

### 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
- KXK-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

- 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-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
- 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
- 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 LTR® TRUNKED MODE

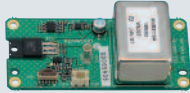
- External LTR® Controller Interface
- External MPT Controller Interface



## 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
<b>RECEIVER</b>			
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)
<b>TRANSMITTER</b>			
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.  
Specifications are subject to change without notice, due to advancements in technology.

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