



Synthesized Vehicular Repeaters



PYRAMID
COMMUNICATIONS



RFI
TECHNOLOGY SOLUTIONS



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SVR D300 DMR Digital Vehicle Repeater

Multi Channel

2 Watt Coverage

ESP™ Priority Structure

New DMR Smart Trunking™

DMR Emergency Calls

DMR Digital Compliant

Optional Encryption (release pending)



- Works with most DMR and MOTOTRBO™ radios
- 20 Channels
- New ESP™ Multi Vehicle Format
- AES / DES Encryption
- Programmable DMR or Analog per Channel
- Optional Remote Head kit (release pending)
- AS/NZS Compliant, FCC and Industry Canada Approved
- Wide or Narrow Band Programmable per Channel
- Emergency Signalling
- Interface cables available for most DMR radios

SVR D300 DMR Digital Vehicle Repeater

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

The SVR-D300 also utilises Pyramids latest DMR ESP™ priority structure that establishes a priority vehicle to co-ordinate 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 into a priority mode at one scene.

In addition, the SVR-D300 offers built-in DMR Smart Trunking protocol, which automates the trunking to the portable radio when using the TM-250 series trunking microphones. DMR emergency signalling is supported from the portable radio to the despatcher 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 digital and Analogue capable and can interface to DMR or Analogue mobile radios, providing flexible inter-operability between systems that wouldn't normally be able to communicate with each other. The SVR-D300 will interface to analogue, digital, conventional or trunked mobile radios for a wide range of applications.

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

Specifications SVR D300

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			
25/30kHz	45dB	40dB	40dB
12.5kHz	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
AS/NZS Compliance	N368	N368	N368
FCC Type Acceptance	LRUSVR-300V	LRUSVR-300UA	LRUSVR-300UD
Industry Canada Approval	2390A-SVR300V	2390A-SVR300UA	2390A-SVR300UD

RECEIVER

	VHF	UHF-A	UHF-D
Frequency Range	136-174 MHz	380-470 MHz	450-520 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	71dB	70dB	70dB
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	146mm x 254mm x 57mm (W x L x H) 5.75" x 10" x 2.25"
Weight	1.27Kg 50oz
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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your nearest RFI Sales Office.**

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