

KENWOOD

Listen to the Future

NEXEDGE®

NXR-700/800

NEXEDGE® VHF/UHF Digital & FM Base Units

NXDN®

● GENERAL FEATURES

- 146-174 MHz
- 440-470 MHz
- Meets ETSI EN Standards
- 5-25 W Output (100% Duty Cycle)
- Repeater Operation
- Duplex/Simplex Base Operation
- 30 CH Scanning Base (Conventional)
- Two-Digit LED Display
- LED Status Indicators
- 6 Programmable Function Keys
- 3 W External Speaker Audio
- Volume Control
- Microphone Jack
- 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
- NXDN® Scrambler Included
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXR Over-the-Air Alias
- KXK-3 OCXO Option

● DIGITAL – CONVENTIONAL MODE

- 16 RAN Repeater Controller Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Mixed FM/Digital Operation

● 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 Que Pre-emption
- Late Entry (UID & GID)
- Control / Traffic Channel Switching
- Control Channel Rotation
- Cross-Busy
- Failsoft Mode
- NXDN® Traffic Channel Sharing
- 2MB Call/Activity Memory
- Compact Flash Memory Expansion
- ESN Validation

● MULTI-SITE IP NETWORK OPTION

- 16 Site Trunked IP Network
- 60,000 GIDs Per Network
- 60,000 UIDs Per Network
- NEXEDGE® Trunked Features
- Ethernet Network Interface
- IP LAN/WAN Connectivity
- Auto-Roaming / Registration
- Wide Area All Group Call
- Virtual Private Network
- Group Registration
- 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® Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- 127 UID Class-of-Service Entries
- 127 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

● FM MODES – GENERAL

- 25, 20 & 12.5 kHz 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
- EIA Voter Tone Generation

● FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



<http://nexedge.kenwood.com>

Options

KXK-3
OCXO Unit



KMC-35
Microphone



KES-5
External Speaker



KMC-30
Microphone



KMC-9C
Desktop Microphone



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.

Main Specifications

		NXR-700	NXR-800
GENERAL			
Frequency Range		146-174 MHz	440-470 MHz
Channel Spacing	Analogue Digital		25 / 20 / 12.5 kHz 12.5 / 6.25 kHz
PLL Channel Step		6.25 / 5 / 3.125 / 2.5 kHz	6.25 / 5 / 3.125 kHz
Frequency Stability		± 1.5 ppm	± 1.5 ppm ± 1.0 ppm (with KXK-3)
Operating Voltage		13.2 V DC (10.8 - 15.6 V DC)	
Operating Temperature Range		- 30°C to + 60°C	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	483 x 44 x 331 mm	
Weight (net)		5 kg	
Applicable Standards	ETSI R&TTE	EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166	
	ETSI Safety	EN 60065, EN 60950-1, EN 60215	
RECEIVER			
Sensitivity (Analogue) (25kHz/20kHz/12.5kHz)	EIA 12dB SINAD EN 20dB SINAD	0.30 μV 0 dB μV (0.50 μV)	
Sensitivity (Digital) (12.5kHz/6.25kHz)	3% BER 1% BER	0.33 μV / 0.27 μV -1 dB μV (0.45 μV) / -3 dB μV (0.35 μV)	
Adjacent Channel Selectivity (Analogue) (25kHz/20kHz/12.5kHz)		90 dB / 87 dB / 82 dB	85 dB / 82 dB / 78 dB
Intermodulation (Analogue)		72 dB	
Spurious Response Rejection (Analogue)		95 dB	
Audio Distortion		Less than 2%	
Audio Output		3 W / 4 Ω	
TRANSMITTER			
RF Power Output		5 - 25 W	
Modulation Limiting (Analogue)		± 5.0 kHz at 25 kHz ± 4.0 kHz at 20 kHz ± 2.5 kHz at 12.5 kHz	
Spurious Emission		- 36 dBm ≤ 1 GHz, - 30 dBm > 1 GHz	
FM Noise (EIA) (Analogue, 25kHz/20kHz/12.5kHz)		55 dB / 55 dB / 50 dB	
Modulation Distortion		Less than 1 %	
Modulation		16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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

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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.

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