

NEXEDGE®

NXR-700/800

NEXEDGE® VHF/UHF Digital & FM Base Units

NXDN®

● GENERAL FEATURES

- 146-174 MHz
- 400-430, 440-470 MHz
- 400-430(RX), 440-470(TX) MHz Crossband
- 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
- 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
- KXX-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
- Conventional IP Networks
- Site Roaming Capability

● DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Telephone Interconnect Option
- 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
- 2 MB Call/Activity Memory
- Compact Flash Memory Expansion
- ESN Validation

● MULTI-SITE IP NETWORK OPTION

- 48 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®/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)
- Telephone Call Limits
- 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

* E type only

● 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
- Voting

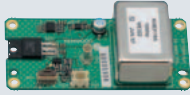
● FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



Options

■ **KXK-3**
OCXO Unit



■ **KMC-35**
Microphone



■ **KES-5**
External Speaker



■ **KMC-30**
Microphone



■ **KMC-9C**
Desktop Microphone



■ **KTI-4**
Telephone Interconnect
Adapter



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

Main Specifications

		NXR-700	NXR-800
GENERAL			
Frequency Range	E Type E3 Type E4 Type	146-174 MHz — —	440-470 MHz 400-430 MHz RX: 400-430 MHz TX: 440-470 MHz
Channel Spacing	Analogue E Type E3, E4 Type Digital	25 / 20 / 12.5 kHz — 12.5 / 6.25 kHz	25 / 20 / 12.5 kHz 25 / 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		± 1.0 ppm	
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 ETSI Safety	EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166 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	

* E type only

Analogue measurements made per EN Standards or TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

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Kenwood Electronics UK Limited

Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom

www.kenwood-electronics.co.uk

http://nexedge.kenwood.com



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Professional Systems Business Group
JVC KENWOOD Corporation