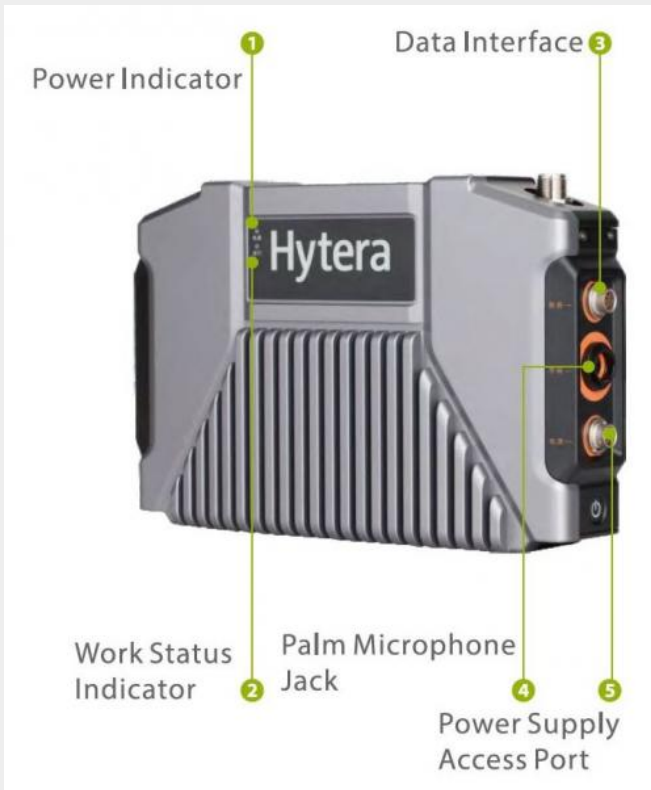


# E-Pack100 - Digital Wireless Ad Hoc Repeater

## 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

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.



### 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 network 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

[AT Communication ©](#)

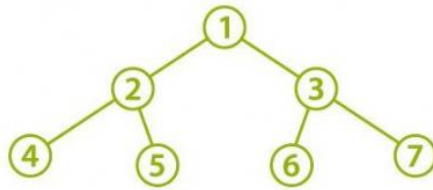
E-pack supports versatile topologies, for example chain, tree, star and so on, so as to provide wider coverage



