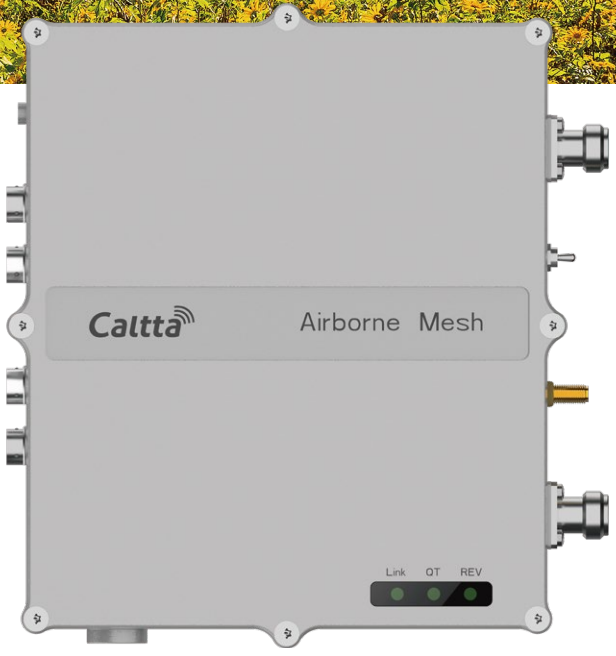
ZXIMCU sMesh720

Broadband Mesh Airborne 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 used on board, on vehicles, or in fixed locations, and can be deployed flexibly as needed.

- ## Diversified Services

  Support voice, data, positioning, video, etc. Support VPN transparent transmission, interconnection with systems like satellites, public networks and LTE base stations.

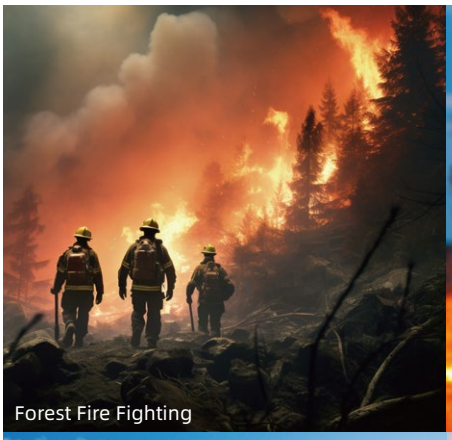
- ## Flexible Networking

  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 relay 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.

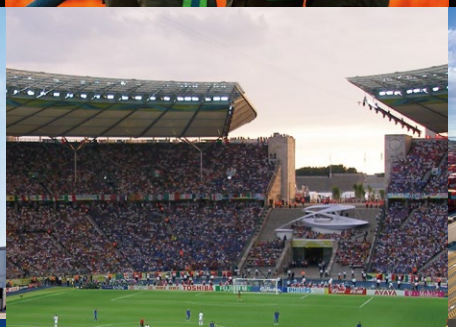
Industry Applications

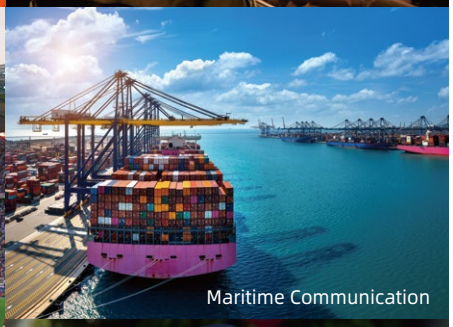

Forest Fire Fighting


Fire Fighting and Rescue

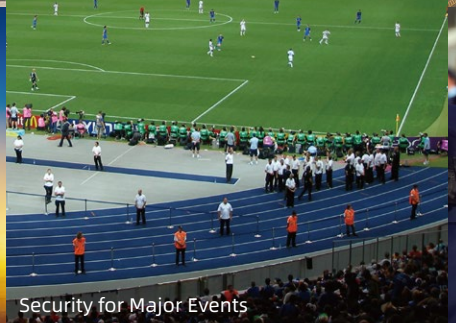

On-site Rescue for Natural Disasters


Chemical Park




Maritime Communication


Coverage along the Power Grid


Security for Major Events

Public Safety

Accessories

Standard


Power Cord (Fixed)


Aviation Plug Network Cable

Optional


Airborne Antenna


Wi-Fi Antenna


GPS Module


HDMI Encoder


USB HD Camera


PAD Dispatch Console


Laptop Dispatch Console

Specifications

General

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
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	215mm×185mm×46mm (Without connector)
Weight	About 1.5kg
Port	Network port: data transmission and nerwork 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	Adapter: 100~240V AC 50/60Hz DC input: 27~36V 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)

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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