

# KENWOOD

Listen to the Future

NEXEDGE™

## NXR-810 -C6

NEXEDGE™ UHF Digital & FM Base Units

**NXDN®**

**FleetSync®**  
by KENWOOD

### ● GENERAL FEATURES

- 350 - 400 MHz, 40 W
- 40 W @ 50 % Duty
- 25 W @ 100 % Duty
- 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
- Program Interface
- Remote Termination Interface
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- 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
- Individual & Group Selective Call
- All Group Call
- NXR Over-the-Air Alias

### ● FM MODES – GENERAL

- 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
- EIA Voter Tone Generation

### ● 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



### KT1-3

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

GENERAL			NXR-810
Frequency Range			350 - 400 MHz
Number of Channels			30
Channel Spacing	Analog		12.5 / 25 kHz
	Digital		6.25 / 12.5 kHz
PLL Channel Step			3.125 / 5 kHz
Current Drain	Standby		0.5 A
	Receive		1.0 A
	Transmit		11.0 A
TX Power	50% Duty		40 W
	100% Duty		25 W
Frequency Stability			± 1.0 ppm
Operating Voltage			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
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		80 dB
	Analog @ 12.5 kHz		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 4Ω, less than 5% distortion)
TRANSMITTER			
RF Power Output			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.  
Kenwood reserves the right to change specifications without prior notice or obligation.

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LTR® is a registered trademark of Transcript International.

AMBE+2™ is a trademark of Digital Voice Systems Inc.

Windows® and Windows 2000/XP/Vista® are registered trademarks of Microsoft Corporation.

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NEXEDGE™ is a trademark of Kenwood Corporation in U.S.A. and some countries.

## Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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