

## General Data Hytera MD782G

Frequency range	VHF: 136 - 174 MHz
Supported operation modes	DMR Tier II (DMR conventional), Simulcast DMR Tier III (DMR trunking) Analog, MPT 1327 DMR Tier II in reference to ETSI TS 102 361-1/2/3 DMR Tier III in reference to ETSI TS 102 361-1/2/3/4
Channel capacity	1024
Zone Capacity	64 (with max. 16 channels each)
Channel spacing (analog)	12.5 / 20 / 25 kHz
Channel spacing (digital)	12.5 kHz
Operating voltage	13.6 ±15 % V <sub>DC</sub>
Max. power consumption (in stand by)	0.6 A
Max. power consumption (during reception)	2.0 A
Max. power consumption (during transmission)	5 W: 5 A 25 W: 8 A 45 W / 50 W: 12 A
Frequency stability	±1.5 ppm
Antenna impedance	50
Dimensions (H x W x D)	174 x 60 x 200 mm
Weight	1.7 kg
LCD display	220 x 176 pixels, 262,000 colours, 2.0 inches, 4 lines

## Transmitter

Transmitting power	VHF: 5 – 50 W (Adjustable) UHF: 5 – 45 W (Adjustable) 5 – 25 W* (Adjustable)
Modulation	11K0F3E at 12.5 kHz 14K0F3E at 20 kHz 16K0F3E 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 ±4.0 kHz at 20 kHz ±5.0 kHz at 25 kHz
Noise suppression	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	+1 to -3 dB
Nominal audio distortion	3%
Digital vocoder type	AMBE++

## Receiver

Sensitivity (analog)	0.3 $\mu$ V (12 dB SINAD) 0.22 $\mu$ V (Typical) (12 dB SINAD) 0.4 $\mu$ V (20 dB SINAD)
Sensitivity (digital)	0.3 $\mu$ V / BER 5%
Adjacent channel selectivity TIA-603 ETSI	65 dB at 12.5 kHz / 75 dB at 20 and 25 kHz 60 dB at 12.5 kHz / 70 dB at 20 and 25 kHz
Intermodulation TIA-603 ETSI	75 dB at 12.5/20/25 kHz 70 dB at 12.5/20/25 kHz
Spurious response rejection TIA-603 ETSI	75 dB at 12.5/20/25 kHz 75 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 power output	Internally, 3 W at 20 Externally, 7.5 W at 8
Nominal audio distortion	3 %
Audio sensitivity	+1 to -3 dB
Conducted spurious emission	-57 dBm
<b>Ambient data</b>	
Operating temperature range	-30 °C to +60 °C
Storage temperature range	-40 °C to +85 °C
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
<b>GPS (MD785G only)</b>	
Time to first fix (TTFF) cold start	< 1 minute
Time to first fix (TTFF) warm start	< 10 seconds
Horizontal accuracy	< 10 meters