

it's **simoco**

SRP9100 Portable Radios

Innovative Portable Radio Communications



The SRP9100 portables are designed for the professional users who require 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 and P25.
- 7 frequency bands covered (66–520MHz).
- Capacity of 1000 channels.
- 2400/1200 baud FFSK signalling.
- CTCSS, DCS and DTMF signalling.
- FFSK or Selcall ANI.
- DSP Speech Processing.
- Simple Voice Scrambler.
- Voting and Scanning.
- SMS text messaging using FFSK.
- Long operation with 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.



SRP9100

SPECIFICATIONS

General Specifications

Channel Spacing	12.5, 20 or 25kHz programmable, 10kHz optional	
Frequency Bands	EO 66 – 88 MHz KM 208 – 245 MHz TU 400 – 480 MHz WR 470 – 530 MHz	AC 136 – 174 MHz R3 335 – 400 MHz TW 440 – 520 MHz
Switching Bandwidth	Full band	
Modulation	Pre-emphasised FM	
Operating Temperature	-30°C to +60°C	
Antenna Impedance	50 Ω	
Environmental Protection	IP54	
Power Supply	NiCad Battery 1700mAh; NiMH 2100mAh or 2700mAh; Li-ion 3000mAh	
Battery Life	>13 hours, high transmit power 3000mAh battery, 90:5:5 duty cycle	
Dimensions	147mm (H); 68mm (W); 46mm (D)	
Weight	480g (with 1600mAh battery and antenna)	

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	>65dB(ETS method)
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
	

Trunking 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 – MPT1343 Germany – Chekker (Regionet 43) France – 3RP (CNET2424) Netherlands – Traxys (NL 1343) Australia – 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



Audio Accessories:

- GPS Mandown Speaker Microphone

- Medium Duty Microphone

Other Accessories:

- Leather Carry Cases
- Colour Cases
- Lone Worker

Batteries:

- NiCad (1600mAh)
- Li-ion (3000mAh)
- NiMH (2100mAh and 2700mAh)



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