KENWOOD

NEXEDGE®

One Radio with Multi-Protocol Support

NX-3720HG/3820HG
NX-3920G/3921G

NXDN® DMR Gen2 Bluetooth® GPS FleetSync® DMR T3&S DMR Auto Slot Select

MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

This adaptable mobile 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. Designed with flexibility in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. This model offers greater freedom of installation, the radio's front panel can be used as a remote control head (option). Additionally, for expansion capability a software license certification system facilitates extensive customization.

Features

Multi-protocol digital radio: Designed to operate under NXDN® or DMR digital, and FM analog protocols
NXDN Conventional and Type-C & Gen2 Trunking
DMR Tier 2 Conventional & Site Roaming
DMR Auto Slot Select
DMR Tier 3 Trunking
Mixed Digital & FM Analog Operation allows gradual migration at your own pace
4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 Characters
4-Line Text Message Frame (2 Lines of Text, icon & key guide)
7-color LED Bar Indicator
Remote Control Head (Option)
Optional DES and AES Encryption
External and Internal Speaker Switching
Built-in Bluetooth® for hands-free operation for IoT applications - Applicable Bluetooth profiles: HSP (Headset Profile) and SPP (Serial Port Profile)
Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP
Built-In GPS Receiver for effective fleet and incident management
IP54 and MIL-STD-810 C/D/E/F/G
4 Watts Audio Output Power
512 CH/128 Zones
1,000 Channel option
Paging Call
Emergency Call
Status/Text Message
Remote Stun/Kill/Check

Digital – NXDN® Mode

NXDN Conventional
NXDN Type-C & Gen2 Trunking
6.25 & 12.5 kHz Channels
Advanced GPS
Remote Monitor
All Group Call
Over-the-Air Alias (OAA)
Over-the-Air Programming (OTAP)

Digital – DMR Mode

Two-slot TDMA in 12.5kHz channels
DMR Tier 2 Conventional / Site Roaming
DMR Auto Slot Select
DMR Tier 3 Trunking
Call Interruption
Dual-slot Direct Mode
Optional ARC4 Encryption
Over-the-Air Programming (OTAP)

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, Emergency, Radio Check /Inhibit
QT / DQT, DTMF, 2-Tone
Built-in Voice Inversion Scrambler

Multi-Protocol

Unsurpassed interoperability for Enterprise radio users with the freedom to migrate at your own pace.

Gen2

Scalable server-based system architecture for management of NEXEDGE wide area digital communications systems.

Klarity

The ultimate level of sound clarity technology combining Optimization, advanced Sound Analysis and Active Noise Reduction.

Accessories

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

KMC-9C/59C
Desktop Microphone

KCT-23
DC Power Cable
M: 10ft (3m) / M3: 23ft (7m)

KLF-2
Line Filter

KMB-34
Mounting Case
for KPS-15

KMC-65M
Microphone

KCT-60
Connection Cable
(D-sub 15 to Molex
15 Pin Connector)

KMB-10
Key Lock Adapter

KPG-180AP
OTAP Manager

KMC-66M
Keypad Microphone

KCT-71
Remote Control Cablr
(M2: 17ft M3: 25ft M4: 1.6ft)

KRA-40G
GPS Active Antenna

KRK-18H
Interface Kit for a
Control Head

KCT-18
Ignition Sense Cable
(Requires KCT-60)

KCT-72
External Accessory
Connection Cable
for KRK-18H

KPS-15
DC Power Supply
(23A max)

KRK-19B
Interface Kit for
an RF Deck

Specifications

General	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
Frequency Range	138-174 MHz	400-470 MHz	TX/RX: 851-870 MHz TX:806-825 MHz	TX/RX: 935-941 MHz TX: 896-902 MHz
Max. Channels Per Radio	Up to 1000 CH with option			
Number of Channels	512			
Number of Zones	128			
Channel Spacing				
Analog	12.5/15/25/30 kHz	12.5/25 kHz	12.5/25 kHz	12.5 kHz
Digital	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz
Power Supply	13.6 V DC ±15%			
Current Drain				
Standby	0.45 A			
RX	2.3 A			
TX	12 A			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	± 0.5 ppm			
Dimensions	(W x H x D) Projections Not Included			
Radio with Control Head	6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)			
Weight Radio				
Radio with Control Head	2.65 lbs (1.2 kg)			
IC Certification				
Type 1	282F-479200			282F-502601
Type 2		282F-479301	282F-502600	

* NX-3920G only
Analog measurements made per TIA603. Specifications are measured according to applicable standards.
Specifications shown are typical and subject to change without notice, due to advancements in technology.

Receiver	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
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)		0.30 µV		
DMR 12.5 KHz Digital (1% BER)		0.45 µV		
Analog (12dB SINAD)		0.25 µV		
Selectivity				
Analog @ 12.5kHz	70 dB		60 dB	
Analog @ 25kHz	80 dB		70 dB	
Intermodulation	70 dB			
Spurious Rejection	80 dB			
Audio Distortion	2%			
Audio Output Power	4 W/4 Ω			

Transmitter	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
RF Power Output (High / Mid / Low)	50 W / 30 W / 5 W	45 W /30 W / 5 W	15 W / 5 W	
Spurious Emission	73 dB	75 dB	-70 dB	
FM Hum & Noise				
Analog @ 12.5kHz		40 dB		
Analog @ 25kHz		45 dB		
Audio Distortion	2%			
Digital Protocol	ETSI TS 102 361-1, -2, -3, -4			
Emission Designator	16K0F3E, 14K0F3E*, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXD, 7K60FXE, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D			

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, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V
International Protection Standard					
Dust & Water Protection*1	IP54, IP55*2				

*1 Applicable microphone must be connected to the radio, and all accessory connectors must be covered. *2 IP54: RF Deck; IP55: Remote Control Head.

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