



Synthesized Vehicular Repeaters



Communicate with Confidence



PYRAMID
COMMUNICATIONS

Since 1990



SVR-350 GUARDIAN The Scalable Vehicular Repeater

SIMPLEX COVERAGE

2 WATT COVERAGE

ESP™ PRIORITY STRUCTURE

P25 SMART TRUNKING™ / EVRS

ANALOG & P25 EMERGENCY

P25 PHASE 1 COMPLIANT

AES/DES ENCRYPTION OPTIONS



- ▲ SVR-200 and SVR-250 Compatible
- ▲ P25 Upgradeable In The Field
- ▲ SVR-P250 and SVR-P255 Compatible with P25 Option
- ▲ Software Configured Audio Levels and Jumpers
- ▲ **ESP™** Multi-Vehicle Format
- ▲ Available in VHF, UHF, 700 & 800 Mhz Models
- ▲ Seamless Trunking Handshake with **EVRS** Option
- ▲ Factory Interface Cables for Most Popular Public Safety Radios



SVR-350™ Guardian™ Analog and P25 Vehicular Repeater

The SVR-350™ Guardian™ is the latest and most advanced simplex vehicular repeater from Pyramid Communications. This is the first vehicular repeater offered by Pyramid that is scalable from a full featured analog unit to a digital P25 unit later. Optional **Software Feature Keys (SFK)** can add capabilities like P25 digital operation, AES/DES Encryption, EVRS and more!

In analog mode, the unit is fully backwards compatible with SVR-200™ and SVR-250™ analog systems. Users can enjoy a budget friendly entry to the SVR product line with the option to add **APCO Project 25** Phase 1 digital, and enjoy clear and secure communications in P25. In P25 mode, the SVR-350™ Guardian is backwards compatible with SVR-P250™ and SVR-P255™ products.

Optionally, the unit supports Pyramid's **P25 SmartTrunking** feature and works with mobile radios using the **EVRS** trunking protocol, to create a seamless trunking handshake between the mobile

radio network and SVR-350™ 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, when in P25 operation, the SVR-350™ offers optional **AES and DES encryption**, and enhanced P25 **emergency signaling** from portable to dispatch through the SVR-350™. This allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-350™ also utilizes Pyramid's latest **ESP™ and ESP2™** priority structures that resolve priority conflicts during repeater idle time rather than at the critical start of a conversation.



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Specifications SVR-350



TRANSMITTER

	VHF	UHF	764-870
Frequency Range	136-174 MHz	380-470 MHz	764-776 MHz + 850-870 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 Distortion	<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	764-870
Frequency Range	136-174 MHz	380-470 MHz	764-776 MHz + 850-870 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 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



SVR-250 Proven Strong Analog Performance

MULTI-CHANNEL

2-WATT COVERAGE

NEW ESP™ PRIORITY STRUCTURE

WIDE OR NARROW-BAND

EMERGENCY SIGNALING



- ▲ SVR-200 Compatible
- ▲ 20 Channels
- ▲ 5 mS Priority Sampling
- ▲ Wide or Narrow-Band Programmable Per Channel
- ▲ New ESP™ Multi-Vehicle Format
- ▲ Optional Internal Auxiliary Receiver
- ▲ Emergency Signaling
- ▲ Factory Interface Cables for Most Popular Public Safety Radios

SVR-250 Twenty-Channel Synthesized Vehicular Repeater

The SVR-250 is the **next-generation analog vehicular repeater** from Pyramid Communications. Available in VHF, UHF, 700, 800, and 900 MHz.

Enhanced features include the **fastest priority sampling time in the industry at 5 mS, and emergency signaling** from portable to dispatch. PC programmable for up to **20 channels**, with **wide-band/narrow-band, CTCSS/DCS, emergency or dual-tone on a per channel basis.**

The SVR-250 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-250 can **interface to analog or P25 digital mobile radios**, providing flexible interoperability between systems that wouldn't normally be able to communicate with analog portable radios

on a scene. The SVR-250 can **also interface to conventional or trunking mobiles** and is **capable of operating with Lightsquared (formally SkyTerra) mobile satellite phones.** In trunking mode, the SVR-250 ensures proper acquisition of the trunking channel and uses the **Smart Trunking Access™** mechanism of alerting the portable users of trunking status information.

