

MD625

DMR mobile radio

Commercial digital mobile radio

Easy to operate and offering excellent value for money, the MD625 is a cost-effective yet powerful digital mobile radio, the ideal choice for transportation, agriculture, utilities and logistics users. A variety of interfaces and Bluetooth connectivity guarantee optimum usability. The display allows to show text messages and names for groups and other call participants.

Clear Communication

The MD625 can be configured in both analogue and digital channels. The radio automatically detects whether incoming calls are analog or digital, making migration to digital mobile radio much easier.

Workforce Safety

Visible and easily accessible orange emergency button provided as a standard to initiate an emergency alarm and calls to other radios.

GPS module & Bluetooth functionality (optional)

The MD625 is able to upload its real-time position to AVL Applications if coupled with the optional external GPS module and antenna.

Operated via handheld microphone as standard, select the Bluetooth version to make the most of wireless accessory options, alongside a range of external switches and speakers.



Technical Data MD625

General data

Frequency range	VHF: 136 – 174 MHz UHF: 400 – 470 MHz
Supported operating modes	<ul style="list-style-type: none"> ▪ DMR Tier II (ETSI TS 102 361-1/2/3) ▪ Simulcast ▪ Analog
Number of channels	256 (16 channels per zone)
Number of zones	16
Channel spacing (analog)	12.5 / 25 kHz
Channel spacing (digital)	12.5 kHz
Operating voltage	13.6 ± 15% V _{DC}
Max. power consumption (in stand by)	Approx. 0.3 A
Max. power consumption (during reception)	≤ 1 A
Max. power consumption (during transmission)	1 W: ≤ 3 A 5 W: ≤ 5 A 25 W: ≤ 8 A 45 W: ≤ 12 A
Frequency stability	±0.5 ppm
Antenna impedance	50 Ω
Dimensions (L x W x H)	164 x 43 x 150 mm
Weight	1100 g
LCD display	128x64 pixels, monochrome, 1.5 inch, 2 rows

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 discharge) ± 15 kV (air discharge)
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 (adjustable)	VHF: 1 – 25 W / 5 – 50 W UHF: 1 – 25 W / 5 – 45 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
Audio distortion	≤ 3 %
Digital vocoder type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2,-3

Receiver

Sensitivity (analog)	0.3 µV (12 dB SINAD) 0.22 µV (typical) (12 dB SINAD) 0.4 µV (20 dB SINAD)
Sensitivity (digital)	0.3 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
Spurious response rejection TIA-603 ETSI	70 dB at 12.5/25 kHz 70 dB at 12.5/25 kHz
Blocking TIA-603 ETSI	90 dB 84 dB
Noise cancellation	40 dB at 12.5 kHz 45 dB at 25 kHz
Nominal audio power output	4 W at 16 Ω (internal) 8 W at 8 Ω (external)
Max. audio power output	6 W at 16 Ω (internal) 12 W at 8 Ω (external)
Audio distortion	≤ 3 %
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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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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