

NEXEDGE®

NX-240/340

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN® FleetSync®

Your business will have to adopt digital radios sooner or later, you know that, but you probably wonder when to make the extra investment. A leap into the unknown? Not with the new NEXEDGE® NX-240/340. It operates in both analog FM and NXDN® digital modes, offering a cost-effective way to migrate smoothly from legacy systems while discovering the benefits of advanced digital technology – including increased effective coverage area, low noise for superior clarity, and inherent secured voice. All this comes in a tough, compact radio that is easy to operate, delivers high-powered audio, and ensures round-the-clock reliability. Don't delay the opportunity to expand the potential of your business.



● NXDN® DIGITAL AIR INTERFACE

NEXEDGE® radios employ NXDN®, an FDMA digital air interface with AMBE+2™ voice coding technology, unique filtering and a 4-level FSK modulation technique with low bit error rate (BER) even at weak RF signal strengths.

● ENHANCED AUDIO QUALITY

AMBE+2™ VOCODER technology accurately replicates natural human speech nuances for superior voice quality, even at highway speeds. Additionally, the powerful 36mm-diameter speaker delivers up to 1 watt audio output, providing undeniably clearer and crisper audio.

● ULTIMATE PERFORMANCE

RF output power is 5W for both VHF (NX-240) and UHF (NX-340). Additionally, the UHF frequency coverage on the NX-340 is 70MHz.

● ERGONOMIC DESIGN

The slim contours and ergonomic design of the NX-240/340 make it comfortable to hold, while the dimples on both sides ensure a firm grip.

● 32 CHANNELS / 2 ZONES

The NX-240/340 can be used with two conventional zones, offering up to 16 channels per zone.

● SWITCHABLE DIGITAL AND ANALOG DUAL MODES

The NX-240/340 is effectively two radios in one – analog and digital – operating on 12.5kHz in analog zones, and on 6.25kHz NXDN® in digital zones. For convenience, a PF key can be used to switch between zones.

● 6.25kHz NXDN® DIGITAL CHANNEL

Digital communications are more spectrum-efficient and offer wider area coverage than analog.

● NXDN® CONVENTIONAL

Compatible with NEXEDGE® Digital Conventional Mode, this radio offers 64 RAN (Radio Access Numbers) and individual & conference group calling to ensure expeditious communications.

● HIGH SECURITY

Confidentiality in radio communications is a KENWOOD priority, and helping to maintain a high level of security in analog mode is a 16-code voice inversion scrambler, while robust NXDN® encryption is available in digital mode.

● GPS CONNECTIVITY

The optional KMC-48GPS Speaker Microphone will enable GPS tracking applications to work with the NX-240/340. GPS data can be transmitted at programmed timing, or upon receiving a request.

● OTHER FEATURES

DIGITAL: • Over-The-Air Alias (TX only) • Paging Call
• Individual Call & Conference Group Call • Status Messaging
• Remote Monitor • Site Roaming • Late Entry • NXDN® ESN
ANALOG: • FleetSync®, MDC-1200, DTMF • QT/DQT/2-tone
• Compander • Squelch Level
GENERAL: • Multiple Scan • 4-Color LED (Blue / Red / Green / Orange) • 2 PF Keys • 16-Position Mechanical Selector
• Zone / Channel Number Voice Announcement • VOX Ready
• Emergency Call • Remote Stun/Kill • Lone Worker Alert (per channel) • Time Out Timer • Busy Channel Lockout
• Low Battery Warning • Battery Saver • KPG-169D Windows®
FPU • Wireless Cloning • Password Protection • PTT Release Tone • Minimum Volume • Mic Sense • MIL-STD-810 C/D/E/F/G • IP54/55
Water & Dust Intrusion