SVR-250 is **fully compatible with existing SVR-200** vehicular repeaters to provide **seamless integration** while users expand their systems or upgrade to the new SVR-250 with ESP™ system.

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Specifications SVR-250



TRANSMITTER	VHF	UHF
Frequency Range	150–174 MHz	450–470 MHz 405–425 MHz ^①
RF power out	250mW - 2W	250mW - 2W
Spurious emissions	-50dBc	-52dBc
Frequency stability -30°~+60°C	±1.5 PPM	±1.5 PPM
Modulation	11KOF3E/16KOF3E	11KOF3E/16KOF3E
Hum and noise	-40dB	-40dB
Audio response (300-3kHz)	Flat or -6dB/octave	Flat or -6dB/octave
Audio distortion	<3%@60% deviation	<3%@60% deviation
Local mic sensitivity	300mV - 5VPP	300mV - 5VPP
FCC Type Acceptance	LRUSVR-200VB	LRUSVR-200UD
Industry Canada Approval	2390 195 458A	2390 212 113A

RECEIVER	VHF	UHF
Frequency Range	150–174 MHz	450–470 MHz 405–425 MHz ^①
RF sensitivity	.35uV	.35uV
Squelch sensitivity	.2uV to 2uV adjustable	.2uV to 2uV adjustable
Modulation acceptance	±3.75/±7.5kHz	±3.75/±7.5kHz
Selectivity	72dB	60dB
Spurious/image rejection	70dB	60dB
IMD response	60dB	60dB
Frequency stability	1.5 PPM	1.5 PPM
Audio response (300-3kHz)	Flat or +6dB/octave	Flat or +6dB/octave
Audio output	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



^① SPECIAL ORDER

Power Requirements

DC Supply	13.6VDC negative ground ± 25%
Standby	170mA
Receive	250mA @ 400mW Rx Audio
Transmit	<1A @ rated output

Physical Dimensions	5.75" W x 10" L x 2.25" H
Weight	38 ounces
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



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
- ▲ SVR-200 and SVR-250 Compatible
- ▲ Wide or Narrow-Band Programmable Per Channel
- ▲ Emergency Signaling
- ▲ Factory Interface Cables for Most Popular Public Safety Radios



SVR-P250 P25 Twenty-Channel Digital Vehicular Repeater

The SVR-P250 is the next generation vehicular repeater from Pyramid Communications 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 signaling** from portable to dispatch. **PC programmable** for up to 20 channels, with P25, wide-band/narrow-band, CTCSS/DCS, and emergency signaling 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 Lightsquared (formally SkyTerra) 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	764-870
Frequency Range	136-174 MHz	380-470 MHz	764-776 MHz + 850-870 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 distortion	<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	764-870
Frequency Range	136-174 MHz	380-470 MHz	764-776 MHz + 850-870 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 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	170mA
Receive	250mA @ 400mW Rx Audio
Transmit	<2A @ rated output

Physical Dimensions	5.75" W x 10" L x 2.25" H
Weight	38 ounces
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



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™** & **L3Harris XL™** Series 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 select models of **EVRS capable portables and mobile radios by Kenwood and L3Harris** 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 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.



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C O M M U N I C A T I O N S

Since 1990



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 Distortion	<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 Selectivity	.2uV to 2uV adjustable	.2uV to 2uV adjustable	.2uV to 2uV adjustable
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



SVR-D300 DMR Digital Vehicular Repeater

MULTI-CHANNEL

2-WATT COVERAGE

ESP™ PRIORITY STRUCTURE

NEW DMR SMART TRUNKING™

DMR EMERGENCY CALLS

DMR DIGITAL COMPLIANT



- ▲ 20 Programmable Channels
- ▲ **ESP™** Multi-Vehicle Format
- ▲ Triggers **DMR** Emergency Calls
- ▲ Factory Interface Cables for Most Popular **DMR** Radios
- ▲ Works With All Models of **DMR** Mobile Radios
- ▲ **USB** Programmable
- ▲ Built on Over 25 Years of Vehicular Repeater Solutions

SVR-D300 DMR Digital Vehicular Repeater

The SVR-D300 is the next-generation simplex vehicular repeater from Pyramid Communications that is fully compliant with the **DMR** Air Interface (AI) protocol, the ETSI dual time slot communications protocol.

