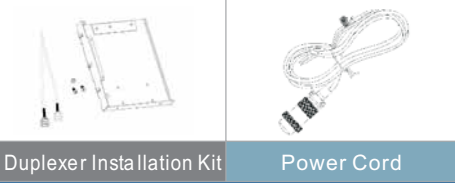


Standard Accessories



Optional Accessories



Specifications

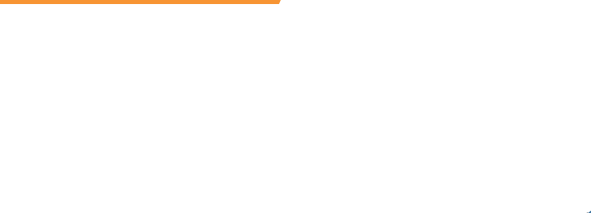
General		Transmitter	
Frequency Range	400-470MHz	RF Power Output	5-50W (continuous)
Channel Capacity	1	FM Modulation	16K _F F3E @ 12.5 kHz 14K _F F3E @ 20 kHz 11K _F F3E @ 25 kHz
Channel Spacing	25/20/12.5 kHz	4FSK Digital Modulation	12.5kHz (Data Only): 7K60FXD 12.5kHz (Data & Voice): 7K60FXE
Operating Voltage	13.6 V DC	Conducted / Radiated Emission	-36dBm <1GHz -30dBm >1GHz
Current Standby (Max.)	0.8A	Modulation Limiting	±2.5kHz @ 12.5 kHz ±4.0 kHz @ 20 kHz ±5.0kHz @ 25 kHz
Drain Transmit (Max.)	11A	FM Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz
Frequency Stability	±0.5ppm	Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25KHz
Antenna Impedance	50Ω	Audio Response	+1 ~ -3dB
Duty Cycle	100%	Audio Distortion	3%
Dimensions (W*H*L)	483 X 88 X 366 mm	Digital Vocoder Type	AMBE++/SLEP
Weight	8.5 Kg	Digital Protocol	ETSI-TS102 361-1
LCD Display	220*176 pixels, 262,000 colors	Environmental Specifications	
Receiver		Operating Temperature	-30°C+60°C
Sensitivity (Analog)	0.3µV (12dB SINAD) 0.22µV (µDÖ) (12dB SINAD) 0.4µV (20dB SINAD)	Storage Temperature	-40°C+85°C
Sensitivity (Digital)	0.3µV/BER5%	All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.	
Adjacent Channel Selectivity TIA-603 ETSI	65dB @ 12.5 kHz / 75dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz		
Intermodulation TIA-603 ETSI	75dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz		
Spurious Response Rejection TIA-603 ETSI	85dB @ 12.5/20/25 kHz 80dB @ 12.5/20/25 kHz		
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz		
Rated Audio Power Output	0.5W		
Rated Audio Distortion	3%		
Audio Response	+1~-3 dB		
Conducted Spurious Emission	-57 dBm		



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RD982
Digital Two-Way Radio



As a product built to the DMR standard, the Hytera RD982 digital repeater is engineered with the end-user in mind. It's ergonomic design, reliable performance, and exceptional features deliver an advanced communication solution ideal for a variety of applications. RD982, your digital advantage for more efficient communication.



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Industrial Design Features >>

Professional Appearance

The innovative LED on the volume control knob compliments sleek style and design optimizing its utility. User-friendly menu plus large navigation knob ensures exceptional operating experience.

Clear LED Indications

The 8 LED's on the front panel allows the ease of identifying the current status of your repeater.

2.0" High Resolution Color LCD

Whenever you operate, maintain, or upgrade the repeater, the large reflective TFT color display allows you to access your desired information with ease.

Ergonomic Design

The slanted handles make installation and transfers much easier.

Technical Features >>



Dual-Mode Operation & Auto-Switch

The RD982 repeater operates in either analog or digital mode. There are no issues about its compatibility with analog systems currently in use. The RD98X can switch between digital and analog modes intelligently based on the type of signals received from subscriber radio, ultimately saving time and money manually configuring frequencies or channels.

100% Duty Cycle

The RD982 repeater is capable of 100% duty cycle at full power (50W), meeting demanding requirements of any conventional or digital trunking systems.

Flexible Installation Options

The RD982 repeater can be perfectly mounted in a 2RU/19" standard cabinet. Alternatively, you can choose to mount it on a rack, bracket, or on a desk with ease. In addition, the space reserved inside the repeater for an optional duplexer helps it maintain compact.



Spectrum Efficiency

Benefitting from TDMA technology, the RD982 repeater allows twice the users to share the same channel, compared with analog or FDMA digital systems. This is a huge relief due to the limiting spectrum resource, furthermore saving cost on systems equipment and frequency license.

Secure Communications

The RD982 repeater is furnished with an enhanced digital encryption capability. Eavesdropping issues are no longer a problem now that of your communication is fully secured.

Excellent Cooling Performance

The power amplifier can dissipate its heat at an exceptional rate utilizing the heat sink which is also equipped with a cooling fan to ensure stable operation at high power.



Repeater / Base Mode Operation

When the repeater operates on an analog channel, you can choose to make it operate in Repeater mode or in Base mode. In the Base mode, the repeater can be used as a duplex transceiver.

Solid Reliability

As a product built to military standard, the repeater can deliver solid reliability and outstanding performance over a long time. The test result from a 3rd party lab proves that its MTBF (Mean Time between Failures) runs up to 100,000 hours, meeting demanding requirements in extreme environments.

2RU

Standard 19", 2RU rack-mount design, compatible with desktop housing as well

LED

Colored LEDs for clear status indication



Advanced heat sink design with thermal-controlled cooling fan



Ergonomically designed handle makes operation more comfortable



Programmable buttons for customized application

2.0" TFT LCD and menu navigation knob to facilitate service and maintenance



Internal installation for mobile duplexer

