SD630 Professional DMR Radio

DMR Radios | Model: SD630

The professional DMR radio built for the harshest environments — for railways, police and heavy industry. Core model of the SD630 professional platform, also available in the alternative SD910 housing design.



Key features

- DMR digital + analogue dual mode
- IP67 / IP68 waterproof and dustproof
- AES256 voice encryption
- AI noise reduction with automatic mic gain
- Mandown lone-worker alarm
- 1 W loud, clear audio output
- Remote stun / kill / activation, alarm and monitor
- Wireless cloning and multi-pin accessory port
- 32 channels, 5 W, 315 g
- Battery options up to 3500 mAh

Specifications

Frequency range	VHF 136–174 MHz · UHF 350–400 MHz · UHF 400–480 MHz
Channel capacity	32 channels (16 channels × 2 groups)
Channel spacing	12.5 / 25 kHz
Operating voltage	DC 7.4 V ± 10%
Battery	Standard 2000 mAh · optional 2600 / 3400 / 3500 mAh
Ingress protection	IP67 / IP68 waterproof & dustproof
Operating temperature	−20 °C to +60 °C
Frequency stability	±0.5 ppm
Dimensions · Weight	120 × 55 × 35 mm · 315 g (excluding protruding parts)
RF power output	High 5 W (36 dBm) · Low 1 W (30 dBm), ±1 dB
FM modulation	11K0F3E @ 12.5 kHz · 16K0F3E @ 25 kHz
Modulation (4FSK)	7K60FXD (data only) · 7K60FXW (data & voice)
Adjacent channel power	≤ −60 dB @ 12.5 kHz · ≤ −70 dB @ 25 kHz
Modulation limiting	±2.5 kHz @ 12.5 kHz · ±5 kHz @ 25 kHz

TX — Audio distortion	≤ 3%
Spurious emission	≤ −36 dBm (< 1 GHz) · ≤ −30 dBm (> 1 GHz)
TX — Signal-to-noise ratio	≥ 40 dB @ 12.5 kHz · ≥ 45 dB @ 25 kHz
Digital vocoder	AMBE++
Digital protocol	ETSI TS 102 361-1 / -2 / -3
Sensitivity	≤ −119 dBm (BER 5%) · analog ≤ −120 dBm (12 dB SINAD)
Adjacent channel selectivity	≥ 60 dB @ 12.5 kHz · ≥ 65 dB @ 25 kHz
Intermodulation rejection	≥ 65 dB
Blocking	≥ 84 dB
Spurious response rejection	≥ 65 dB
Audio output power	1 W ± 0.1 W / 16 Ω
RX — Audio distortion	≤ 3%
RX — Signal-to-noise ratio	≥ 40 dB @ 12.5 kHz · ≥ 45 dB @ 25 kHz
RX — Audio response	+1 ~ −3 dB
Compatible models	To be confirmed
Certifications	To be confirmed

Notes: specifications are taken from the manufacturer's product documentation supplied for this model. Certifications are listed only where that documentation states them; “To be confirmed” means not yet confirmed, not a claim. No price or minimum order quantity is stated in this datasheet — please send an inquiry for pricing, MOQ and samples. SafePTT supplies radios under its own brand from partner factories.