



DMR Ad-hoc Dual-channel Portable Repeater E-pack200

- Dual-channel Voice repeat
- Up to 31-node auto-connected Networking
- Flexible and Fast deployment
- Free of any IP link
- Real-time and precise positioning
- WLAN programming



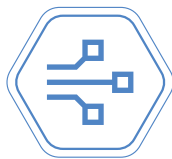


Hytera E-pack200 is a DMR ad-hoc dual-channel repeater for man-pack. The repeater adopts wireless interconnection technology to quickly create multi-hop narrowband networks through cascading connection, free of any IP link such as fiber optic and microwave. The repeater can repeat voice services on dual channels at the same time. The repeater is compatible with Hytera or third-party DMR Tier 2 radios. Moreover, the repeater is easy to hold and carry lightweight design.



Fast Deployment Provide voice transit

- 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, and compatible with Hytera or third-party DMR Tier 2 radios.



Free of any IP link, flexible topology Networking Overcome dead spots

- The repeater adopts wireless interconnection technology to quickly create multi-hop narrowband networks through cascading connection, free of any IP link such as fiber optic and microwave.



Dynamic Design Support dynamic network

- The E-pack200 repeaters still provide reliable RF coverage during rapid movements. When they 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 work 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 created by 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 unified communication system.



Open APIs Facilitate third-party applications

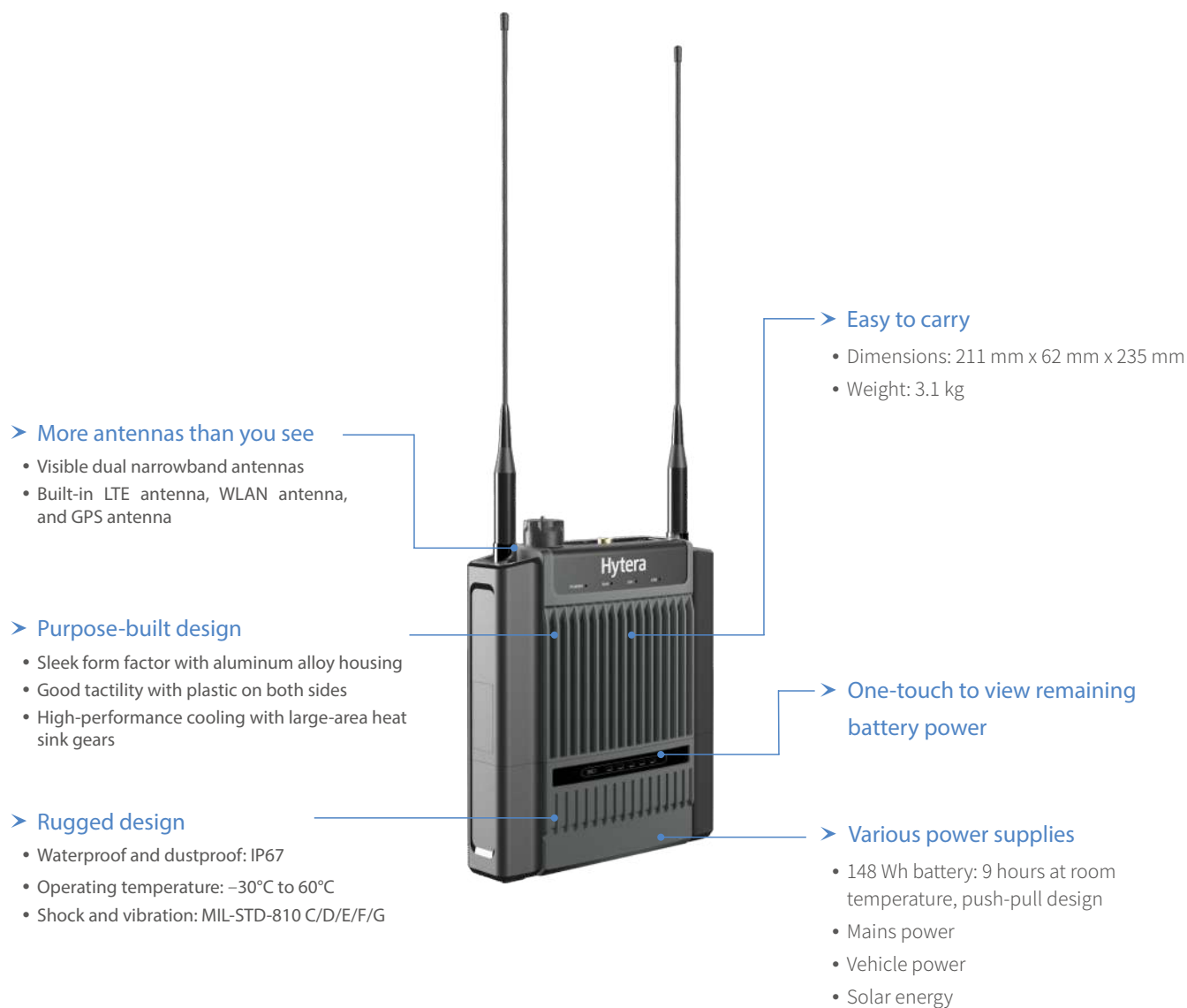
- The E-pack200 repeater provides open APIs, which facilitate the development of third-party applications according to actual industrial needs. This helps enrich the communication solution.



