

Specifications

General	
Communication Mode	• Fixed frequency • Smart frequency selection
Services	• Voice calls • Text and voice messages • Data services • CW messages
Modulation	USB, LSB, CW, and AM
Channel Capacity	1,000
Voice Coding Rate	600 bps and 1200 bps, adaptive reception rate
Data Transfer Rate	75 bps–38.4 kbps, adaptive reception rate
Frequency Range	• 250 kHz–30 MHz (reception) • 1.5 MHz–30 MHz (transmission) The reception and transmission can occur on different frequencies.
Frequency Spacing	10 Hz
Frequency Error	≤5×10-7
Interface	Ethernet, WLAN, RS232, PSTN, GNSS(GPS, BD)
Dimensions (H x W x D)	75 mm × 226 mm×244.5 mm (±1.5 mm) (with fan, without protrusions)
Weight	≤4.5 kg (with fan and speaker)
Power Supply	10.8 V–14.4 V, DC input
Transmission	
Output Power	Adjustable from 125 W ± 1 dB, 50 W, and 20 W
Power Consumption	≤450 W
Reception	
Sensitivity	-118 dBm (SINAD = 10 dB) (Frequency ≥ 1.6 MHz)
Audio Response	≤ 3 dB
Audio Distortion	≤ 3%
Power Consumption	≤ 16 W
Environmental	
Operating Temperature	-30°C to +65°C
Shock and Vibration	MIL-STD-810H

Accessories

Standard ☐ Optional ☐



Remote Speaker Microphone



Multi-functional Cable



HF 4-Core Power Cord



Antenna Tuner



500 W Power Source



500 W Emergency Power Source



Feeder



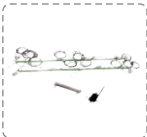
Shock Mount



BDS Location Antenna



NVIS Antenna



Three-wire Antenna



Four-wire Antenna



Mount for Fixed HF radio



Professional HF Radio

E-SR169V

• Digital • Smart • Powerful.



Неоком МСК
Средства связи

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Hytera E-SR169V is a new-gen professional HF radio—digital, smart, and powerful. It is created to provide reliable medium- and long-distance communications for emergency response, transportation, energy exploration, public safety, and more.

The E-SR169V meets any need of yours, as it is deployable in a vehicle or fixed place, as it is capable of smart frequency selection, diverse services, high-quality voice, and data security, as it is stunningly durable. Plus, it adopts SDR architecture and exclusive constant envelope modulation technology to enhance power amplifier efficiency.



All in one



Smart frequency selection



Adaptive signal reception



Link maintenance



Intelligent noise cancellation



Data transfer

All in one

Pack the speaker, fan, 125 W power amplifier, and more modules into one compact unit—making the E-SR169V lighter, smaller, and more energy efficient.

Link maintenance

Automatically set up optimal links and intelligently switch the channel upon device restart or low CQI, keeping stable communications even on the move or in complex environment.

Smart frequency selection

Automatically select the optimal frequency for link setup, greatly enhancing communication quality and reliability.

Intelligent noise cancellation

Filter out ambient noise and extract valid signal to make voice crystal-clear even in environment of much noise or weak signal, supported by self-developed algorithm and acoustical design (120 dB speaker).

Adaptive signal reception

Improve weak signal reception and support intelligent parsing across modes for smooth voice and data services—all backed by dynamic signal optimization.

