KENWOOD

NEXEDGE®

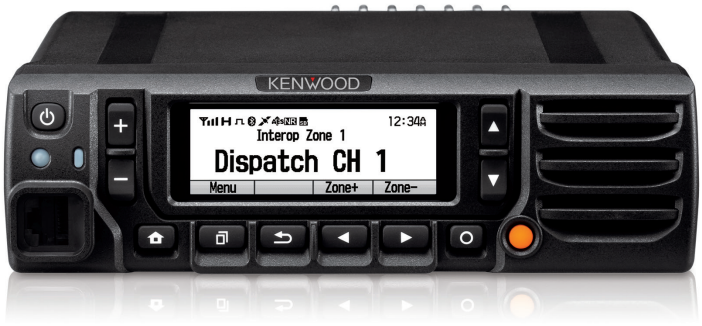
One Radio with Multi-Protocol Support

NX-5700S/5800S

VHF/UHF MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

NXDN® DMR Gen2 Bluetooth® FleetSync® microSD HC GPS

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. The NX-5700S/5800S gives you the freedom to migrate at your own pace — whether you are intent on going fully digital, undecided about which digital system to pick, or just wanting to maintain both digital and analog. 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
Mixed Digital & FM Analog Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
Large, 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status
Easy to follow GUI and Multi-line Text to convey information
Built-In GPS Receiver for effective fleet and incident management
Bluetooth® Module Built-in for hands-free and IoT applications operation
Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP with two microphones for suppression of ambient noise
Built-in 56-bit DES Encryption
Optional 256-bit AES Encryption
microSD/microSDHC Up to 2GB/32GB Memory Card Slot for increased memory capacity for "Voice & Data"
50 W to 5 W (136-174 MHz) Models
45 W to 5 W (380-470, 450-520 MHz) Models
Maximum of 1024 CH/Zone, 128 Zones
DB-25 Accessory Connector
AMBE+2™ Enhanced Vocoder
4 W Speaker Audio
Voice Announcement
Dual Priority Scan
Multi-Zone Scan
Adjustable Audio Profiles
Emergency Profiles
Front Panel Programming

Digital – NXDN® Mode

NXDN Conventional
NXDN Type-C & Gen2 Trunking (Optional)
6.25 & 12.5 kHz Channels
Paging Call
Emergency Call
All Group Call
Status Messaging
Remote Stun/Kill
Remote Check
Over-the-Air Alias (OAA)
Over-the-Air Programming (OTAP)
Short & Long Data Messages
NXDN Digital Scrambler
2-Tone (Digital)
DTMF (Digital)
Transparent Data
Remote Regroup
Multi-System Roaming
Gen2 Direct Frequency Assignment (DFA)
Gen2 Advanced GPS reporting

Digital – DMR Mode

Two-slot TDMA in 12.5 kHz channels
DMR Tier 2 Conventional
DMR Tier 3 Trunking (Optional)
DMR Over-the-Air Programming
Call Interruption
Dual-slot Direct Mode
Spectrum Efficient
Optional ARC4 encryption
DMR Auto Slot Select
DTMF Dialing
USBD High Speed GPS

FM Modes – General

Conventional & LTR Zones
FleetSync®/II: PTT ID ANI / Caller ID Display, Selective Group Call, Emergency Status / Text Messages
OST
Transparent Data
MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
QT / DQT & Two-Tone
Built-in Voice Inversion Scrambler

Multi-Protocol

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

3yr Warranty

Protected by a comprehensive 3 year warranty.

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-65M
Microphone

KCT-23
DC Power Cable

KMB-10
Key Lock Adapter

KMB-34
Mounting Case
for KPS-15

KMC-66M
Keypad
Microphone

KCT-46
Ignition Sense Cable

KAP-2
Horn Alert/P.A.
Relay Unit

KPS-15
DC Power Supply
(23A max)

KES-5A
External Speaker
(40 W max input,
requires KAP-2)

KLF-2
Line Filter

KRA-40G
GPS Active Antenna

KWD-AE30/AE31
Secure Cryptographic Module

KPG-180AP
OTAP Manager

Specifications

General	NX-5700S	NX-5800S
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 400-470 MHz
Max. Channels Per Radio	1,024	
Max. # of P25 Trunked Group ID's	512	
Number of Zones	128	
Channel Spacing		
Analog	12.5/15/25*/30* kHz	12.5/25* kHz
Digital	6.25/12.5 kHz	6.25/12.5 kHz
Power Supply	13.6 V DC ±15%	
Current Drain		
Standby	0.45 A	
RX	2.3 A	
TX	13 A	
Operating Temperature	-22ºF to +140ºF (-30ºC to +60ºC)	
Frequency Stability	± 0.5 ppm	
Dimensions	(W x H x D) Projections Not Included 6.69 x 1.89 x 6.93 in. (170 x 48.0 x 176 mm.)	
Weight Radio	3.53 lbs (1.6 kg)	
FCC ID		
Type 1	K44471100	K44471200
Type 2		K44471201

*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories.
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-5700S	NX-5800S
Sensitivity		
NXDN* 6.25 kHz Digital (3% BER)	0.20 µV	
NXDN*12.5 kHz Digital (3% BER)	0.25 µV	
DMR Digital (5% BER)	0.25 µV	
DMR Digital (1% BER)	0.40 µV	
Analog (12dB SINAD)	0.25 µV	
Selectivity		
Analog @ 12.5kHz	71 dB	
Analog @ 25kHz	81 dB	
Intermodulation	80 dB	
Spurious Rejection	85 dB	
Audio Distortion	2%	
Audio Output Power	4 W/4 Ω	

Transmitter	NX-5700S	NX-5800S
RF Power Output	50 W to 5 W	45 W to 5 W
Spurious Emission	-73 dB	-75 dB
FM Hum & Noise		
Analog @ 12.5kHz	45 dB	
Analog @ 25kHz	50 dB	
Audio Distortion	2%	
Emission Designator	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXE, 7K60FXD 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				

*1 Applicable microphone must be connected to the radio, and all accessory connectors must be covered.

JVCKENWOOD USA Corporation
Communications Sector Headquarters
1440 Corporate Drive | Irving, TX 75038

Order Administration/Distribution
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa

KENWOOD Communications
Global Website
comms.kenwood.com

JQA-1205 091
ISO9001 Registered
Communications Systems Business Unit
JVCKENWOOD Corporation

ADS#-09521 Print in U.S.A.