

lightweight design makes the HR65X effortless to carry on the back. It can be turned on and used with one key operation after arriving ideal solution for you to use in mobile search and rescue scenarios.

to MIL-STD-810 G standards for ruggedness and is IP67 rated for dust and water intrusion. An exceptionally robust design ensures HR65X performance is stable and excellent.



Long Battery Life

It can be equipped with a 12.5Ah large-capacity battery for use in under the RF power output of 10 W. Even if it is used at 50% duty cycle at 25 W full power, it can still guarantee 4 hours of unint



CDECIEICATIONS

General			
Frequency Range	400-470MHz		
Channel Capacity	1024		
Channel Spacing		0kHz/25kHz	
Operating Voltage Current	DC: 14.4V±15% Standby: ≤0.35A		
Consumption(DC)	Standby: ≤0.35A Transmitting: 10W≤3A; 25W≤6A		
Battery	12.5Ah		
Battery Life	High power 25 W version: 4hrs		
(50-50 Duty Cycle)		10 W version: 9hr	
Frequency Stability	≤±0.5ppm		
Antenna Impedance	50Ω		
Duty Cycle	100%		
Dimensions (H x W x D)	High power 25W verison: 201mm x 211mm x 80.6mm(with Fan Low power 10W verison: 201mm x 211mm x 65.8mm		
Weight	High power 25W Version: 2.0kg		
Weight	Low power 10W Version: 1.9kg		
Networking	Single-site repeater Mode, IP Multi-site Mode		
Receiver			
	Analog	0.18µV(12dB SINAD) 0.16µV(typical)(12dB SINAD) 0.18µV/BER5%	
Sensitivity			
	Digital		
Adjacent	TIA-603	65dB@12.5kHz/75dB@20/25kHz	
Channel Selectivity	ETSI	60dB@12.5kHz/70dB@20/25kHz	
Inter-modulation	TIA-603	75dB@12.5/20/25kHz	
	ETSI	70dB@12.5/20/25kHz	
Spurious Response	TIA-603	80dB@12.5/20/25kHz 80dB@12.5/20/25kHz	
Rejection	ETSI	000D@12.3/20/23K12	
Blocking Hum and Noise	90dB 40dB @ 12 ¹	иов иов @ 12.5kHz; 43dB @ 20kHz;45dB @ 25kHz	
Rated Audio Distortion	400B @ 12.5KHZ; 450B @ 20KHZ;450B @ 25KHZ ≤3%		
Audio Response	+1~-3dB		
Conducted	Operating	≤1GHz	≤ - 57dBm
Spurious Emission	Standby	>1GHz	≤-47dBm
Transmitter			
Output Power	High power 25W version 1-25W (Continuous adjustable)		
	Low power 10W version 1-10W (Continuous adjustab		
FM Dodulation	11K0F3E@12.5kHz 14K0F3E@20KHz 16K0F3E@25kHz		
4FSK Digital Modulation	12.5kHz(only data): 7K60FXD 12.5kHz(both data and voice): 7K60FXW		
Conducted/Radiated Emission	Operating: -36dBm≤1GHz,-30dBm>1GHz Standby: -57dBm≤1GHz,-47dBm>1GHz		
E1111001011	+25141-0	12 51/11-2	
	±2.5kHz@	12.38112	
Dodulation Limiting	±4.0KHz@		
Dodulation Limiting	±4.0KHz@ ±5kHz@25	20KHz 5kHz	
	±4.0KHz@ ±5kHz@25	20KHz 5kHz	Hz; 45dB @ 25kHz
Dodulation Limiting	±4.0KHz@ ±5kHz@25	20KHz ikHz .5kHz; 43dB @ 20k //20kHz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel	±4.0KHz@ ±5kHz@25 40dB@12.5	20KHz ikHz .5kHz; 43dB @ 20k //20kHz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power	±4.0KHz@ ±5kHz@25 40dB @ 12 60dB@12.5 70dB@25kl	20KHz ikHz .5kHz; 43dB @ 20k //20kHz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response	±4.0KHz@ ±5kHz@25 40dB @ 12 60dB@12.5 70dB@25kl +1~-3dB	20KHz ikHz .5kHz; 43dB @ 20k //20kHz Hz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance	±4.0KHz@ ±5kHz@25 40dB@12 60dB@12.5 70dB@25kl +1~3dB ≤3% AMBE+2™	20KHz ikHz .5kHz; 43dB @ 20k /20kHz Hz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~-3dB ≤3% AMBE+2™ e -30°C~+60	20KHz iskHz .5kHz; 43dB @ 20k /20kHz Hz	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~3dB ≤3% AMBE+2™ e -30°C~+60 -40°C~+85	20KHz ikHz .5kHz, 43dB @ 20k /20kHz Hz 0°C	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~3dB ≤3% AMBE+2™ e -30°C~+60 -40°C~+83	20KHz iskHz .5kHz; 43dB @ 20k //20kHz Hz D°C 5°C D 810G	Hz; 45dB @ 25kHz
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~3dB ≤3% AMBE+2™ 20 -40°C~+8l Per MIL-STI IEC 61000~±8kV (cont	20KHz SkHz; 43dB @ 20k /20kHz Hz 9°C 5°C D 810G 4-2(Level 4) act); ±15kV (air)	
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature Humidity	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~-3dB ≤3% AMBE+2™ e -30°C~+60 -40°C~+8! Per MIL-STI IEC 61000— ±8kV (cont. 25W: IP54	20KHz 5kHz 5kHz; 43dB @ 20k 720kHz Hz 9°C 5°C 0 810G 4-2(Level 4)	version: IP54
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature Humidity ESD Dust and Water Intrusion Positioning	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~-3dB ≤3% AMBE+2™ -30°C~+60 -40°C~+8! Per MIL-STI IEC 61000— ±8kV (cont. 25W: IP54 10W: IP67	20KHz 5kHz; 43dB @ 20k /20kHz Hz 0°C 0°C 0 810G 4-2(Level 4) act); ±15kV (air) High power 25 W v Low power 10 W v	version: IP54
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Humidity ESD Dust and Water Intrusion Positioning Positioning Positioning Positioning Positioning Positioning Positioning	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~3dB ≤3% -30°C~+6(-40°C~+8! Per MIL-5TI IEC 61000- ±8kV (cont 10W: IP67 1	20KHz 5kHz; 43dB @ 20k /20kHz Hz 0°C 0°C 0 810G 4-2(Level 4) act); ±15kV (air) High power 25 W v Low power 10 W v	version: IP54
Dodulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature Humidity ESD Dust and Water Intrusion Positioning	±4.0KHz@ ±5kHz@25 40dB@12.5 70dB@25kl +1~-3dB ≤3% AMBE+2™ -30°C~+60 -40°C~+8! Per MIL-STI IEC 61000— ±8kV (cont. 25W: IP54 10W: IP67	20KHz 5kHz; 43dB @ 20k /20kHz Hz 0°C 0°C 0 810G 4-2(Level 4) act); ±15kV (air) High power 25 W v Low power 10 W v	version: IP54



