

## Specifications

Frequencies		UHF1: 400-470MHz; UHF2: 450-520MHz UHF3: 350-400MHz; VHF: 136-174MHz
Channel Capacity		16
Channel Spacing		12.5KHz/20KHz/25KHz
Operating Voltage		13.6V ± 15%
Channel Capacity	Standby	<0.8A
	Transmit	<11A
Frequency Stability		± 0.5ppm
Antenna Impedance		50 Ω
Duty Cycle		100%
Dimensions (H × W × D)		88 X 483 X 366 mm
Weight		8.5Kg
LCD Display		220*176 pixels, 262000 colors; 2.0 inch, 4 rows
Sensitivity	Analog	0.3 μ V (12dB SINAD); 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)
	Digital	0.3uV/BER5%
Adjacent Channel Selectivity TIA-603 ETSI		65dB @ 12.5KHz ; 75dB @ 20/25KHz 65dB @ 12.5KHz ; 75dB @ 20/25KHz
Intermodulation TIA-603 ETSI		75dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
Spurious Response Rejection TIA-603 ETSI		80dB @ 12.5/20/25KHz 80dB @ 12.5/20/25KHz
Blocking TIA-603 ETSI		90dB 90dB
Hum and Noise		40dB@12.5KHz 43dB@20KHz 45dB@25KHz
Rated Audio Power Output		0.5W
Rated Audio Distortion		≤ 3%
Audio Response		+1 ~ -3dB
Conducted Spurious Emission		<-57dBm

RF Power Output	5-50W
FM Modulation	11K0F3E @ 125KHz; 14K0F3E @ 20KHz; 16K0F3E @ 25KHz
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD; 12.5KHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm <1GHz; -30dBm >1GHz
Modulation Limiting	± 2.5KHz @ 12.5KHz; ± 4.0KHz @ 20KHz; ± 5.0KHz @ 25KHz
FM Hum & Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz
Adjacent Channel Power	60dB @12.5KHz; 70dB @ 20/25KHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤ 3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environmental Specifications	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

## Standard Accessories

Power Cord

## Optional Accessories

Palm Microphone SM16A1	Desktop Microphone SM10A1	Build-in Duplexer Installation Kit (for DT11-DT17) BRK16	External Power Supply (300W, backup power applicable) PS22002	Bracket (2U)(black) BRK12	Bracket (2U)(grey) BRK14	Power Cord (10A 12AWG) PWC11	10pin programming cable (USB) PC37	DB26 data cable (USB) Pc40
			Duplexer (Frequency: 380-470MHz; RX-TX spacing: 5-13MHz) DT11 Duplexer (Frequency: 160-174MHz; RX-TX spacing: 5MHz) DT12 Duplexer (Frequency: 148-160MHz; RX-TX spacing: 5MHz) DT13 Duplexer (Frequency: 336-370MHz; RX-TX spacing: 8-13MHz) DT14 Duplexer (Frequency: 136-148MHz; RX-TX spacing: 5MHz) DT15 Duplexer (Frequency: 440-480MHz; RX-TX spacing: 5MHz) DT16 Duplexer (Frequency: 480-512MHz; RX-TX spacing: 5MHz) DT17					
Omni-directional Antenna	Palm Microphone (IP67) SM16A2	Back to Back Data Cable PC49	Pictures above are for reference only and may vary from actual products.					



## RD98X Powerful Digital Repeater

- Smart Digital-Analog Switch
- Outstanding Heat Dissipation

For more information please visit: [dmr.hytera.com](http://dmr.hytera.com)

