



Synthesized Vehicular Repeaters



PYRAMID
COMMUNICATIONS

Since 1990

Proudly Distributed By RFI Wireless



SVR P250 P25 Compliant

MULTI CHANNEL

2 WATT COVERAGE

NEW ESP PRIORITY STRUCTURE

WIDE OR NARROW BAND

EMERGENCY SIGNALING

P25 PHASE 1 COMPLIANT

AES/DES ENCRYPTION

- ▲ P25 Phase 1 Compliant
- ▲ 20 Channels
- ▲ New ESP™ Multi Vehicle Format
- ▲ AES / DES Encryption
- ▲ Programmable P25 or Analog Per Channel
- ▲ AS/NZS Compliant, FCC and Industry Canada Approved
- ▲ Wide or Narrow Band Programmable Per Channel
- ▲ Emergency Signalling
- ▲ Interface cables available to suit most popular two-way radios



SVR P250 P25 Twenty-Channel Digital Vehicular Repeater

The SVR-P250 is the next generation vehicular repeater that is fully compliant with the APCO Project 25 Phase 1 Digital Common Air Interface (CAI) protocol. Advanced features include secure communications with P25 portable radios, AES and DES encryption, and emergency signalling from portable to dispatch. PC programmable for up to 20 channels, with P25, wideband/narrowband, CTCSS/DCS, and emergency signalling on a per channel basis.

The SVR-P250 utilizes the new ESP™ priority structure that resolves priority conflicts during repeater idle time rather than at the critical start of a conversation. With ESP™, priority vehicles are assigned without user intervention to ensure uninterrupted communications when users exit their vehicles. ESP™ also ensures a quick recovery if two vehicles get in a priority mode at one scene. The SVR-P250 is both P25 and analog capable and can interface to analog or P25 mobiles providing flexible inter-operability between systems that wouldn't normally be able to communicate.

The SVR-P250 will interface to analog, digital, conventional or trunking mobiles and is capable of operating with SkyTerra (formally MSV) mobile satellite phones. In trunking mode, the SVR-P250 ensures proper acquisition of the trunking channel and uses the Smart Trunking Access™ mechanism of alerting the portable users of trunking status information.

In analog mode, the SVR-P250 is fully compatible with existing SVR-200 and SVR-250 vehicular repeaters to provide seamless integration while users upgrade their systems from analog to P25 digital.



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Specifications SVR P250



TRANSMITTER

	VHF	UHF	UHF
Frequency Range	136-174 MHz	400-450 MHz	450-530 MHz
RF power out	0.5 - 2W	0.5 - 2W	0.5 - 2W
Spurious emissions	-70dBc	-70dBc	-70dBc
Frequency stability -30°~ +60°C	±1.5PPM	±1.5PPM	±1.5PPM
Modulation	10K0F1D, 10K0F1E,	10K0F1D, 10K0F1E,	10K0F1D, 10K0F1E,
	10K0F7D,10K0F7E,	10K0F7D,10K0F7E,	10K0F7D,10K0F7E,
	11K0F3E, 12K3F1D,	11K0F3E, 12K3F1D,	11K0F3E, 12K3F1D,
	16K0F3E, 4K80F2D,	16K0F3E, 4K80F2D,	16K0F3E, 4K80F2D,
	7K60F1D,8K10F1D,	7K60F1D,8K10F1D,	7K60F1D,8K10F1D,
	8K10F1E, 8K10F7D,	8K10F1E, 8K10F7D,	8K10F1E, 8K10F7D,
	8K10F7E, 8K40F2D	8K10F7E, 8K40F2D	8K10F7E, 8K40F2D
Hum and noise			
25/30kHz	-43dB	-43dB	-43dB
12.5kHz	-38dB	-38dB	-38dB
Audio response (300-3kHz)	Flat or -6dB/octave	Flat or -6dB/octave	Flat or -6dB/octave
Audio distortion	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation
Local mic sensitivity	300mV - 5VPP	300mV - 5VPP	300mV - 5VPP
AS/NZS Compliance	N368	N368	N368
FCC Type Acceptance	LRUSVR-P250V	None	LRUSVR-P250U
Industry Canada Approval	2390A-SVRP250V	None	2390A-SVRP250U

RECEIVER

	VHF	UHF	UHF
Frequency Range	136-174 MHz	400-450 MHz	450-530 MHz
Analog sensitivity	0.28uV	0.28uV	0.28uV
Digital sensitivity (5% BER)	0.20uV	0.20uV	0.20uV
Squelch sensitivity	.2uV to 2uV adjustable	.2uV to 2uV adjustable	.2uV to 2uV adjustable
Selectivity			
25/30kHz channel	-75dB	75dB	75dB
12.5kHz channel	65dB	65dB	65dB
Spurious/Image rejection	75dB	75dB	75dB
IMD response	75dB	75dB	75dB
Frequency stability	±1.5PPM	±1.5PPM	±1.5PPM
Audio response (300-3kHz)	Flat or +6dB/octave	Flat or +6dB/octave	Flat or +6dB/octave
Audio output	0-5VPP AC coupled	0-5VPP AC coupled	0-5VPP AC coupled
	600/2.2K	600/2.2K	600/2.2K
Local Rx audio	400 mW 8 Ohms@	400 mW 8 Ohms@	400 mW 8 Ohms@
	<5% distortion	<5% distortion	<5% distortion

Power Requirements

DC Supply	13.6VDC negative ground ± 25%
Standby	170mA
Receive	250mA @ 400mW Rx Audio
Transmit	<2A @ rated output
Physical	
Dimensions	146mm x 254mm x 57mm (W x L xH) 5.75" x 10" x 2.25"
Weight	1.06Kg 38oz
Case	One piece extruded aluminium
Mil-Std-810D/E Ratings	
501.2	Procedure II High Temp +60°C
502.3	Procedure II Low Temp -30°C
507.2	Procedure II Humidity
510.2	Procedure II Blowing Dust
514.3	Procedure I Category 8
	Vibration, Ground Vehicle
516.3	Procedure I Shock



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