

PD365

DMR handheld radio



Digital mobile radio never looked so good

The PD365 from Hytera is a business radio in pocket format. Its compact design combined with its intuitive operation make this DMR handheld radio the ideal companion for reliable digital radio communication.

Support of analog & digital mobile radio

The PD365 was developed in compliance with the ETSI Digital Mobile Radio (DMR) standard. The handheld radio supports the conventional DMTR operation and it can also be operated as an analog radio.

Affordable pricing

In addition to a multitude of functions, the PD365 offers you quick and easy entry into the world of digital mobile radio at a fair price.

Technical Data PD365

Allgemeine Daten	
Frequency range	UHF: 400 - 440 MHz, 430 - 470 MHz
Supported operating modes	<ul style="list-style-type: none"> ▪ DMR Tier II (conventional DMR) ▪ Analog DMR Tier II according to ETSI TS 102 361-1/2/3
Number of channels	256 (128 analog + 128 digital)
Number of zones	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)
Akkubetriebsdauer (5-5-90 Betriebszyklus)	ca. 10 h (analog) ca. 12 h (digital)
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H × B × T, without antenna)	135 × 58 × 24 mm
Weight (with antenna and standard battery)	approx. 160 g
LCD display	monochrome LCD display, 3 lines

Environmental conditions	
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)
Protection against dust and moisture	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
Noise cancellation	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 to - 3 dB
Nominal audio distortion	≤ 3 %
Digital vocoder type	AMBE +2™

Receiver	
Sensitivity (analog)	0.22 µV (12 dB SINAD) 0.22 µV (typical) (12 dB SINAD) 0.4 µV (20 dB SINAD)
Sensitivity (digital)	0.22 µV / BER 5 %
Adjacent channel 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 70 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
Signal-noise ratio (S/N)	40 dB at 12.5 kHz 45 dB at 25 kHz
Nominal audio power output	0.4 W
Nominal audio distortion	≤ 5 %
Audio sensitivity	+ 1 dB to - 3 dB
Conducted spurious emission	< - 57 dBm

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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