

Hytera was a founding member of the DMR Association and was the first company to successfully deploy DMR Tier II and Tier III systems. Since then, Hytera has been a leading provider of DMR radios, and has continuously improved our products based on customer feedback.

The Hytera H-Series of DMR radios and repeater systems is the culmination of this experience and spirit of innovation. The HM782 Mobile Radio is the next-generation in creative style and functionality that elevates the industry standard in professional digital two-way radios.

The HM782 is the new state-of-the art in mobile radios, providing a more efficient and reliable experience with loud and clear audio, intuitive user interface, and gateway connectivity between radio and data networks.

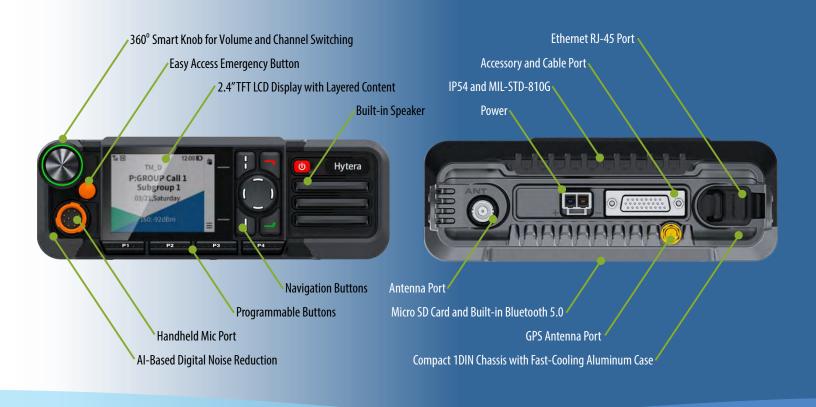
HM782 Mobile Radio and Compact Gateway

THE NEW STANDARD OF QUALITY AND PERFORMANCE





For In-Vehicle Communications, Desktop Dispatching, and Expanding Coverage Areas with Voice and Data Connectivity





Multi-System Flexibility

The HM782 can be deployed in Analog and Digital Conventional, MPT and XPT Trunking, DMR Tier II and Tier III Trunking, IP Multi-Site Connect, and DMR Simulcast Systems.



Greater Calling Flexibility

The HM782 supports Individual Calls (radio to radio, radio to dispatcher), Group Calls (one radio to many, dispatcher to many), All Call (broadcast call to all radios, transmit only), and Telephone Calls (with connectivity to PSTN, PABX or SIP networks).



Clear and Bright Display

The HM782 features a 2.4-inch, 240x300 HD TFT-LCD display with an intuitive six-grid navigation interface with large type and icons. The display supports 262,000 colors, and is clearly visible in bright sunlight.



Enhanced Worker Safety

The HM782 radios are designed for worker safety with an easy access emergency button, emergency calling, and priority interrupt.

Lone Worker prompts the user to press a key at preset intervals to indicate they are safe.

Large tactile knobs and piano-style buttons provide easy access that keep eyes on the road.



Louder and Clearer Audio

Hytera provides industry-leading audio quality through an optimized forward-facing loudspeaker and Al-based voice enhancement with deep learning ability that can accurately extract voice from noise in real time and decreases unwanted background noises as loud as 30db.



Enhanced GPS Location Tracking

The HM782 reports current location information to other radios, the dispatcher, or third-party applications in real time, enhancing the efficiency of visualized dispatch applications.

GPS data is transmitted during voice calls for immediate location targeting, and GPS data can be compressed to increase channel capacity and reduce hardware cost.



Higher Security

The HM782 supports Digital End-to-End and Overthe-Air Encryption for voice and data. Hardware encryption is implemented through a built-in encryption card. Advanced software encryption uses the ARC4 and AES encryption algorithms.



Durable and Rugged

IP54 compliant for water and dust ingress, and MIL-STD- 810 G for shock and humidity.

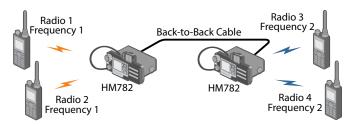
THE HM782 IS THE NEW STANDARD OF RADIO NETWORK FLEXIBILITY



APPLICATION EXAMPLES: The HM782 can extend coverage range, connect multiple radio sites, provide wireless data transmission, and support multiple simultaneous mode functions.

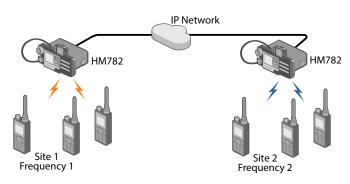
Back-To-Back

The HM782 can be deployed Back-to-Back to enable communication between analog and digital radios, or radios with different frequencies. Two HM782 radios can be deployed Back-to-Back, or one radio and a repeater can be used.



IP Transit

Multiple HM782 mobile radios can be connected to an Ethernet/IP network to provide a reliable and cost-effective method to connect remote radio sites and extend coverage areas. IP Transit can connect radio sites with analog or digital radios, and radios with different frequencies.



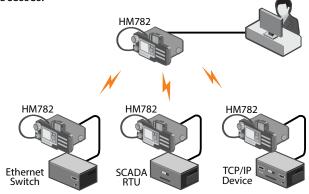
Wireless Link

In situations where a wired IP network is unavailable between two repeaters, two HM782 radios using different frequencies can provide a wireless link between the repeaters.



Clarity Transmission

The Clarity Transmission feature provides a wireless data path between remote network devices and a central network management station. HM782 radios function as compact gateway devices and provide wireless channels that transparently transmit data without any modification, and can be deployed in a variety of monitoring and industrial control processes.



