

NEXEDGE®

NXR-5900/5901

800/900MHz DIGITAL & ANALOG BASE REPEATER

NEXEDGE® repeaters maximize the performance of analog/digital conventional systems and scalable, server-based NEXEDGE Generation2 (Gen2) multi-site digital trunked networks. Powerful and flexible, these repeaters feature faster processing speed and extensive data storage. Take control of your transition from analog to digital operations with these highly versatile repeater and future proof your system.

FEATURES

- 0.36/0.1 W Exciter Output Power
- Two-Digit LED Numeric Status Indicators
- USB 2.0 Type-B Interface
- IP LAN/WAN Connectivity
- Ethernet Network Interface
- 6 Programmable Function Keys
- 0.3 W Front Panel Speaker
- 3 W External Speaker Audio
- Audio Volume Control
- Program / Modem Interface
- Remote Termination Interface
- Programmable AUX I/O's
- DTMF Remote Control
- Flash Firmware Upgrading
- Remote System Firmware Updates
- Telephone Interconnect Option
- NXDN Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Bandwidth

- Built-In 0.5 ppm TCXO
- OCXO Unit Option (KXK-3)
- UID & GID Validation
- NXR Over-the-Air Alias
- SNMP Readv
- FER (Frame Error Rate) / RSSI Output

DIGITAL - TRUNKING MODE

- NEXEDGE Gen2 & NXDN Type-C Network
- Transmission Trunked Mode
- Message Trunked Mode
- Busy Call Queuing
- Call Queue Pre-emption
- Late Entry (UID & GID)
- Control / Traffic Channel Switching
- Control Channel Rotation
- Cross-Busy
- Failsoft Mode
- NXDN Traffic Channel Sharing

- ESN Validation
- Auto-Roaming / Registration
- Wide Area All Group Call

DIGITAL - CONVENTIONAL MODE

- Mixed FM / Digital Operation
- Conventional IP Networks
- Site Roaming Capability

ANALOG - FM MODE

- QT/DQT Multi-Table Support
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface
- EIA Voter Tone Generation
- External LTR® Controller Interface
- External MPT1327 Controller Interface





Link multiple sites and multiple channels more simply, without the need for a site controller, for greater system integrity and reliability and lower cost.



Scalable server-based system architecture for management of NEXEDGE wide area digital communications systems.



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Reliable very narrow banded 6.25kHz operation is assured with a temperature controlled crystal oscillator, locking in the highest level of frequency stability.







■ KMC-30 Microphone







All accessories may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories.

Specifications

	NXR-5900	NXR-5901		
GENERAL	· ·			
Frequency Range				
Receive	806-825 MHz	896-902 MHz		
Transmit	851-870 MHz	935-941 MHz		
Channel Spacing				
Analog	25/12.5 kHz	12.5 kHz		
Digital	12.5/6.25 kHz			
PLL Channel Step	6.25/5/3.125 kHz			
Operating Voltage	10.8-15.9 V DC			
Operating Temperature	-22 °F to +140 °F (-30 °C to +60 °C)			
Frequency Stability				
Radio Only	±0.5 ppm			
With KXK-3 (M3)	±0.1 ppm			
Antenna Impedance	50 Ω			
Dimensions (W x H x D)	19 x 1.73 x 13.03 in (482.6 x 44 x 331 mm)			
Weight (net)	11 lb (5 kg)			
FCC ID	K44474700	K44474701		
IC Certification	282F-474700	282F-474701		

*Applies only to the NXR-5900.

Analog measurements made per TIA603. Specifications are measured according to applicable standards.

Specifications shown are typical and subject to change without notice, due to advancements in technology.

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All other trademarks are the property of their respective holders.

	NXR-5900 NXR-5901		
RECEIVER			
Sensitivity			
NXDN® 6.25 kHz Digital (3% BER)	0.27 μV		
NXDN®12.5 kHz Digital (3% BER)	0.33 μV		
Analog (12dB SINAD)	0.30 μV		
Selectivity			
Analog @12.5 kHz	73 dB		
Analog @ 25 kHz	81 dB -		
FM Hum & Noise			
Analog @12.5 kHz	50 dB		
Analog @ 25 kHz	55 dB		
ntermodulation			
Analog @12.5 kHz	82 db		
Analog @ 25 kHz	84 dB -		
Spurious Responce	93 dB		
Audio Distortion (Ext SP)	Less than 2 % (at 0.3 W)		
Audio Output Power (Ext. SP)	3 W (at 4 Ω, less than 5 % distortion)		
TRANSMITTER			
RF Power Output	360 mW to 100 mW		
Spurious Emission	73 dB		
M Hum & Noise			
Analog @ 12.5 kHz	45 dB		
Analog @ 25 kHz	50 dB		
Audio Distortion	Less than 1 % at 1000 Hz		
Emission Designator	16K0F3E*, 14K0F3E*, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W,		
-	4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		

MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	502.1/Procedure II	502.2/Procedure II	502.3/Procedure II	502.4/Procedure II	502.5/Procedure II
Temperature Shock	503.1/Procedure I, II	503.2/Procedure I, II	503.3/Procedure I, II	503.4/Procedure I, II	503.5/Procedure I



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