



Dual-channel DMR Ad-hoc Portable Repeater

E-pack200

- Dual-channel communication solution
- Long-lasting battery
- 31-repeater networking
- Real-time and precise positioning
- Flexible and rapid deployment
- Wireless programming





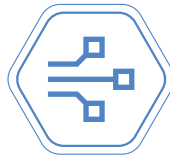
Hytera E-pack200 is a huge leap of wireless ad hoc network (WANET) repeater, which is designed to provide dual communication paths simultaneously and precise positioning services, providing all-round networking solution for those engaged in firefighting, disaster relief, VIPs security, public safety management, and more.

The E-pack200 repeater can operate on a custom frequency within the preset frequency range, thus improving the efficient usage of channel resources. Incorporated with precise positioning technology, the E-pack200 repeater can periodically report its location data.



Fast Deployment Create network in seconds

- In emergency situation, every second counts. The E-pack200 repeater supports push-to-start for quickly and automatically establishing an independent network after power-on, so as to efficiently extend radio coverage.



Flexible Networking Topology Overcome dead spots

- Up to 31 E-pack200 repeaters can be deployed on the site to form a chain, mesh, or hybrid network, which can effectively eliminate dead spots in tunnel, high-rise buildings, or underground to ensure seamless communications.



Dynamic Design Support Dynamic Network

- The E-pack200 repeaters still provide reliable RF coverage during rapid movements. When they are move randomly, the network topology changes accordingly.
- In the peer-to-peer network, all E-pack200 repeaters are equal, and freely joining or leaving this network.



IP Multisite Connect Extend Radio Coverage

- With the IP Multisite Connect technology adopted, the E-pack200 repeaters interconnect with each other, establishing multiple inter-frequency or intra-frequency ad hoc networks in a large area.



LTE Link as Backup Offer Always-reliable Communication Solution

- When the PMR network is down, the E-pack200 repeater with a SIM card can keep repeating calls or data over the LTE network. Also, it can access the command and dispatch system.



Unified Command and Dispatch Link people and location

- Serving as a link, the E-pack200 repeaters can working with the command and dispatch system, helping the dispatcher view location and status of the radio on the map, receive alarms, and more.



Remote Management Keep networking status always known

- The ad hoc network consisting of the E-pack200 repeaters can be monitored by the network management system. The networking topologies and electric field strength of the E-pack200 repeaters are visualized in real time.



Wireless Programming Reduce toil and trouble

- The E-pack200 repeater can be programmed by the network management system over the WLAN. Take the hassle out of cable, and minimize downtime in the field.



Interconnection Connect to multiple systems

- The E-pack200 repeaters help the portable radios to access the digital trunking, digital conventional, analog conventional, and more systems, playing an important role in establishing a united commutation system.



Open APIs Facilitate third-party applications


- The E-pack200 repeater provides open APIs, which facilitate the development of third-party applications according to actual industrial needs. This helps enrich the communication solution.



Data Encryption Protect data and device

- The E-pack200 repeater has multiple security mechanisms such as authentication, software and hardware encryption to protect the data and privacy. It can be disabled temporarily or permanently through the dispatch and command system to prevent unauthorized access.

At a Glance



> More antennas than you see

- Visible dual narrowband antennas
- Built-in LTE antenna, WLAN antenna, and GPS antenna

> Purpose-built design

- Sleek form factor with aluminum alloy housing
- Good tactility with plastic on both sides
- High-performance cooling with large-area heat sink gears

> Rugged design

- Waterproof and dustproof: Ip67
- Operating temperature: -30°C to 60°C
- Shock and vibration: MIL-STD-810 C/D/E/F/G

> Easy to carry

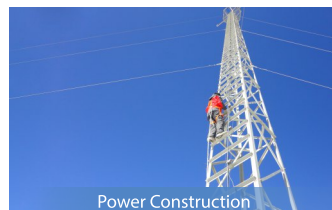
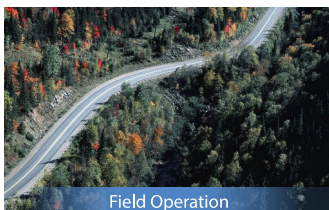
- Dimensions: 211 mm x 62 mm x 235 mm
- Weight: 3.1 kg

