







## SRM9000 Mobile Radio Ultimate Flexibility

The SRM9000 mobile radio provides leading edge radio communications. This radio has evolved to address the needs of diverse markets from simple voice through to advanced system applications. The functionality provided by the unique Xmode platform ensures it will meet your current and future needs. SRM9000 mobile transceivers are highly customisable and can be deployed in many configurations.

### Features

- ▶ Unique Xmode software and configuration upgradability, allowing operation on analogue, MPT1327 trunking, P25 conventional and P25 trunking systems.
- ▶ Ruggedised, heavy duty construction for reliability in all vehicle types.
- ▶ Multiple choice of control console or control microphones depending on user requirements.
- ▶ Cost effective choices with entry level options that can be expanded or added in future to meet evolving business needs.
- ▶ Programmable function buttons and parameters allow radios to be tailored to exact requirements.
- ▶ AES/DES digital encryption on P25 models. Voice scrambler option for analogue models.
- ▶ Safety and emergency functions such as Lone Worker, Stun, GPS and Emergency.
- ▶ P25 GPS compliant with T1 and T2 Location Services.
- ▶ AMBE+2 Vocoder for improved voice clarity.

### Controller Microphones

	 SRM9030plus	 SRM9022	 SRM9020plus	 SRM9010
<b>Control</b>	Control Head and Mic	Keypad Display Handset	Controller Mic	Controller Mic
<b>Channels</b>	1000/1500 P25	1000/1500 P25	100	10
<b>Display</b>	102X64 Pixels	102X64 Pixels	6 Characters	1 Digit
<b>MPT1327 Trunked</b>	Yes	Yes	Yes	Yes
<b>P25 Compatible</b>	Yes	Yes	No	No
<b>Function Buttons</b>	12 button keypad +6 programmable buttons and 2 dedicated call buttons	12 button keypad +4 programmable buttons	4	1
<b>CTCSS/DCS PTT, Re PTT Timers</b>	Yes	Yes	Yes	Yes
<b>User/Fixed Scan Groups</b>	4/240x16 channels	4/240x16 channels	4/100x16 channels	0/10x16 channels
<b>Selcall</b>	8 Dec/250 Enc	8 Dec/250 Enc	Yes	Yes
<b>DTMF</b>	Yes	Yes	2 fixed strings	No
<b>Ignition-Sense switch on/off</b>	Yes	Yes	Yes	Yes
<b>VOX Handsfree</b>	Option	No	No	No
<b>Internal GPS</b>	Option	Option	Option	Option
<b>IO Expansion Interface</b>	Option	Option	Option	Option
<b>Voting</b>	Yes	Yes	Yes	Yes



# Specification

General Specification			
Frequency Bands*	E0 (66 - 88 MHz); AC (136 - 174 MHz); TU (400 - 480 MHz); UW (440 - 520 MHz)		
Dimensions	(Transceiver only) 56 mm (H) x 170 mm (W) x 165 mm (D)		
Weight	1.3 kg		
Power Supply	10.8 - 16.3 V DC		
Channel Stability	<1.5 ppm		
Channel Spacing	10, 12.5, 20 or 25 kHz		
Inputs/Outputs	Ignition-sense input; PTT; Carrier Detect; On/Off; Configurable output		
Antenna Connector	50 Ω BNC		
Conformance	EN 300 086, EN 300 113, EN 300 219, EN 300 279, AS4295, FCC, IC		
Environmental Protection	IP54		
Environmental Standards	MIL-STD-810 F	Method	Procedure
	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	
Operating Temperature	-30 °C to +60 °C operating (Transceiver)		
Transmitter Specification			
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)		
Current Consumption	<7.5 A (UHF)		
Duty Cycle	1 minute transmit, 4 minute receive		
Hum and Noise	>40 dB (12.5 kHz), >45 dB (25 kHz)		
Modulation	C4FM, FM		
Transmitter Power	3 levels programmable 1-25 W		
Transmit Rise Time	<25 ms		
Receiver Specification			
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)		
Audio Output	4 W into 4 @ <5% distortion (link for 10 W into 8)		
Blocking	>95 dB at +/-1 MHz		
Hum and Noise	>40 dB (12.5 kHz); >45 dB (25 kHz)		
Intermodulation	>70 dB		
Selectivity	>73 dB (25 kHz) >65 dB (12.5 kHz)		
Sensitivity	>-117.5 dBm for 12 dB SINAD >-119 dBm for 5% BER		
Analogue Conventional			
<ul style="list-style-type: none"> <li>• CTCSS • DCS • Sequential Tone (selcall) • FFSK • DTMF</li> <li>• Status • 240 scan/vote groups • 250 entry phone book</li> </ul>			
Analogue Trunked MPT1327			
<ul style="list-style-type: none"> <li>• MPT1343 (UK) • Chekker (Regionet 43 Germany)</li> <li>• 3RP (CNET2424 France) • Traxys (NL1343 Netherlands)</li> <li>• Multiax, MPT1343 (Australia) • 250 entry phone book</li> <li>• Normal, Priority, Emergency, Group, Broadcast</li> <li>• Diversion • Busy, Queued • Status calls</li> <li>• Abbreviated dialling</li> </ul>			
P25 Operation			
<ul style="list-style-type: none"> <li>• 60 zones • 3200 channel pool • Voting • Trunked • Scanning • DES OFB and AES Encryption** • Individual Calls • Emergency Call • Analogue mode including scrambler, CTCSS, DCS, DTMF</li> </ul>			

\* 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. Specifications based on standard operating conditions. \*\*AES encryption subject to export controls.

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