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.co.uk

Overview

Hyteras E-packs versatility leads to a flexible communication system that is quickly deployed. E-pack can be used as a radio to make and receive calls, also creates a wireless mobile ad hoc network to route voice. With Hyteras IP (Intellectual Patent), one E-pack functions as a radio, repeater and a mesh node with one frequency saving frequency resources. Its light, small and IP67 design allows the E-pack to be installed in a vehicle, carried in a backpack, pole-mounted, or wall-mounted. Its suitability lends itself to temporary communications coverage indoors or outdoors.

Product Introduction

Highlights

Wireless Mobile Ad Hoc Networking

Hytera E-pack can create a wireless mobile ad hoc network with a maximum of 32 nodes. The ad hoc network is self-configuring and dynamic where E-pack nodes can move freely.

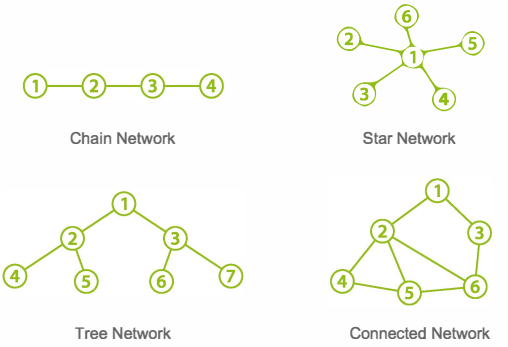
Fast Deployment

Based on a mobile wireless ad hoc network, Hytera E-pack is capable of creating and joining networks to deploy the communication system on power up.

Flexible and Reliable Networking

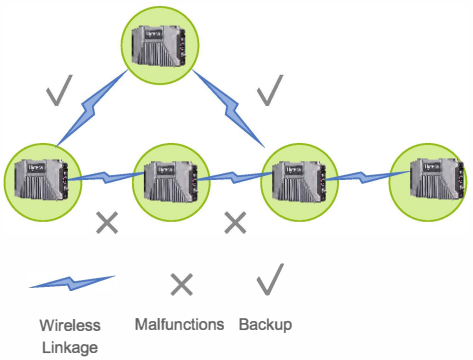
Multiple Networking Topologies

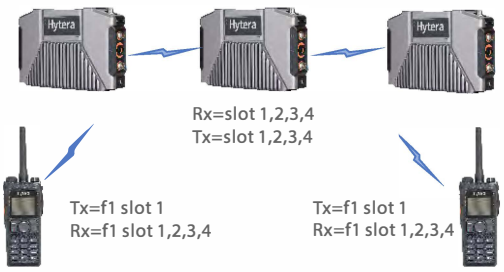
E-pack supports versatile topologies, such as chain, tree, star etc. This provides a wider coverage area.



Highly Reliable Networking

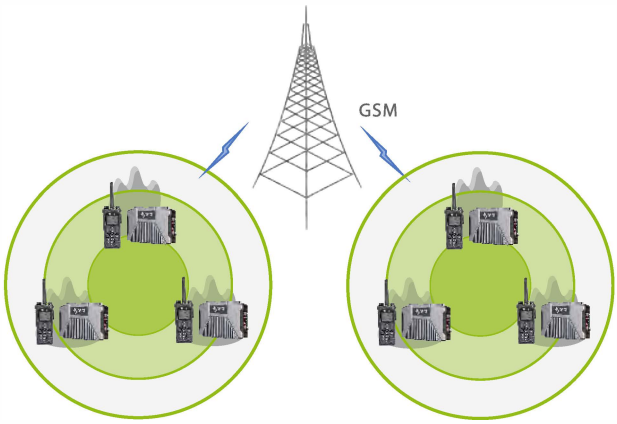
If an E-pack node within a network moves away or malfunctions, voice will automatically route to another E-pack node in order to guarantee link continuity.





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 to MIL-STD-810 C/D/E/F/G. With an IP67 rating for water and dust proof this ensures outstanding performance even in 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.