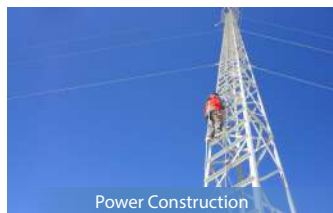
Data Encryption Protect data and device

- 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



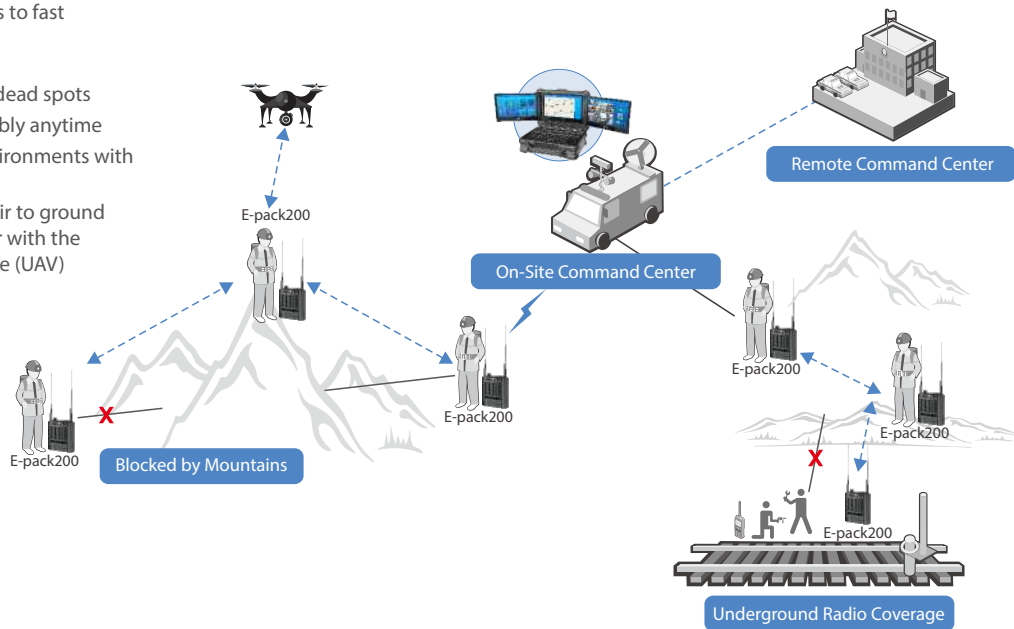
Application Scenarios



Cases

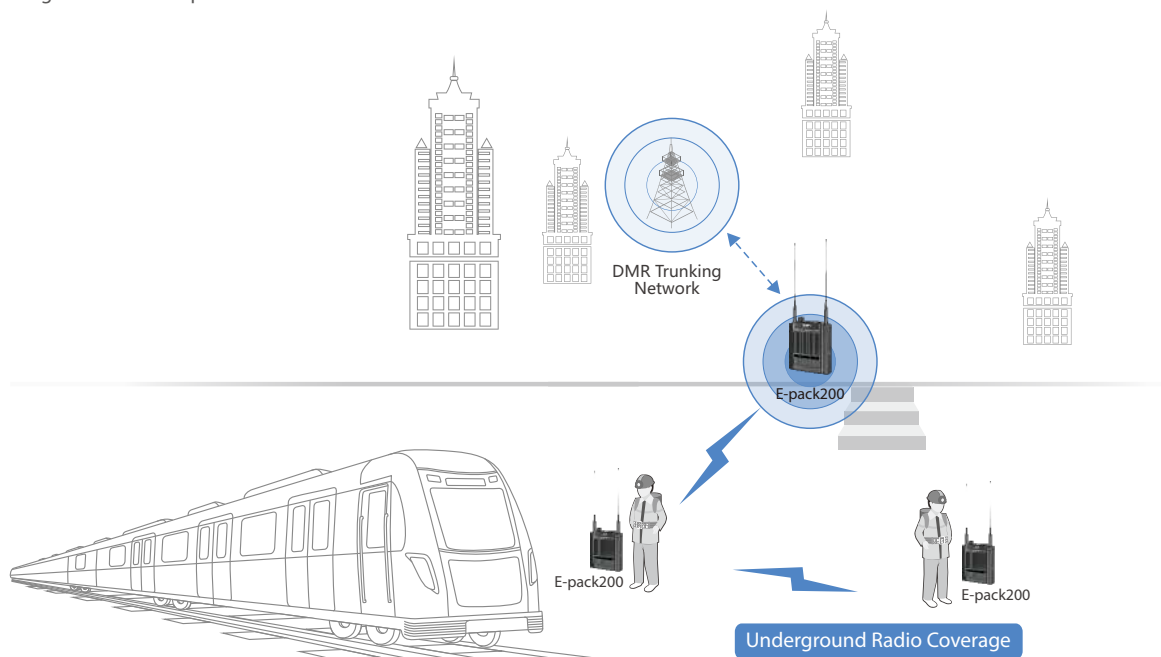
Disaster Relief

- 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)