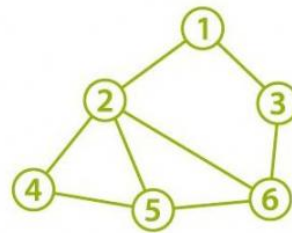
Chain Network



Star Network



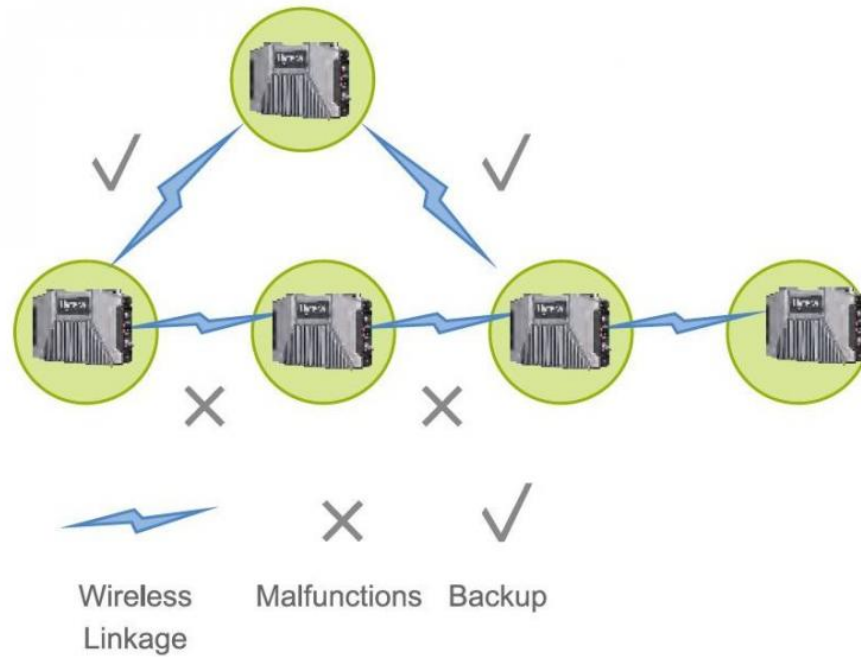
Tree Network



Connected Network

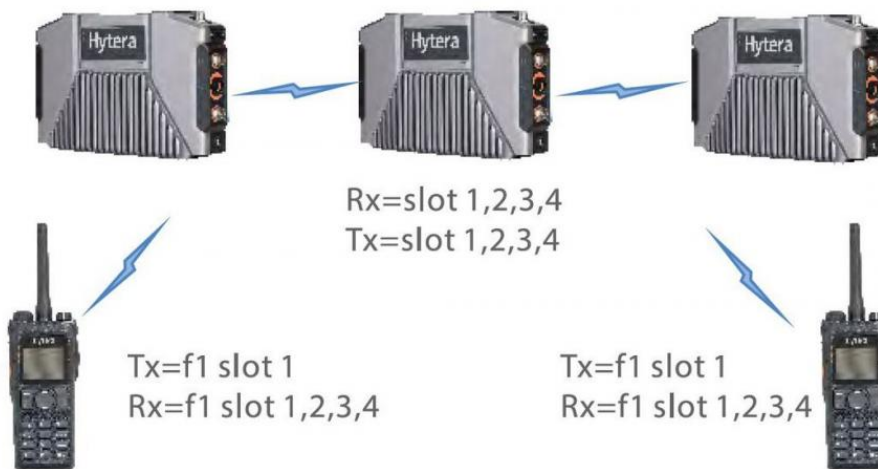
### Highly Reliable Networking

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

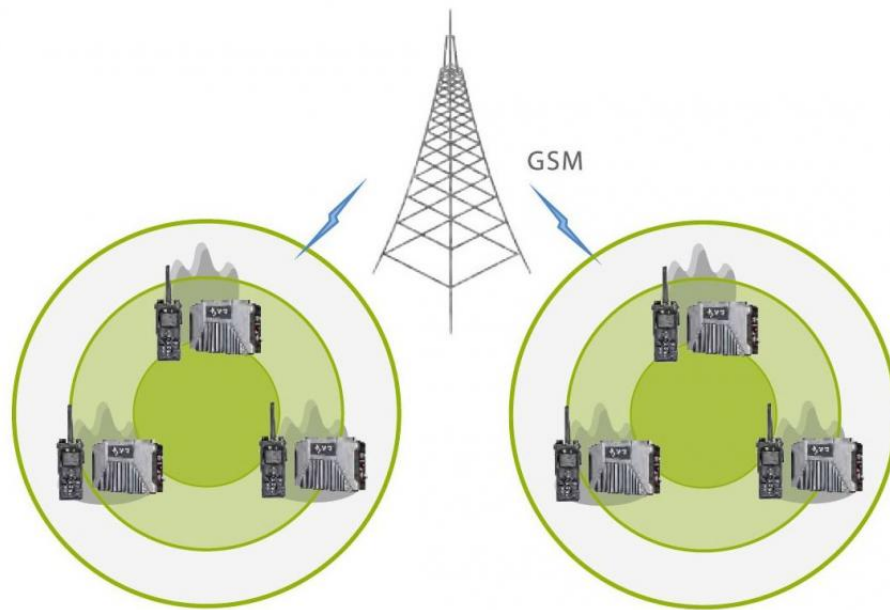


### Reliable Quality

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