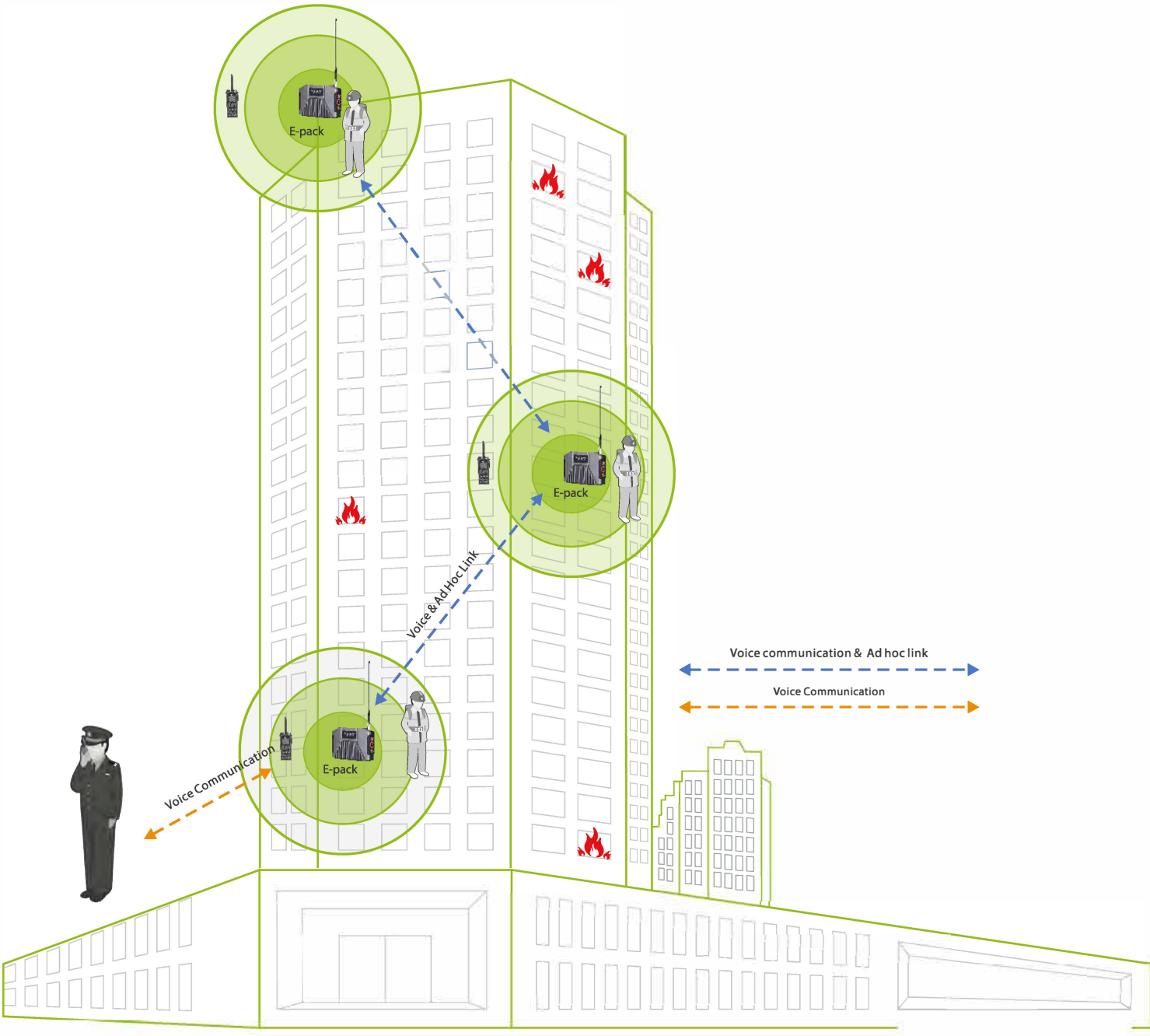
Application

Blind Area Coverage

With E-packs high output power communications are not affected by the areas topology, building design or obstacle's etc

Typical Application

With tall buildings, the signal level is reduced due to space propagation and penetration losses. Use of the E-pack achieves smooth communications between basement and building roof.

