

it's **SIMOCO**

## SRP9100 Portable Radios

Innovative Portable Radio Communications



The SRP9100 portable is designed for the professional user who requires high performance and reliability; combining simplicity of operation with sophisticated functionality. The SRP9100 series is based on the same platform as the SRM9000 mobile radio and uses DSP technology for filtering, signalling, speech processing and modulation. Its architecture allows a path for future functionality or application specific upgrades.

- Full compatibility with SRM9000 mobile radios.
- Multi mode capability – PMR, TMR, P25 conventional and P25 trunked.
- 5 frequency bands covered (66–520MHz).
- Capacity of 1000 channels (PMR), 1024 channels (TMR) and 64 Zones of up to 250 channels (P25).
- 2400/1200 baud FFSK Data Modem.
- CTCSS, DCS and DTMF signalling.
- FFSK or Selcall ANI.
- DSP Speech Processing.
- Simple Voice Scrambler.
- Voting and Scanning.
- Text message capability.
- High endurance 3000mAh Battery.
- MPT1343 and ANN compatible.
- Fully customised Menu System.
- GPS/Mandown speaker microphone.
- Remote speaker microphone.
- Programmable function buttons.
- Enhanced Selcall for Lone Worker, Stun and Emergency Alarm.

Xmode



SRP9100

## SPECIFICATIONS

### General Specifications

Channel Spacing	12.5, 20 or 25kHz programmable, 10kHz optional		
Frequency Bands	E0 66 – 88 MHz; AC 136 – 174 MHz; KM 208 – 245 MHz; R3 335 – 400 MHz; TU 400 – 480 MHz; UW 440 – 520 MHz		
Switching Bandwidth	Full band		
Modulation	Pre-emphasised FM		
Operating Temperature	-30°C to +60°C		
Antenna Impedance	50 Ω		
Power Supply	NiCad Battery 1700mAh; NiMH 2100mAh or 2700mAh; Li-ion3000mAh		
Battery Life	>13 hours, high transmit power 3000mAh battery, 90:5:5 duty cycle		
Dimensions	147mm (H); 68mm (W); 46mm (D)		
Weight	420g (with 3000mAh battery and antenna)		
Environmental Protection	IP54		
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

\*See [www.simoco.com.au](http://www.simoco.com.au) for a full list of specifications

### Transmitter Specifications

Power Output	2 levels programmable 0.5, 1, 2.5, 4 or 5W
Audio Distortion	<3% at 1KHz, 60% deviation
Audio Frequency Response	+1dB to -3dB of pre-emphasised 300 to 3000Hz on 25kHz Channel 300 to 2550Hz on 12.5kHz Channel
Transmit Receiver Time	<25ms
Hum and Noise	>40dB (12.5kHz); >45dB (25kHz)

### Receiver Specifications

Sensitivity	0.30µV for 12dB SINAD
Audio Output	500mW into 16Ω at <5% distortion
Selectivity	>73dB(25kHz) >65dB(12.5kHz)
Intermodulation	>70dB
Audio Frequency Response	+1dB to -3dB of de-emphasised 300 to 3000Hz on 25kHz Channel 300 to 2550Hz on 12.5kHz Channel
Blocking	>95dB at +/- 1MHz
Hum and Noise	>40dB (12.5kHz); >45dB (25kHz)

### Conventional Operation

Models	SRP9120 and SRP9130
Operation	Single and two frequency simplex
Number of Channels	1000 channels 240 scan / vote groups (SRP9130) 200 channels (SRP9120)
Signalling	CTCSS, DCS Sequential Tone (selcall) FFSK, DTMF

### Simoco P25 Operation



P25 Compliant  
64 zones of 250 channels  
Voting  
Trunked  
Scanning  
1000 channel pool  
DES-OFB and AES Encryption  
Individual Calls  
Emergency Call  
Analogue mode  
CTCSS/DCS/DTMF/Scrambler

### Trunked Operation

Models	SRP9120 and SRP9130
Operation	Two frequency simplex in MPT1327 based trunked systems
Number of Channels	1024 trunked channels in 50 sub bands
Signalling	1200/2400 baud FFSK
Network Capability	UK Germany France Netherlands Australia
	• MPT1343 • Chekker (Regionet 43) • 3RP (CNET2424) • Traxys (NL 1343) • Multiax, MPT 1343

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

### Accessories for Portables

#### Battery Chargers:

- Single Pocket
- Two Pocket
- Six Pocket
- Vehicle Charger



#### Audio Accessories:

- GPS Mandown Speaker Microphone
- Medium Duty Microphone



#### Other Accessories:

- Leather Carry Cases
- Colour Cases
- Lone Worker

#### Batteries:

- NiCad (1700mAh)
- Li-ion (3000mAh)
- NiMH (2100mAh and 2700mAh)

Local Dealer:



SRP9100

For additional information on this and other Simoco products visit our website: [www.simoco.com.au](http://www.simoco.com.au)

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