

NEXEDGE®

NX-700(H)/800(H)

NEXEDGE® VHF/UHF Digital & FM Mobile Radios

NXDN® MPT-1327 FleetSync®

GENERAL FEATURES

- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 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
- IP-54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – COMMON

- 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 Messaging¹
- Remote Stun/Kill¹

DIGITAL – COMMON (Cont)

- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- 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
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE

- Individual Private Call
- Group Call & Broadcast Call
- Transmission Trunked Mode²

MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks³
- UID Lists for each network

SCAN

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

ANALOG MODE - GENERAL

- 25 & 12.5 kHz Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- Voice Inversion Scrambler (16 Codes)

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 Messages¹

MDC-1200

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

* Optional feature



Options

KMC-35

Microphone



KMC-36

Microphone
with Keypad



KMC-9C

Control Station
Desktop Microphone



KES-5

External Speaker



VGS-1

Voice Guide
& Storage Unit



KRK-10

Panel Remote Kit



KRK-13

Dual Control Head
Remote Kit



KPS-15

DC Power Supply



KAP-2

Horn Alert
/ PA Relay Unit



KCT-23M

DC Cable (10 feet)



KCT-23M3

DC Cable (23 feet)



KCT-46

Ignition Sense Cable



KMB-10

Key Lock Adapter



KLF-2

Line Noise Filter



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-700(H) K	NX-800(H) K
GENERAL				
Frequency Range	Type 1		136-174 MHz	450-520 MHz
	Type 2			400-470 MHz
Number of Channels			512	
Zones			128	
Max. Channels per Zone			250	
Channel Spacing	Analog		12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital		6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage			13.6 V DC $\pm$ 15%	
Operating Temperature Range			-22° F to +140° F (-30° C to +60° C)	
Frequency Stability			$\pm$ 1.0 ppm	
Antenna Impedance			50 Ω	
Dimensions (W x H x D)	Projections not included		6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
Weight (net)			3.04 lb (1.38 kg)	
FCC ID	K	Type 1	K44378600	K44378700
	K	Type 2		K44378701
	HK	Type 1	K44378601	K44378702
	HK	Type 2		K44378703
IC Certification	K	Type 1	282F-378600	282F-378700
	K	Type 2		282F-378701
	HK	Type 1	282F-378601	282F-378702
	HK	Type 2		282F-378703

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 trademark of JVCKENWOOD Corporation and Icom Inc.

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		NX-700(H) K	NX-800(H) K
RECEIVER			
Sensitivity	Digital @ 6.25 kHz (3% BER)	0.20 μV	
	Digital @ 12.5 kHz (3% BER)	0.28 μV	
	Analog (12 dB SINAD)	0.25 μV	
Selectivity	Analog @ 25 kHz	80 dB	
	Analog @ 12.5 kHz	70 dB	
Intermodulation	Analog	75 dB (±50,100 kHz)	
Spurious Response	Analog	90 dB	85 dB
Audio Distortion		Less than 3%	
Audio Output		4 W / 4 Ω	
TRANSMITTER			
RF Power Output	Mid Power	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
	High Power	50 W to 10 W	45 W to 10 W 40 W to 10 W (490-512 MHz) 35 W to 10 W (512-520 MHz)
Spurious Response		73 dB	75 dB
FM Hum & Noise	Analog @ 25 kHz	50 dB	
	Analog @ 12.5 kHz	45 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Footnotes from front:

¹ Requires compatible PC software application or console.

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

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

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
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	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
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
International Protection Standard					
Dust & Water Protection	IP54: Radio itself				
	IP54/55: Remote head				

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