The SVR-D300 also utilizes Pyramid's latest DMR **ESP™ priority structure** that **establishes a priority vehicle to handle on-scene communications**. 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.

In addition, the SVR-D300 offers our built-in **DMR Smart Trunking** protocol, which automates the trunking to the portable radio using our TM-250 series trunking microphones. Supports DMR **emergency signaling** from portable to dispatch through the SVR-D300 and allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-D300 is both **DMR and Analog** capable and can interface to analog or DMR mobile radios, providing flexible inter-operability between systems that wouldn't normally be able to communicate. The SVR-D300 will interface to analog, digital, conventional or trunked mobiles for a wide range of applications.

In Analog mode, the SVR-D300 is fully compatible with existing SVR-200 and SVR-250 vehicular repeaters to provide seamless integration while users upgrade their systems from analog to DMR digital.

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P Y R A M I D
C O M M U N I C A T I O N S

Since 1990



Specifications SVR-D300 DMR



TRANSMITTER

	VHF	UHF-A	UHF-D
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
RF power out	1 - 2W	1 - 2W	1 - 2W
Spurious emissions	-73dBc	-75dBc	-75dBc
Frequency stability -30°~+60°C	±1.0PPM	±1.0PPM	±1.0PPM
Modulation	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D
Hum and noise			
Analog @ 12.5kHz	45dB	40dB	40dB
Analog @ 25kHz	50dB	45dB	45dB
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
FCC Type Acceptance	LRUSVR-300V	LRUSVR-300UA	LRUSVR-300UD
Industry Canada Approval	2390A-SVR300V	2390A-SVR3000U(A) or (D)	2390A-SVR300UD
ACMA			

RECEIVER

	VHF	UHF-A	UHF-D
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
Analog sensitivity	0.25uV	0.25uV	0.25uV
Digital sensitivity (5% BER)	0.25uV	0.25uV	0.25uV
Squelch sensitivity	.2uV to 2uV adjustable	.2uV to 2uV adjustable	.2uV to 2uV adjustable
Selectivity			
Analog 25/30kHz channel	71dB	70dB	70dB
Analog 12.5kHz channel	81dB	80dB	80dB
Spurious/image rejection	87dB	85dB	85dB
IMD response	80dB	75dB	75dB
Frequency stability	±1.0PPM	±1.0PPM	±1.0PPM
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

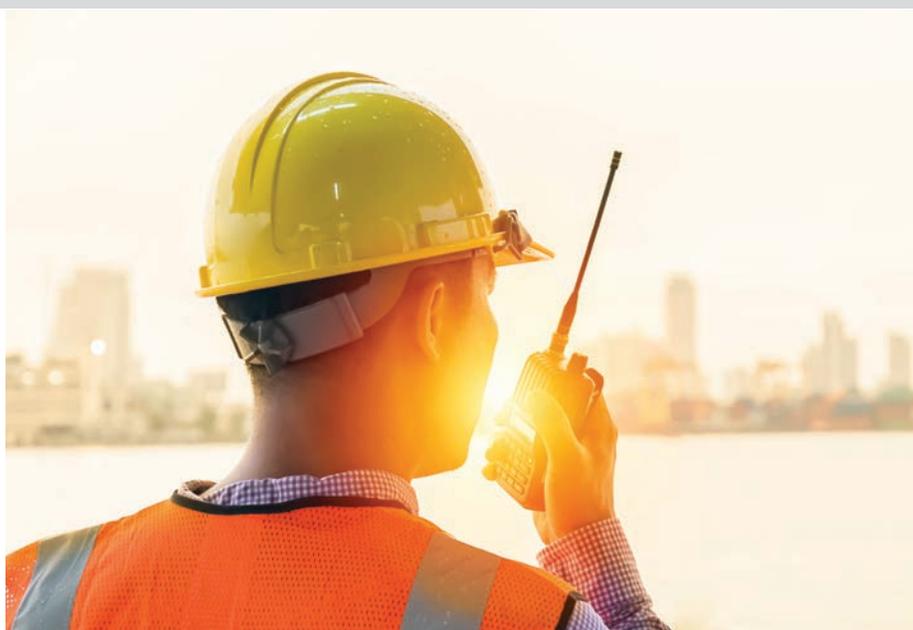
DC Supply	13.6VDC negative ground ± 25%
Standby	350mA
Receive	400mA @ 400mW Rx Audio
Transmit	<2.5A @ rated output

