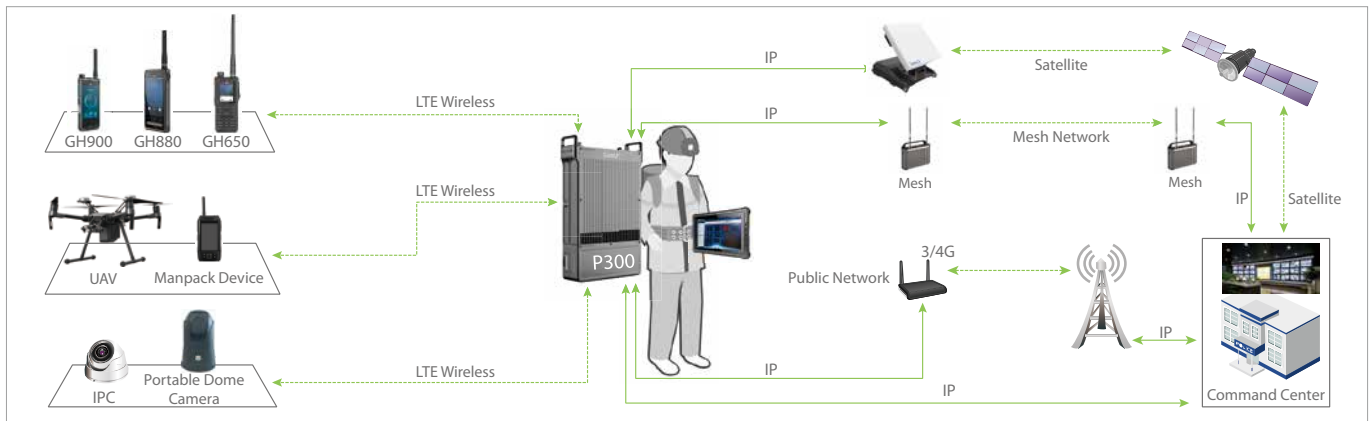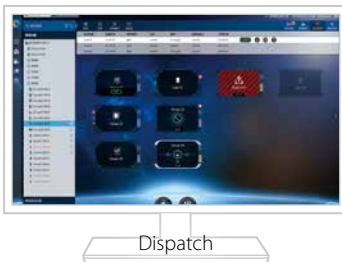# ZXIMCU P300 Portable Emergency Command System

Caltta

ZXIMCU P300 Portable Emergency Command System highly integrates base-band unit,radio unit,core network and multimedia dispatch,quickly implement the on-site deployment of LTE emergency network,provides rich services LTE-based such as professional trunking voice,multimedia dispatch,real-time video transferring,GIS location,audio/video full duplex conversation etc.,widely adopted in emergency treatment sectors such as forest fire protection,fire emergency,earthquake disaster rescue,production safety,government affairs network blind spots coverage. The system supports various backhaul modes such as satellite,Mesh,optical fiber,microwave and public network etc.

Tri-screen Dispatch

Dispatch

Location

Video

GH900 GH880 GH650

LTE Wireless

UAV   Manpack Device

LTE Wireless

IPC   Portable Dome Camera

LTE Wireless

P300

IP

IP

IP

Satellite

Mesh Network

Mesh   Mesh

Public Network

3/4G

IP   Satellite

IP

IP   IP

Command Center

Small in Size & Light Weight

The weight with the battery is less than 10kg. equipped with backpack, Carriable by one single person.

Diverse Terminal Range

Support handheld, manpack device,UAV, portable dome camera, intelligent glasses, etc.

One-press to switch networking mode

One press to switch between multiple stations networking mode and single station isolated mode.

Quick Deployment

One-press Startup, does not require additional configuration, deploy the network within 5 minutes.

Environment Friendly

Reduce power consumption through adopting Doherty high power amplifier technology

Rich Services

Support professional trunking voice, video transferring, video forwarding, text message, media message, GIS location, audio/video record and playback, etc.

High Performance

MCS system chipset developed by ZTE,which improves greatly processing capacity

Easy to Operate

With display, modify transmitted power and working frequency through rotating the knobs. Support PAD dispatch console.

Multiple Power Supply Modes

Integrated battery, external battery, External AC

Highly adaptive

IP67 water and dust proof, high shock resistance performance, -40℃~+55℃ operating temperature. Adapt to various extreme scenarios

Technical Specifications

General	Operating Frequency(optional)	1.4GHz：1447Mhz~1467Mhz 1.8GHz：1785MHz~1805MHz 500MHz：566MHz~626MHz
	Bandwidth	5MHz/10MHz/15MHz/20MHz
	Technology	TD-LTE
	Transmitting Standard	B-TrunC
	Time Slot Ratio	Support 1:3,2:2,3:1
	Transmitted Power	2×5W / 2×10W
	Number of Paths	2 paths, 2T2R
	Uplink/downlink Speed	50/100Mbps
	Dispatch and Transmission Port	IP Ethernet Port
	Clock Synchronization Mode	Support 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)	465mm×270mm×104mm
	Weight	<10kg(with Battery)
	Power Supply	Integrated Battery:4-6 Hours External AC Power Port
	Operating Temperature	-40℃~+60℃
	Storage Temperature	-50℃~+70℃
	Air Pressure Range	70~106 kPa
	Dust and Water Resistance	IP67
	Anti-vibration Reinforcement	Higher than class 7M2 in GBT 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 2×2 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	GH900、GH880 GH650、GH360
	Portable Dome Camera	HD Dome Camera,CPE,IP Camera
	Portable Terminal	Manpack device,video access gateway
Antenna	Manpack omni-directional antenna	Small size and connect with P300 directly,suitable for short distance coverage
	Portable omni-directional antenna	Small volume and coordinate with portable mast,suitable for long distance coverage
Accessories	Portable Mast	3 meter fiber portable mast,weights less than 10 kg(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