

NXR-710/810

NXDN™

NEXEDGE® VHF/UHF Digital & Analog Repeater

The Kenwood NXR-710/810 repeaters offer NEXEDGE conventional channel flexibility and functionality beyond analog conventional systems. With large unit ID and talk group ID capacity, operators can segment different departmental/agency groups and sub-groups on shared channels. Digital & Analog Mixed Mode operation is also offered allowing flexible phased migration. NEXEDGE Conventional IP networks can link up to 16 or 48 digital conventional repeaters and voters into one system for wide area coverage or coverage fill-in extensions making it perfect fit for wide range of customer needs.



Features

- 136 - 174 MHz, 50W
- 400 - 470, 450 - 520 MHz, 40W
- 50 / 40W @ 50% Duty
- 25 / 25W @ 100% Duty
- 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 – NXDN® Repeater

<ul style="list-style-type: none"> NXDN® Conventional NXDN® Conventional IP Network *Requires KTI-3 Network Interface Unit 6.25 & 12.5 kHz Channels 16 RAN Repeater Control Built-in 1,000 GIDs Per Site 1,000 UIDs Per Site 	<ul style="list-style-type: none"> Over-the-Air Alias (Repeat only) Over-the-Air Programming (Repeat only) Digital / Analog Mixed Mode Group / Individual Call Status, Short Data, Paging Call Remote Stun, Kill, Monitor, Check & Control Voting Option
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FM Modes - General and Conventional

<ul style="list-style-type: none"> VHF: 25 & 12.5 kHz Channels UHF: 25 & 12.5 kHz Channels Built-in Scrambler 	<ul style="list-style-type: none"> 16 QT/DQT Repeater Control Built-in Hang Timer / Time Out Timer / CW ID External FM Controller Interface
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FM Trunked Mode

External LTR® Controller Interface

NXDN™

NXDN Protocol

An open international standard for digital land mobile radio.



Mixed Mode Operation

Digital & Analog Mixed Mode operation allows flexible phased migration.



2yr Warranty

Protected by a comprehensive 2 year warranty.

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
MIL-SPEC
Microphone



KMC-9C
Desktop
Microphone



KES-5A
External
Speaker



KTI-3M
Network
Interface Unit



Specifications

General	NXR-710	NXR-810
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	
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-501100

* 25 / 30 kHz in VHF/UHF Bands excluding 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 are subject change without notice, due to advancements in technology.

Receiver	NXR-710	NXR-810
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 Spurious Rejection		80 dB 90 dB
Audio Distortion (Ext. SP)	Less than 2.5% at 1000 Hz	
Audio Output Power (Ext. SP)	4 W (at 4 Ω, less than 5% distortion)	

Transmitter	NXR-710	NXR-810
RF Power Output	25 W to 50 W	25 W to 40 W
Spurious Emission		80 dB
FM Hum & Noise Analog @ 25 kHz Analog @ 12.5 kHz		55 dB 50 dB
Audio Distortion	Less than 1% at 1000 Hz	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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