KENWOOD

NEXEDGE®

One Radio with Multi-Protocol Support

NX-3400/3420

800-900 MHz DIGITAL TRANSCEIVER

NXDN™ DMR Gen2 FleetSync® GPS Bluetooth®

This versatile handheld radio supports both NXDN and DMR digital protocols as well as mixed digital & FM analog operation, enabling it to serve with distinction in a wide range of enterprise- and operation-critical applications. Compact yet designed with durability in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. Additionally, for expansion capability a software license certification system facilitates extensive customization.

PRODUCT HIGHLIGHTS

- **Multi-protocol digital radio**: Designed to operate under an NXDN or DMR digital, and FM analog protocols
- **Mixed Digital & FM Analog Operation** allows gradual migration at your own pace
- **4-Line** Basic Frame (2 lines of icon & key guide) / 14 Characters
- **5-Line** Text Message Frame (3 Lines of Text, icon & key guide)*
- **7-Color Light Bar Indicator** on the top panel
- **4-way Directional-pad (D-pad)** for intuitive control and operation
- **Built-in GPS Receiver/Antenna** for effective fleet management
- **Built-in Bluetooth** for hands-free operation – Applicable Bluetooth profiles: HSP (Headset Profile provided) and SPP (Serial Port Profile available as an option)
- Renowned **KENWOOD Audio Quality with Active Noise Reduction (ANR)** that utilizes built-in DSP
- Software **DES** and **AES** Encryptions for Digital protocols
- **Built-in Motion Sensor** (Man-down, Stationary and Motion Detection)
- **MIL-STD-810 C/D/E/F/G**

*The number of lines may vary depending on the display language (character set).

GENERAL FEATURES

- Audio Output Power: 1 Watt
- Dual band, 800-900 MHz capability
- Two models with different audio connectors are available:
  - NX-3400: Universal audio connector model with 14 accessory contact points to connect with a variety of options, as well as loud audio output and dual mic ANR capabilities

  - NX-3420: 2-pin audio connector model with 6 contact points to connect with a variety of options, and single mic ANR capability

- Intrinsically Safe Option
- Paging Call
- Emergency Call
- Status/Text Message
- Remote Stun/Kill/Check

DIGITAL - NXDN MODE

- NXDN Type-C & Gen2 Trunked
- NXDN Conventional
- 6.25 & 12.5 kHz Channels
- All Group Call
- Over-the-Air Alias (OAA)
- Over-the-Air Programming (OTAP)

DIGITAL - DMR MODE

- DMR Tier III Trunking
- S-Trunking (Ver. UP)
- DMR Tier II conventional, DMR Auto Slot Select & Site Roaming
- 12.5 kHz Two-slot TDMA channels
- Call Interruption
- Dual-slot Direct Mode
- Enhanced Encryption
- Energy Efficient

ANALOG - FM MODE

- Conventional & LTR Trunking
- FleetSync/II: PTT ID ANI / Caller ID Display, Selective Group Call, Emergency Status / Text Messages
- MDC-1200: PTT ID ANI / Caller ID Display, Selective Call, Emergency, Radio Check / Inhibit
- QT / DQT, DTMF
- Built-in Voice Inversion Scrambler

OPTIONAL ACCESSORIES

- **KNB-55L/57L/78L**
  Li-ion BATTERY PACK
  (7.4 V/1480 mAh,
  7.4 V/2000 mAh,
  7.4 V/2860 mAh)
- **KNB-56N**
  Ni-MH BATTERY PACK
  (7.2 V/1400 mAh)
- **KNB-79LC**
  Li-ion BATTERY PACK
  (7.4 V/2860 mAh,
  Intrinsically Safe)
- **KBP-5**
  BATTERY CASE (6 AA)

KNB-57L

- **KSC-25LS/25S**
  RAPID CHARGER
  (Li-ion Only/Tri-Chem)

KSC-25S

- **KSC-256/256A**
  MULTIPLE CHARGER
  (6-pocket)

KSC-256

- **KRA-38**
  800/900 MHz
  Whip Antenna

- **KBH-11**
  BELT CLIP (2.5 in)

- **KPG-180AP**
  OTAP MANAGER (PC software)