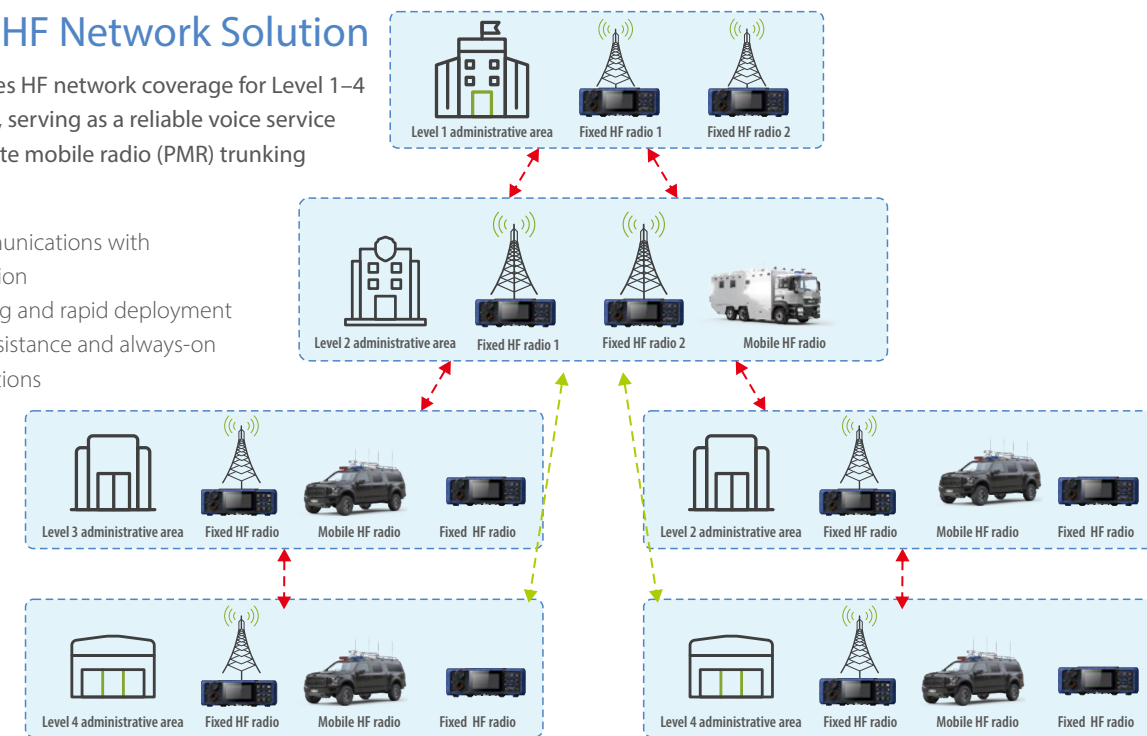
Data transfer

Secure sensitive data such as field files and images even at the maximum transmission rate of 38.4 kbps, thanks to advanced modulation and demodulation, encoding and decoding, and encryption technologies.

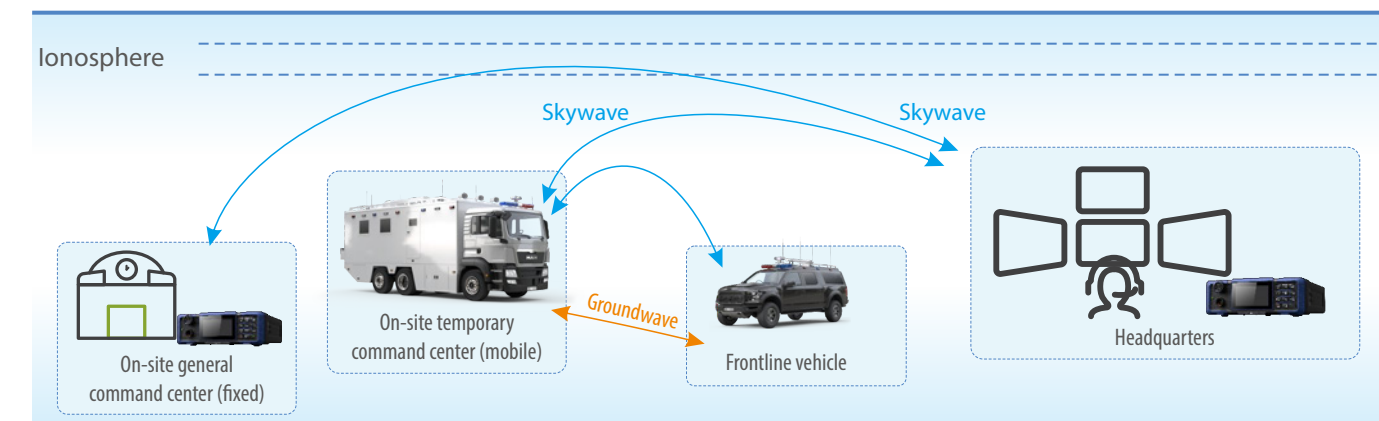
Multi-Level HF Network Solution

This solution provides HF network coverage for Level 1–4 administrative areas, serving as a reliable voice service supplement to private mobile radio (PMR) trunking communications.

- Long-range communications with ionosphere reflection
- Flexible networking and rapid deployment
- Strong damage resistance and always-on voice communications



Typical HF Deployment Solution



HF-PMR Network Interconnection Solution

This solution harnesses the capabilities of both the HF network and the emergency PMR network, allowing the on-site general command center to report and dispatch more efficiently.

Interconnecting with the HF radios and E-pack repeaters, this solution can extend the coverage of ad hoc network to empower emergency rescue.

- Unified command and dispatch
- Long-range communications
- Extended coverage of ad hoc network