> One-touch to view remaining battery power

> Various power supplies

- 144 Wh battery: 9 hours at room temperature, push-pull design
- Mains power
- Vehicle power
- Solar energy

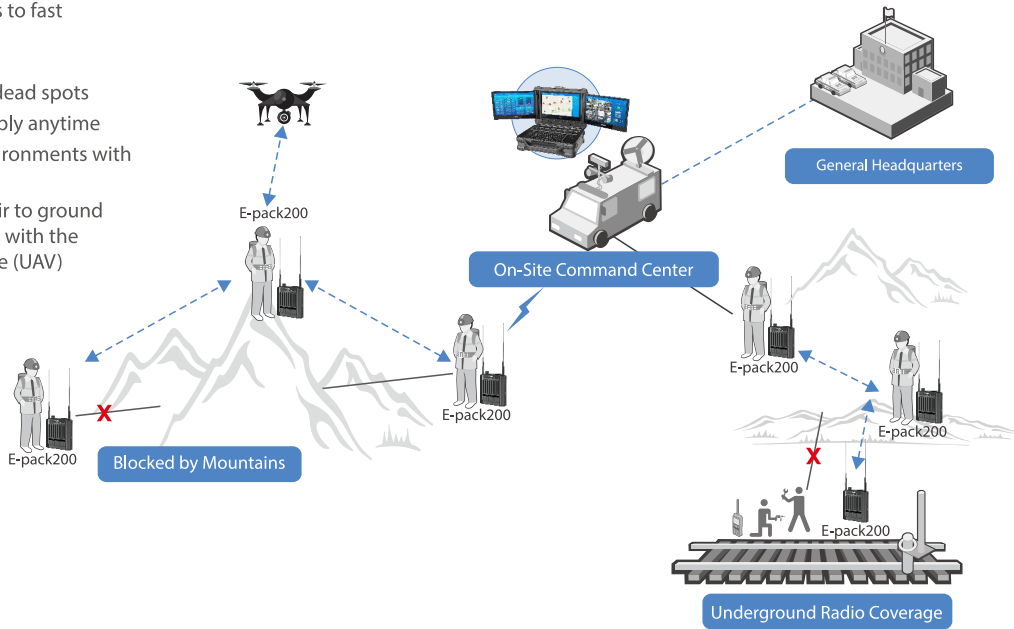
Application Scenarios



Cases

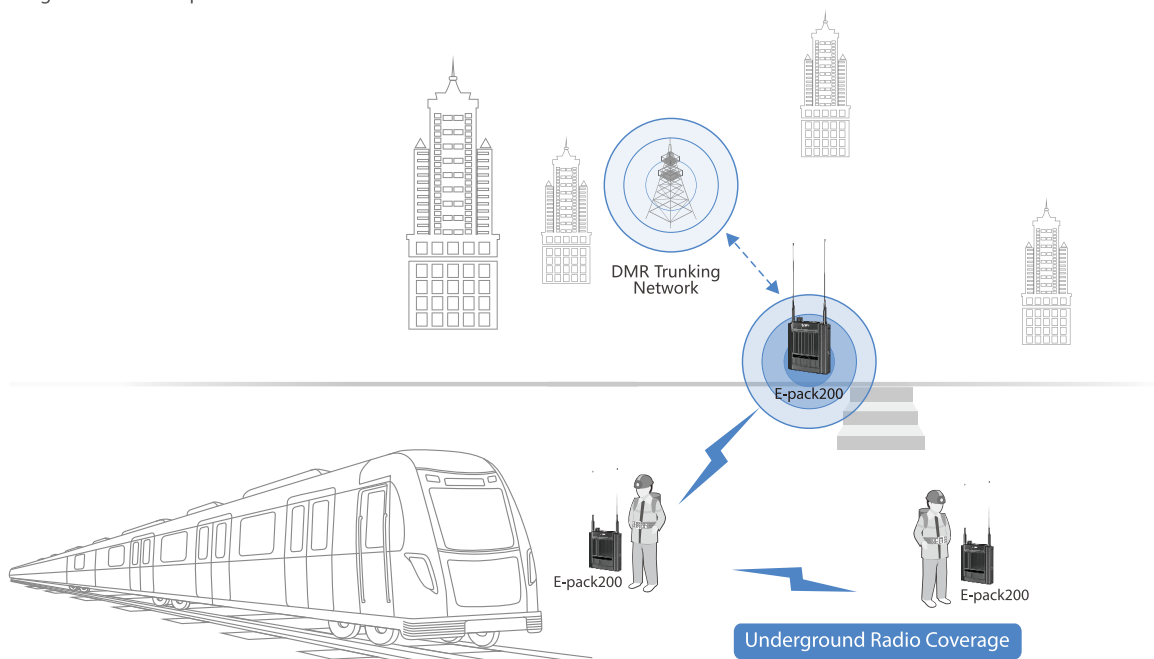
Disaster Relief

- Save rescue time thanks to fast networking
- Extend radio coverage uncompromising with dead spots