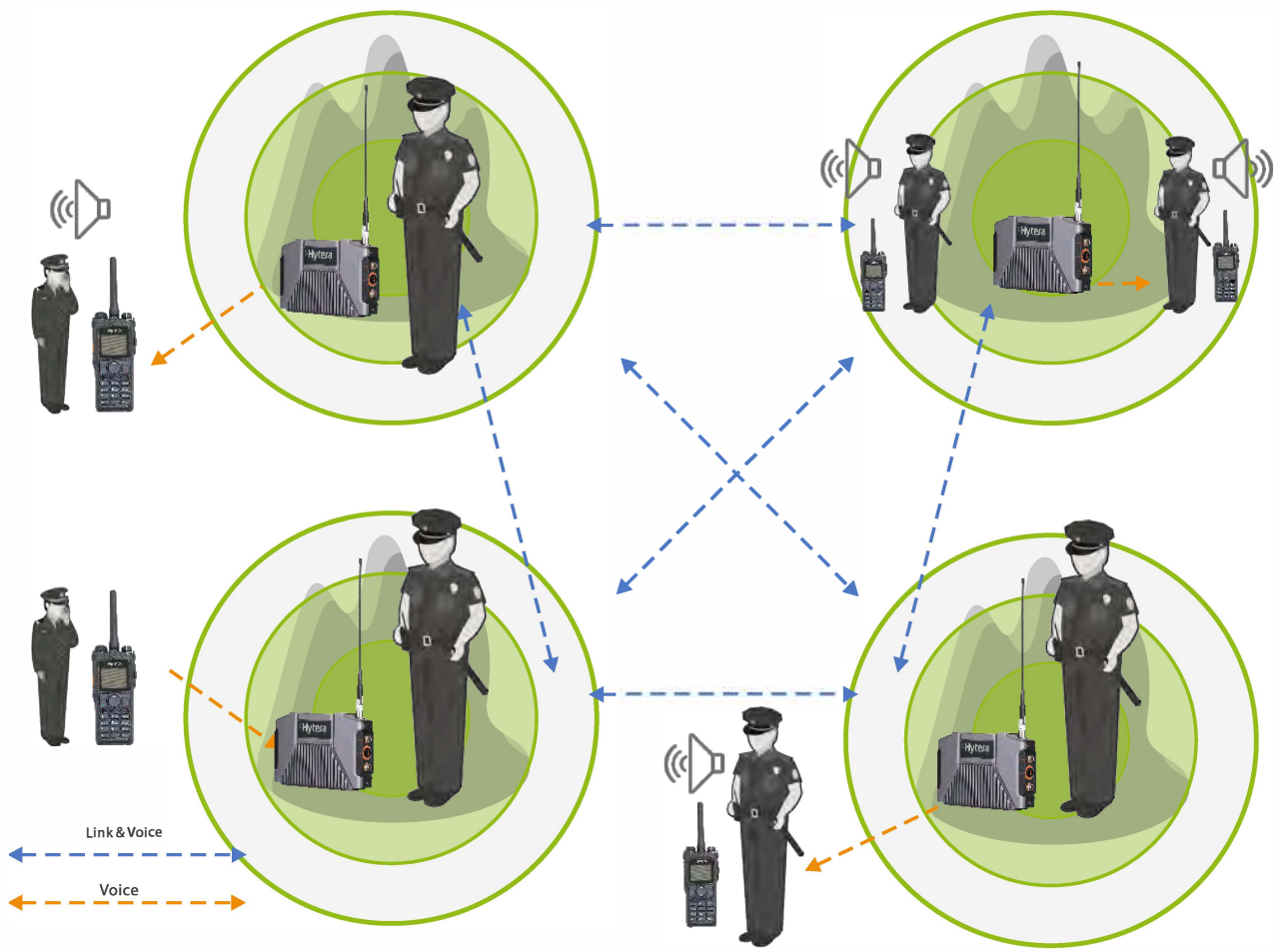


Temporary Communication Coverage

E-pack features fast and flexible networking. In emergency cases or outdoor operations that require a temporary communications system, E-pack solves this problem.

Typical Application

When the police or military are involved in field operation and require a temporary communications system Hyteras E-pack solves the problem. Hyteras E-pack builds a temporary communications network providing police or military personnel smooth communications at different locations.



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	Battery Life (5-5-90uty cycle) Analogue: about 20 hours; Digital: about 23 hours
Networking Capacity	32
Operating Bandwidth	25KHz
Channel Spacing	12.5k
Vocoder Type	AMBE++/NVOC
Frequency Stability	±0.5ppm
Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Intrusion	IP67
Antenna Impedance	50Ω
Dimensions(LxWxD)	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

Further information can be found at:
www.hytera.co.uk

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Hytera
Respond & Achieve

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