



ZXIMCU P300

Manpack LTE Emergency Command System

ZXIMCU P300 Manpack LTE Emergency Command System highly integrates the baseband unit, radio remote unit, core network and multimedia dispatch server. It quickly implements the on-site deployment of an LTE emergency network and provides rich LTE-based services such as professional trunking voice, multimedia dispatch, real-time video transmission, GIS location, and audio/video full duplex calls. The system supports various backhaul modes such as satellite, mesh, optical fiber, microwave and public networks.



Highlights



Compact and Portable

Weighing under 10 kg (without battery). Fits into a specialized backpack and can be carried easily by a single operator.



High Performance

Self-developed MCS system chip, greatly enhancing processing capacity.



Rapid Deployment

One-click power on, no configuration required, network deployment completed in 5 minutes.



Rich Terminal Types

Supports portable, manpack device, UAV, dome camera, etc.



Multiple Power Supply Modes

Integrated battery, external battery, external AC power supply.



Green and Energy-saving

Adopts high-efficiency Doherty power amplifier technology to reduce the power consumption.



Simple Operation

Configure parameters right on the built-in display, and dispatch directly from PAD console.



High Adaptability

IP67, vibration-resistant, -40°C~+60°C operating range—built for extreme environments.



One-click Switch of Networking Mode

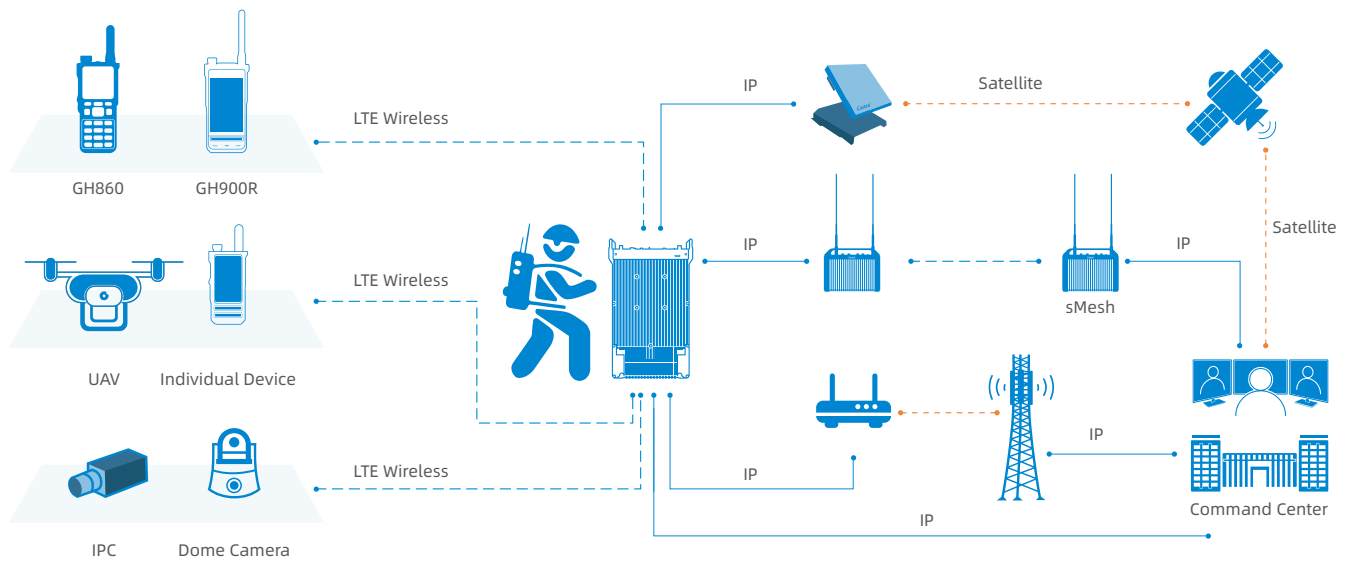
One-click switching between multi-site networking mode and single-site networking mode.