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ACCESSORIES













Antenna UHF-M







Manpack*



Power adapter





Built-in duplexer











* :Expected to be released in December 2022

duplexer cable

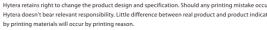


Wall Mount









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Flexible Deployment Analog-digital Compatibility, Convenient Management Easy Networking



Hytera HR65X is the new generation compact DMR repeater designed to expand the communication range of your radios. With high performance and high reliability, the HR65X ensures consistent, reliable, seamless voice and data communications your team need most. It is a top pick for hotels, office buildings, supermarkets, industrial parks, and more.

Compact and lightweight, the HR65X can be flexibly mounted to the wall or carried on the back by tailored accessories,







Smooth Transition

The HR65X can operate in analog mode, DMR mode, or c mixed digital/analog mode, which automatically switches between analog and digital based on the call it receives. Th HR65X can ensure that your original analog radio continues to be connected to the new DMR network and protect your legacy system investment to the greatest extent. This repeater is the ideal solution for you to migrate smoothly from analog to digital vith minimal disruption and investment.



Convenient Management

Thanks to the Extended Network Management System (XNMS), you can remotely monitor the operation status and alarms of the HR65X in real time, or update configuration in minutes. This dramatically reduces the time and resources to maintain repeaters dispersed in different places.



Flexible Deployment

The innovative structure design gives the HR65X an unprecedented outlook and lightweight performance. With the compact body and the built-in duplexer, the HR65X considers space conservation properly. The tailored matching installation accessories achieve very flexible installation on the sites with very limited conditions. You can realize the site construction as long as there is a wall or a limited piece of the plane. For the scenario of indoor coverage, HR65X super slim size minimize site requirement, and the trustworthy voice and data communication offers unlimited connections on each floor which are the keys to achieving your business success.



High Reliability

Designed to operate on an AC power source or an optional battery, the HR65X can keep running in the event of a power outage. When it connects to the AC power supply, the battery works as a backup. In case of an outage, the 12.5Ah battery is ready to power the HR65X for up to nine hours of backup time. This power backup solution reduces the capital investment and maintenance manpower investment for adding UPS power equipment. HR65X gives you durable communication with a time extension.















