E-Pack (TETRA)

Digital Wireless Ad Hoc Repeater

- Wireless Mobile Ad Hoc Networking
- Link Automatic Detection
- Fast Deployment
- Flexible and Reliable Networking
- High Spectrum Efficiency

Overview

Hytera E-Pack is intended for fast and flexible communication system deployment. The E-Pack can not only be used as a radio to make and receive calls, it also can create a wireless mobile Ad Hoc network to route voice. As Hytera IP(Intellectual Patent), one E-Pack function as a radio, repeater and mesh node with one frequency, highly saving frequency resources.With light, small and IP67 design, the E-Pack can be installed in a vehicle, carried by a backpack, pole-mounted ,or wall-mounted fairly suitable for temporary communication or indoor coverage.

Product Introduction

Highlights

Wireless Mobile Ad Hoc Networking

Hytera E-Pack(TETRA) can create a wireless mobile Ad Hoc network,in which threre are 3 nodes. The Ad Hoc network is self-configuring and dynamic in which E-Pack nodes are free to move.

Fast Deployment

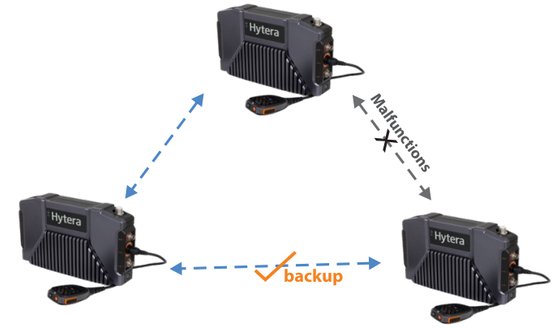
The E-Pack network does not require on-site configuration. It is capable of creating and joining networks to deploy the communication system as soon as it is powered on.

Reliable Quality

Hytera E-Pack is strictly compliant with MIL-STD-810 C/D/E/F/G standards and water and dust proof rating is up to IP67,ensuring outstanding performance even under harsh environments.

Highly Reliable Networking

If one E-Pack node moves away from the network or malfunctions,voice will automatically route to another E-Pack node in order to guarantee link continuity.

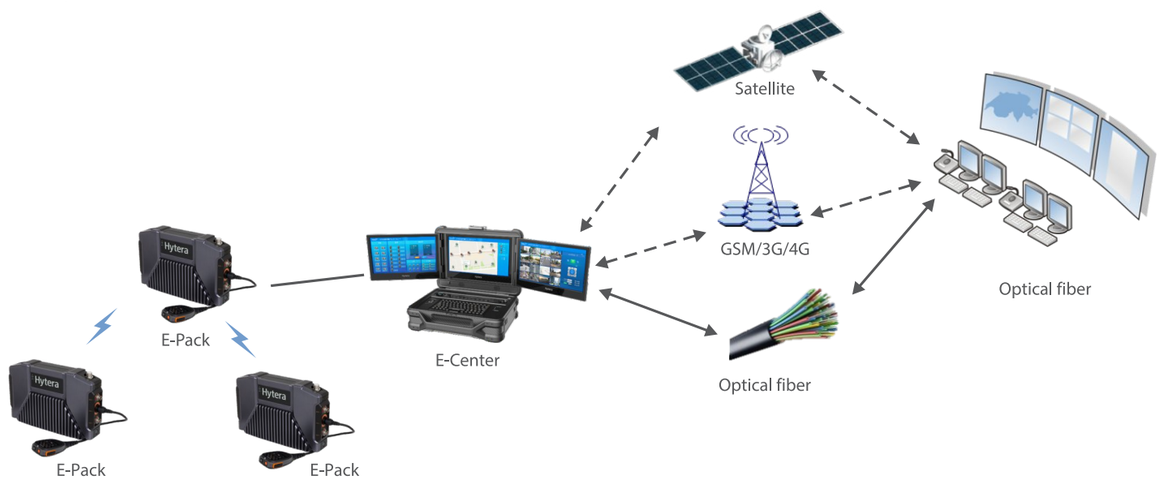


High Spectrum Efficiency

Based on TDMA and FDMA technology, one frequency can be used to make calls and route voice at the same time, greatly saving frequency resources.

Connect to On-site command center

Any network node of E-Pack can be connected with the command center to realize unified command and operation management of E-Pack network by the command center.



