SRM9000

SRM9030plus

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 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.
- Compatible with SAMS Automatic Vehicle Location suite.
- AMBE+2 Vocoder for improved voice clarity.

Controller Microphones

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

Xmode Analogue P25 Conventional MPT Trunking P25 Trunking

Specification

General Specification

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)
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 • P25CAP Compliant
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	<0 .3 µV for 12 dB SINAD <0 .3 µV for 5% BER

Analogue Conventional

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

Analogue 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
• Analogue mode including scrambler, CTCSS, DCS, DTMF

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

For more information please contact your local Simoco representative:

P25CAP

Xmode Analogue MPT Trunking P25 Conventional P25 Trunking

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