FLEXIBLE CONFIGURATIONS

The HM782 can be deployed in a variety of configurations to meet any mobile radio application.

Standard Conventional Control Head

The HM782 can be installed near the driver as a single unit with the control head and handheld microphone.



Single or Dual Remote Control Heads

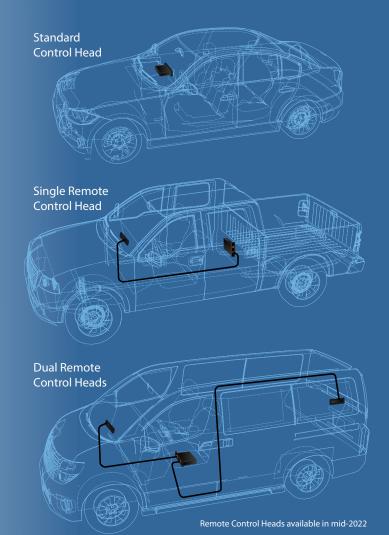
The HM782 can be deployed with a remote control head that is connected via a cable to the radio installed under the seat or the rear of the vehicle compartment. Two remote control heads to be installed in different locations within the vehicle for multiple users or easy access to the radio in large vehicles.



Standalone Desktop

The HM782 can also be deployed in a case with a power supply for desktop dispatching applications, for repeater applications connecting multiple radio sites, or gateway applications to provide wireless data transmission.





SPECIFICATIONS

| General | | |
|-----------------------------|--|--|
| Frequency Range | UHF 350-470MHz , VHF 136-174MHz | |
| Channel Capacity | 1,024 Channels (512 Analog, 512 Digital) | |
| Zone Capacity | 64 Zones with 256 Channels per Zone | |
| Channel Spacing | 12.5kHz / 20kHz / 25kHz | |
| Operational Voltage | 13.6V ±15% | |
| Current Drain | Standby: <0.5A Receive: <2.0A Transmit: 1W <3A, 5W <4A, 25W <8A, 45/50W <12A | |
| Weight | 56.1oz (1,520g) | |
| Dimensions (HxWxD) | 2 7/16" x 6 31/32" x 7 1/16" (61.5 x 177 x 179mm) | |
| Frequency Stability | ± 0.5ppm | |
| Antenna Impedance | 50Ω | |
| Display | LCD 2.4", 240x320, 262,000 colors, 10 rows | |
| Bluetooth | BT 5.0 BLE+EDR | |
| | Receiver | |
| Digital Sensitivity | 0.18μV (BER5 5%) | |
| Analog Sensitivity | 0.16μV (Typical) (12dB SINAD) 0.18μV (12dB SINAD) | |
| Adjacent Selectivity | TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz | |
| Spurious Response Rejection | TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz | |
| Intermodulation | TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz | |
| Blocking | TIA-603: 80dB ETSI: 84dB | |
| Hum and Noise | 40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz | |
| Rated Audio Power Output | Internal (20 Ohm load) 3W, 8W Max External (8 Ohm load) 8W, 20W Max | |
| Rated Audio Distortion | ≤3% | |
| | | |
| Audio Response | +1 to -3dB | |









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Hytera_HM782_DS-A

| | Transmitter | |
|--|---|--|
| RF Power Output | Low Power: UHF: 1-25W, VHF: 5-25W | |
| | High Power: UHF: 1-45W, VHF: 5-50W | |
| FM Modulation | 11K0F3E @ 12.5kHz | |
| | 14K0F3E @ 20kHh | |
| | 16K0F3E @ 25kHz | |
| 4FSK Digital Modulation | 12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW | |
| Conducted/Radiated Emission | | |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz | |
| Modulation Limiting | ±2.5kHz @ 12.5kHz ±4.0kHz @ 20kHz | |
| | ±5.0kHz @ 25kHz | |
| FM Hum and Noise | 40dB @ 12.5kHz, 43dB @ 20kHz, 45dB @ 20/25kHz | |
| Adjacent Channel Power | 60dB @ 12.5kHz, 70dB @ 20/25kHz | |
| Audio Response | +1 to -3dB | |
| Audio Distortion | ≤3% | |
| Digital Vocoder Type | AMBE+2 TM | |
| Environmental | | |
| Operating Temperature | -22°F to +140°F (-30°C to +60°C) | |
| Storage Temperature | -40°F to +185°F (-40°C to +85°C) | |
| ESD | IEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV Air | |
| Dust and Water Ingress | IP54 Standard | |
| Humidity | Per MIL-STD-810 C/D/E/F/G Standard | |
| Shock and Vibration | Per MIL-STD-810 C/D/E/F/G Standard | |
| GPS (5 Satellites visible at nominal 130dBm) | | |
| Time to First Fix Cold Start | <60 Seconds (Typical TTFF) | |
| Time to First Fix Hot Start | <10 Seconds (Typical TTFF) | |
| Horizontal Accuracy | <5 meters | |

All specifications are subject to change without notice due to continuous development.

| Ordering Information | | |
|----------------------|---|--|
| HM782-Uv | UHF 350-470MHz, 1-45W | |
| HM782-V1 | VHF 136-174MHz, 5-50W | |
| HM782-G-BT-Uv | UHF 350-470MHz, 1-45W, with GPS and Bluetooth | |
| HM782-G-BT-V1 | VHF 136-174MHz, 5-50W, with GPS and Bluetooth | |



Contact Us Online Or Let's Talk! 866-547-4988