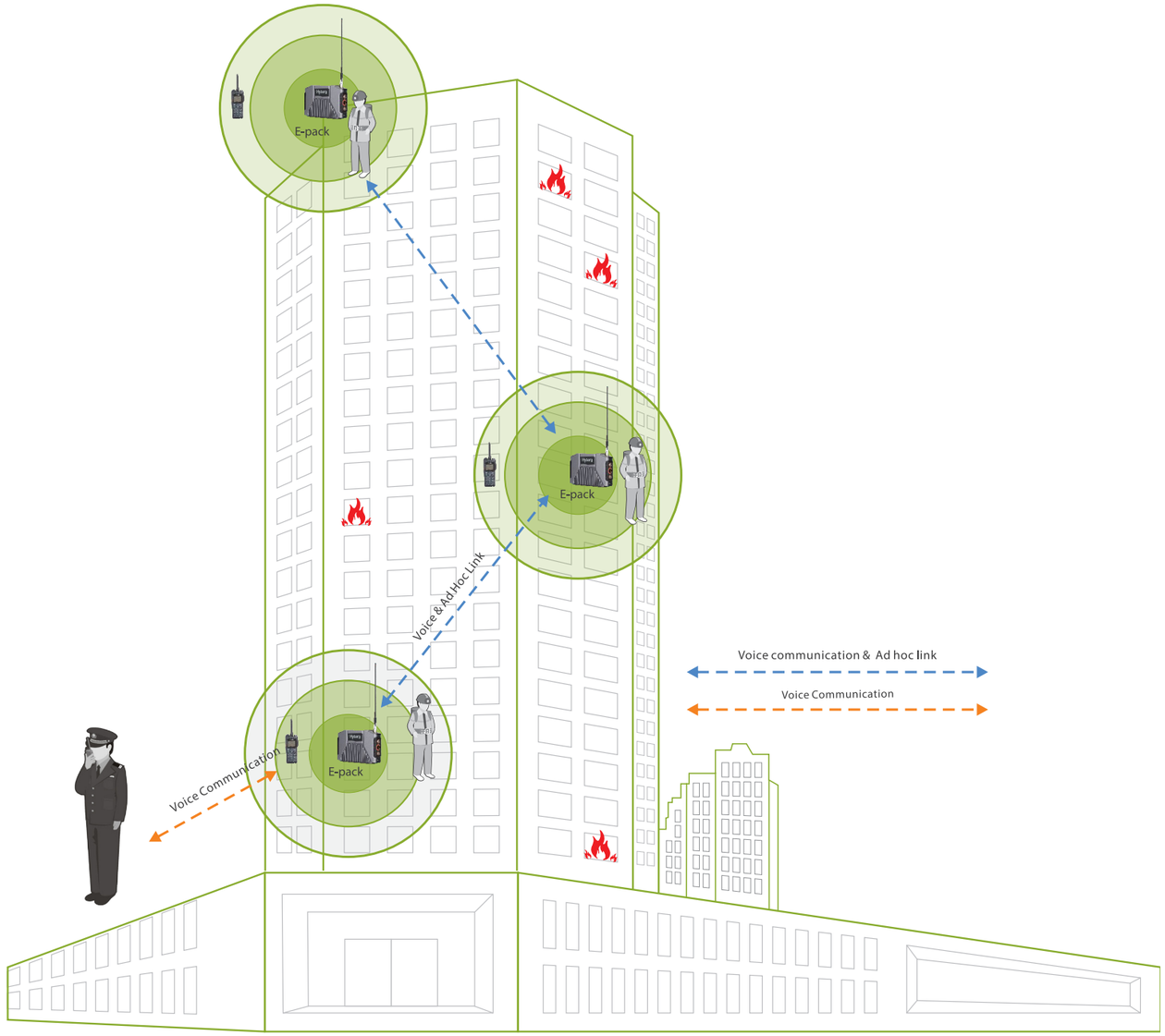
Application

Blind Area Coverage

Due to the high output power of the E-Pack communications will not be affected by the topology of the area, different floors or obstacles etc.

Typical Application

In high buildings, the signal is poor due to space propagation loss and penetration loss. Using E-Pack, smoothcommunication between basement and the building roof can be achieved.