- Adjust networking flexibly anytime
- Withstand extreme environments with an IP67 rating
- Provide network from air to ground when working together with the unmanned aerial vehicle (UAV)



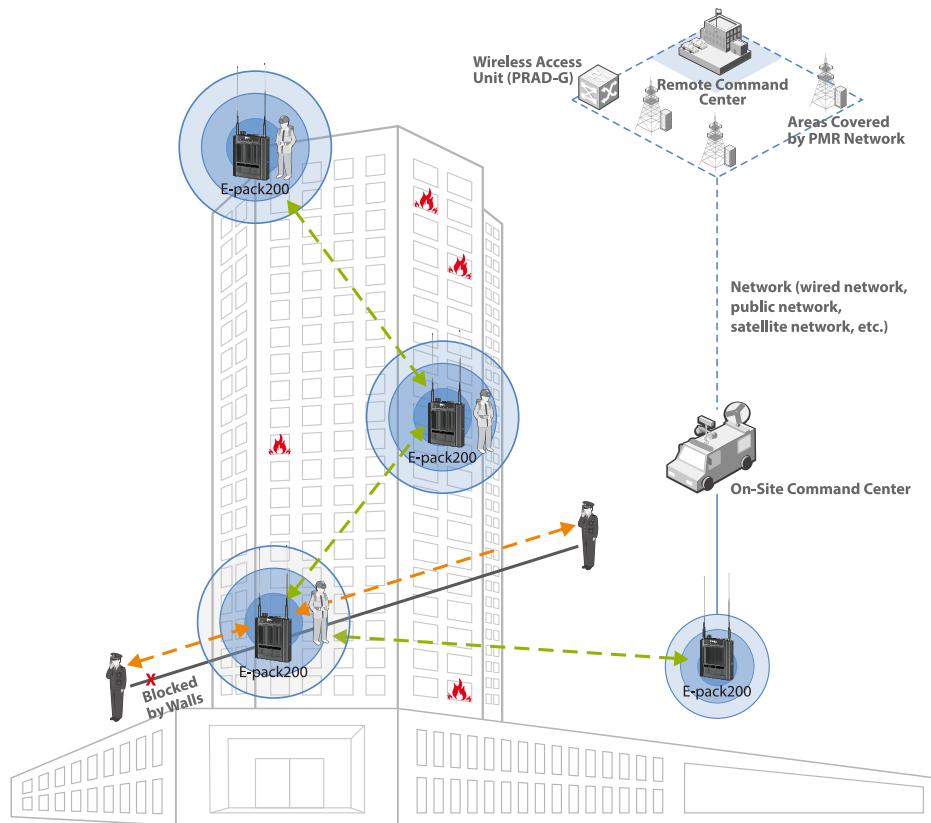
Underground

- Easy to hold and carry with lightweight design
- Quick deployment and interconnection
- Extend radio coverage and fix dead spots