Options

| | | | |
|--|--|--|--|
| <ul style="list-style-type: none"> ■ KNB-29N 1,500mAh/7.2V Ni-MH Battery Pack  | <ul style="list-style-type: none"> ■ KSC-43 Rapid Charger (for KNB-29N/ 45L/53N/69L)  | <ul style="list-style-type: none"> ■ KRA-26 VHF Helical Antenna  | <ul style="list-style-type: none"> ■ KMC-48GPS GPS Speaker Microphone  |
| <ul style="list-style-type: none"> ■ KNB-45L 2,000mAh/7.4V Li-Ion Battery Pack  | <ul style="list-style-type: none"> ■ KSC-356 6 Packet Multiple Charger (for KNB-45L/69L)  | <ul style="list-style-type: none"> ■ KRA-27 UHF Whip Antenna  | <ul style="list-style-type: none"> ■ KMC-21 Compact Speaker Microphone  |
| <ul style="list-style-type: none"> ■ KNB-53N 1,400mAh/7.2V Ni-MH Battery Pack  | <ul style="list-style-type: none"> ■ KRA-22 VHF Helical Antenna (Low Profile)  | <ul style="list-style-type: none"> ■ KRA-41 VHF Stubby Antenna  | <ul style="list-style-type: none"> ■ KMC-45 Speaker Microphone  |
| <ul style="list-style-type: none"> ■ KNB-69L 2,450mAh/7.4V Li-Ion Battery Pack  | <ul style="list-style-type: none"> ■ KRA-23 UHF Helical Antenna (Low Profile)  | <ul style="list-style-type: none"> ■ KRA-42 UHF Stubby Antenna  | <ul style="list-style-type: none"> ■ KBH-10 Belt Clip  |
| <ul style="list-style-type: none"> ■ KSC-35S Rapid Charger (for KNB-45L/69L)  | <p>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</p> | | |

Main Specifications

| | | NX-240 | NX-340 |
|-----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|
| GENERAL | | | |
| Frequency Range | | 136-174 MHz | 400-470 MHz [M2] / 450-520 MHz |
| Number of Channels | | 32 | |
| Zones | | 2 | |
| Max. Channels per Zone | | 16 | |
| Channel Spacing | Analog | 12.5 kHz | |
| | Digital | 6.25 kHz | |
| Operating Voltage | | 7.5V DC $\pm 20\%$ | |
| Battery Life | | 5-5-90 during hi-power battery saver: | |
| | OFF/ON with KNB-45L | Approx. 10/12 hours | |
| | OFF/ON with KNB-69L | Approx. 14/17 hours | |
| | OFF/ON with KNB-53N | Approx. 8/9 hours | |
| | OFF/ON with KNB-29N | Approx. 8/9 hours | |
| Operating Temperature Range | | -30°C ~ +60°C (-22°F ~ +140°F*) | |
| Frequency Stability | | $\pm 2.0\text{ppm}$ | $\pm 1.0\text{ppm}$ |
| Antenna Impedance | | 50 Ω | |
| Dimensions (W x H x D) | with KNB-45L, KNB-53N, or KNB-29N | 54 x 122 x 35.3 mm | |
| | with KNB-69L | 54 x 122 x 39.4 mm | |
| Weight (net) | Radio only | 165 g | |
| | with KNB-45L | 281 g | |
| | with KNB-69L | 296 g | |
| | with KNB-53N | 351 g | |
| | with KNB-29N | 361 g | |

| | | NX-240 | NX-340 |
|----------------------------|----------------------|--|--------|
| RECEIVER | | | |
| Sensitivity | Digital | 0.25 μV | |
| | Analog (12 dB SINAD) | 0.25 μV | |
| Selectivity | Analog | 60 dB | |
| Intermodulation Distortion | Analog | 60 dB | |
| Spurious Response | Analog | 70 dB | |
| Audio Distortion | | Less than 10% | |
| Audio Output | | 1 W / 12 Ω (Internal Speaker) 500mW / 8 Ω (External Output) | |
| TRANSMITTER | | | |
| RF Power Output | High / Low | 5 W / 1 W | |
| Spurious Response | | 70 dB | |
| FM Hum & Noise | Analog | 40 dB | |
| Audio Distortion | | Less than 10% | |
| Modulation | | 11K0F3E, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | |

Specifications are subject to change without notice, due to advancements in technology. Measurements made per TIA/EIA-603 and Specification are typical.

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Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

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

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

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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 | IP54/55* | | | | |

*To meet MIL-810 and IP grade, the 2-pin connector has to be connected.

DISTRIBUTED BY:

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