

Specifications



| RF Power Output | 1-10W (adjustable) |
|-------------------------------------|--------------------------------------------------------------|
| FM Modulation | 11К Ф F3E @ 12.5КHz; 14К Ф F3E @ 20КHz; 16К Ф F3E @ 25КHz |
| 4FSK Digital Modulation | 12.5KHz Data Only: 7K6 FXD 12.5KHz Data & Voice: 7K6 FXW |
| Conducted/Radiated Emission | 36dBm<1GHz; -30dBm>1GHz |
| Modulation Limiting | ± 2.5KHz ⊕ 12.5KHz; ± 4.0KHz ⊕ 2GKHz; ± 5.0KHz ⊕ 25KHz |
| FM Hum & Noise | 40d8 @ 12.5KHz; 43d8 @ 20KHz; 45d8 @ 25KHz |
| Adjacent Channel Power | 60d8 @ 12.5KHz; 70d8 @ 20/25KHz |
| Audio Response | +1 ~ -3d8 |
| Audio Distortion | <3% |
| Digital Vocoder Type | AMBE++iţSELP |
| Digital Protocol: | ETSI-TS102 361-1, 283 |
| Operating Temperature | -30°C+60°C |
| Storage Temperature | -40°C -+85°C |
| ESD | IEC 61000-4-2 { level 4 } ± 8kV(contact) = 15kV { air } |
| American Military Standard | MIL-STD-B10 C/D/E/F/G |
| Dust & Water Intrusion | IP67 Standard |
| Humidity | Per MIL-STD-II I 0 C/D/E/F/G Standard |
| Shock & Vibration | Per MIL-STD-810 C/D/E/F/G Standard |
| TTFF (Time To First Fix) Cold Start | <1 minute |
| TTFF (Time To First Fix) Hot Start | <10 seconds |
| Horizontal Accuracy | <10 meters |

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

Accessories

Backpack Remote Speaker Microphone (RSM) Multi-function Bracket Smart Battery













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RD96X

Digital Portable Repeater

- Slim and Portable
- Built-in Duplexer
- Emergency Port
- User-friendly Panel
- External Battery







RD96X

RD96X is Hytera's first digital/analog portable repeater that is compatible with the DMR standard. Compact and embedded with a mini duplexer, the device is fairly wieldy. Equipped with a wide selection of components, RD96X easily fits into various application scenarios, whether on your back and a wall or in your suitcase and a cabinet. It supports a range of power supply plans to guarantee uninterrupted communications during emergencies; its API and 100 Mbps network port combine to support an extended array of applications; the device provides IP67 protection, making it reliable in any hostile operating environment.

Applications Public Safety

Public Safety Forest Industry Firefighters Hotels



Ergonomic Design

- Slim and Portable
 Based on a compact design, the device measures only 42mm and weighs less than 5kg, (include the 10Ah battery).
- Flexible Applications
 Fitted with a wide variety of components, the product can be desk
 or wall-mounted for in-building coverage, installed in a mobile
 suitcase or cabinet for emergency communications, or carried on
 the back for forest firefighting.
- Built-in Duplexer
 Embedded with an optional mini duplexer, RD96X can be slimmer in size.
- External Battery
 With an external large-capacity battery, the device delivers an extended battery life to guarantee uninterrupted communications.
- Emergency Port
 The port allows for power connection in emergencies.
- IP67 Protection
 Compatible with the IP67, the device can operate properly under immersion test (1meter for up to 30 minutes).
- Reliable and Durable
 Compatible with the American military standard MIL-STD-810
 C/D/E/F/G and HALTverified, the device can perform excellently in hostile operating environments.
- User-friendly Panel
 The operating panel provides a wide range of channel status indicators, a button for channel adjustment, and a port for palm microphone or remote speaker microphone.



Additional Features

- GPS
 The GPS module supports GPS data transmission and enables emergency command centers to monitor the location of a small mobile network in real time.
- Smart Battery (optional)
 A 10Ah smart Li-lon battery can support at least eight hours of work when working at 50% duty cycle and high TX power.
 Compatible with the smbus1.1 standard, RD96X can monitor battery conditions such as estimated remaining capacity, used capacity percentage, and usage record; the device can also maximize the battery life; through smart charge management, it can automatically recharge the battery for use anytime; powered by three levels of battery protection, the device considerably enhances charging safety and reliably.
- Repeater Diagnostics and Control
 Through a PC-based application, the product can monitor,
 diagnose and control remote (connected to the Internet via an IP
 port) and local repeaters (via a USB port), thus increasing the
 productivity. Hytera's RDAC software supports network access at
 multiple points and allows the administrator to monitor
 networked two-way radios.
- Voice Input/output via Dual Time Slots: easy for monitoring and voice recording
 In digital mode, the device supports voice input and output via dual time slots and enables users to record calls continuously.
- Digital/analog Compatibility and Smart Switching
 Back to back interconnection of digital & analog network can be
 achieved by wired or wireless IP, ensuring a smooth analog-todigital transition.
- Flexible Networking
 By connecting geographically distributed repeaters that run at
 the same or different frequencies to form an IP-based and
 location-independent wireless communication network, IP-based
 repeater interconnection allows mobile radios to obtain voice
 and data services while roaming.
- 16 Channels
 The product supports up to 16 channels. You can switch between channels using PCbased RDAC software, the channel selector knob on the front panel, or the external interface on the repeater.
- Digital-analog Interconnection for Smooth Transition
 The feature enables two-way radios with digital and analog
 capabilities, and digital and analog users to intercommunicate in
 different operating modes to guarantee users' seamless transition
 from analog to digital capabilities.
- Supports Operating both in Analog and Digital Mode
- Upgradable Software
 This enables you to easily add functions through software upgrade without purchasing a new device.