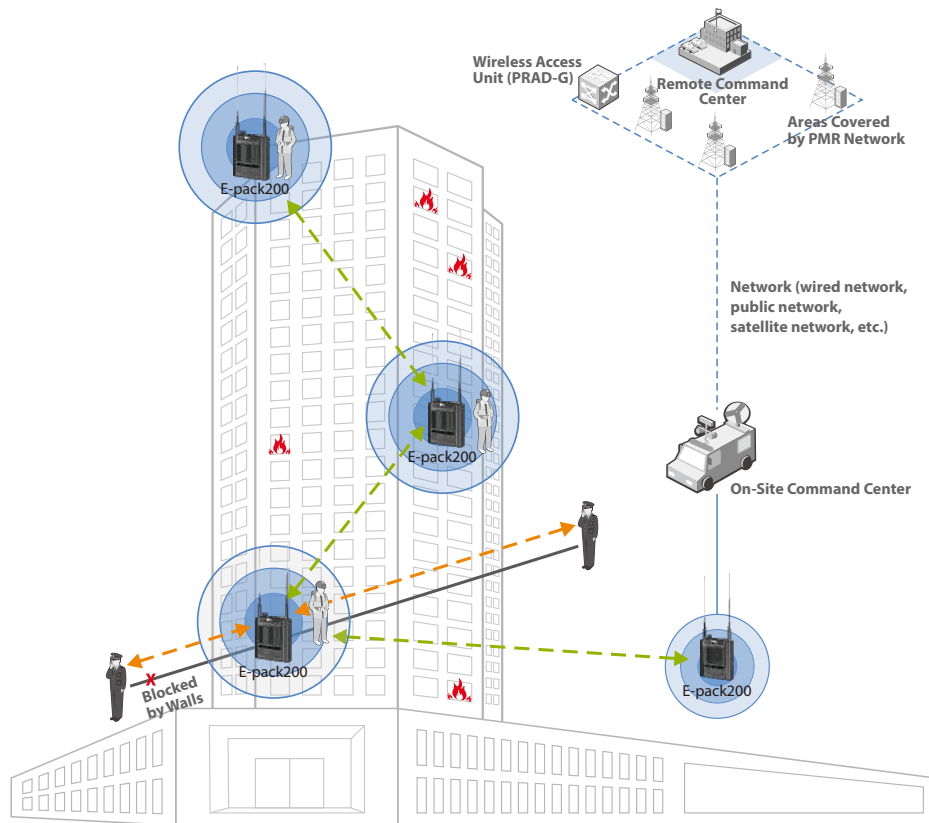
Underground

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



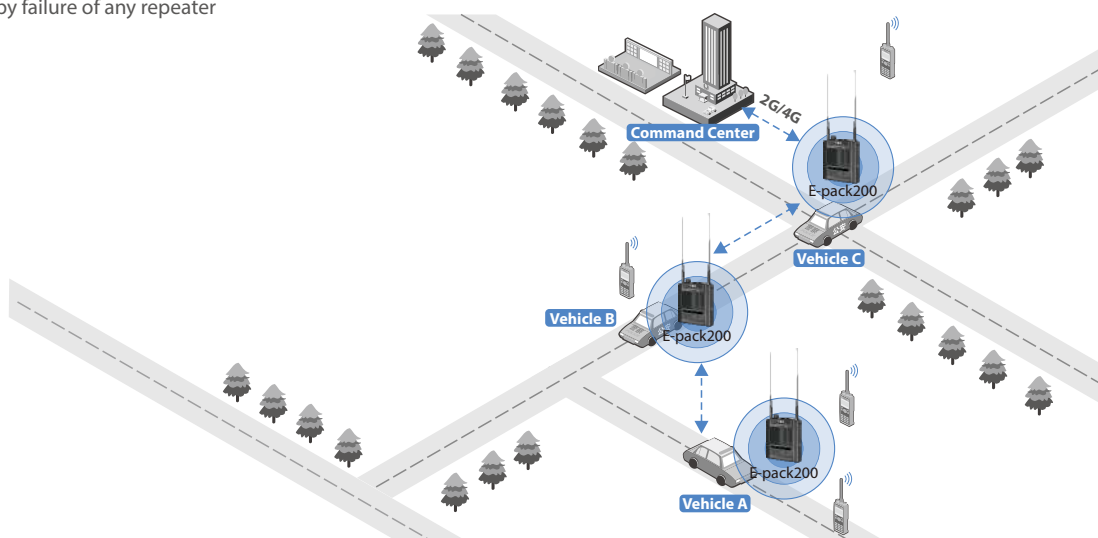
High-rise Buildings

- 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	148 Wh
Current	Standby: < 1 A 1W:1.5 A 5W:2 A 10W:2.5
Frequency Range	UHF3: 350–400 MHz; UHF1: 400–470 MHz VHF: 136–174 MHz
Vocoder	AMBE+2™ /NVOC
Channel Spacing	12.5 kHz
Frequency Stability	±0.5 ppm
Antenna Impedance	50 Ω
Dimensions (L x W x H)	211 mm x 62 mm x 235 mm
Weight (with Battery)	3.1 kg

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

Transmitter	
Output Power	1W/5W/10W per channel, 20W in total
Adjacent Channel Power	60 dB@12.5 kHz 70 dB@25 kHz

Environmental	
Operating Temperature	-30°C to +60°C
Storage Temperature	-40°C to +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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