

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

NXDN® **DMR**



GPS **FleetSync®**

DMR T3A/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 (this requires an optional upgrade, to be available in the future). 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

1000 Channel option

Paging Call

Emergency Call

Status/Text Message

Remote Stun/Kill/Check

Digital – NXDN® Mode

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

Digital – DMR Mode

Two-slot TDMA in 12.5kHz channels	Call Interruption
DMR Tier 2 Conventional / Site Roaming	Dual-slot Direct Mode
DMR Auto Slot Select	Optional ARC4 Encryption
S-Trunking (Ver. UP) DMR Tier 3 Trunking	

Analog – FM Mode

Conventional & LTR Trunking	MDC-1200: PTT ID ANI / Caller ID
FleetSync/II: PTT ID ANI / Caller ID Display,	Display, Emergency, Radio Check /Inhibit
Selective Group Call, Emergency Status	QT / DQT, DTMF, 2-Tone
Text Messages	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



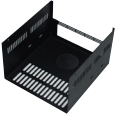
KCT-23
DC Power Cable
M: 10ft (3m) / M3: 23ft (7m)



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: 16ft)



KRA-40G
GPS Active Antenna



KRK-18HM
Interface Kit for a
Control Head



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



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



KPS-15
DC Power Supply
(23A max)



KRK-19BM
Interface Kit for
an RF Deck



Specifications

General	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 400-470 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 (12 kg)			
FCC ID				
Type 1	K44479200	K44479300	K44502600	K44502601
Type 2		K44479301		
IC Certification				
Type 1	282F-479200			282F-502601
Type 2		282F-479301	282F-502600	

*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories.
** 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			
Analog @ 25kHz	80 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			

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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	5002/Procedure I, II	5003/Procedure I, II	5004/Procedure I, II	5005/Procedure I, II
High Temperature	5011/Procedure I, II	5012/Procedure I, II	5013/Procedure I, II	5014/Procedure I, II	5015/Procedure I, II
Low Temperature	5021/Procedure I	5022/Procedure I, II	5023/Procedure I, II	5024/Procedure I, II	5025/Procedure I, II
Temperature Shock	5031/Procedure I	5032/Procedure I	5033/Procedure I	5034/Procedure I, II	5035/Procedure I
Solar Radiation	5051/Procedure I	5052/Procedure I	5053/Procedure I	5054/Procedure I	5055/Procedure I
Rain	5061/Procedure I, II	5062/Procedure I, II	5063/Procedure I, II	5064/Procedure I, III	5065/Procedure I, III
Humidity	5071/Procedure I, II	5072/Procedure II, III	5073/Procedure II, III	5074	5075/Procedure II
Salt Fog	5091/Procedure I	5092/Procedure I	5093/Procedure I	5094	5095
Dust	5101/Procedure I	5102/Procedure I	5103/Procedure I	5104/Procedure I, III	5105/Procedure I
Vibration	5142/Procedure VIII, X	5143/Procedure I	5144/Procedure I	5145/Procedure I	5146/Procedure I
Shock	5162/Procedure I, II, V	5163/Procedure I, IV, V	5164/Procedure I, IV, V	5165/Procedure I, IV, V	5166/Procedure I, IV, V
International Protection Standard					
Dust & Water Protection*	IP54, IP55**	** Applicable microphone must be connected to the radio, and all accessory connectors must be covered. * IP54: RF Deck; IP55: Remote Control Head.			

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