### 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



### Caller Location Display

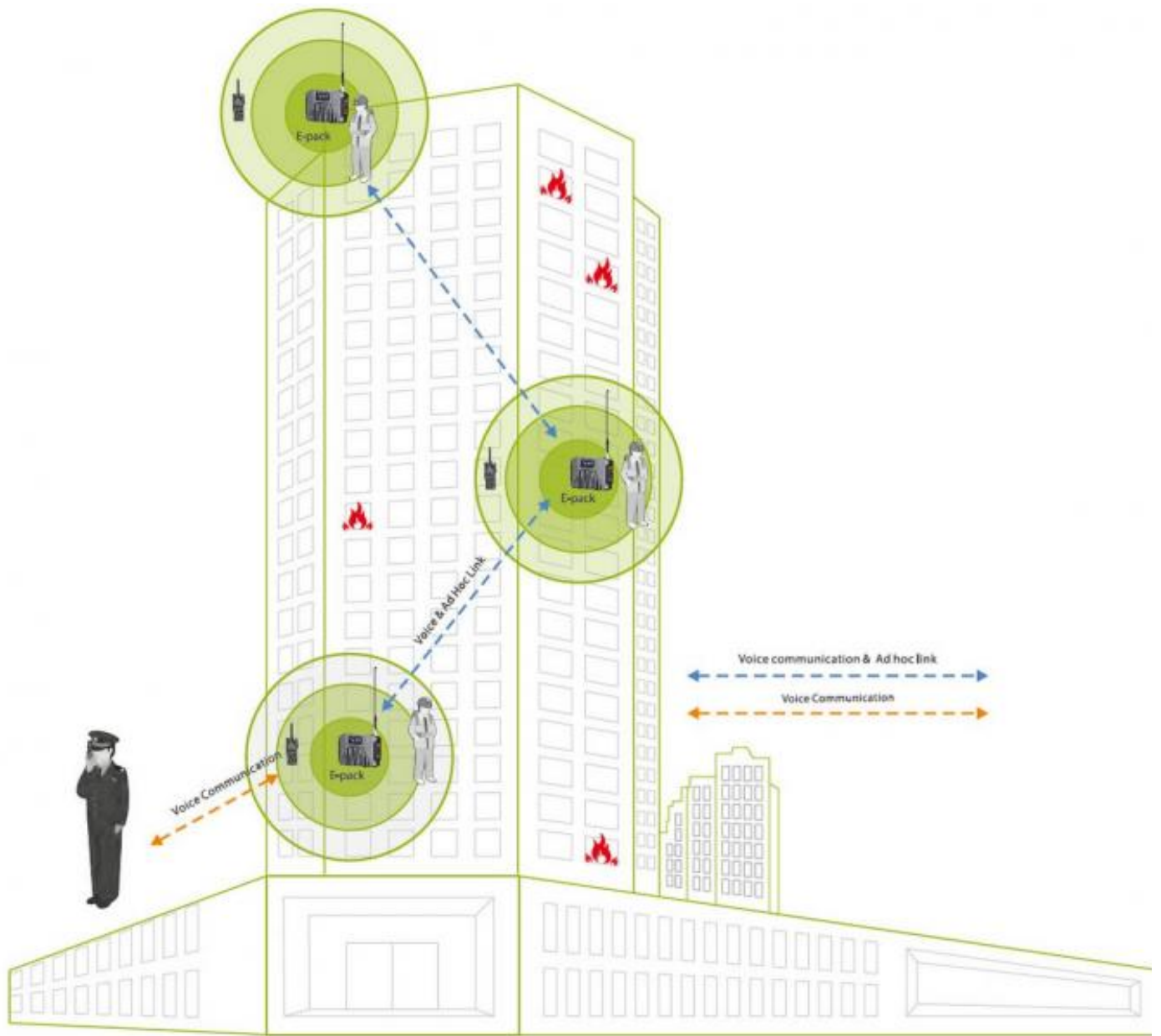
Radios within each E-pack node of the ad hoc network can check the location of caller including distance and azimuth angle

### 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, smooth communication between basement and the building roof can be achieved



