

NX-205G/305G

NEXEDGE® VHF/UHF Digital & Analog Portable Radios

NEXEDGE is KENWOOD's innovative digital conventional and trunked radio solution, designed to meet the highest demands of today's communications environment and to provide users with a multitude of NEXEDGE-abilities to transform their operations. This versatile compact radio supports both NXDN digital and analog modes via a common transceiver technology, which creating a self-paced migration path to accommodate budgetary, administrative, organization and timeline requirements.

NXDN®  **FleetSync®** **MPT-1327** **GPS**



Features

5 W (136-174 MHz) Models	2 Side PF Keys
5 W (400-470, 450-520 MHz) Models	500 mW Speaker Audio
512 CH-GID / 128 Zones	Emergency Call Features
12-Key Keypad Models	Built-In GPS Unit
14 Character Alphanumeric Aliases	KPG-111D Windows® FPU
Backlit Dot Matrix LCD	Flash Firmware Upgrading
Function/Status LCD Icons	MIL-STD-810 C/D/E/F/G
Multi-Language Display	IP54/55 Water & Dust Intrusion
Date & 12/24 Hour Time Clock	Immersion (IP67) Option
Transmit/Busy/Call Alert/Warn LED	PC Serial Interface
On/Off Volume Knob	SDM Manual Input ¹
16-Position Mechanical Selector	Transparent Data Mode ¹
6 Front PF & Menu Keys	Color Housing Option

Digital – General

NXDN® Digital Air Interface	Status Messaging ¹
AMBE+2™ VOCODER	Remote Stun/Kill ¹
6.25 & 12.5 kHz Channels	Remote Check ¹
Over-the-Air Alias	Short & Long Data Messages ¹
Over-the-Air Programming	GPS Location with Voice ¹
Paging Call	NXDN® Scrambler Included
Emergency Call	AES & DES Encryption Module Option
All Group Call	AES/DES Software Key Loader Option

Digital – Conventional Mode

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

Digital – Trunking Mode

Individual Private Call	Late Entry (UID & GID) ²
Group Call & Broadcast Call	4 Priority Monitor ID's ²
Telephone Interconnect	Remote Group Add ¹
Transmission Trunked Mode ²	Failsoft Mode
Message Trunked Mode ²	Gen2 Upgrade Option
Call Queuing with Priority ²	

Multi-Site IP Networks Compatible

60,000 GIDs / UIDs	Group Registration
Wide Area Group Call	Gen2 Advanced GPS Reporting
Auto Roaming Registration	Gen2 Direct Frequency Assignment

Multi-System Compatible

8 Trunked Networks ³	Multi-System Roaming
UID Lists for each network	

Scan

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

12.5 & 25 kHz Channels	Voice Inversion Scrambler
Conventional & LTR® or MPT Zones	QT / DQT & Two-Tone
FleetSync®/II, MDC-1200, DTMF	Analog Scrambler Board Capability

MPT Zones

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

FleetSync®/II (FM)

PTT ID ANI / Caller ID	Emergency Status / Text Messages ¹
Selective / Group Call	

MDC-1200

PTT ID ANI / Caller ID	Emergency / Radio Check & Inhibit
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Accessories

All accessories may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories.

KNB-47LAM
Li-ion Battery Pack
(1950mAh)



KSC-326AK
Rapid Charger
(6-unit Rapid Rate)



KRA-26
VHF Helical Antenna
(Standard Length)



KRA-43G
VHF GPS
Helical Antenna



KMC-72W
Speaker Microphone
(IP54/55/67)



KNB-48LAM
Li-ion Battery Pack
(2550mAh)



KRA-22
VHF Helical Antenna
(Low Profile)



KRA-27
UHF Whip Antenna
(Standard Length)



KRA-44G
UHF GPS
Helical Antenna



KBH-11
Belt Clip (2.5")



KSC-32
Rapid Charger



KRA-23
UHF Helical Antenna
(Low Profile)



KRA-28
VHF Broad Band
Antenna



KHS-11BL
Heavy-Duty
Earphone



KPG-150AP
OTAP Manager

KRA-25
VHF High-Gain
Antenna



KRA-29
UHF Broad Band
Antenna



KEP-1
Heavy-Duty
Earphone



Specifications

General	NX-205G	NX-305G
Frequency Range	136-174 MHz	Type 1: 450-520 MHz Type 2: 400-470 MHz
Channels Per Radio	512	
Number of Zones	128	
Max. Channels per Zone	250	
Channel Spacing	Analog: 12.5/15/25/30 kHz Digital: 6.25 kHz/12.5 kHz	12.5/25 kHz 6.25 kHz/12.5 kHz
Power Supply	75V DC ± 20%	
Battery Life	KNB-48LAM: 5-5-90 10-10-80	Approx. 14.5 hours Approx. 9.0 hours
Operating Temperature	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability	±2.0 ppm	±10 ppm
Antenna Impedance	50 Ω	
Dimensions/Weight	(W x H x D) Projections Not Included	
Radio Only	2.28 x 5.02 x 1.63 in. (58.0 x 127.5 x 41.3 mm)	9.17 oz (260g)
KNB-47LAM	2.28 x 5.02 x 1.63 in. (58.0 x 127.5 x 41.3 mm)	13.23 oz (375g)
KNB-48LAM	2.28 x 5.02 x 1.91 in. (58.0 x 127.5 x 48.5 mm)	14.29 oz (405g)
FCC ID	Type 1: ALH378400 Type 2:	ALH378500 ALH378501

Analog measurements made per TIA603. Specifications are measured according to applicable standards. Specifications are subject to change without notice, due to advancements in technology.

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)

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LTR® is a registered trademark of Transcrypt International.
AMBE+2™ is a trademark of Digital Voice Systems Inc.
Windows® is a registered trademark of Microsoft Corporation.
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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	5001/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/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
Immersion (Optional)				512.4/Procedure I	512.5/Procedure I

International Protection Standard

Dust & Water Protection IP54/55, IP67 (Optional)

Receiver	NX-205G	NX-305G
Sensitivity	NXDN® 6.25 kHz Digital (3% BER): 0.20 µV NXDN® 12.5 kHz Digital (3% BER): 0.25 µV Analog (12dB SINAD): 0.25 µV	
Selectivity	Analog @ 12.5kHz: 65 dB Analog @ 25kHz: 72 dB	
Intermodulation	70 dB	
Spurious Rejection	70 dB	
Audio Distortion	Less than 3%	
Audio Output Power	500 mW/8Ω (3% Distortion)	

Transmitter	NX-205G	NX-305G
RF Power Output	5 W to 1 W	
Spurious Emission	70 dB	
FM Hum & Noise	Analog @ 12.5kHz: 40 dB Analog @ 25kHz: 45 dB	
Audio Distortion	Less than 3%	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

GPS*	NX-205G	NX-305G
Time to First Fix	Cold Start: <60 Seconds Hot Start: <10 Seconds	
Horizontal Accuracy	<10 Meters	
Channels	50 Channels	
Tracking Sensitivity	-162 dBm	

*Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

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