ST53 Rugged Analog Radio

Analog Radios | Model: ST53

The dependable workhorse for training grounds and field operations.



Key features

- 5 W output with loud, clear audio
- 16 channels with knob channel selection
- 3000 mAh Li-ion — about 20 h (5-5-90)
- Type-C charging
- IP67 waterproof and dustproof
- CTCSS/DCS encode and decode
- Scan and priority scan, TOT, battery save
- Works from −30 °C to +60 °C

Specifications

Frequency range	136–174 MHz / 400–470 MHz
Channel capacity	16 channels
Channel spacing	25 / 20 / 12.5 kHz (wide / middle / narrow)
Working voltage	DC 7.2 V ±10%
Battery	3000 mAh Li-Ion · about 20 hours (5-5-90 duty cycle)
Charging	Type-C charging supported
Protection	IP67 waterproof & dustproof
Temperature	−30 °C to +60 °C
Dimensions / Weight	121 × 56 × 36 mm · 266 g (with antenna & battery)
Transmitter (ETSI EN 300 086 testing standard)	—
RF power output	5 W (high)
Modulation	16KΦF3E (wide) / 11KΦF3E (narrow)
Adjacent channel power	≥ 70 dB (wide) / ≥ 60 dB (narrow)
Hum & noise	≥ 40 dB (wide) / ≥ 36 dB (narrow)
Modulation limiting	±5.0 kHz (wide) / ±2.5 kHz (narrow)

Frequency stability	±5 ppm
Receiver (ETSI EN 300 086 testing standard)	—
Sensitivity (12 dB SINAD)	≤ 0.25 µV (wide) / ≤ 0.35 µV (narrow)
Adjacent channel selectivity	≥ 70 dB (wide) / ≥ 60 dB (narrow)
Intermodulation	≥ 65 dB (wide) / ≥ 60 dB (narrow)
Spurious response rejection	≥ 70 dB
Audio output	500 mW with less than 10% distortion
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.