### **Specifications**

	General			Transmitter	
	Frequency Range		UHF: 400-470MHz VHF:136-174MHz	RF Power Output	5–50W ( Continuous )
	Channel Capacity		16		
	Channel Capacity		25/20/12.5 kHz	FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz
	Operating Voltage		13.6 ± 15% V DC		
	Current Drain	Standby	1.2A	4FSK Digital Modulation	12.5kHz Data Only: 7K6ΦFXD 12.5kHz Data & Voice: 7K6ΦFXW
		Transmit	12A		
	Frequency Stability		±1ppm	Conducted/Radiated Emission	−36dBm <1GHz −30dBm >1GHz
	Antenna Impedance		50Ω		
	Duty Cycle		100%	Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0 kHz @ 20 kHz ± 5.0kHz @ 25 kHz
	Dimensions (W×H×D)		483 X 88 X 366 mm		
	Weight		8.5 Kg		
	LCD Display		220X176 pixels; 262,000 colors		40dB @ 12.5 kHz
			Receiver	FM Hum and Noise	43dB @ 20 kHz 45dB @ 25 kHz
			0.3 µ V (12dB SINAD)		
		itivity(Analog)	0.22 μ V (Typical) (12dB SINAD) 0.4 μ V (20dB SINAD)	Adjacent Channel Power Audio Response	60dB @ 12.5 kHz 70dB @ 20/25KHz
Sens		itivity(Digital)	0.3 μ V/BER5%		+1 ~ -3dB
	Blocking		100dB	Audio Distortion	3%
				Digital VocoderType	AMBE++/SELP
	Adjacent Channel Selectivity TIA-603 ETSI		65dB @ 12.5 kHz / 75dB @ 20/25 kHz 65dB @ 12.5 kHz / 75dB @ 20/25 kHz	Environmental Specifications	
				Operating Temperature	-30°C ~ +60°C
Int		rmodulation		Storage Temperature	-40℃ ~+85℃
		TIA-603	75dB@12.5/20/25KHz 70dB@12.5/20/25KHz		
	ETSI Spurious Response Rejection		70dB@12.9/20/29KH2	All Specifications are tested according without notice due tocontinuous deve	igto applicable standards, and subjectto change elopment.
			0F-4B-040 F-100-10FWH-		
	TIA-603 ETSI		85dB@12.5/20/25KHz 80dB@12.5/20/25KHz		
			40dB @ 12.5 kHz		
	Hu	m and Noise	43dB @ 20 kHz		



Rated Audio Power

Hytera Communications Corporation Limited

HYT is a registered trademark of Hytera

HYTERA retains right to change the product design and specification. Should any printing mistake occur, HYTERA doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

+1~-3 dB

Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan RD., Nanshan District, Shenzhen, China Tel: +86-755-2697 2999 | Fax: +86-755-8613 7139 | Post: 518057





# **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

www.hytera.cn









#### 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 >>**













