KENWOOD

NX-1000 series
Radios – For each and every

NX-1200N/1300N
VHF/UHF TRANSCEIVERS
**[Suffix on the model no. stands for CAI:
N=NXDN and D=DMR Versions]**

NXDN™

FleetSync® by KENWOOD

ONE-"K"-FITS-ALL: A SINGULAR SOLUTION

If you are thinking of harnessing the latest digital protocols – NXDN or DMR – to enhance business efficiency, the NX-1200/1300 has you covered. Our One-"K"-Fits-All solution offers the widest selection of two-way radios for everyday use. The model matrix also includes basic and keypad variations, with or without a high-contrast backlit LCD. Other features include a 7-color LED indicator and the popular KENWOOD 2-pin audio accessory connector. Plus, mixed-mode operation ensures seamless integration with legacy radios while smoothing the onward migration path to digital. But whatever your specific needs, audio quality is what determines clear voice communications – which is why KENWOOD radios are used under the most grueling conditions, like the cockpit of a racing car. Thanks to our extensive experience with professional systems, reliability is second to none. So whatever your radio requirements, KENWOOD's NX-1200/1300 offers a single platform that's right for you.

Basic model
Type M

Full Keypad model
Type M3

GENERAL FEATURES

- **Wide variations, "One" platform:** To meet various demands — NXDN or DMR digital CAI models are available
- **Choose from direct & intuitive LCD with full keypad or basic enclosures**
- **Easy visible Display: 8-digit LCD** models featuring high-contrast, white backlit LCD
- **Large 7-Color LED indicator on the top panel**
  - Selective Power-on LED
  - Selective Cal Alert LED
  - Battery Level Indication
  - Multi-status function indication
- **RF output power 5W both on VHF/UHF**
- **Wide band UHF 70MHz coverage**
- **Renowned KENWOOD Audio Quality:**
- TX/RX audio profile with optimizable digital processor
  - Audio Equalizer: Flat, High, Low
  - Auto Gain Control: On, High, Low, Off
  - Noise Suppressor
  - Microphone type setting
- **Multiple Scan Functions;** Dual Priority, Single Priority, Single Zone, Multi, Normal Scan
- **VOX & PTT –triggered Semi- VOX, Voice-operated TX**
- **Emergency Function:** Customizable Emergency Profile
- **Lone Worker**
- **Max / Min Volume setting & Volume control**
- **Voice Announcement**
- **Remote Stun / Kill / Check**
- **Front Panel Programming Mode** (for Keypad model)
- **Electronic Serial Number (ESN)**
- **MIL-STD-810 C/D/E/F/G**
- **IP54 / 55 and IP67**
- **Intrinsically safe option (Available later)**

DIGITAL – NXDN

- FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths
- NXDN Conventional Operation
- Site Roaming
- Digital / Analog Mixed mode
- Group / Individual Call
- Status / Short data, Paging Call
- Remote Stun / Kill, Monitor, Check & Control
- Digital Bit Scrambler
- Late Entry
- Over-the-Air Alias (OAA)

DIGITAL – DMR

- TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth
- DMR Tier II Conventional Operation
- Site Roaming
- DMR Auto Slot Select
- Dual Slot Direct Mode
- Digital / Analog Mixed mode
- Call Interruption
- Group / Individual Call
- Status / Short data, Paging Call
- Remote Stun / Kill, Monitor, Check & Control
- Enhanced Encryption (ARC4)
- Digital Bit Scrambler
- Late Entry
- Over-the-Air Alias (OAA)

ANALOG – FM

- FM Conventional Operation
- FleetSync: PTT ID, Stun/Revive, Talk back, Selcall
- MDC1200: PTT ID, Radio Inhibit / Uninhibit, Radio check, Emergency
- QT / DQT, DTMF, 2-tone, 5-tone
- Built-in Programmable Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)
- Voting

OPTIONAL ACCESSORIES

- **KNB-69L**
  Li-ion BATTERY PACK (7.4 V/2450 mAh)
- **KNB-82LC**
  Li-ion BATTERY PACK (7.4 V/1900 mAh, Intrinsically Safe) [IP67]* *Available later
- **KNB-84L**
  Li-ion BATTERY PACK (7.4 V/1900 mAh) [IP67]
- **KSC-43**
  RAPID CHARGER (for Li-ion KNB-45L/69L/82LC/84L & Ni-MH KNB-53N)
- **KSC-356A**
  MULTIPLE CHARGER (6-pocket for Li-ion KNB-45L/69L/82LC)
- **KBH-10**
  BELT CLIP


