

## SRP9170/80 Portable Radios Professionals' Choice

SRP9180



SRP9170

The SRP9170/80 have been designed 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 current and future needs. The flexibility and reliability of the SRP9170/80 will meet the challenges of demanding environments.

### Features

- ▶ Unique Xmode software and configuration upgradability, allowing operation on analog, MPT1327 trunking, P25 conventional and P25 trunking systems.
- ▶ Ruggedized robust construction for demanding public safety 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 parameters allow radios to be tailored to exact requirements.
- ▶ 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.
- ▶ AMBE+2 Vocoder for improved voice clarity.



# Specification

General Specification			
<b>Frequency Bands*</b>	AC (136 - 174 MHz); TU (400 - 480 MHz); UW (440 - 520 MHz)		
<b>Dimensions</b>	147 mm (H) x 63 mm (W) x 36 mm (D)		
<b>Weight</b>	408 g (with 3000 mAh battery)		
<b>Power Supply</b>	Li-ion 2200 mAh or 3000 mAh		
<b>Battery Life</b>	>13 hours, high transmit power 3000 mAh battery, 90:5:5 duty cycle		
<b>Channel Stability</b>	<1.5 ppm		
<b>Display</b>	102 x 64 pixels		
<b>Switching Bandwidth</b>	Full band		
<b>Modulation</b>	Pre-emphasized FM, C4FM		
<b>Conformance</b>	EN 300 086, EN 300 113, EN 300 219, EN 300 489, EN 60950, AS4295, FCC, IC • P25CAP Compliant		
<b>Environmental Protection</b>	IP67		
<b>Environmental Standards</b>	<b>MIL-STD-810 F</b>	<b>Method</b>	<b>Procedure</b>
	Low Pressure (Altitude), Storage	500.4	I
	Low Pressure (Altitude), Operational	500.4	II
	High Temp, Storage	501.4	I
	High Temp, Operating	501.4	II
	Low Temp, Storage	502.4	I
	Low Temp, Operating	502.4	II
	Thermal Shock	503.4	I
	Solar Radiation	505.4	I (A2)
	Relative Humidity	507.4	
	Dust	510.4	I
	Sand	510.4	II
	General Vibration: Truck/trailer/tracked - restrained cargo	514.5	I Cat 4
	General Vibration: Minimum Integrity	514.5	I Cat 24
Shock - Transit Drop	516.5	IV	
<b>Operating Temperature</b>	-30 °C to +60 °C		

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

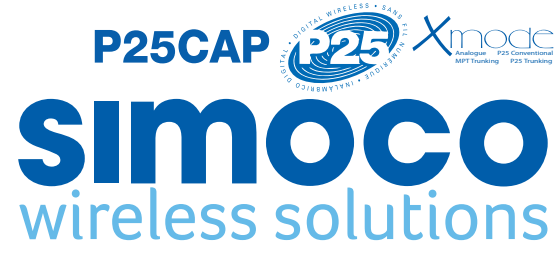
Receiver Specification	
<b>Sensitivity</b>	>-117.5 dBm for 12 db SINAD >-119 dBm for 5% BER
<b>Selectivity</b>	>73 dB (25 kHz) >65 dB (12.5 kHz)
<b>Intermodulation</b>	>70 dB
<b>Audio Frequency Response</b>	+1 dB to -3 dB of de-emphasized 300 to 3000 Hz on 25 kHz Channel (300 to 2550 Hz on 12.5 kHz Channel)
<b>Audio Output</b>	500 mW into 16 $\Omega$ <5% distortion
<b>Blocking</b>	>95 dB at +/- 1 MHz
<b>Hum and Noise</b>	>40 dB (12.5 kHz); >45 dB (25 kHz)

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

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

P25 Operation	
<ul style="list-style-type: none"> <li>• P25CAP Complaint • 40 zones • 1500 channel pool</li> <li>• 5 Trunking systems • Scanning • Voting</li> <li>• DES OFB and AES Encryption ** • Individual Calls</li> <li>• Emergency call • Analog mode including scrambler,</li> <li>• CTCSS, DCS, DTMF • AMBE+2 Vocoder</li> </ul>	

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\*Note: Specifications based on standard operating conditions. Not all combinations of frequency bands and options are permissible for every market area. See Simoco Wireless Solutions Product Catalogue for a full list of specifications. \*\*AES encryption subject to export controls.

All specifications are subject to change without prior notice. Simoco Wireless Solutions does not accept liability for any error or omission in this document.