SRP9170/80
Portable Radios

SRP9180 **SRP9170**

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.

- Unique Xmode capability allowing operation on Analogue, MPT1327 Trunking, P25 Conventional and P25 Trunking systems.
- Ruggedized robust construction for demanding field use.
- Bright, easy to read display with ergonomic radio controls for operator convenience.
- IP67 ingress protection against dust and water immersion.
- DES-OFB and AES Digital encryption. 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 accessorieeẑ

‡   3? 47Ł$ HaŪaVWdXad[_ bɗahVẂ ha[ŪWŮ'Sɗfkẑ

P25CAP

SIMOCO

Analogue   MPT Trunking   P25 Conventional   P25 Trunking

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

Intrinsically Safe Specification

Applicable Standard	IECEx
Options	EX IC IIA T4

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)

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)

Analogue Trunked Operation

Operation	Two-frequency simplex in MPT 1327 trunked systems
Number of Channels	1024 trunked channels in 50 sub bands
Network Capability	
UK	• MPT1343
Germany	• Chekker (Regionet 43)
France	• 3RP (CNET2424)
Netherlands	• Traxys (NL 1343)
Australia	• Multiax, MPT1343

P25 Operation

• P25CAP Complaint • 40 zones • 1500 channel pool • Voting • Trunked • Scanning
• DES OFB and AES Encryption** • Individual Calls • Emergency call
• Analogue mode including scrambler, CTCSS, DCS, DTMF • AMBE+2 Vocoder

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.
**AES Encryption subject to export control.