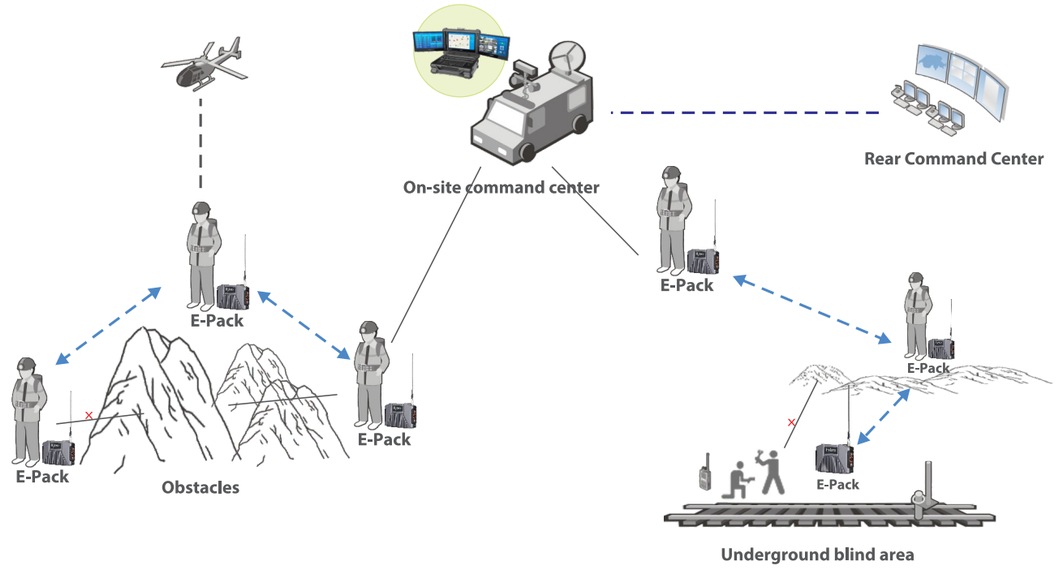


Temporary Communication Coverage

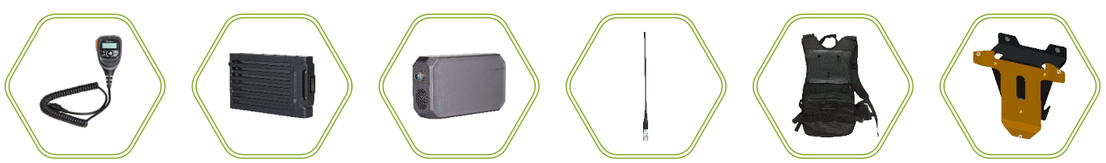
E-Pack features fast and flexible networking. For emergency cases or outdoor operations which need a temporary communication system, E-Pack can better solve this problem.

Typical Application

When there is field operation， it is a must to build a temporary communication system.Hytera E-Pack can quickly establish wireless communication networks, providing communication support for emergency rescue, field construction and other events.



Accessories



Palm Microphone | Battery | Adapter | Antenna | Backpack | Wall-hung type

Specifications

Receiver	
Sensitivity	≤-116dBm (Typical Value: -118dBm)
Conducted Spurious Emission	<-57dBm@9KHz-1GHz <-47dBm@>1GHz
Blocking	-40dBm@50KHz~100KHz
Transmitter	
Output Power (Low)	1W
Output Power (Medium)	5W
Output Power (High)	10W
Adjacent Channel Power	60dB @ 25KHz 70dB @ 50KHz
Environment	
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+85°C
Shock & Vibration	MIL-STD-810 C/D/E/F/G
Ingress Protection Rating	IP67
Moisture Proof	MIL-STD-810 C/D/E/F/G
ESD	IEC 61000-4-2 (level 4) ±8kV (contact discharge) ±15kV (air discharge)

General	
Private Network Mode	DMO Mesh
Node Capacity	3
Battery Capacity	185Wh(12.5Ah)
Battery Life	No less than 10 hours (15% transmission)
Frequency	380-430MHz
Output Power	1W/5W/10W adjustable
Vocoder	ACELP
Channel Spacing	25kHz
Operating Voltage	Rated 14.8V
Standby Current	<0.8A
TX Current	1W<3.5A; 5W<4.5A; 10W<5.5A;
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions	295×187×68mm
Weight	3.8KG (with battery)

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