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SSR9000 VHF / UHF P25 Digital Portable Repeater



The SSR9000 is a range of P25 Digital Communications Solutions for Emergency Services and Law Enforcement.

The SSR9001 and SSR9002 are self-contained, suitcase based, high performance repeater base stations designed for rapid deployment.

- SSR9001 Advanced Series provides high performance systems capability. Repeater Only or Repeater/Link operation, 1–25W.
- SSR9002 Compact Series provides 1–5W Repeater Only operation.
- Up to 48 hours of battery operation at 25% Tx duty cycle.
- Modular construction for low MTTR.
- Weatherproof Pelican housing.
- Microsoft Windows® based programming tool.
- 99 Mode fully programmable.
- Three key PMR frequency bands covered (136–520MHz).
- Completely compatible with SRP/SRM9000 Series Radios.
- Optional remote speaker microphone for Command Post operation.
- Charges from any 10-30V DC power source (Universal 12V/5A AC charger included).
- Optional P25 Transparent Operation.
- Optional Local Encode/Decode of DES-OFB & AES.
- Simple to use and easy to read panel.
- Battery “fuel gauge” display.



SSR9000

SPECIFICATIONS

Features



	SSR9002 Compact	SSR9001 Advanced
P25 Digital	Yes	Yes
136-174, 400-480, 440-520MHz sub-bands	Yes	Yes
99 Channel/Mode	Yes	Yes
Local Control capability	Yes	Yes
Battery Fuel Gauge	Yes	Yes
10-30V DC charging input	Yes	Yes
Flexible whip antenna	Yes	Yes
Internal ground plane	Yes	Yes
12V DC@5A Switched Mode Adaptor 100-240V AC	Yes	Yes
5 Watt Repeater	Yes	Yes
25Watt Repeater (intermittent rated)	No	Yes
19Ah Li-Ion Internal battery	Yes	No
38Ah Li-Ion Internal battery	No	Yes
300kHz Internal Duplexer	Yes	No
800kHz Internal Duplexer	No	Yes
Weatherproof Suitcase housing	Yes	Yes
Watertight Transit case	No	Yes
Secure Code Transparent	Option	Option
AES Encryption Encode /Decode	Option	Option
DES-OFB Encryption Encode /Decode	Option	Option
Repeater with In-Band Link	No	Option
Repeater with Cross Band Link	No	Option
Tone Remote Control	No	Option
Remote Phone Line (VOX)	No	Option
External Interface Audio interface	No	Option
Battery Life (typical 25/75% 5W repeat/standby operation)	>24hrs	>48hrs
Fast Deploy Remote Antenna Site Kit	Option	Option
76Ah Li-Ion Secondary Battery Kit	Option	Option

General Specifications

Channel Bandwidth	12.5kHz, 20kHz or 25kHz selectable per channel
Modulation	P25 Digital
Frequency Bands	AC 136-174MHz TU 400-480MHz UW 440-520MHz
Temperature	-10°C to +55°C Operating (Full Spec.) -40°C to +60°C Storage
Antenna Connector	N-Type Female
Inputs/Outputs	Command Post RSM (RJ45 – front panel) Power Connector (2 Pin) Optional Tone Remote line audio connections (RJ45 – front panel) Programming/Keypad connector (RJ45 – front panel)
Charging Voltage	10 to 30V DC @ >2A
Dimensions	SSR9001: 48.5 x 39.2 x 21.7cm (19.12" x 15.43" x 8.56") SSR9002: 40.6 x 33 x 20cm (16.00" x 13.00" x 7.87")
Internal Battery	12.6V DC @ 19Ah Super Li-Ion (SSR9001 has 38Ah)
Weight	SSR9001: <18kg, SSR9002: <12kg

Transceiver Specifications

Transmit Power	1W to 25W (SSR9001) selectable per channel 1W to 5W (SSR9002) selectable per channel
Current Consumption	5A @ 25W 1.2A @ 5W standby 400mA (Typical: 20°C)
Duty Cycle	SSR9001: Intermittent SSR9002: Continuous
Sensitivity	0.3µV-5% BER
Selectivity	>73dB (25kHz), >63dB (12.5kHz)
Intermodulation	>70dB attenuation
Hum and Noise	>40dB (12.5KHz), >45dB (25kHz)
Transmit Rise Time	<25mS

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