

● GENERAL FEATURES

- 136 - 174 MHz, 50W
- 400 - 470, 450 - 520 MHz, 40W
- 50 / 40W @ 50% Duty
- 25 / 25W @ 100% Duty
- 40, 100 & 150W 100% Duty UHF Rack/ Cabinet Systems
- 50, 110 & 150W 100% Duty VHF Rack/Cabinet Systems
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function keys
- Front Panel Speaker
- 4W External Speaker Audio
- Volume Control
- Program via Serial or IP
- Remote Terminal Interface
- Programmable AUX I/O's
- Power Supply Voltage Monitor
- RF Power Down Detect
- DTMF Front Panel PF key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- PC Serial Interface
- Windows® PC programming
- Flash Firmware Upgrading

● DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- All Group Call
- Individual & Group Selective Call
- NXDN® Scrambler Built-in
- GPS Data (Trunking*)
- NXR Over-the-Air Programming (Trunking*)
- NXR Over-the-Air Alias (Trunking: w/o Late Entry)

● DIGITAL – CONVENTIONAL MODE

- 6.25 Channels
- 16 RAN Repeater Control Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Mixed FM/Digital Operation
- Conventional IP Networks
- Voting System Option

● DIGITAL – Type-D TRUNKING OPTION

- 6.25 kHz Channels
- 2000 GIDs Per Channel
- 2000 UIDs Per Channel
- 30 Channels Per Site
- ESN Validation
- Transmission Trunked Mode
- Late Entry (UID & GID)
- Remote Stun/Kill *
- Transparent Mode *
- Short & Long Data Messages *

● FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels
- Built-in Scrambler

● FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface

● FM TRUNKED MODE

- External LTR® Controller Interface

* Future Release



Options



Main Specifications

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.

		NXR-710	NXR-810
GENERAL			
Frequency Range	K K2	136-174 MHz -	450-520 MHz 400-470 MHz
Number of Channels			30
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 7.5 / 12.5 / 15 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 kHz	3.125 / 5 kHz
Current Drain	Standby Receive Transmit		0.5A 1.0A 11.0A
TX Power	50% Duty 100% Duty	50 W 25 W	40 W 25 W
Frequency Stability		± 1.0 ppm	± 0.5 ppm
Operating Voltage		10.8 -15.6 V DC	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Antenna Impedance		50 Ω	
Dimensions (W x H x D) Projections not included		19 x 3-1/2 x 13-1/3 inch (483 x 88 x 340 mm)	
Weight (net)		21.4 lbs (9.7 kg)	
FCC ID	K K2	K44422300 -	K44422400 K44422401
IC Certification	K K2	282F-422300 -	- 282F-422401
RECEIVER			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)		0.22 μV 0.28 μV 0.28 μV
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	83 dB 77 dB	80 dB 74 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		55 dB 50 dB
Intermodulation Distortion			80 dB
Spurious Response			90 dB
Audio Distortion (Ext. SP)			Less than 2.5% at 1000 Hz
Audio Output (Ext. SP)			4 W (at 4 Ω, less than 5% distortion)
TRANSMITTER			
RF Power Output		25 W to 50 W	25 W to 40 W
Spurious & Harmonics			80 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		55 dB 50 dB
Audio Distortion Modulation			Less than 1% at 1000 Hz 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

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

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