KNB-69L


KSC-43


KSC-356A

- **KVC-22**
  DC VEHICULAR CHARGER ADAPTER (for KSC-35S)


KVC-22

- **EMC-11/12**
  CLIP MICROPHONE WITH EARPHONE (STD, EAR-HANGING)


EMC-12

- **KHS-35F**
  HEADSET (EAR-HOOK)

- **KMC-45D**
  SPEAKER MICROPHONE

- **KRA-22/23**
  VHF/UHF HELICAL ANTENNA


KRA-22 KRA-23

- **KRA-26**
  VHF HELICAL ANTENNA (Standard Length)

- **KRA-27**
  UHF WHIP ANTENNA (Standard Length)

- **KRA-41/42** VHF/UHF STUBBY ANTENNA


KRA-41 KRA-42

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-1200	NX-1300
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 400-470 MHz
Max. Channels per Radio		260 (64 for Basic models)	
Number of Zones		128 (4 for Basic models)	
Max. Channels per Zone		250 (16 for Basic models)	
Channel Spacing	Analog	30 / 25 / 15 / 12.5 kHz	
	Digital	12.5 / 6.25 kHz	
Power Supply		7.5 VDC ±20 %	
Battery Life (5-5-90) for Std keypad model		TDMA	FDMA
	KNB-45L/84L	14.5 H	11 H
	KNB-53N	10 H	7 H
	KNB-69L	19 H	14 H
Operating Temperature (Radio only)*1		-30°C to +60°C	
Frequency Stability (-30 to +60°C; +25°C Ref.)		±0.5 ppm	
Dimensions (W x H x D) / Weight (net) Projections not included; for Std keypad model	Radio only	54 x 123 x 33.5 mm / 175 g	
	With KNB-45L/84L	54 x 123 x 33.5 mm / 295 g	
	With KNB-53N	54 x 123 x 33.5 mm / 365 g	
	With KNB-69L	54 x 123 x 37.5 mm / 310 g	

*1 Operating temperature specification for a Li-ion battery is -10°C to +60°C.
All specifications shown are typical.
Analog measurements made per TIA-603 and specifications shown are typical.
NXDN CAI & EN300-113, EN301 166 and specifications shown are typical.
Details and timing of firmware and software updates are subject to change without notice.
Specifications are subject change without notice, due to advancements in technology.

RECEIVER		NX-1200	NX-1300
Sensitivity	NXDN@6.25 kHz 3 % BER	0.19 µV	
	NXDN@12.5 kHz 3 % BER	0.24 µV	
	DMR@12.5 kHz 1 % BER	0.28 µV	
	DMR@12.5 kHz 5 % BER	0.20 µV	
	Analog@12.5 / 25 kHz (12 dB SINAD)	0.22 / 0.26 µV	
Selectivity	Analog@12.5 / 25 kHz	67 / 74 dB	
Intermodulation		65 dB	
Spurious Rejection		70 dB	
Audio Distortion		7 %	
Audio Output (Internal)		1 W	
TRANSMITTER		**NX-1200**	**NX-1300**
RF Power Output		5 / 4 / 1 W	
Spurious Emission		-70 dB	
FM Hum & Noise	Analog@12.5 / 25 kHz	40 / 45 dB	
Audio Distortion		2 %	
DMR Digital Protocol		ETSI TS 102 361-1, -2, -3	
Emission Designator		16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXE, 7K60FXD	

MIL-STD & IP*2

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	IP54/55 or IP67*3				

*2 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories. *3 Water & Dust tighten IP67 models equipped with designated genuine batteries are [M] and [M3 types only.

JVCKENWOOD Singapore Pte. Ltd.
1 Ang Mo Kio Street 63 Singapore 569110
https://www.kenwood.com/sg/com

KENWOOD Communications Global Website
comms.kenwood.com

JQA-1205
ISO9001 Registered
Communications Systems Business Unit
JVCKENWOOD Corporation