





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, uncompromising with on-site installation conditions. The rugged structure makes the HR65X stand up to harsh environments. HR65X allows the communication connection anywhere you need.

Two versions are supported:

- 1, High power 25 W version with an attached fan
- 2, Low power 10 W without fan.









## SPECIFICATIONS

General			
Frequency Range	UHF:400-4	70MHz; VHF:136	-174MHz
Channel Capacity	1024		
Channel Spacing	12.5kHz/2	0kHz/ 25kHz	
Operating Voltage	DC: 14.4V±	15%	
Current	Standby: ≤	0.35A	
Consumption(DC)	Transmittir	ng: 10W≤3A; 25W≤	66A
Battery	12.5Ah		
Battery Weight	About 1.3kg	g	
Battery Life		r 25 W version: 4hı	
(50-50 Duty Cycle)	Low power	10 W version: 9hr	S
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 Fa		
	Low power 10W verison: 201mm x 211mm x 65.8mm		
Weight(without battery)		r 25W Version: 2.0	-
Naturalita a	Low power 10W Version: 1.9kg Single-site repeater Mode, IP Multi-site Mode		
Networking	Single-site	repeater Mode, IP	Multi-site Mode
Receiver			
	Analog	0.18μV(12dB SI	
Sensitivity		0.16μV(typical	)(120B SINAD)
	Digital	0.18μV/BER5%	
Adjacent	TIA-603	65dB@12.5kHz/75dB@20/25kHz	
Channel Selectivity	ETSI	60dB@12.5kHz	z/70dB@20/25kHz
1.1.2	TIA-603	75dB@12.5/20/2	25kHz
Inter-modulation	ETSI	70dB@12.5/20/25kHz	
Spurious Response	TIA-603	80dB@12.5/20/25kHz	
Rejection	ETSI	80dB@12.5/20/25kHz	
Blocking	90dB		
Hum and Noise	40dB @ 12.5kHz; 43dB @ 20kHz;45dB @ 25kHz		
Rated Audio Distortion	≤3%		
Audio Response	+1~-3dB		
Conducted	Operating	≤1GHz	≤-57dBm
Spurious Emission	Standby	>1GHz	≤-47dBm
		>TGHZ	≤-4/UDIII
Transmitter			
	High powe	er 25W version	1-25W (Continuous adjustabl
Transmitter	High powe	er 25W version r 10W version	1-25W (Continuous adjustabl
Transmitter	High powe	er 25W version r 10W version 12.5kHz 20KHz	1-25W (Continuous adjustabl
Transmitter Output Power FM Dodulation	High power Low power 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(o	er 25W version r 10W version 12.5kHz 20KHz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated	High powe Low powe 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(o 12.5kHz(b Operating	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data) : 7K60F)	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD ce) :7K60FXW 0dBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission	High powe Low powe 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(o 12.5kHz(b Operating	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) c: -36dBm≤1GHz,-3 57dBm≤1GHz,-47c	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD ce) :7K60FXW 0dBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting	High power Low power 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(b Operating Standby: -: ±2.5kHz@1 ±4.0KHz@2 ±5kHz@25	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F> oth data and void: :-36dBm≤1GHz,-37 57dBm≤1GHz,-47 2.5kHz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise	High powe Low powe 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(o 12.5kHz(o Operating Standby: - ±2.5kHz@15 ±4.0KHz@25 40dB @ 12	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic - 36dBm≤1GHz,-47c 2.5kHz 20KHz kHz kHz .5kHz; 43dB @ 20k	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD ce) :7K60FXW 0dBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise  Adjacent Channel Power	High power Low power 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(b Operating Standby: -: ±2.5kHz@1 ±4.0KHz@2 ±5kHz@25	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic t-36dBm≤1GHz,-3 57dBm≤1GHz,-47c 2.5kHz 40KHz kHz .5kHz; 43dB @ 20k	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise  Adjacent Channel Power  Audio Response	High powe Low powe 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(b Operating 5tandby: - ±2.5kHz@ ±4.0KHz@ ±5kHz@ 25 40dB @ 12 60dB@12.5	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic t-36dBm≤1GHz,-3 57dBm≤1GHz,-47c 2.5kHz 40KHz kHz .5kHz; 43dB @ 20k	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power	High powe Low powe 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(b 12.5kHz(b Operating Standby: - ±2.5kHz@15 ±4.0KHz@2 ±5kHz@15 40dB@12.9 60dB@12.9 70dB@25k	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic t-36dBm≤1GHz,-3 57dBm≤1GHz,-47c 2.5kHz 40KHz kHz .5kHz; 43dB @ 20k	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type	High power Low power 11K0F3E@: 14K0F3E@: 14K0F3E@: 12.5kHz(0 12.5kHz(0 12.5kHz(0 12.5kHz(b 12.5k	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic t-36dBm≤1GHz,-3 57dBm≤1GHz,-47c 2.5kHz 40KHz kHz .5kHz; 43dB @ 20k	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise  Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance	High power Low power 11K0F3E@114K0F3E@114K0F3E@114K0F3E@112.5kHz(off) 12.5kHz(off) Operating Standby: -1 ±2.5kHz@11 ±4.0KHz@25 40dB @ 12 60dB@12.570dB@25k +1~3dB ≤3% AMBE+2™	