KENWOOD

NEXEDGE®

One Radio with Multi-Protocol Support

NX-5600HB

VHF LOW BAND DIGITAL TRANSCEIVER

NXDN® Bluetooth® GPS FleetSync®

The NX-5600HB is a 110-watt mobile transceiver that supports NXDN digital protocol and FM analog for mixed operation. This high-power VHF Low Band 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-5600HB can be combined with other RF decks and multiple remote control heads to create a radio system that is tailored to your specific needs, thanks to a wide selection of accessories.

*Note that the NX-5600HB mobile series only supports NXDN 12.5 kHz Conventional digital CAI; P25, DMR,NXDN Trunked digital CAIs and NXDN 6.25 kHz channel spacing mode are not supported.

Features

VHF Low Band 39 MHz to 50 MHz

RF output power: 110 W to 25 W

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

Mixed Digital & FM Analog Operation allows gradual migration

Variety of Optional Remote Control Heads (Note: NX-5600HB is remote operation only)

- 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

microSD / microSDHC (Up to 2GB / 32GB) Memory Card Slot for increased memory capacity for "Voice & Data"

DB-25 & Molex 9-pin Accessory Connector

12 W Audio Output

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

Digital – NXDN® Mode

NXDN Conventional Operation
Built-in 56-bit DES encryption
Optional 256-bit AES encryption
AMBE+2™ Enhanced Vocoder
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

FM Modes - General

FM Analog Conventional Operation
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
Noise Blanker

Multiple Configurations

The NX-5000 mobile series allows users to create a variety of configurations to suit different 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
Dual Remote Control Head x Multi RF Decks

Other combinations are available. Consult your local KENWOOD dealer for more.

Accessories

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

NX-5600HB/5700(H)B
5800(H)B / 5900B
RF Deck

KCH-19
Basic Control Head Kit
- 2.55" Color TFT Display

KCH-20R
Featured Control Head-
2.75" Color TFT Display
- D-Pad & more PF keys

KCH-21RM
Handheld Control Head

KRK-14H
Control Head Interface Kit
(Adapter for the KCH-19)

KCT-71
Remote Control Cable
(available in 3 lengths of 17ft (5.2m), 25ft (7.6m), 1.6ft (0.5m)

KCT-72
External Accessory ConnectionCable for the KCH-19/20R

KMC-65M
Microphone
(IP54/55)

KMC-66M
Keypad Microphone
(IP54/55)

KES-5A
External Speaker
(40 W max input)

KCT-23
DC Power Cable
(for High Power)
M2: [10 ft/3 m] /
M4: [23 ft/7 m]

KCT-18
Ignition Sense Cable

KMB-36
Mounting Bracket

KRA-40G
GPS Active Antenna

KWD-AE30/AE31
Secure Cryptographic Module

KPG-180AP
OTAP Manager

Specifications

General	NX-5600HB
Frequency Range	39 - 50 MHz
Max. Channels Per Radio	1024 (Up to 4000 CH with option)
Number of Zones	128
Max. Channels Per Radio	512
Channel Spacing Analog Digital	 20 kHz 12.5 kHz
Power Supply	13.4 V DC ±15 %
Current Drain Standby RX TX	 1.3 A 3.3 A 28 A
Operating Temperature	-22ºF to +140ºF (-30ºC to +60ºC)
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 lbs (5.5 kg)
FCC ID	K44499100
IC Certification	282F-499100

Receiver	NX-5600HB
Sensitivity Analog 20kHz (12dB SINAD) NXDN*12.5 kHz Digital (3% BER)	 0.25 µV 0.25 µV
Selectivity Analog Analog @ 25kHz	 71 dB 81 dB
Intermodulation	80 dB
Spurious Rejection	90 dB
Audio Distortion	3%
Audio Output Power	12 W/4 Ω (Remote Control Head: 3 W/4 Ω)

Transmitter	NX-5600HB
RF Power Output	110 to 25 W (110 / 70 / 25 W)
Spurious Emission	-80 dB
FM Hum & Noise	55 dB
Audio Distortion	2%
Emission Designator Analog Digital	 16K0F3E 8K30F1E, 8K30F1D, 8K30F7W

Analog measurements made per TIA 603, and NXDN digital measurements made per NXDN Conformance Test.
Specifications are subject change without notice, due to advancements in technology.

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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	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
International Protection Standard					
Dust & Water Protection*2	IP54/55*3				

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

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