

● 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



■ **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

		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			Less than 1% at 1000 Hz
Modulation			16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D



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