



SRP9170/80 Portable Radios

Innovative Portable Radio Communications

The SRP9170/80 has been designed from the ground up to meet the exacting and demanding needs of mission critical users. Coupled with the functionality and flexibility that only **Xmode** can deliver, this is the radio to meet your current and future needs. Where flexibility and reliability in demanding environments is paramount, the SRP9170/80 will meet the challenge.



SRP9180

SRP9170

- Full Xmode capability including PMR, TMR, P25 Trunked, P25 Conventional, data, messaging, signalling, scanning and voting.
- Ruggedized robust construction for demanding field use.
- Bright, easy to read display with ergonomic radio controls for operator convenience.
- Intrinsic safety for hazardous environment operations.
- IP67 ingress protection against dust and water immersion.
- DES-OFB and AES Digital encryption, 32 Keys. Custom encryption schemes can be supported.
- Programmable function buttons and radio parameters.
- Safety and emergency functions such as Lone Worker, Stun, GPS/Man Down and Emergency Alarm.
- Multi-vendor compatible accessory connector supports current generation or legacy accessories.



General Specifications

Channel Spacing	12.5, 20 or 25 kHz programmable, 10 kHz optional		
Frequency Bands*	136 - 174 MHz 400 - 480 MHz 440 - 520 MHz		
Display	102 x 64 pixels		
Switching Bandwidth	Full band		
Modulation	Pre-emphasised FM		
Operating Temperature	-30° C to +60° C		
Antenna Impedance	50 Ω		
Power Supply	Li-ion 2200 mAh or 3000 mAh		
Battery Life	>13 hours, high transmit power 3000 mAh battery, 90:5:5 duty cycle		
Dimensions	147 mm (H) x 63 mm (W) x 36 mm (D)		
Weight	408 g (with 3000 mAh battery)		
Environmental Protection	IP67 available		
Environmental Standards	MIL-STD-810 F	Method	Procedure
	High Temperature	501.4	1,2
	Low Temperature	502.4	1, 2
	Humidity	507.4	3
	Vibration	514.5	1
Conformance	EN 300 086, EN 300 113, EN 300 219, EN 300 489, EN 60950, AS4295		

Transmitter Specifications

Power Output	3 levels programmable 0.5 - 5 W
Audio Distortion	<3 % at 1 kHz, 60 % deviation
Audio Frequency Response	+1 dB to -3 dB of pre-emphasised 300 to 3000 Hz on 25 kHz Channel (300 to 2550 Hz on 12.5 kHz Channel)
Tx/Rx switching time	<25 ms
Hum and Noise	>40 dB (12.5 kHz); >45 dB (25 kHz)

Receiver Specifications

Sensitivity	0.3 μV for 12 dB SINAD
Selectivity	>73 dB (25 kHz) >65 dB (12.5 kHz)
Intermodulation	>70 dB
Audio Frequency Response	+1 dB to -3 dB of de-emphasised 300 to 3000 Hz on 25 kHz Channel (300 to 2550 Hz on 12.5 kHz Channel)
Audio Output	500 mW into 16 Ω @ <5 % distortion
Blocking	>95 dB at +/- 1 MHz
Hum and Noise	>40 dB (12.5 kHz); >45 dB (25 kHz)

Intrinsically Safe Specification

Applicable Standard	IECEX
Options	EX ic IIA or IIB

Analogue Conventional Operation

Operation	Single and two-frequency simplex 1000 channels 240 scan / vote groups (SRP9180) 200 channels (SRP9170)
Signalling	CTCSS, DCS, FFSK, DTMF, Sequential Tone (selcall)

Analogue Trunked Operation

Operation	Two-frequency simplex in MPT 1327 trunked systems 1024 trunked channels in 50 sub bands
Number of Channels	
Network Capability	UK Germany France Netherlands Australia

- MPT1343
- Chekker (Regionet 43)
- 3RP (CNET2424)
- Traxys (NL 1343)
- Multiax, MPT1343

P25 Operation



- P25 Compliant • 40 zones of 250 channels • Voting • Trunked • Scanning
- 1000 channel pool • DES-OFB and AES Encryption** • Individual Calls • Emergency call
- Analogue mode including scrambler, CTCSS, DCS, DTMF

Note: Specifications based on standard operating conditions and may differ between models. Not all combinations of frequency bands and options are permissible for every market area.

*Progressive release of bands from February 2009. **AES Encryption subject to export control.



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