SVR-P255 P25 Enhanced Vehicular Repeater Solution

MULTI CHANNEL

2 WATT COVERAGE

ESP™ PRIORITY STRUCTURE

NEW P25 SMART TRUNKING™

P25 EMERGENCY CALLS

P25 PHASE 1 COMPLIANT

AES/DES ENCRYPTION OPTION

- **▲ 20** Programmable Channels
- ▲ **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-P255
- ▲ Seamless Trunking Handshake Through SVR-P255
- ▲ Notifies Portable User if Mobile is Out of Range of P25 Network
- Works with KENWOOD Viking™ radios





SVR-P255 P25 Enhanced Vehicular Repeater Solution

The SVR-**P255** is the latest generation simplex vehicular repeater from Pyramid Communications that is fully compliant with the **APCO Project 25**Phase 1 Digital Common Air Interface (CAI) protocol.

The all new P25 SmartTrunking™ feature works with KENWOOD Viking portables and Viking VM900 mobile radio to create a seamless trunking handshake between the mobile radio network and SVR-P255 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-P255 offers optional **AES and DES encryption**, and enhanced P25 **emergency signaling** from portable to dispatch through the SVR-P255. This allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-P255 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



TRANSMITTER	VHF	UHF	764-870
Frequency Range RF power out Spurious emissions Frequency stability -30°~+60°C Modulation	136-174 MHz 0.5 - 2W -70dBc ±1.5PPM 10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	450-530 MHz 0.5 - 2W -70dBc ±1.5PPM 10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	764-776 MHz + 850-870 MHz 0.25 - 1W -70dBc ±1.5PPM 10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D
Hum and noise 25/30kHz 12.5kHz Audio response (300-3kHz) Audio distortion Local mic sensitivity FCC Type Acceptance Industry Canada Approval	-43dB -38dB Flat or -6dB/octave <3% @ 1kHz 60% deviation 300mV - 5VPP LRUSVR-P250V 2390A-SVRP250V	-43dB -38dB Flat or -6dB/octave <3% @ 1kHz 60% deviation 300mV - 5VPP LRUSVR-P250U 2390A-SVRP250U	-40dB -33dB Flat or -6dB/octave <3% @ 1kHz 60% deviation 300mV - 5VPP LRUSVR-P250M 2390A-SVRP250M
RECEIVER	VHF	UHF	764-870
Frequency Range Analog sensitivity Digital sensitivity (5% BER) Squelch sensitivity Selectivity 25/30kHz channel 12.5kHz channel Spurious/image rejection IMD response Frequency stability Audio response (300-3kHz) Audio output	136-174 MHz 0.28uV 0.20uV .2μV to 2μV adjustable 75dB 65dB 75dB 75dB 75dB ±1.5PPM Flat or +6dB/octave 0-5VPP AC coupled	450-530 MHz 0.28uV 0.20uV .2μV to 2μV adjustable 75dB 65dB 75dB 75dB 75dB ±1.5PPM Flat or +6dB/octave 0-5VPP AC coupled	764-776 MHz + 850-870 MHz 0.28uV 0.20uV .2μV to 2μV adjustable 75dB 65dB 75dB 75dB 75dB ±1.5PPM Flat or +6dB/octave 0-5VPP AC coupled

600/2.2K

400 mW 8 Ohms@

<5% distortion

Power Requirements

DC Supply Standby 13.6VDC negative ground \pm 25%

600/2.2K

400 mW 8 Ohms@

<5% distortion

170mA

Local Rx audio

250mA @ 400mW Rx Audio Receive <2A @ rated output **Transmit**

Physical

5.75"W x 10"L x 2.25"H Dimensions

Weight 38 ounces

One piece extruded aluminium Case

Mil-Std-810D/E Ratings 501.2 Procedure II High Temp +60°C Procedure II Low Temp -30°C
Procedure II Humidity
Procedure II Blowing Dust
Procedure I Category 8 502.3 507.2 510.2 514.3 Vibration, Ground Vehicle 516.3 Procedure I Shock



600/2.2K

400 mW 8 Ohms@

<5% distortion