

NEXEDGE

One Radio with Multi-Protocol Support

NX-5700HB/5800HB

NEXEDGE VHE/UHE DIGITAL TRANSCEIVER

One NEXEDGE radio, multiple protocols*: the NX-5700HB (110 W) / NX-5800HB (100W) mobile transceivers support NXDN and P25 (Phase 1 & 2) digital protocols, plus FM analog for mixed operation. This high-power RF deck - equipped with Bluetooth®, GPS and a memory card slot - requires one of several optional remote control heads, all of which offer an intuitive controls for easy operation. The versatile NX-5700HB/5800HB can be combined with other RF decks and multiple remote control heads to create a radio system that is tailored to your interoperability requirements...

*Note that unlike NEXEDGE 50W-class models, the NX-5700HB/5800HB mobile series does not support DMR.











Features

Multi-digital Operation in NXDN and P25 (Phase 1 & 2) protocols

Multi RF Deck with Low Band / VHF / UHF / 700 & 800 MHz combination

Mixed Digital & FM Analog Operation allows gradual migration in mixed sites and easy migration with digital radios in other sites

Variety of Optional Remote Control Heads (Note:NX-5700HB/5800HB is remote

- Dual Remote Control Head and Multi-band (Multi RF deck) capable options
- Easy-to-follow controls and Information Conveying Multi-line Text are built into each control head

Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones

Built-In GPS Receiver for effective fleet management

Built-in Bluetooth 4.0 for hands-free operation

USB Micro Terminal (up to 12 Mbps)

- PC Programming & Internal microSD Access (Requires USB driver for PC)

Renowned KENWOOD Audio Quality can be achieved with Active Noise Reduction that utilizes built-in DSP 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"

RF output power: VHF: 110 W to 25W / UHF: 100 W to 25 W

DB-25 & Molex 9-pin Accessory Connector

AMBE+2™ Enhanced Vocoder

12 W Audio Output

IP54/55 and MIL-STD-810 C/D/E/F/G

Digital - NXDN® Mode

Gen2 & NXDN Type-C Trunked Operation NXDN Conventional Operation 6.25 & 12.5 kHz Channel Spacing

Over-the-Air Alias

Over-the-Air Programming

Paging Call

Emergency Call

All Group Call Status Messaging Remote Stun/Kill

Remote Check

Short & Long Data Messages NXDN Digital Scrambler Included

Digital - P25 Mode

P25 Phase 1 Conventional/Trunked Operation

P25 Phase 2 Trunked Operation Talk Group ID Lists Individual ID Lists

Caller ID Display

Remote Monitor/Remote Check

Radio Inhibit

Encryption Key Zeroize & Retention P25 Over-the-Air Re-keying P25 Over-the-Air Programming

FM Modes - General

Conventional & LTR Zones

FleetSync® I/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 & Two-Tone

Built-in Voice Inversion Scrambler

Multiple Configurations

The NX-5000H mobile series allows users to create a variety of configurations to suit different Dual Remote Control Head x Multi RF Decks requirements by combining different options. Some of the standard configurations are: Single Remote Control Head x Single RF Deck

Dual Remote Control Head x Single RF Deck Other combinations are available. Consult your local KENWOOD dealer for more.







NX-5700B/5800B/5900B

KCH-19 Basic Control

- 2.55" Color TFT Disp

KCH-20R Featured Control

- D-Pad & more PF keys

KCH-21RM Handheld Control Head



KCT-71

Control Head Interface Kit (Adapter for the KCH-19)







KWD-AE30/AE31 Secure Cryptographic Module

KPG-180AP

- OTAP Manager · Connect to Multiple Systems
- · Network Connect (NXIP/AIS)
- · Direct mode (P25)



Head





Remote Control Cable

(Available in 3 lengths of





KMC-66M

Keypad Microphone



KMB-36 Mounting Bracket

KCT-18

Ignition Sense Cable (





Specifications

Frequency Range				
Type 1	136-174 MHz	450-520 MHz		
Max. Channels Per Radio	1024 (Up to 4000 CH with option)			
Number of Zones	12	128		
Max. Channels Per Radio	5			
Channel Spacing Analog Digital	12.5/15/20/25*/30* kHz 6.25 kHz/12.5 kHz	12.5/25* kHz 6.25 kHz/12.5 kHz		
Power Supply	13.6V DC ± 15%	13.4V DC ± 15%		
Current Drain Standby RX TX	1.3 3.3 28	BA		
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	±0.5 ppm			
Dimensions Radio w/Control Head	7.01 x 2.56 x 13.84 in. (178 x 65 x 351.5 mm.)			
Weight (net) Radio w/Control Head	12.1 lb	s (5.5 kg)		
FCC ID Type 1 Type 2	K44499200	K44499300 K44499301		

*25 and 30 kHz are not included in the models sold in the USA or US territories.

P25 Digital measurements made per TIA 102CAAA, analog measurements made per TIA 603 and specifications shown are typical Specifications are subject change without notice, due to advancements in technology.

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Receiver NX-57	700HB NX-5800HB
Sensitivity NXDN* 6.25 kHz Digital (3% BER) NXDN*12.5 kHz Digital (3% BER) P25 Digital (5% BER) P25 Digital (6% BER) Analog (12dB SINAD)	020 µV 025 µV 025 µV 040 µV 025 µV
Selectivity Analog @ 12.5kHz Analog @ 25kHz	71 dB 81 dB
Intermodulation	80 dB
Spurious Rejection	85 dB
Audio Distortion	3%

Transmitter	NX-5700HB	NX-5800HB		
RF Power Output	110 W to 25 W	100 W to 25 W		
Spurious Emission	-80 dB			
FM Hum & Noise Analog @ 12.5kHz Analog @ 25kHz		45 dB 50 dB		
Audio Distortion	2%			
Emission Designator	16K0F3E*, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 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/Prcedure 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

*All interfaces must be fully sealed with appropriate covers unless they are connected to a genuine accessory

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KENWOOD Communications