Physical

Dimensions	5.75"W x 10"L x 2.25"H
Weight	50 ounces
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



SVR-N300 NXDN Digital Vehicular Repeater

MULTI-CHANNEL

2-WATT COVERAGE

ESP™ PRIORITY STRUCTURE

NEW NXDN SMART TRUNKING™

NXDN EMERGENCY CALLS

NEXEDGE / NXDN COMPLIANT



- ▲ 20 Programmable Channels
- ▲ 6.25 & 12.5 kHz Channels
- ▲ **ESP™** Multi-Vehicle Format
- ▲ Triggers **NXDN** Emergency Call with Hot Mic
- ▲ Factory Interface Cables for Most Popular Radios
- ▲ Works with Kenwood NEXEDGE Mobile Radios
- ▲ **USB** Programmable
- ▲ Built on Over 25 Years of Vehicular Repeater Solutions

SVR-N300 NXDN NEXEDGE Digital Vehicular Repeater

The SVR-N300 is the next-generation simplex vehicular repeater from Pyramid Communications that is fully compliant with the NEXEDGE **NXDN** Digital Air Interface (DAI) protocol.

The SVR-N300 also utilizes Pyramid's latest NXDN **ESP™ priority structure** that **establishes a priority vehicle to handle on-scene communications**. 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.

In addition, the SVR-N300 offers our built-in **NXDN Smart Trunking** protocol, which automates the trunking to the portable radio using our TM-250 series trunking microphones. Supports NXDN **emergency signaling** from portable to dispatch through the SVR-N300 and allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-N300 is both **NXDN and Analog** capable and can interface to analog, NEXEDGE or NXDN mobile radios, providing flexible inter-operability between systems that wouldn't normally be able to communicate. The SVR-N300 will interface to analog, digital, conventional or trunked mobiles for a wide range of applications.

In Analog mode, the SVR-N300 is fully compatible with existing SVR-200 and SVR-250 vehicular repeaters to provide seamless integration while users upgrade their systems from analog to NXDN digital.

714-901-5462
www.pyramidcomm.com



P Y R A M I D
C O M M U N I C A T I O N S

Since 1990



Specifications SVR-N300 NXDN



TRANSMITTER

	VHF	UHF-A	UHF-D
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
RF power out	1 - 2W	1 - 2W	1 - 2W
Spurious emissions	-73dBc	-75dBc	-75dBc
Frequency stability -30°~+60°C	±1.0PPM	±1.0PPM	±1.0PPM
Modulation	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K10F1W, 8K10F1E, 8K10F1D
Hum and noise			
Analog @ 12.5kHz	45dB	40dB	40dB
Analog @ 25kHz	50dB	45dB	45dB
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
FCC Type Acceptance	LRUSVR-300V	LRUSVR-300UA	LRUSVR-300UD
Industry Canada Approval	2390A-SVR300V	2390A-SVR3000U(A) or (D)	2390A-SVR300UD
ACMA			