For NX-3420 2-pin audio connector model

- **KMC-45D**
  SPEAKER
  MICROPHONE
  (IP54/55)

For NX-3400 Universal audio connector model

- **KMC-41D**
  SPEAKER MICROPHONE [IP54/55]
- **KMC-54WD**
  SPEAKER
  MICROPHONE
  (with dual-sided
  2-mic for superior
  ANR, IP67)

KMC-54WD
KMC-41D

- **KMC-70**
  SPEAKER MICROPHONE (with IP68, 3-button and Digital NR; Green Housing [GR] version is also available)
- **KMC-72**
  SPEAKER MICROPHONE (with IP67, and 2-button)

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.

SPECIFICATIONS

GENERAL		NX-3400/3420	
Frequency Range		TX/RX: 851-870, 935-941 MHz TX: 806-825, 896-902 MHz	
Max. Channels per Radio		Up to 1000 channels with option	
Number of Channels		NX-3400: 512 / NX-3420: 260	
Number of Zones		128	
Channel Spacing	Analog	12.5/25*1 kHz	
	Digital	6.25/12.5 kHz	
Power Supply		7.5 V DC ±20 %	
Battery Life*2 (Average battery life at 5-5-90)		FDMA Conv. / Trunk.	TDMA Conv. / Trunk.
	KNB-55L (1480 mAh)	9 / 7 h	12 / 9 h
	KNB-56N (1400 mAh)	8 / 6 h	10.5 / 8 h
	KNB-57L (2000 mAh)	13 / 10 h	17 / 13 h
	KNB-78L (2860 mAh)	18.5 / 14 h	24 / 18.5 h
	KNB-79LC (2860 mAh)*3	15.5 / 12 h	20.5 / 16 h
Operating Temperature		-30°C to +60°C	
Frequency Stability (-30°C to +60°C; +25°C Ref.)		± 0.5 ppm	
Dimensions (W x H x D) Projections not included	Radio only	56 x 119.6 x 36.4 mm	
	with KNB-55L	56 x 119.6 x 36.4 mm	
	with KNB-56N	56 x 119.6 x 42.7 mm	
	with KNB-57L	56 x 119.6 x 39.0 mm	
	with KNB-78L/79LC	56 x 119.6 x 44.9 mm	
Weight (net)	Radio only	220 g	
	with KNB-55L	315 g	
	with KNB-56N	410 g	
	with KNB-57L	340 g	
	with KNB-78L	385 g	
	with KNB-79LC	395 g	

RECEIVER		NX-3400/3420
Sensitivity	NXDN 6.25 kHz Digital, 3 % BER	0.20 µV
	NXDN 12.5 kHz Digital, 3 % BER	0.25 µV
	DMR 12.5 kHz Digital, 5 % BER	0.25 µV
	DMR 12.5 kHz Digital, 1 % BER	0.45 µV
	Analog, 12 dB SINAD	0.25 µV
Selectivity	Analog @ 12.5 kHz	60 dB
	Analog @ 25 kHz	70 dB
Intermodulation		70 dB
Spurious Rejection		70 dB
Audio Distortion		3 %
Audio Output (Internal Speaker)	3 % Distortion	500 mW
	5 % Distortion	1000 mW
TRANSMITTER		**NX-3400/3420**
RF Power Output		3 W / 1 W
Spurious Emission		-70 dB
FM Hum & Noise	Analog @ 25 kHz	45 dB
	Analog @ 12.5 kHz	40 dB
Audio Distortion		3 %
Digital Protocol		ETSI TS 102 361-1, -2, -3, -4
Emission Designator		16K0F3E*1, 14K0F3E*4, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXD, 7K60FXE, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

*1 25 kHz is not included in 900 MHz band.
*2 Battery life is measured by battery save ON, GPS/Bluetooth OFF.
*3 Typical value under the condition charged with KSC-25S/25LS.
*4 800 MHz band only
Specifications are measured according to applicable standards.
Specifications shown are typical and subject to change without notice, due to advancements in technology.

APPLICABLE MIL-STD & IP

MIL Standards	Methods / Procedures				
	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV
International Protection Standards					
Dust & Water*5	IP54, IP55, IP67				

*5 Audio accessory connector must be covered.

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