KENWOOD

NEXEDGE®

NX-920G

NEXEDGE® 800MHz Digital & Analog Mobile Radio

NXDN® MPT1327 FleetSync®

GENERAL FEATURES

- 15W (806-870 MHz) Model
- 260 CH-GID / 128 Zones
- 10 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- Blue Function/Status LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- Zone / CH Number Voice Announcement
- DB-15 Accessory Connector
- 6 Programmable AUX I/Os
- KPG-141D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input[1]
- Transparent Data Mode[1]
- Built-in GPS Receiver

DIGITAL GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming[2]
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging[1]
- Remote Stun/Kill[1]
- Remote Check[1]
- Short & Long Data Messages[1]
- GPS Location with Voice[1]
- NXDN® Scrambler Included

DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect[3]
- Transmission Trunked Mode[3]
- Message Trunked Mode[3]
- Call Queuing with Priority[3]
- Late Entry (UID & GID)[3]
- 4 Priority Monitor ID's[3]
- Remote Group Add[1]
- Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks[4]
- UID Lists for each network

SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

FM MODES - GENERAL

- 25 & 12.5 kHz Channels
- NPSPAC Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler (16 Codes)

MPT ZONES*

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

FleetSync®/II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages[1]

MDC-1200

- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

* Optional feature

Options

KMC-35
Microphone
(Supplied)

KES-3
External Speaker

KLF-2
Line Filter

KCT-60
DB 15-to-15 Pin
Molex Adaptor Cable

KMC-36
Microphone
with Keypad

KES-5
External Speaker
(requires KCT-60 option)

KCT-18
Ignition Sense Cable
(requires KCT-60 option)

KRA-40G
GPS Antenna

KMC-9C
Desktop Microphone

KMB-10
Key Lock Adapter

KCT-36***
3m Extension Cable
(for KCT-60)

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

Main Specifications

		NX-920G
GENERAL		
Frequency Range	Receive	851-870MHz
	Transmit	806 - 825 / 851 - 870 MHz
Number of Channels		260
Zones		128
Max. Channels per Zone		250
Channel Spacing	**Analog**	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz
Operating Voltage		13.6 V DC ± 15%
Operating Temperature Range		-22˚ F to +140˚ F (-30˚ C to +60˚ C)
Frequency Stability		± 1.0 ppm
Antenna Impedance		50 Ω
Dimensions (W x H x D) Projections not included		6.30 x 1.69 x 5.35 in (160 x 43 x 136 mm)
Weight (net)		2.87 lb (1.3 kg)
FCC ID		K44458300
IC Certification		282F-458300

Analog measurements made per TIA/EIA 603 and specifications shown are typical.
Specifications are subject to change without notice, due to advancements in technology.

		NX-920G
RECEIVER		
Sensitivity	**Digital @ 6.25 kHz (3% BER)**	0.20 µV
	Digital @ 12.5 kHz (3% BER)	0.28 µV
	Analog (12 dB SINAD)	0.25 µV
Selectivity	**Analog @ 25 kHz**	75 dB
	Analog @ 12.5 kHz	65 dB
Intermodulation	**Analog**	70 dB (±50,100 kHz)
Spurious Response	**Analog**	75 dB
Audio Distortion		Less than 3%
Audio Output		4 W / 4 Ω
TRANSMITTER		
RF Power Output		5 - 15 W
Spurious Response		70 dB
FM Hum & Noise	**Analog @ 25 kHz**	45 dB
	Analog @ 12.5 kHz	40 dB
Audio Distortion		Less than 3%
Modulation		16K0F3E, 14K0F3E, 11K0F3E, 8K30F1E 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

GPS**	**NX-920G**
TIFF (Time to First Fix) - Cold Start	< 60 seconds
TIFF (Time to First Fix) - Hot Start	< 10 seconds
Horizontal Accuracy	< 10 meters

** Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal - 130 dBm signal strength)
*** Not available in the Canadian markets (US only). Please consult your authorized retailer for confirmed accessory listings in your region.

Footnotes from front:
[1] *Require NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g.console).*
[2] *Requires Kenwood OTAP Management software.*
[3] *These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriberr settings.*
[4] *Up to 8 different Trunked networks can be configured per radio (each in a zone)*

Applicable 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	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
International Protection Standard					
Dust & Water Protection	IP54: Radio itself				

To meet MIL-810 and IP grade, Microphone & Cover for D-sub15 & SP connector have to be connected. (Do not use the KCT cable and/or SP cable.)

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