

Hytera Mesh Solution



Industry Challenge

Isolated Area

Harsh Environment

Limited Resources

Multi-Media Data

Limited Time

Move Frequently

Rapid LTE Solution



Video/Voice

- Full/half-Duplex Private Call
- Group Call
- Emergency Call
- Video Push/Pull

Data

- Point to Point SDS/MMS
- Point to Multipoint SDS/MMS
- Status Message

Dispatch

- Dynamic Group
- Broadcast Call
- Visualized Dispatch
- GIS locating & tracing

Highlights

Fast Deployment

- Service pre-configured, power on and ready to go

Mobile Connection

- Stable Mobile link at 120km/h

Reliability & Robust

- IP67 Design / MIL-STD-810G

Wide coverage

- Long range link: 10km per link
- Short range link: 1km per link

High throughput

- 30Mbps @ 10MHz bandwidth
- 15 concurrent H265 FHD streams

High Security

- AES 128/256
- 3rd party E-to-E encryption

Applications



Public Security

On the field, Mesh can coverage the special area and provide communication service and help commander control the field person and vehicle.

Disaster Rescue

In disasters such as earthquakes and floods, the public network may fail. The Mesh system can provide emergency communications for first responder.

Firefighting

The Mesh can quickly provide a broadband communication in big building or forest, with HD camera can make commander catch video and control the scene.

Military Scouting

With ad-hoc network, Mesh can give broadband link between command post and battlefield, scout will send back all the collection information.

VIP Escorting

Mobile communication ability support a all time broadband communication, make sure the VIP are in the monitoring.

iMesh-3800V iMesh Vehicle Node



The iMesh-3800V vehicle node features fast deployment, flexible networking, and easy operation. The iMesh-3800V is typically mounted on the pole to provide critical transmission links for long-distance and large-capacity communication.

Item	Specifications
Dimensions	330mmx240mmx114mm
Weight	7.5Kg
IP rating	IP67
Power consumption	<75W, 45W
Operating temperature	-40°C ~ +65°C
Frequency	320MHz-344MHz, 542MHz-582MHz
TX power	2*5W
Adjust step size	1dBm
Bandwidth	10MHz, customizable
RX sensitivity	≤-105dBm@10MHz
Antenna configuration	2T2R (MIMO)
Power interface	+12V ~ +24V DC
Nodes	8

iMesh-3800P iMesh Backpack Node



The iMesh-3800P backpacked node is easy to use and carry and supports flexible networking. With typical manpack deployment, the iMesh-3800P can provide critical transmission links for long-distance and large-capacity communications.

Item	Specifications
Dimensions	266mmx206mmx87mm
Weight	5kg(battery)
IP rating	IP67
Power consumption	20W(Typ.)
Operating temperature	-40°C ~ +65°C
Frequency	320MHz-344MHz, 542MHz-582MHz
TX power	2*2W
Adjust step size	1dBm
Bandwidth	10MHz, customizable
RX sensitivity	≤-105dBm@10MHz
Antenna configuration	2T2R MIMO
Power interface	+12V DC
Network interface	RJ45*2 (LAN1&LAN2)
GNSS interface	SMA
Nodes	8

PNE380 Multi-mode Mesh Radio



PNE380 frees up valuable space and weight for extreme portability. Configured with multi-band, PNE380 has the outstanding anti-jamming ability by auto frequency selection. It supports both mesh and cellular modes for improved flexibility, and can be widely applied to a variety of mission-critical scenarios.

Item	Specifications
Frequency	340MHz/580MHz, 1.4G
RF channel	U: 1T1R; L: 1T2R
Transmit power	0.5W(type), 0.75W(MAX)
Sensitivity	U: ≤-99dBm @ 10MHz L: ≤-102dBm @ 10MHz
Bandwidth	10MHz, 3MHz, customizable
Throughput	30Mbps(10MHz)
Interactive plan	OLED display
Dimensions	137.5 mmx60 mmx27.8mm
Weight	350g
Peripheral interface	WiFi, BlueTooth, USB, HDMI, GE
Battery capacity	Standard: 2400 mAh(7.4V)
Power consumption	3.5W(typ.)
Operating temperature	-20°C ~ +55°C
Working humidity	5%RH~100%RH
IP rating	IP67

Rugged Laptop-e-Center



E-center is an on-site command and dispatching center. The three-screen design integrates command and control, map and video surveillance to provide the most comprehensive information as possible in a visual way. It also supports multiple links to interconnect and cooperate with the rear command center. E-center can be used as the on-site command center in various emergencies such as fire fighting, flood, earthquake and typhoon etc.

Item	Specifications
Battery voltage	Reted 14.8V
Charge time	2h 80%, 3h 100%
Operating time	4 hours
CPU	Intel i7-6600U, dual core 4threads, 2.6GHz, RAM 24G, hard disk 1T
LCD	1920x1080, 15.6-inch, 3 pieces
Dimensions	48.5x35.6x16cm(LxWxD)
Weight/kg	15kg(including battery)
Operating temperature	-10°C to +50°C
Port	HDMI(Maximum 1920x1080,1 way); Usb3.0(4 pieces)
SIM card holder	Standard SIM card
WAN port	10/100M
LAN port	100/1000M
PoE	802.3af PoE, 4ways, a single way up to 25W

Body Worn Camera VM780



- On-site Real-time Video & Audio Streaming
- H.265 Video Compression Technology
- 216° Rotatable Camera
- Audio Group Call
- Long Battery Life
- Reliable & Rugged Design
- High Security Data
- Loud Audio

	Item	Specifications
General	memory	RAM: 2GB; storage: 16GB/32GB/64GB/128GB
	Dimensions(HxWxD)	114.5mmx61mmx25.5mm
	Weight (including battery)	<195g (2500mAh), <205g (3500mAh)
camera	Field of View	Diagonal 116°, horizontal 101°, vertical 57°
battery	Battery Life (continuous video shooting)	8 hours@1080P video shooting
	Battery Capacity	2500mAh/3500mAh
	Charging Time	<4 hours
Display	Size	2.8-inch
	Resolution	240*320 QVGA
Recording	Video Format	mp4 (1080P@30FPS, 720P@30/60FPS, 480P@30FPS)
	Video Encoding	H.264/H.265
Audio	Speaker Power	1.5 Watt*2
	Microphone	Dual microphones
connction	Wi-Fi	802.11 b/g/n
	BT	BT4.2
Environmental Specification	Connector	Micro USB port, 4-pin contact port
	Ingress Protection	IP68
	Drop Resistance	2 m
Night Vision	Operating Temperature	-30°C to +60°C
	Certification	MIL-STD-81 OG, CE, FCC, IC
Positioning	IR Lamp	OSRAM*6
	Night Vision Range	<10m
Network	Satellite Positioning	GPS/BDS/GLONASS/AGPS
	3G/4G (Nano SIM Card)	<p>Europe: GSM: 850/900/1800/1900 TD-SCOMA: B34/B39 CDMA:BCO</p> <p>Asia-Pacific & Africa: GSM: 850/900/1800/1900 TD-SCOMA: B34/B39 CDMA:BCO</p> <p>America: GSM: 850/1900 WCDMA: 82/84/85 TDD-LTE: 838/840/841 FDD-LTE: 813/817 /826/827</p>



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