

GENERAL FEATURES

- 136-154, 146-174 MHz
- 400-430, 450-480, 480-512 MHz
- 5 W Exciter Output
- 50 / 110 / 150 Watt VHF Systems
- 40 / 100 / 150 Watt UHF Systems
- Repeater Operation
- Duplex/Simplex Base Operation
- 30 CH Scanning Base (Conventional)
- 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
- KXX-3 OCXO Option (6.25 kHz operation)
- NXDN® Scrambler 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
- Control / Traffic Channel Switching
- 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

NEXEDGE Generation2 System (Gen2)

- All Gen1 Functionalities
- 1,152 Site Trunked IP Network
- Up to 24 System Controllers (48 sites each)
- Up to 24 Multi-System *
- 5,000 UID/GID Class Of Service Entries
- 1,000 Console Connection per System
- 1,000 Multi User Access

- System Configuration via web browser without KPG-109D Programming Software
- Centralized Log Management
- Automatic Firmware Updating
- Less and Fast Reboot/Restart
- SNMP Compatible *
- Direct Frequency Assignment
- Increased GPS Capacity *
- Fleet Priority Channel
- Registration Monitor
- Dynamic Control Channel
- Automatic ESN Collection
- Automatic Stun/Kill
- Call Traffic Management
- Call Preemption for Console
- Network Monitoring by Network Manager Client (Windows® Application)

ANALOG MODES – GENERAL

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

ANALOG CONVENTIONAL MODE

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

ANALOG LTR® TRUNKED MODE

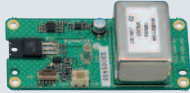
- External LTR® Controller Interface
- External MPT Controller Interface

*Future Release



Options

- **KXK-3**
OCXO Unit
(Required for
6.25 kHz operation)



- **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.

GENERAL		NXR-700	NXR-800
Frequency Range	K K2 K3	146-174 MHz 136-154 MHz	450-480 MHz 480-512 MHz (RX) / 477-512 MHz (TX) 400-430 MHz
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 / 5 / 6.25 kHz	3.125 / 5 / 6.25 kHz
Frequency Stability	With KXK-3 (for 6.25 kHz)		± 1.5 ppm ± 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	K K2 K3	K44371300 K44371301	K44371400 K44371401 K44371402
IC Certification	K K2 K3	282F-371300 282F-371301	282F-371400 282F-371402
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 @ 25/30 kHz Analog @ 12.5 kHz	93 dB (± 30 kHz) 85 dB (± 12.5 kHz)	87 dB (± 25 kHz) 81 dB (± 12.5 kHz)
FM Hum & Noise	Analog @ 25/30 kHz Analog @ 12.5 kHz		60 dB 55 dB
Intermodulation Distortion			85 dB (± 50 / 100 kHz)
Spurious Response			100 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			5 W to 0.5 W
Spurious & Harmonics			73 dB
FM Hum & Noise	Analog @ 25/30 kHz Analog @ 12.5 kHz		55 dB 50 dB
Audio Distortion			Less than 1% at 1000 Hz
Modulation			16K0F3E, 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.

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