

NEXEDGE®

NXR-900

NEXEDGE® 800 MHz Digital & Analog Repeater

NXDN® FleetSync®

GENERAL FEATURES

- 800 MHz (RX: 806-825, TX: 851-870 MHz)
- 360 mW Exciter Output
- 40 / 80 / 130 Watt 800 MHz Systems
- Repeater Operation
- Two-Digit LED Display
- LED Status Indicators
- 6 Programmable Function Keys
- 0.3 W Front Panel Speaker
- 3 W External Speaker Audio
- Volume Control
- Program/Modem Interface
- Remote Termination Interface
- Programmable AUX I/O's
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- KPG-109D Windows® FPU
- Flash Firmware Upgrading

DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2[™] VOCODER
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXR Over-the-Air Alias
- NXDN® Scrambler Included
- High Stability 0.5 PPM TCXO Included

DIGITAL – CONVENTIONAL MODE

- 16 RAN Repeater Controller Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming Capability

DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Transmission Trunked Mode
- Message Trunked Mode
- Busy Call Queuing
- Call Queue Pre-emption
- Late Entry (UID & GID)
- Control Channel Rotation
- Cross-Busy
- Fail Soft Mode
- NXDN® & LTR® Traffic Channel Sharing
- 2MB Call/Activity Memory
- Compact Flash Memory Expansion
- ESN Validation

MULTI-SITE IP NETWORK OPTION

- 48 Site Trunked IP Network
- 65,519 GIDs Per Network
- 65,519 UIDs per Network
- NEXEDGE® Trunked Features
- Ethernet Network InterfaceIP LAN/WAN Connectivity
- Wide Area All Group Call
- Group Registration
- · Auto-Roaming / Registration
- Virtual Private Network
- Use of Off-the-Shelf 10 Base-T/100 Base-TX Ethernet Switching & Routers

KPG-110SM SYSTEM MANAGER

- Trunked Sites & IP Network Systems Only
- Windows® 2000/XP/Vista®/7 Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- 127 UID/GID Class Of Service Entries
- 5000 Fleets (UID/GID User Lists)
- Group Call Inter-Site Limits
- Remote Site Programming
- Real-Time Activity Monitoring
- NXR/Network Interface Diagnostics
- Call Logging / Event Download
- Remote System Firmware Updates

MODES – GENERAL

- 25 &12.5 kHz Channels
- NPSPAC Channels
- Encryption/ANI Board Control

FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface

FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



Options



KES-5External Speaker



Main Specifications

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

	NXR-900
GENERAL	
Frequency Range	
Receive	806-825 MHz
Transmit	851-870 MHz
Channel Spacing Analog	12.5 / 25 kHz
Digital	6.25 / 12.5 kHz
PLL Channel Step	3.125 / 6.25 kHz
Frequency Stability	± 0.5 ppm
Operating Voltage	13.8 V DC ± 15%
Operating Temperature Range	-22° F to + 140° F (-30° C to +60° C)
Antenna Impedance	50 Ω
Dimensions (W x H x D) Projections not included	19.02 x 1.73 x 13.03 in (483 x 44 x 331 mm)
Weight (net)	11 lb (5 kg)
FCC ID	K44417100
IC Certification	282F-417100
RECEIVER	2021 417 100
Sensitivity	
Digital @ 6.25kHz (3% BER)	0.27 μV
Digital @ 12.5kHz (3% BER)	0.33 µV
Analog (12 dB SINAD)	0.30 µV
Selectivity	
Analog @ 25 kHz	81 dB
Analog @ 12.5 kHz	73 dB
FM Hum & Noise	
Analog @ 25 kHz	55 dB
Analog @ 12.5 kHz	50 dB
Intermodulation Distortion	84 dB (± 50 / 100 kHz)
Spurious Response	93 dB
Audio Distortion (Ext. SP)	Less than 2% (at 0.3W)
Audio Output (Ext. SP)	3 W (at 4Ω , less than 5% distortion)
TRANSMITTER	
RF Power Output	360 mW to 100 mW
Spurious & Harmonics	73 dB
FM Hum & Noise	
Analog @ 25 kHz	50 dB
Analog @ 12.5 kHz	45 dB
Audio Distortion	Less than 1% at 1000 Hz
Modulation	16K0F3E, 14K0F3E, 11K0F3E, 8K30F1E,
	8K30F1D, 8K30F7W, 4K00F1E,
	4K00F1D, 4K00F7W, 4K00F2D

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation. LTR® is a registered trademark of Transcrypt International. AMBE+ 2^{IM} is a trademark of Digital Voice Systems Inc.

Windows® and Windows 2000/XP/Vista® are registered trademarks of Microsoft Corporation. NXDN® is a registered trademark of Kenwood Corporation and Icom Inc. NXEDGE® is a registered trademark of Kenwood Corporation.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood U.S.A. Corporation Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024

Order Administration/Distribution P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745 Kenwood Electronics Canada Inc. Canadian Headquarters and Distribution 6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8