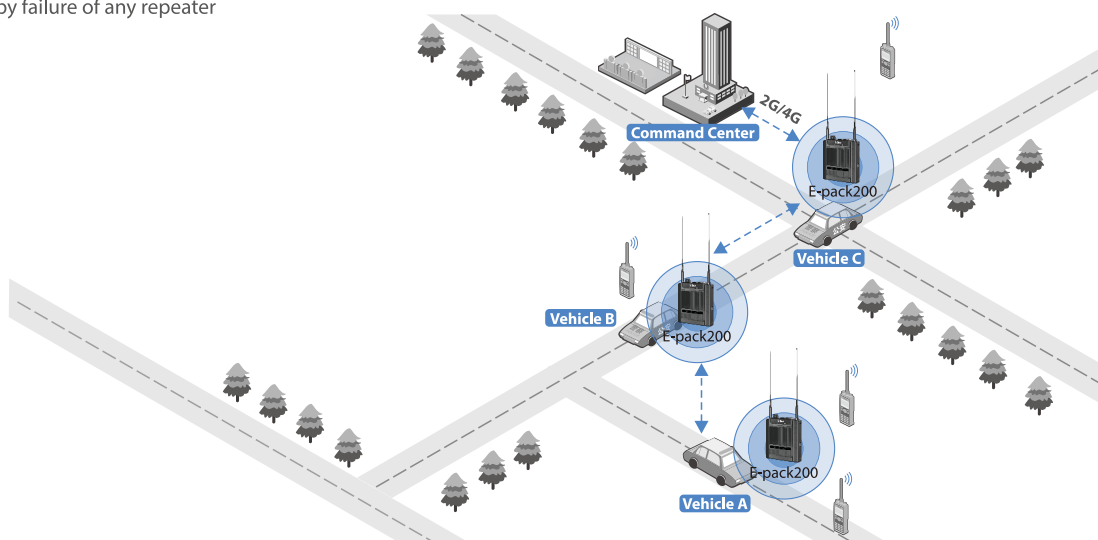
High-rise Buildings

- Infrastructure-less network without wires.
- Compact and lightweight, easy to deploy
- Set up an ad hoc network automatically upon power-on
- Eliminate dead spots by high output power and high sensitivity



Fleet Communication

- Smart networking to form different network topologies
- Stable communications on the move
- Always-ready network system without affecting by failure of any repeater



Specifications

General	
Protocol	ETSI DMR Tier II
Network Capacity	31
Rated Operating Voltage	14.8 V
Input Voltage	90–264 V AC; 11.4–16.8 V DC
Battery Capacity	144Wh
Current	Standby: < 1 A Transmitting: < 10 A
Frequency Range	UHF3: 350MHz~400MHz UHF1:400MHz-470MHz
Vocoder	AMBE+2™ /NVOC
Channel Spacing	12.5kHz
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (L x W x H)	211mm x 62mm x 235mm
Weight (with Battery)	3.1kg

Receiver	
Static Sensitivity	-122dBm@5%
Adjacent Channel Selectivity	ETSI: 60dB@12.5kHz / 70dB@25kHz
Intermodulation Response Rejection	≥70dB
Spurious Response Rejection	≥70dB
Blocking	84dB
Conducted Spurious Emission (Antenna Connector, Idle Mode)	9kHz ~ 1GHz≤-57dBm 1GHz ~ 12.75GHz≤-47dBm

Transmitter	
Output Power	≤20W (adjustable)
Adjacent Channel Power	60dB@12.5kHz 70dB@25kHz

Environmental	
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+85°C
Waterproof and Dustproof	IP67
GPS	Suitable for long-term tracking(5 satellites visible at the rated signal strength of -130 dBm) TTFF cold start: < 1 min (first time) TTFF hot start: < 1s (first time)
Shock and Vibration	MIL-STD-810 C/D/E/F/G
Humidity	MIL-STD-810 C/D/E/F/G
ESD	IEC 61000-4-2 (Level 4) ±8 kV (contact) ±15 kV (air)

Accessories



Figures in this brochure is only for reference.



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