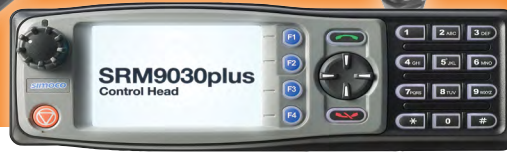




SRM9000



SRM9030plus

**simoco**  
wireless solutions

# 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 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 customizable and can be deployed in many configurations.

### Features

- ▶ Unique Xmode software and configuration upgradability, allowing operation on analog, MPT1327 trunking, P25 conventional and P25 trunking systems.
- ▶ Ruggedized, heavy duty construction for reliability in all vehicle types.
- ▶ Multiple choice of control head 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 analog models.
- ▶ Safety and emergency functions such as Lone Worker, Stun, GPS and Emergency.
- ▶ Compatible with SAMS Automatic Vehicle Location suite.
- ▶ 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

<b>Frequency Bands*</b>	AC (136 - 174 MHz); TU (400 - 480 MHz); UW (440 - 520 MHz)		
<b>Dimensions</b>	(Transceiver only) 56 mm (H) x 170 mm (W) x 165 mm (D)		
<b>Weight</b>	1.3 kg		
<b>Power Supply</b>	10.8 - 16.3 V DC		
<b>Channel Stability</b>	<1.5 ppm		
<b>Channel Spacing</b>	10, 12.5, 20 or 25 kHz		
<b>Inputs/Outputs</b>	Ignition-sense input; PTT; Carrier Detect; On/Off; Configurable output		
<b>Antenna Connector</b>	50 Ω BNC		
<b>Conformance</b>	EN 300 086, EN 300 113, EN 300 219, EN 300 279, AS4295, FCC, IC • P25CAP Compliant		
<b>Environmental Protection</b>	IP54		
<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 operating (Transceiver)		

## Transmitter Specification

<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>Current Consumption</b>	<7.5 A (UHF)
<b>Duty Cycle</b>	1 minute transmit, 4 minute receive
<b>Hum and Noise</b>	>40 dB (12.5 kHz), >45 dB (25 kHz)
<b>Modulation</b>	C4FM, FM
<b>Transmitter Power</b>	3 levels programmable 1-25 W
<b>Transmit Rise Time</b>	<25 ms

## Receiver Specification

<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>Audio Output</b>	4 W into 4 Ω <5% distortion (link for 10 W into 8 Ω)
<b>Blocking</b>	>95 dB at +/-1 MHz
<b>Hum and Noise</b>	>40 dB (12.5 kHz); >45 dB (25 kHz)
<b>Intermodulation</b>	>70 dB
<b>Selectivity</b>	>73 dB (25 kHz) >65 dB (12.5 kHz)
<b>Sensitivity</b>	>-117.5 dBm for 12 dB SINAD >-119 dBm for 5% BER

## Analog Conventional

- CTCSS • DCS • Sequential Tone (selcall) • FFSK • DTMF
- Status • 240 scan/vote groups • 250 entry phone book

## Analog Trunked MPT1327

- MPT1343 (UK) • Chekker (Regionet 43 Germany)
- 3RP (CNET2424 France) • Traxys (NL1343 Netherlands)
- Multiax, MPT1343 (Australia) • 250 entry phone book
- Normal, Priority, Emergency, Group, Broadcast
- Diversion • Busy, Queued • Status calls
- Abbreviated dialling

## P25 Operation

- P25CAP Complaint • 40 zones • 1500 channel pool • Voting
- Trunked • Scanning • DES OFB and AES Encryption\*\* • Individual Calls • Emergency Call
- Analog mode including scrambler, CTCSS, DCS, DTMF

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P25CAP



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\* 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.