SVR-P252 P25 Enhanced Full-Duplex Vehicular Repeater

- FULL-DUPLEX REPEAT
- 2-WATT COVERAGE
- ESP2™ PRIORITY STRUCTURE
- NEW P25 SMART TRUNKING™
- P25 EMERGENCY CALLS
- P25 PHASE 1 COMPLIANT
- AES/DES ENCRYPTION **OPTION**

- ▲ **Full-Duplex Local Repeat**
- ▲ **System Repeat Using Mobile Radio**
- ▲ **ESP™** Multi-Vehicle Format
- ▲ Triggers **P25 Emergency Call with Hot Mic**
- ▲ Passes **P25 Channel Status** to Portable User
- ▲ Notifies Portable User if **Out of Range** of **SVR-P252**
- ▲ **Seamless Trunking Handshake** Through **SVR-P252**
- ▲ Notifies Portable User if Mobile is **Out of Range of P25 Network**
- ▲ Works with **KENWOOD Viking™** Radios

SVR-P252 P25 Enhanced Digital Vehicular Repeater

The SVR-**P252** is the latest generation full-duplex vehicular repeater from Pyramid Communications that is fully compliant with the **APCO Project 25** Phase 1 Digital Common Air Interface (CAI) protocol.

With Local Repeat (extending local coverage between portable users on a scene) and System Repeat (extending portable radio coverage back to dispatch using attached mobile radio interface), the SVR-**P252** provides uncompromising on-scene coverage.

The all new **P25 SmartTrunking™** feature works with **KENWOOD Viking portables and Viking VM900** mobile radios to create a seamless trunking handshake between the mobile radio network and SVR-**P252** user. This ensures that portable radio users outside the vehicle get quick and accurate notifications of all transmissions to the P25 network. Users will get indications of **Channel Grant, Busy, Denial, Out of Range** just as if they were on a trunked channel of the digital network.

In addition, the SVR-**P252** offers optional **AES and DES encryption**, and enhanced P25 **emergency signaling** from portable to dispatch through the SVR-P252. This allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-**P252** also utilizes the Pyramid's latest **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.

714-901-5462
www.pyramidcomm.com

PYRAMID COMMUNICATIONS
Since 1990

MADE IN AMERICA

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Specifications SVR-**P252**

TRANSMITTER

	VHF	UHF	764-776
Frequency Range	**136-174 MHz**	**380-470 MHz**	**764-776 MHz**
RF Power Out	0.5 - 2W	0.5 - 2W	0.25 - 1W
Spurious Emissions	-70dBc	-70dBc	-70dBc
Frequency Stability -30°~+60°C	±1.5PPM	±1.5PPM	±1.5PPM
Modulation	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D
Hum and Noise			
25/30kHz	-43dB	-43dB	-40dB
12.5kHz	-38dB	-38dB	-33dB
Audio Response (300-3kHz)	Flat or -6dB/octave	Flat or -6dB/octave	Flat or -6dB/octave
Audio istortion	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation
Local Mic Sensitivity	300mV - 5VPP	300mV - 5VPP	300mV - 5VPP
FCC Type Acceptance	LRUSVR-P250VA	LRUSVR-P250UA	LRUSVR-P250MB
Industry Canada Approval	2390A-SVRP250VA	2390A-SVRP250UA	2390A-SVRP250MB

RECEIVER

	VHF	UHF	764-776
Frequency Range	**136-174 MHz**	**380-470 MHz**	**764-776 MHz**
Analog Sensitivity	0.28uV	0.28uV	0.28uV
Digital Sensitivity (5% BER)	0.20uV	0.20uV	0.20uV
Squelch Sensitivity	.2µV to 2µV adjustable	.2µV to 2µV adjustable	.2µV to 2µV 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 600/2.2K	0-5VPP AC coupled 600/2.2K	0-5VPP AC coupled 600/2.2K
Local Rx Audio	400 mW 8 Ohms@ <5% distortion	400 mW 8 Ohms@ <5% distortion	400 mW 8 Ohms@ <5% distortion

Power Requirements

DC Supply	13.6VDC negative ground ± 25%
Standby	250mA
Receive	500mA @ 400mW Rx audio
Transmit	<3A @ rated output
Physical Dimensions	5.75"**W** x 10"**L** x 2.25"**H**
Weight	38 ounces
Case	One-piece extruded aluminium

Mil-Std-810H Ratings

501.5	Procedure II High Temp +60°C
502.5	Procedure II Low Temp -30°C
507.4	Procedure II Humidity
514.5	Procedure I Category 8 Vibration, Ground Vehicle
516.5	Procedure I Shock