



PD3 Series

DMR handheld radios

The PD3 series from Hytera offers you business radios in pocket format. The compact design and intuitive operation make these DMR handheld radios your companion for reliable digital radio communication.



Radios

PD3 Series

PD355
PD365
DMR handheld radios



Highlights

Digital mobile radio never looked so good

The radios of the PD3 series excel through their stylish and compact design in smartphone format and their intuitive operation. With a weight of only 160 g, they can be carried conveniently even on long working days.

Support of analog and digital mobile radio

The PD3 series was developed in compliance with the ETSI mobile radio standard Digital Mobile Radio (DMR). The handheld radios support the conventional DMR operation and can also be operated in analog mode.

Integrated antenna design

The unique integrated antenna design enables excellent availability without a large antenna on the radio.

Affordable pricing

The terminals of the PD3 series offer not only many functions, but also a quick, no-nonsense start into digital mobile radio at a fair price.

Long battery service life

The lithium-ion batteries (2000 mAh) included in the delivery enable the PD3 handheld radios to achieve an operating time of at least 12 hours in digital mode, with a duty cycle of 5-5-90.

Additional Functions (selection)

- Selectable transmitting power: 1.5 W or 3 W
- Analog signaling: CTCSS, CDCSS
- Dust and water protection according to IP54
- Shock and vibration resistance according to MIL-STD-810 C/D/E/F/G
- DMR text messages with up to 64 characters
- Four programmable keys
- Charging and programming via Micro-USB interface
- Scan function for analog and digital channels
- Versatile voice calls: Individual call, group call, and broadcast call on digital channels



Micro-USB port for charging and programming

Integrated antenna design



Compact design and easily readable display

Programmable keys

Standard scope of delivery

Additional accessories (selection)



Lithium-ion battery (2000 mAh) BL2009



EU power supply unit for Micro-USB PS1029



Programming cable USB PC69



Earphone with C-clip EH516



Hand strap (Nylon) RO01



Belt clip BC20 (PD355), BC21 (PD365)

Technical Data

General data	
Frequency range	UHF: 400 – 440 MHz, 430 – 470 MHz
Supported operating modes	<ul style="list-style-type: none"> DMR Tier II in acc. with ETSI TS 102 361-1/2/3 Analog
Channel capacity	256
Zone capacity	16
Channel spacing	12.5 / 25 kHz (analog) 12.5 kHz (digital)
Operating voltage	3,7 V (nominal)
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 10 hours (analog) approx. 12 hours (digital)
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H × B × T) (without antenna)	123 × 58 × 23 mm (PD355) 135 × 58 × 24 mm (PD365)
Weight (with antenna and standard battery)	approx. 160 g

Ambient data	
Operating temperature range	- 30 °C to + 60 °C
Storage temperature range	- 40 °C to + 85 °C
ESD	IEC 61000-4-2 (Level 4), ± 8 kV (contact), ± 15 kV (air)
Dust and water protection	IP54
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	UHF: 1.5 / 3 W
Modulation	11 K0F3E at 12.5 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 (< 1 GHz) - 30 dBm (> 1 GHz)
Modulation limiting	± 2.5 kHz at 12.5 kHz ± 5.0 kHz at 25 kHz
Hum and noise	40 dB at 12.5 kHz 45 dB at 25 kHz
Adjacent channel selectivity	60 dB at 12,5 kHz 70 dB at 25 kHz
Audio sensitivity	+ 1 dB at - 3 dB
Nominal audio distortion	≤ 3%
Digital vocoder type	AMBE+2™

Receiver	
Sensitivity (analog)	0.22 µV (typical) (12 dB SINAD) 0.4 µV (20 dB SINAD) 0.22 µV (12 dB SINAD)
Sensitivity (digital)	0.22 µV / BER 5 %
Adjacent channel selectivity TIA-603 ETSI	60 dB at 12,5 kHz / 70 dB at 25 kHz 60 dB at 12,5 kHz / 70 dB at 25 kHz
Intermodulation TIA-603 ETSI	70 dB at 12,5 / 25 kHz 65 dB at 12,5 / 25 kHz
Spurious response rejection TIA-603 ETSI	70 dB at 12,5 / 25 kHz 70 dB at 12,5 / 25 kHz
Hum and noise	40 dB at 12.5 kHz 45 dB at 25 kHz
Audio power output	0,4 W
Nominal audio distortion	≤ 5 %
Audio sensitivity	+ 1 dB at - 3 dB
Conducted spurious emission	< - 57 dBm

All technical specifications were tested according to the relevant standards. Subject to change on the basis of continuous development.

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