Different Scenarios

 Support optional adaptive frequency selection, space division multiplexing, and MIMO functions, enhancing link stability and reliability.
 Optional device silence and frequency hopping functions improve the communication security of the system.

Strong Expandability Abundant Interfaces and Accessories

 Support standard Ethernet and Wi-Fi interfaces, enabling IP data communication between nodes with non-differentiated transparent transmission, and interconnects with satellite, public/private networks, LTE systems, etc. The device can connect to HDMI modules, USB cameras, handset/shoulder microphones, with strong functional expandability and audio-visual capabilities.



Position Dispatch

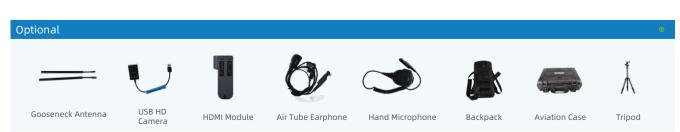


Industry Applications



Accessories





Specifications

General	0
Frequency	1.4GHz, Other bands customizable
Protocol	TDD
Transmission	COFDM
Bandwidth	1.25MHz/2.5MHz/5MHz/10MHz/20MHz
Transmitting Power	2×2W
Receiving Sensitivity	≤-103dBm
Data Rate	≥50Mbps, MIMO≥90Mbps
Networking	Ad hoc network
Ad Hoc Network Maximum Nodes	More than 64 nodes
Нор	Suggest≤9 hops
Encryption	DES/AES256
Public Network	public network 4G
Path	2 paths, 2T2R

Environmental Co	onditions	•
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)	

Basic	Functions		
Data		Support IP data transmission	
Voice		Support voice calls	
Image		Realize image transmission via external camera or HDMI module	
Positio	on	GPS	
Wi-Fi		Support Wi-Fi	

Physical		•
Dimensions	About 265mm×98mm×43mm	
Weight	About 1.2kg	
Port	Network port: data transmission and network management Wi-Fi port: Wi-Fi Antenna Voice port: headphone (18PIN) Video port: external camera (18PIN) RF port: RF antenna GPS port: GPS antenna Switch: main power switch	

System Managem	ent o
Unified Network Management	All nodes management, supports structures such as point-to-point, point-to-multipoint, chain, mesh, and hybrid topologies.
	Support check the communication quality between nodes in real time.
Management	Support the frequency scanning and allow real-time monitoring of interference in the frequency.
	Support GIS map positioning, allowing real-time viewing of the location of each node.
Flectrical	

Electrical		•
Power Supply	With a 6500mAh detachable battery, also support external power supply. Adapter: 100-240VAC 50/60Hz DC input: 12VDC	
Working Time	6 hours	

System Extension (Optional)	
Functional Extension	Support optional adaptive frequency selection, space division multiplexing, MIMO, device silence, and frequency hopping.
Accessory Extension	Support optional accessories such as HDMI module, USB HD camera, headset/hand microphone, etc.

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.











