

● GENERAL FEATURES

- 800 MHz (RX: 806-825, TX: 851-870 MHz)
- 900 MHz (RX: 896-902, TX: 935-941 MHz)
- 360 mW Exciter Output
- 40 / 80 / 130 Watt 800 MHz Systems
- 40 / 75 / 130 Watt 900 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
- High Stability 0.5 ppm TCXO Included
- Telephone Inconnect Option
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXDN® Over-the-Air Alias
- NXDN® Scrambler Included
- High Stability 0.5 ppm TCXO Included
- Telephone Interconnect 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
- 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 Interface
- IP 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-T Ethernet Switches & 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
- 5,000 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* & 12.5 kHz Channels
- NPSAC 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

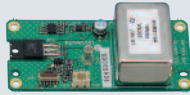
- External LTR® Controller Interface
- External MPT Controller Interface

* 800 MHz model only.



Options

- **KXK-3M3**
OCXO Unit
(Required for
operation in 900 MHz)



- **KMC-9C**
Desktop Microphone



- **KTI-4M**
Telephone Interconnect
Adapter (Requires telephone patch)



- **KMC-35**
Microphone



- **KES-5**
External 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	NXR-901
GENERAL			
Frequency Range	Receive Transmit	806-825 MHz 851-870 MHz	896-902 MHz 935-941 MHz
Channel Spacing	Analog Digital	12.5 / 25 kHz 6.25 / 12.5 kHz	12.5 kHz 6.25/12.5 kHz
PLL Channel Step		3.125 / 6.25 kHz	
Frequency Stability	With KXK-3M3	± 0.5 ppm ± 0.1 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	K44417101
IC Certification		282F-417100	282F-417101
RECEIVER			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)	0.27 μV 0.33 μV 0.30 μV	
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	81 dB 73 dB	- 73 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	55 dB 50 dB	- 50 dB
Intermodulation Distortion	Analog @ 25 kHz Analog @ 12.5 kHz	84 dB 82 dB	- 82 dB
Spurious Response		93 dB	
Audio Distortion (Ext. SP)		Less than 2% (at 0.3W)	
Audio Output (Ext. SP)		3 W (at 4 Ω, less than 5% distortion)	
TRANSMITTER			
RF Power Output		360 mW to 100 mW	
Spurious & Harmonics		73 dB	
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	50 dB 45 dB	- 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.
Specifications are subject to change without notice, due to advancements in technology.

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AMBE+2™ is a trademark of Digital Voice Systems Inc.
NXDN® is a registered trademark of JVC KENWOOD Corporation and Icom Inc.
NEXEDGE® is a registered trademark of JVC KENWOOD Corporation.

* NXR-900 only

This device, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

KENWOOD

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