KENWOOD

NEXEDGE®

# NXR-710/810

## NEXEDGE® VHF/UHF Digital & Analog Base Units

NXDN®

### 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 – CONVENTIONAL MODE

- NXDN® Digital Air Interface
- Conventional IP Networks
- Voting System Option
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Mixed FM/Digital Operation
- NXDN® Scrambler Built-in
- 16 RAN Repeater Control Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Individual & Group Selective Call
- All Group Call
- NXR Over-the-Air Alias

### 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
- External MPT Controller Interface

http://nexedge.kenwood.com

## Options

- **KMC-27A** Microphone (MIL-SPEC noise-canceling)
- **KMC-27B** Microphone
- **KMC-35** Microphone

- **KMC-9C** Desktop Microphone

- **KES-5** External Speaker

- **KTI-3M** Network Interface Unit

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

| | | NXR-710 | NXR-810 |
|---|---|---|---|
| **GENERAL** | | | |
| **Frequency Range** | **K** | 136-174 MHz | 450-520 MHz |
| | **K2** | - | 400-470 MHz |
| **Number of Channels** | | 30 | |
| **Channel Spacing** | **Analog** | 12.5 / 15 / 25 / 30 kHz | 12.5 / 25 kHz |
| | **Digital** | 6.25 / 7.5 / 12.5 / 15 kHz | 6.25 / 12.5 kHz |
| **PLL Channel Step** | | 2.5 / 3.125 kHz | 3.125 / 5 kHz |
| **Current Drain** | **Standby** | 0.5A | |
| | **Receive** | 1.0A | |
| | **Transmit** | 11.0A | |
| **TX Power** | **50% Duty** | 50 W | 40 W |
| | **100% Duty** | 25 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** | K44422300 | K44422400 |
| | **K2** | - | K44422401 |
| **IC Certification** | **K** | 282F-422300 | - |
| | **K2** | - | 282F-422401 |
| **RECEIVER** | | | |
| **Sensitivity** | **Digital @ 6.25kHz (3% BER)** | 0.22 µV | |
| | **Digital @ 12.5kHz (3% BER)** | 0.28 µV | |
| | **Analog (12 dB SINAD)** | 0.28 µV | |
| **Selectivity** | **Analog @ 25 kHz** | 83 dB | 80 dB |
| | **Analog @ 12.5 kHz** | 77 dB | 74 dB |
| **FM Hum & Noise** | **Analog @ 25 kHz** | 55 dB | |
| | **Analog @ 12.5 kHz** | 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** | 55 dB | |
| | **Analog @ 12.5 kHz** | 50 dB | |
| **Audio Distortion** | | Less than 1% at 1000 Hz | |
| **Modulation** | | 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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ISO9001 Registered
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ADS#56811 Printed in USA