Rich Services

Supports professional trunking voice, video transmission and forwarding, SMS/MMS, GIS positioning, and audio/video recording.





Scenarios



Specifications

General

Operating Frequency (optional)	1.4GHz: 1447MHz~1467MHz 1.8GHz: 1785MHz~1805MHz 500MHz: 566MHz~626MHz
Bandwidth	5MHz/10MHz/15MHz/20MHz
Technology	LTE
Transmitting Standard	B-Trunc
Time Slot Ratio	Support 1:3,2:2,3:1
Transmitted Power	2x5W (1.8G) , 2x10W (500M/1.4G)
Number of Paths	2 paths, 2T2R
Uplink/downlink Speed	28 /100Mbps
Dispatch and Transmission Port	IP Ethernet Port
Clock Synchronization Mode	BDS/GPS/1588V2
CN Throughput	0.8Gbps
PTT Call Establishment Time Delay	< 300ms
Max. User Number	500
Max. Group Number	100
Max. Online PTT Call Number	256
Max. Connected Station Number	10

Physical

Size(HxDxW)	470mmx280mmx102mm (with battery and without handle) 505mmx305mmx102mm (with battery and handle)
Weight	<10kg (without battery), < 13kg (with battery)
Power Supply	Integrated Battery:4-6 Hours External AC Power Port
Operating Temperature	-40°C~+60°C
Storage Temperature	-50°C~+70°C
Air Pressure Range	70~106 kPa
Dust and Water Resistance	IP67
Anti-vibration Reinforcement	Higher than class 7M2 in GB/T 4798.7-2007 Environmental conditions existing in the application of electric and electronic products-Part 7: Portable and non-stationary use
Display & Operation	Highlight LCD & control rotary knob, inquire and modify the primary wireless parameters; support the PAD dispatch console connected through Wi-Fi
O&M	Support remote upgrade and fast launch through USB drive

Others

Channel Sharing	Trunking downlink channel sharing improves usage ratio of frequency resource
MIMO	Support 2x2 MIMO,improve frequency bandwidth and coverage capability
Multiple Signal Carriers	Support multiple signal carriers,improve system capacity
RF High Performance	CFR/DPD, improve signal quality Doherty, make high efficient power amplifier
Networking	Support networking for several P300 systems
Interconnection	Support interconnection with PSTN, PLMN, PDT, private LTE, etc.

Dispatch Console

Multimedia Dispatch Console	Laptop, reinforced laptop, reinforced PAD, professional dispatch software
-----------------------------	---

Terminal

Handheld Radio	GH900R, GH860
Portable Dome Camera	HD Dome Camera, CPE, IP Camera
Portable Terminal	Manpack device, video access gateway

Antenna

Manpack omnidirectional antenna	Small size and connect with P300 directly,suitable for short distance coverage
Portable omnidirectional antenna	Small volume and coordinate with portable mast, suitable for long distance coverage

Accessories

Portable Mast	3-meter fiber portable mast, weighs less than 10kg (with antenna, feeder cable, land fixation).
Portable Backpack	Used to carry the system, comfortable and good looking
Portable Case	Portable protective draw-bar suitcase, used to package and protect while transporting and transferring

Supported Services

Voice/video group call, voice/video private call, emergency call video push, video transfer, text message/media message, video record, dynamic group gis location, dispatch on map,track playback, floor management, priority call late entry, forced insertion/forced release, remote kill/remote stun/revive, trunking call and data concurrency.

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.

Caltta CALTTA TECHNOLOGIES CO.,LTD.

Address: 12F/Building G2, International E-City, Nanshan, Shenzhen, China

Web: <https://en.caltta.com>

E-mail: sales@caltta.com

Post: 518052



Privacy Statement: Caltta Technologies is a leading provider of comprehensive critical communication solutions and committed to protecting personal data in accordance with applicable laws and regulations and with technologies including anonymization and data encryption and necessary security management measures.