

The Hytera X1p is an ultra-thin digital radio with full keypad. It was developed in full compliance with ETSI, the standard for Digital Mobile Radio (DMR) and offers a comprehensive feature set, ideal for covert security and professional applications.










Specifications






General	
Frequency Range	VHF: 136 – 174 MHz UHF: 400 – 470 MHz UHF2: 450-520MHz
Supported operating modes	<ul style="list-style-type: none"> • DMR Tier II in acc. with ETSI TS 102 361-1/2/3 • Simulcast • XPT Digital Trunking • DMR Tier III in acc. with ETSI TS 102 361-1/2/3/4 • Analogue, MPT 1327
Channel capacity	Up to 1024
Number of zones	64 (with max. 256 channels each)
Channel spacing	12.5 / 20 / 25 kHz (analogue) 12.5 kHz (digital)
Operating Voltage	7.4 V (nominal)
Battery	1800 mAh (lithium-ion battery)
Battery life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 10 hours (analogue) approx. 12 hours (digital)
Frequency stability	± 1.5 ppm
Antenna impedance	50 Ω
Dimensions (H x W x D) (with battery, without antenna)	119.5 x 57 x 21 mm (1100 mAh battery) 119.5 x 57 x 23 mm (1400 mAh battery) 119.5 x 57 x 26 mm (1800 mAh battery)
Weight (with antenna and standard battery)	approx. 240 g (with 1100 mAh battery) approx. 260 g (with 1400 mAh battery) approx. 280 g (with 1800 mAh battery)
LCD display	160 x 128 pixels, 65,536 colors, 1.8 inch, 4 lines
Programmable Keys	4+ number keys
Ambient data	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (Level 4), ± 8 kV (contact), ± 15 kV (air)
Protection against dust and moisture	IP67
Shock and vibration resistance	MIL-STD-810 C/D/E/F/G
Relative humidity	MIL-STD-810 C/D/E/F/G
Transmitter	
Transmitting power (adjustable)	VHF: 1 / 5 W UHF: 1 / 4 W
Modulation	11 K0F3E at 12.5 kHz, 14 K0F3E at 20 kHz, 16 K0F3E at 25 kHz
4FSK Digital Modulation	12.5 kHz (data only): 7K60FXD 12.5 kHz (data and voice): 7K60FXW
Interfering signals and harmonics	-36 dBm (< 1GHz) -30 dBm (> 1GHz)
Modulation Limiting	± 2.5 kHz at 12.5 kHz, ± 4.0 kHz at 20 kHz, ± 5.0 kHz at 25 kHz
Hum and noise	40 dB at 12.5 kHz, 43 dB at 20 kHz, 45 dB at 25 kHz
Adjacent channel selectivity	60 dB at 12.5 kHz 70 dB at 20 / 25 kHz
Audio sensitivity	+ 1dB at - 3dB
Nominal audio distortion	≤3%
Digital Vocoder Type	AMBE+2™
Receiver	
Sensitivity (analogue)	0.22 µV (12 dB SINAD), 0.22 µV (typical) (12 dB SINAD), 0.4 µV (12 dB SINAD)
Sensitivity (digital)	0.3 µV/BER 5%
Adjacent channel selectivity	TIA-603: 65dB@12.5kHz/75dB@20/25kHz ETSI: 60dB @ 12.5kHz / 70dB @ 20 / 25kHz
Intermodulation	TIA-603: 70 dB at 12.5 / 20 / 25 kHz ETSI: 65 dB at 12.5 / 20 / 25 kHz
Spurious response rejection	TIA-603: 70 dB at 12.5 / 20 / 25 kHz ETSI: 70 dB at 12.5 / 20 / 25 kHz
Hum and noise	40 dB at 12.5 kHz, 43 dB at 20 kHz, 45 dB at 25 kHz
Nominal audio distortion	3 % (500 mW)
Nominal audio power output	500 mW
Conducted spurious emission	< -57dBm
GPS (optional)	
Time to rst position recognition (TTFF) cold start	< 1 minute
Time to rst position recognition (TTFF) warm start	< 10 seconds
Horizontal accuracy	< 10 meter

Accessories

Standard

	BL1401 Lithium-Ion Battery (1400mAh)
	CH10L16 MCU Dual-Pocket Charger
	PS1044 Universal Standard Switching Power Adapter
	RO03 Wrist Strap
	SM26N1 Loudspeaker microphone IP67
	SM26N2 Loudspeaker microphone IP54
	POA47 Wireless push-to-talk button

Optional

	ESW01 Wireless Headset
	EHW02 BT Earpiece with Dual PTT
	CH04L01 Belt clip with additional battery
	PCN005 Carrying case with clip
	NCN009 Covert One Shoulder Harness

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