Hytera

E-pack100

Digital Wireless Ad Hoc Repeater

- Wireless Mobile Ad Hoc Networking
- Fast Deployment
- Flexible and Reliable Networking
- High Spectrum Efficiency
- GSM Link As Backup
- Caller Location Display

www.hytera-mobilfunk.com

Highlights

Wireless Mobile Ad Hoc Networking

Hytera E-pack can create a wireless mobile ad hoc network, in which there are maximum 32 nodes. The ad hoc net work is self-configuring and dynamic in which E-pack nodes are free to move.

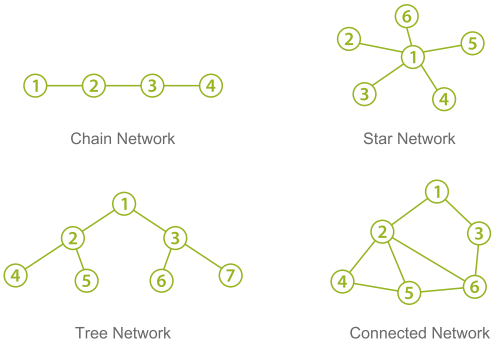
Fast Deployment

Based on wireless mobile ad hoc networking, Hytera E-pack is capable of creating and joining networks to deploy the communication system as soon as it is powered on.

Flexible and Reliable Networking

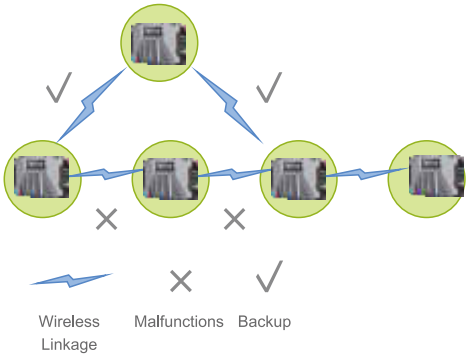
Multiple Networking Topologies

E-pack supports versatile topologies, for example chain, tree, star and so on, so as to provide wider coverage.



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.

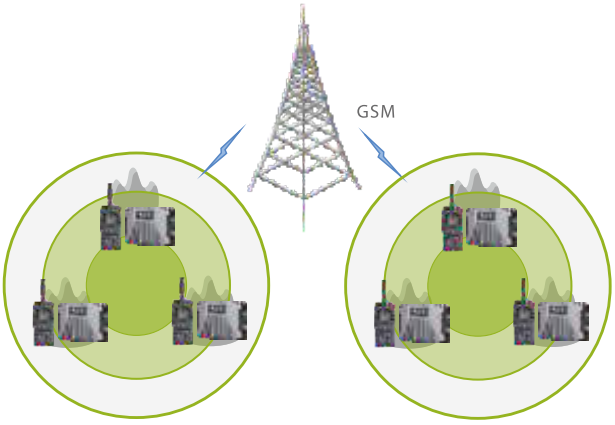


High Spectrum Efficiency

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.

GSM Link as Backup

With an embedded GSM card, if an E-pack node is away from the network it can make a call via public network to any E-pack node on the network. This ensures radios within its coverage can communicate with radios on the network



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.

