# **Specifications**

	G	ieneral	
Frequency Range		UHF: 400-470MHz VHF:136-174MHz	
Channel Capacity		16	
Channel Capacity		25/20/12.5 kHz	
Operating Voltage		13.6 ± 15% V DC	
Current Drain	Standby	1.2A	
	Transmit	12A	
Frequency Stability		± 1ppm	ı
Antenna Impedance		50 Ω	
Duty Cycle		100%	ı
Dimensions (W×H×D)		483 X 88 X 366 mm	
Weight		8.5 Kg	
LCD Display		220X176 pixels; 262,000 colors	
		Receiver	5
Sensitivity(Analog)		0.3 μ V (12dB SINAD) 0.22 μ V (Typical) (12dB SINAD) 0.4 μ V (20dB SINAD)	
Sensitivity(Digital)		0.3 μ V/BER5%	
Blocking		100dB	
Adjacent Channel Selectivity TIA-603 ETSI		65dB @ 12.5 kHz / 75dB @ 20/25 kHz 65dB @ 12.5 kHz / 75dB @ 20/25 kHz	I
Intermodulation TIA-603 ETSI		75dB@12.5/20/25KHz 70dB@12.5/20/25KHz	
Spurious Response Rejection			
TIA-603 ETSI		85dB@12.5/20/25KHz 80dB@12.5/20/25KHz	ı
Hum and Noise		40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	
Rated Audio Power Output		0.5W	
Audio Distortion		3%	
Audio Response		+1~-3 dB	
Conducted Spurious		–57 dBm	

Transmitter			
RF Power Output	5–50W ( Continuous )		
FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz		
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 @ 12.5 kHz ± 4.0 kHz @ 20 kHz ± 5.0kHz @ 25 kHz		
FM Hum and Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz		
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25KHz		
Audio Response	+1 ~ -3dB		
Audio Distortion	3%		
Digital Vocoder Type	AMBE++/SELP		
Environme	ental Specifications		
Operating Temperature	-30°C ~ +60°C		
Storage Temperature	-40°C ~ +85°C		



Hytera Communications Corporation Limited

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# RD985

**Powerful Digital Repeater** 

As a professional repeater built to the DMR standard, RD985 integrates user concerns and actual requirements. Powerful digital feature, remarkable service quality and considerate ergonomic design. It will refresh your communication experience!



- · Smart A/D Detection, Smooth Migration
- Outstanding Reliability

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### Product Features >>>



## Smart Analog & Digital **Auto Detection**

This repeater supports digital and analog modes. It can smartly select the right one based on the type of received signal, allowing you to enjoy digital delights with ease.

# Advanced TDMA Technology

The application of Time Division Multiple Access (TDMA) technology greatly enhances spectrum efficiency, which allows twice the user compared with that of traditional FDMA. Obviously, this can not only save your cost in infrastructure and frequency license, but also relieve the pressure of increasing shortage in spectrum resources.



# 128-bit Digital Encryption

The advanced 128-bit encryption technology can secure your communication from being eavesdropped.

#### **Outstanding Reliability**

The unique seatsink design combining a builtin heat pipe and a temperature-controlled fan ensures quick heat dissipation, enabling the repeater to work normally even with full power.



# Handy Management Service

With the management software, you can remotely monitor and diagnose a repeater. In addition, you can either record or play back the audio freely in digital mode.

#### Innovative LED Design

The innovative LED and the 2.0" HD color display would deliver you the repeater status clearly, as well as a pleasing visual experience.

#### Features >>



## Standard Accessories >>



#### Optional Accessories >>