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data) : 7K60F) oth data and voic 36dBm≤1GHz,-47c 2.5kHz 2.5kHz 2.5kHz .5kHz, 43dB @ 20k k/20kHz Hz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD ce) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature	High power Low power 11K0F3E@114K0F3E@114K0F3E@114K0F3E@116K0F3E@112.5kHz(0110.5kHz(01	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic t: -36dBms   GHz, -47c 2.5kHz 20KHz kHz .5kHz; 43dB @ 20k 6/20kHz Hz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature Storage Temperature	High powe Low powe 11K0F3E@ 11K0F3E@ 14K0F3E@ 16K0F3E@ 12.5kHz(0 12.5kHz(b 12.5kHz(b 12.5kHz@	er 25W version r 10W version 12.5kHz 20KHz 25kHz Ily data): 7K60F) oth data and voic - 36dBm≤1GHz,-47c 2.5kHz 20KHz kHz - 5kHz 20KHz kHz - 5kHz; 43dB @ 20k 6/20kHz Hz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature	High powe Low powe 11K0F3E@ 11K0F3E@ 11K0F3E@ 12.5kHz(0 12.5kHz(0 12.5kHz(b 12.5kHz(b 12.5kHz@25 40.00	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic -36dBm≤1GHz,-37 77dBm≤1GHz,-47 2.5kHz 20KHz kHz -5kHz; 43dB @ 20k 6/20kHz Hz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD :e) :7K60FXW 0dBm>1GHz JBm>1GHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature Storage Temperature	High powe Low powe 11K0F3E@ 11K0F3E@ 14K0F3E@ 12.5kHz(0 12.5kHz(0 12.5kHz(0 12.5kHz(0 12.5kHz@25 40.0 12.5kHz	er 25W version r 10W version 12.5kHz 20KHz 25kHz Ily data): 7K60F) oth data and voic - 36dBm≤1GHz,-47c 2.5kHz 20KHz kHz - 5kHz 20KHz kHz - 5kHz; 43dB @ 20k 6/20kHz Hz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD ce):7K60FXW 0dBm>1GHz HBm>1GHz Hz; 45dB @ 25kHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature Storage Temperature Humidity  ESD	High power Low power 11K0F3E@: 14K0F3E@: 14K0F3E@: 12.5kHz(0) 12.5kHz(0) Operating Standby: -: ±2.5kHz@11 ±4.0KHz@25 40dB @ 12 60dB@12.5 70dB@25k +1~3dB ≤3% AMBE+2™ e -30 ~+66 -40 ~+8! Per MIL-STI IEC 61000- ±8kV (cont	er 25W version r 10W version l 2.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic : -36dBm≤1GHz,-3 57dBm≤1GHz,-47c 2.5kHz 20KHz kHz 20KHz kHz -5kHz; 43dB @ 20k 5/20kHz Hz	1-25W (Continuous adjustable 1-10W (Continuou
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  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	High power Low power 11K0F3E@: 14K0F3E@: 14K0F3E@: 12.5kHz(0) 12.5kHz(0) Operating Standby: -: ±2.5kHz@11 ±4.0KHz@25 40dB @ 12 60dB@12.5 70dB@25k +1~3dB ≤3% AMBE+2™ e -30 ~+66 -40 ~+8! Per MIL-STI IEC 61000- ±8kV (cont	er 25W version r 10W version l 2.5kHz 20KHz 25kHz nly data): 7K60F) oth data and voic -36dBm≤1GHz,-47c 2.5kHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 3.5kHz 4.720kHz 4.7	1-25W (Continuous adjustable 1-10W (Continuou
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise  Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performance Operating Temperature Storage Temperature Humidity	High power Low power 11K0F3E@: 14K0F3E@: 14K0F3E@: 12.5kHz(0) 12.5kHz(0) Operating Standby: -: ±2.5kHz@11 ±4.0KHz@25 40dB @ 12 60dB@12.5 70dB@25k +1~3dB ≤3% AMBE+2™ e -30 ~+66 -40 ~+8! Per MIL-STI IEC 61000- ±8kV (cont	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data):7K60F) oth data and voic -36dBm≤1GHz,-47c 2.5kHz 10KHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 3.5kHz 4.720kHz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD re):7K60FXW 0dBm>1GHz dBm>1GHz Hz; 45dB @ 25kHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission 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	High power Low power 11K0F3E@: 14K0F3E@: 14K0F3E@: 12.5kHz(0 12.5kHz(0 Operating Standby: -: ±2.5kHz@1 ±4.0KHz@2 ±5kHz@25 40dB @ 12 60dB@12.5 70dB@25k +1~3dB ≤3% AMBE+2™ Per MIL-STI IEC 61000- ±8kV (cont 25W: IP54 10W: IP67	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data):7K60F) oth data and voic -36dBm≤1GHz,-47c 2.5kHz 10KHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 3.5kHz 4.720kHz	1-25W (Continuous adjustabl 1-10W (Continuous adjustabl KD re):7K60FXW 0dBm>1GHz dBm>1GHz Hz; 45dB @ 25kHz
Transmitter Output Power  FM Dodulation  4FSK Digital Modulation Conducted/Radiated Emission  Dodulation Limiting  FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type Environment Performanc Operating Temperature Storage Temperature Humidity  ESD  Dust and Water Intrusion  Positioning Positioning Positioning Positioning	High powe Low powe 11K0F3E@ 11K0F3E@ 11K0F3E@ 11K0F3E@ 12.5kHz(0 1	er 25W version r 10W version 12.5kHz 20KHz 25kHz nly data):7K60F) oth data and voic -36dBm≤1GHz,-47c 2.5kHz 10KHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 2.5kHz 3.5kHz 4.720kHz	1-25W (Continuous adjustable 1-10W (Continuou

## **ACCESSORIES**





Power Cord



Battery





• Antenna UHF-M

• Wall-mount kit





• Power adapter

Manpack





Palm

• Built-in duplexer





• Programming cable

External duplexer cable





Wall Mount

Bracket Kit



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