Caller Location Display

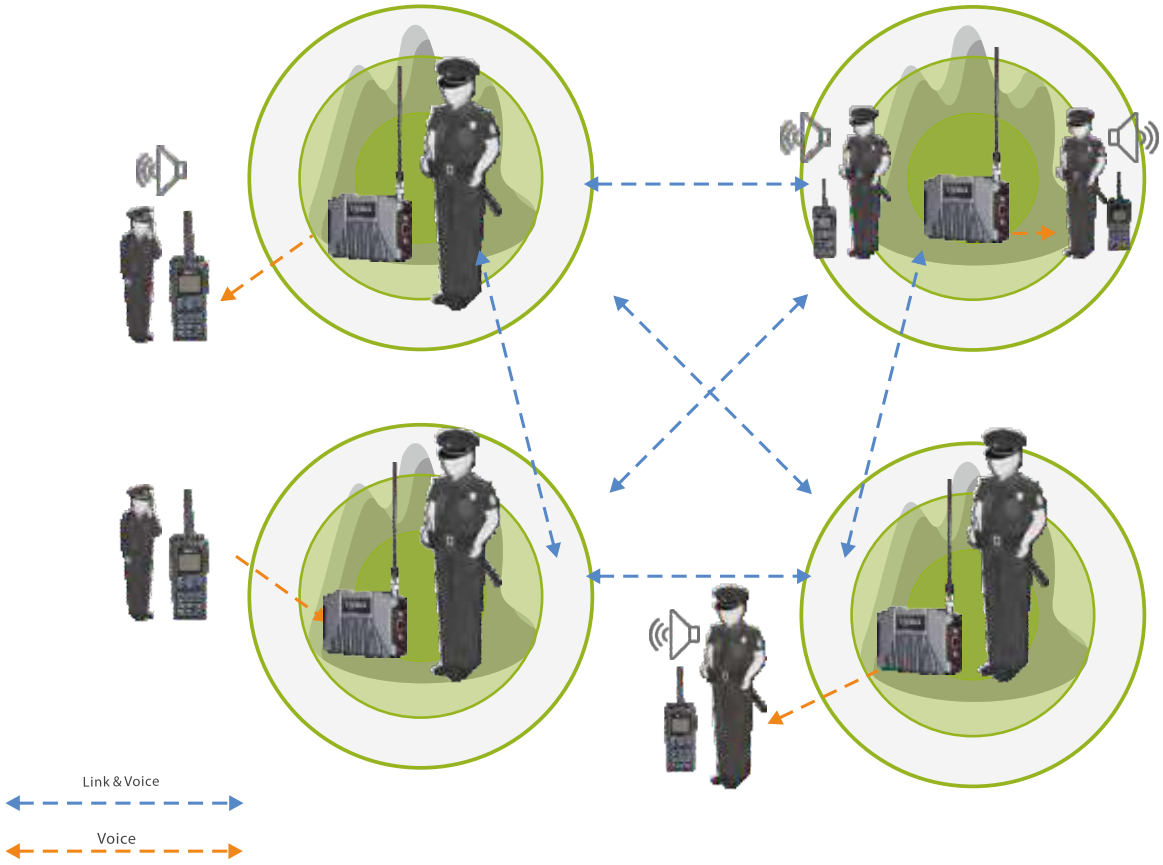
Radios within each E-pack node of the ad hoc network can check the location of caller including distance and azimuth angle.

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.

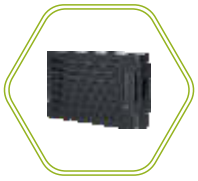
Typical Application

For military or police, when there is field operation, it is a must to build a temporary communication system. HyteraE-pack builds up a temporary communication network, and provides soldiers or policemen at different location with smooth communication.



Accessories

Palm Microphone


Battery

Adapter

Antenna

Backpack

Specifications

General	
Rated Voltage	DC 14.8V
Protocol	DMR TierII
Input Voltage	90-264VAC 50Hz/12-36VDC
Battery Capacity	185WH
Charging Time	Rapid charge 2h 80%; 3h fully charged
Battery Life	About 10 hours (15-85 duty cycle)
Networking Capacity	32
Operating Bandwidth	25KHz
Channel Spacing	12.5k
Vocoder Type	AMBE++/NVOC
Frequency Stability	±0.5ppm
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Intrusion	IP67
Antenna Impedance	50Ω
Dimensions(L×W×D)	295X187X68mm
Weight	3.6Kg (with battery)
TTFF(Time to First Fix)Cold Start	< 1minute(first time)
TTFF(Time to First Fix)Hot Start	< 10s(first time)
Storage Temperature	-40℃ to +85℃
Operating Temperature	-30℃ to 60℃

Receiver	
Sensitivity	-120dBm
Intermodulation	≥70dB
Spurious Response Rejection	≥70dB
Blocking	≥84dB
Conducted Spurious Emission	Antenna Port: 9kHz to 1GHz≤-57dBm，Standby:1GHz to 12.75GHz≤-47dBm
Selectivity	ETSI:60dB @ 12.5KHz / 70dB @25KHz

Transmitter	
RF Power Output	350-400MHz,410-470MHz: 5W/10W /20W
Adjacent Channel Power	≥60dB@12.5KHz/ ≥70dB@25KHz

Hytera
Respond & Achieve

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