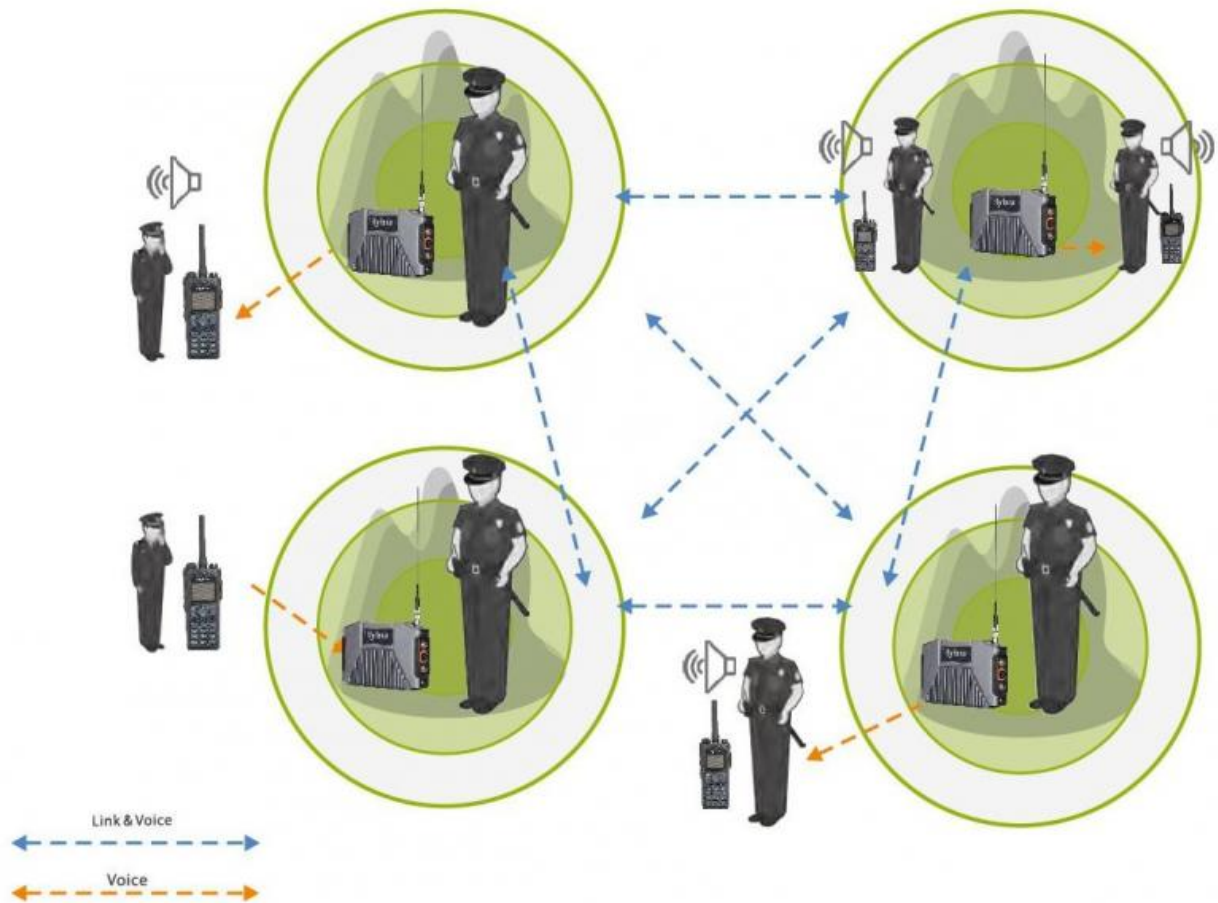
### Temporary Communication Coverage

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

For military or police, when there is field operation, it is a must to build a temporary communication system. Hytera E-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	DMRTierII
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 dutycycle)
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 (LxWxD)	295X187X68 mm
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°C to +85°C
Operating Temperature	-30°C to +60°C
	<b>Receiver</b>
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
	<b>Transmitter</b>
RF Power Output	350-400MHz, 410-470MHz: SW/10W/20W
Adjacent Channel Power	≥60dB@12.5KHz / ≥70dB@25KHz

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