

## NX-900/901

### NEXEDGE®

NEXEDGE® 800/900 MHz Digital & Analog Mobile Radio

**NXDN® MPT-1327 FleetSync®**

#### ● GENERAL FEATURES

- 15W (806-870 MHz) Model
- 15W (896-941 MHz) Model
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- Dual Control Head Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

#### ● DIGITAL - GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging<sup>1</sup>
- Remote Stun/Kill<sup>1</sup>
- Remote Check<sup>1</sup>
- Short & Long Data Messages<sup>1</sup>

#### ● DIGITAL - GENERAL Cont.

- GPS Location with Voice<sup>1</sup>
- NXDN® Scrambler Included
- DES Encryption Module Option
- AES & DES Encryption Module Option
- AES/DES Software Key Loader Option

#### ● DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

#### ● DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode<sup>2</sup>
- Message Trunked Mode<sup>2</sup>
- Call Queuing with Priority<sup>2</sup>
- Late Entry (UID & GID)<sup>2</sup>
- 4 Priority Monitor ID's<sup>2</sup>
- Remote Group Add<sup>1</sup>
- Failsoft Mode

#### ● MULTI-SITE IP NETWORKS COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

#### ● MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks<sup>3</sup>
- UID Lists for each network

#### ● SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

#### ● ANALOG MODES - GENERAL

- 25\* & 12.5 kHz Channels
- NPSPAC Channels\*
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

#### ● MPT ZONES\*\*

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

#### ● FleetSync®/II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages<sup>1</sup>

#### ● MDC-1200

- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

\* 800 MHz model only.

\*\* Optional



## Options

**KMC-35**  
Microphone



**VGS-1**  
Voice Guide  
& Storage Unit



**KAP-2**  
Horn Alert  
/ PA Relay Unit



**KCT-46**  
Ignition Sense Cable



**KMC-36**  
Microphone  
with Keypad



**KRK-10**  
Panel Remote Kit



**KCT-23M**  
DC Cable (10 feet)



**KMB-10**  
Key Lock Adapter



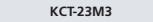
**KMC-9C**  
Control Station  
Desktop Microphone



**KRK-13**  
Dual Control Head  
Remote Kit



**KCT-23M3**  
DC Cable (23 feet)



**KLF-2**  
Line Noise Filter



**KES-5**  
External Speaker



**KPS-15**  
DC Power Supply



## 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.

		NX-900	NX-901
<b>GENERAL</b>			
<b>Frequency Range</b>	<b>Receive</b>	851-870 MHz	935-941 MHz
	<b>Transmit</b>	806-825, 851-870 MHz	896-902, 935-941 MHz
<b>Number of Channels</b>		512	
<b>Zones</b>		128	
<b>Max. Channels per Zone</b>		250	
<b>Channel Spacing</b>	<b>Analog</b>	12.5 / 25 kHz	12.5 kHz
	<b>Digital</b>	6.25 / 12.5 kHz	6.25 / 12.5 kHz
<b>Operating Voltage</b>		13.6 V DC $\pm$ 15%	
<b>Operating Temperature Range</b>		-22° F to +140° F (-30° C to +60° C)	
<b>Frequency Stability</b>		$\pm$ 1.0 ppm	
<b>Antenna Impedance</b>		50 $\Omega$	
<b>Dimensions (W x H x D)</b>	Projections not included	6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
<b>Weight (net)</b>		3.08 lb (1.40 kg)	
<b>FCC ID</b>		K44409300	K44409301
<b>IC Certification</b>		282F-409300	282F-409301

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

FleetSync® is a registered trademark of JVCKENWOOD Corporation.

LTR® is a registered trademark of Transcript International.

AMBE+2™ is a trademark of Digital Voice Systems Inc.

Windows® is a registered trademark of Microsoft Corporation.

NXDN® is a registered trademark of JVCKENWOOD Corporation and Icom Inc.

NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.

		NX-900	NX-901
<b>RECEIVER</b>			
<b>Sensitivity</b>	<b>Digital @ 6.25 kHz (3% BER)</b>	0.20 $\mu$ V	
	<b>Digital @ 12.5 kHz (3% BER)</b>	0.28 $\mu$ V	
	<b>Analog (12 dB SINAD)</b>	0.25 $\mu$ V	
<b>Selectivity</b>	<b>Analog @ 25 kHz</b>	75 dB	-
	<b>Analog @ 12.5 kHz</b>	68 dB	68 dB
<b>Intermodulation</b>	<b>Analog</b>	78 dB ( $\pm$ 50, 100 kHz)	
<b>Spurious Response</b>	<b>Analog</b>	80 dB	
<b>Audio Distortion</b>		Less than 3%	
<b>Audio Output</b>		4 W / 4 $\Omega$	
<b>TRANSMITTER</b>			
<b>RF Power Output</b>		15 W to 5 W	
<b>Spurious Response</b>		70 dB	
<b>FM Hum &amp; Noise</b>	<b>Analog @ 25 kHz</b>	45 dB	-
	<b>Analog @ 12.5 kHz</b>	40 dB	40 dB
<b>Audio Distortion</b>		Less than 3%	
<b>Modulation</b>		16K0F3E*, 14K0F3E*, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Footnotes from front:

<sup>1</sup> Requires compatible PC software application or console.

<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

<sup>3</sup> Up to 8 different Trunked networks can be configured per radio (each in a zone)

\* NX-900 only

## Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself				
	IP54/55: Remote head				

# KENWOOD

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