

NEXEDGE®

## NXR-710/810

NEXEDGE® VHF/UHF Digital & FM Base Units

**NXDN®**

### ● GENERAL FEATURES

- 136 - 174 MHz, 5 - 50 W
- 400 - 470 MHz, 5 - 40 W
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function Keys
- Front Panel Speaker
- Rear External Speaker Output (4 Watts Audio)
- Volume Control
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- External Frequency Reference (10 MHz) Connectivity
- Windows® PC Programming
- Flash Firmware Upgrading

### ● DIGITAL – CONVENTIONAL MODE

- NXDN® Digital Air Interface
- Conventional IP Network
- 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
- NXR Over-the-Air Alias
- Receiver Voting
- Firmware Remote Programming

### ● FM MODES – GENERAL

- VHF: 25, 20 & 12.5 kHz Channels
- UHF: 25, 20 & 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
- EIA Voter Tone Generation

### ● FM TRUNKED MODE

- External MPT Controller Interface



## Options

### ■ KMC-27A

Microphone  
(MIL-SPEC noise-canceling)



### ■ KMC-27B

Microphone



### ■ KMC-35

Microphone

### ■ KMC-9C

Desktop Microphone



### ■ KES-5

External Speaker



### ■ KTI-3

Network Interface Unit



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

## Main Specifications

		NXR-710	NXR-810
<b>GENERAL</b>			
Frequency Range		136 - 174 MHz	400 - 470 MHz
Number of Channels			30
Channel Spacing	Analogue Digital		12.5 / 20 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 kHz	3.125 / 5 kHz
Current Drain	Standby Receive Transmit		0.5 A 1.0 A 11.0 A
Duty Cycle (TX, RX)		100% at 25W, 50% at maximum power	
Frequency Stability		± 1.0 ppm	
Operating Voltage		13.2 V DC (10.8 - 15.6 V DC)	
Operating Temperature Range		-30°C to +60°C	
Antenna Impedance		50 Ω	
Dimensions (W x H x D), Projections not included		483 x 88 x 340 mm	
Weight (net)		9.7 kg	
Applicable Standards	ETSI R&TTE  ETSI Safety	EN 300 086, EN 300 113, EN 300 219, EN301 489, EN 301 166 EN 60065, EN 60950-1, EN 60215	
<b>RECEIVER</b>			
Sensitivity (Analogue) (25kHz /20kHz/12.5kHz)	EIA 12dB SINAD EN 20dB SINAD	0.28 μV -3 dBμV (0.35 μV)	
Sensitivity (Digital) (12.5kHz/6.25kHz)	3% BER 1% BER	0.28 μV / 0.22 μV -4 dBμV (0.32 μV) / -6 dBμV (0.25 μV)	
Adjacent Channel Selectivity (Analogue) (25kHz /20kHz/12.5kHz)		83 dB / 81 dB / 77 dB	80 dB / 78 dB / 74 dB
Intermodulation (Analogue)		72 dB	
Spurious Response Rejection (Analogue)		85 dB	
Audio Distortion		Less than 2.5% at 1000 Hz	
Audio Output		4 W (at 4 Ω, less than 5% distortion)	
<b>TRANSMITTER</b>			
RF Power Output		5 W to 50 W	5 W to 40 W
Modulation Limiting (Analogue)		±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz	
Spurious Emission		- 36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Noise (EIA) (Analogue, 25 kHz/20kHz /12.5kHz)		55 dB / 53 dB / 50 dB	
Modulation Distortion		Less than 1% at 1000 Hz	
Modulation		16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analogue measurements made per EN 300 086 and 113.  
Digital measurements made per EN 300 113 and EN301 166.  
Specifications shown are typical.

Specifications are subject to change without notice, due to advancements in technology.

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Professional Systems Business Group  
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