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

PYRAMID
COMMUNICATIONS
Since 1990

MADE IN AMERICA

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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	.2µV to 2µV adjustable	.2µV to 2µV adjustable	.2µV to 2µV 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