



Z1p

TETRA handheld radio



Compact design and high transmitting power

The Hytera Z1p is an extremely slim TETRA handheld radio with a full keypad. Because of its slight dimensions, the Z1p is ideal for concealed carrying. Despite its compact design, it boasts a transmitting power of up to 3 watts

Two housing variants available

The TETRA radio is available in two housing variants. In addition to the variant with light alloy frame, the Z1p is available in a full plastic frame. This black variant is 15 grams lighter.

Comprehensive security

TETRA security features such as air interface encryption and end-to-end encryption reliably protect the radio communication.

Versatile services

Besides voice and data communication, the Z1p offers many additional functions: GPS, encryption, duplex calls, man down alarm, etc. Moreover, the handheld radio includes options for wired and wireless accessories (Bluetooth 4.0).

Technical data Z1p

General data	
Frequency ranges	320 – 380 MHz / 380 – 430 MHz / 405 – 475 MHz / 806 – 870 MHz
Dimensions (H x W x D) (with standard battery, without antenna)	120 x 58 x 23 mm mm
Weight (with metal frame and battery)	approx. 260 g (with 1100 mAh battery) approx. 270 g (with 1400 mAh battery) approx. 290 g (with 1800 mAh battery)
Weight (black housing, with battery)	approx. 245 g (with 1100 mAh battery) approx. 255 g (with 1400 mAh battery) approx. 275 g (with 1800 mAh battery)
Operating voltage	7.4 V
Battery (lithium-ion battery)	1400 mAh (standard battery), 1100 mAh or 1800 mAh (optional)
Battery service life (5/5/90 duty cycle)	> 16 hours (standard battery) > 11 hours (with 1100 mAh) > 20 hours (with 1800 mAh)

User interface	
Programmable keys	18 (12 on keypad, 4 cursor keys, side key, green key)
LCD color display	160 x 128 pixels, 65,536 colors, 1.8 inch
Call group number – TMO	3000
Call group number – DMO	2000
Phonebook	2000 entries

Environmental conditions	
Operating temperature range	- 30 °C to + 60 °C
Storage temperature range	- 40 °C to + 85 °C
Relative humidity	ETS 300 019 (95 %)
Protection against dust and moisture	IEC60529, IP67
Shock and vibration resistance	MIL-STD-810 G ETSI EN 300 019-1-7 5M3

Radio characteristics	
Channel spacing	25 kHz
Transmitting power	up to 3 W (adjustable) / max. 1.8 W at 806–870 MHz
Transmitting power accuracy	±2 dB
Open Loop Power Control (OLPC)	4 steps of 5 dB
Receiver class	ETSI EN 392-2/396-2 class A & B
Static receiver sensitivity	-116 dBm (typically -117 dBm) -115 dBm (typically -116 dBm) (800 Mhz)
Dynamic receiver sensitivity	-106 dBm (typically -108 dBm) -105 dBm (typically -106 dBm) (800 Mhz)
Maximum audio power output	1.5 W

GPS	
Sensitivity	≤ -148 dBm receiving sensitivity ≤ -167 dBm signal tracking sensitivity
Accuracy	≤ 2 m
Time to first fix (TTFF)	< 26 seconds (cold start) < 1 seconds (warm start)

Bluetooth	
Integrated Bluetooth	R4.0 module
Bluetooth LE support	Yes

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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