RECEIVER

	VHF	UHF-A	UHF-D
Frequency Range	136-174 MHz	380-470 MHz	450-520 MHz
Analog sensitivity	0.25uV	0.25uV	0.25uV
Digital sensitivity (5% BER)	0.25uV	0.25uV	0.25uV
Squelch sensitivity	.2uV to 2uV adjustable	.2uV to 2uV adjustable	.2uV to 2uV adjustable
Selectivity			
Analog 25/30kHz channel	71dB	70dB	70dB
Analog 12.5kHz channel	81dB	80dB	80dB
Spurious/image rejection	87dB	85dB	85dB
IMD response	80dB	75dB	75dB
Frequency stability	±1.0PPM	±1.0PPM	±1.0PPM
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
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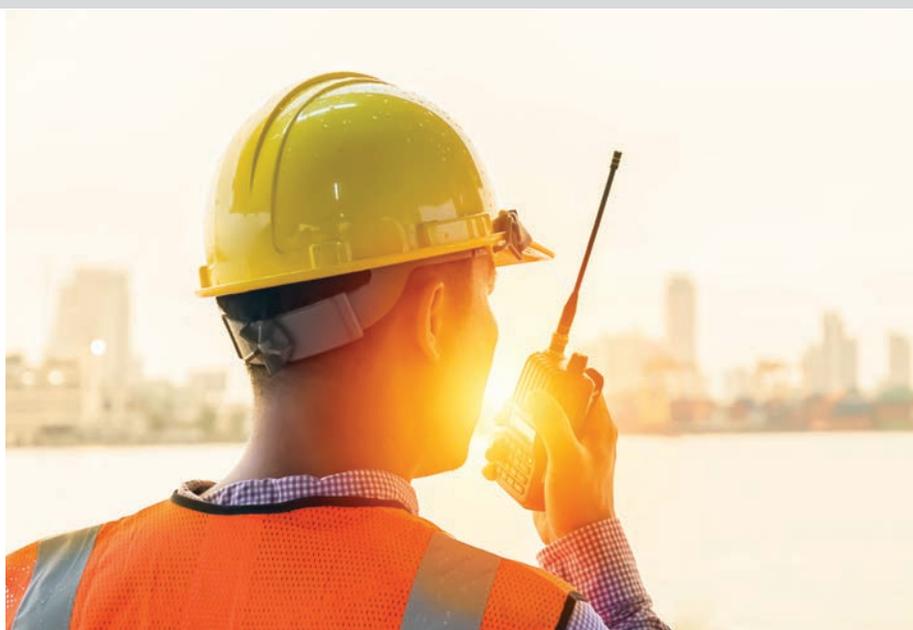
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TFC - Repeater Tactical Field Case

COMPACT

PERFECT CARRY-ON SIZE

EASY-TO-USE PULL HANDLE

RUGGED DESIGN

QUIET-GLIDE WHEELS

FITS ALL SVR MODELS

MADE IN THE USA



- ▲ Field-Deployable Portable Repeater Solution
- ▲ Creates a **Digital** or **Analog** Field Repeater
- ▲ Supports **SVR-250, SVR-350, SVR-P250, SVR-300** and **SVR-P252**
- ▲ Universal **Mobile Radio** Mounting
- ▲ Internal Duplexer Optional
- ▲ Internal In-Band Filters Optional
- ▲ External Dimensions: 9.5" X 14" X 22.55"
- ▲ Includes DC Power Cables



Portable SVR Repeater Tactical Field Case

Special circumstances call for special equipment. Teams rely on enhanced portable radio coverage on-scene and the SVR **Tactical Field Case** can quickly enhance portable radio coverage for mission-critical scenarios.

Create a portable repeater with the SVR **Tactical Field Case**. This rugged, easy-to-transport case encloses the **SVR Repeater** of your choice along with your preferred mobile radio to create an easy-to-deploy repeater system that links back to dispatch using the enclosed mobile radio.

The case is designed to run off of 12V. Powerpole cables are included for quick connection to vehicle power sources.

In addition, the **Tactical Field Case** is designed to enclose all required duplexers and in-band filters to maximize portable radio coverage when deployed.

Designed with durability in mind, the **Tactical Field Case** and **SVR Repeater** ensures your users get the coverage they need when on-scene.

Contact Pyramid Communications to work with an experienced sales manager to configure the various options available for the **Tactical Field Case**.

714-901-5462
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PYRAMID
COMMUNICATIONS

Since 1990





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COMMUNICATIONS

Do you have Portable Radio Coverage Issues?

Pyramid Communications can help. For over 35 years, we have specialized in providing agencies with **extended handheld coverage** when outside their vehicle. Pyramid SVR repeaters **extend your coverage** even better so you don't have to worry about being stranded without comms again and you can **focus on your primary mission**.

Turn Your Handheld Into a Long Range Radio



- Easy to Use Extended-Range to ANY Brand Portable Radio
- Analog and P25 Digital Capable
- DES & AES Encryption Available
- Plug and Play Technology
- Automatically Establishes a Priority Vehicle
- Available in VHF, UHF, 7/800 MHz Models
- Works With Major Public Safety Brand Mobile Radios
- Used by Countless Public Safety Agencies Every Day
- Available For Purchase on GSA and NASPO Contracts



Rancho Santa Margarita, CA 92688
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