

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

NEXEDGE Generation1 System (Gen1)

- 48 Site Trunked IP Network
- 65,519 GIDs Per Network
- 65,519 UIDs per Network
- NEXEDGE® Trunked Features
- KPG-110SM System Manager (Windows® Application)
- Subscriber Privileging
- 127 UID/GID Class Of Service Entries
- 5,000 Fleets (UID/GID User Lists)
- Real-Time Activity Monitoring
- NXR/Network Interface Diagnostics
- 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-TX Ethernet Switching & Routers

NEXEDGE Generation2 System (Gen2)

- All Gen1 Functionalities
- 1,152 Site Trunked IP Network
- Up to 24 System Controllers (48 sites each)
- Up to 24 different system codes with System Bridge *
- 5,000 UID/GID Class Of Service Entries
- 1,000 Console Connection per System
- 1,000 Multi User Access
- Web browser Configuration without KPG-109D Programming Software.
- Network Management by Network Manager Client (Windows® Application)
- Centralized Log Management
- Automatic Updating Firmware via Network
- Less and Fast Reboot/Restart
- SNMP Compatible *
- Direct Frequency Assignment
- Large GPS Capacity *
- Fleet Priority Channel
- Registration Monitor
- Dynamic Control Channel
- Automatic ESN Collection
- Automatic Stun/Kill
- Call Traffic Management
- Call Preemption for Console

FM 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

*Future Release



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	806-825 MHz	896-902 MHz
	Transmit	851-870 MHz	935-941 MHz
Channel Spacing	Analog	12.5 / 25 kHz	12.5 kHz
	Digital	6.25 / 12.5 kHz	6.25/12.5 kHz
PLL Channel Step		3.125 / 6.25 kHz	
Frequency Stability		± 0.5 ppm	
	With KXK-3M3	± 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)		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	73 dB
FM Hum & Noise	Analog @ 25 kHz	55 dB	-
	Analog @ 12.5 kHz	50 dB	50 dB
Intermodulation Distortion	Analog @ 25 kHz	84 dB	-
	Analog @ 12.5 kHz	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	50 dB	-
	Analog @ 12.5 kHz	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.
Due to advancements in technology, specifications are subject to change without notice.

Windows® and Windows Vista® are registered trademarks of Microsoft Corporation
LTR® is a registered trademark of Transcript International.
AMBE+2™ is a trademark of Digital Voice Systems Inc.
NXDN® is a registered trademark of JVCKENWOOD Corporation and Icom Inc.
NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.

* NXR-900 only

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

KENWOOD

JVCKENWOOD USA Corporation
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265
Order Administration/Distribution
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa

JVCKENWOOD Canada Inc.
Canadian Headquarters and Distribution
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.com/ca



ISO9001 Registered
JVCKENWOOD Corporation

ADS#40415 Printed in USA