

# NXR-1700/1800

## VHF/UHF

**NXDN™ DMR**

### МУЛЬТИРЕЖИМНОЕ, ЭКОНОМИЧНОЕ, ЭКОНОМЯЩЕЕ МЕСТО РЕШЕНИЕ

Этот компактный многорежимный конвенциональный ретранслятор – ключевое оборудование цифровой связи, являющееся специализацией KENWOOD – поддерживает функции и характеристики, которые делают его достойным преемником существующих ретрансляторов DMR и NXDN, таких как TKR-D710/D810 и NXR-710/810. Цифровой протокол выбирается при заказе настройки отдельных устройств для DMR или NXDN с возможностью сохранения заводских настроек аналогового FM по умолчанию.

#### ● ОБЩИЕ ХАРАКТЕРИСТИКИ

- 50/40 W – 1 W RF (50/40 W@50%, 25 W@100%)
- Edcndfidlcihahey  
afllvithley  
cfhchcdhlc8
- hevrhc 1.71-xf OLED kbdhgdfb  
bpbnhufbbkie\_yfb
- Hoescfey h  
lfhmf
- rcldily
- h32dgeh
- hpnhhhlhdhe : DMR Tier II /NXDN Lpbhggucc (hffm\_kyln hghfm)
- USB-A Jafeymbhdk\_kk mh
- In/Out Pin h DB25
- Non-repeat Simplex / Semi-Duplex Mode for Analog and NXDN Digital
- Hot Standby System Redundancy
- hcdIP Network
- Fhhgrmlapy
- SNMP lhhdhelyfhchlq\_ghklb hsmxkblk\_fm
- hd G.711 mbhdh\_dh(ey khhcdhgkhebbklhggbo ibeh\_gbc)
- lphmieth
- IPIF to External Applications (for IP Console, OTAP) / Voice Logging<sup>3</sup> for NXDN only
- hca SIP IF ag\_rg\_hrexa (\*1, \*2)
- IP Bgl\_n\_ckklgpbhggh mie\_gby (IPRCI)
- lhryahilv (HTTPS)
- CW ID
- Lcfmyde

- Fmevlchdydphevy  
lv h 16 Kclh( eypbnhh b :gehhhh )<sup>2</sup>
- Voting Repeater + hf15 J\_kb\_ch (:geh / NXDN / DMR)<sup>2, \*3</sup>
- IPk\_lvkhf\_klbfyk\_bfb k\_bb NXR-7 10/810 & TKR-D710/D810 (<hafghklvaf\_guhiheg\_gbydd qklbkms\_klmsbopbnhuo lpbhgguokbk\_lfb)

#### ● ЦИФРОВОЙ – ОБЩИЕ

- hca AMBE+2™ <hdh
- hlfrrff Pnhcchhc
- Site Roaming
- RF-Link: NXDN / DMR<sup>3</sup>
- Repeat Encrypted Voice/Data (AES / DES)
- ihdihevahlec lepmiich

#### ● ЦИФРОВОЙ – NXDN

- FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths
- Dhphvcdfi<sup>1</sup>
- Dhthevhlmi<sup>1</sup>

#### ● ЦИФРОВОЙ – DMR

- TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth
- DMR Tier II dhg\_gpbhgveguc bfb<sup>2</sup>
- Repeat Encrypted Voice/Data (DMR Enhanced Encryption)
- lah

#### ● FM АНАЛОГОВЫЙ

- FM hg\_gpbhgveguc bfb
- G dhevdh QT/DQT

\*1: L\_m\_kyhghe\_gb\_kbbfgeeyh\_ki\_q\_gby kh\_klbnklbkwlhchfvv  
\*2: Hlpbyffghh\_ki\_q\_gby  
\*3: >kimighba



## Informative Front OLED Display



A large OLED display featured on the front panel is capable of displaying the following information: MAC/IP Address, RSSI/TX Power Setting Icon, Channel Number/Name, and RF Frequency as well as Firmware/ESN/License/Error information and other statuses.

## Size Comparison with Conventional Repeaters

Volumetric capacity can be reduced even when compared with the NXR-710/810 and TKR-D710/D810 repeaters.



The NXR-1000 Series repeaters require only a quarter of the rack space compared to the NXR-710/810 or TKR-D710/D810 Series models.



In addition, the NXR-1000 Series repeaters take up only half the rack space of other 1U repeaters that are 19-inch wide.

## SPECIFICATIONS

GENERAL	NXR-1700	NXR-1800
Frequency Range	136 - 174 MHz	400 - 470 MHz
Channel Capacity	32	
Channel Spacing	Analog	25 / 20 / 12.5 kHz
	Digital	12.5 / 6.25 kHz
PLL Channel Step	6.25 / 5 / 3.125 / 2.5 kHz	6.25 / 5 / 3.125 kHz
Frequency Stability	± 0.5 ppm	
Power Supply	10.8 - 15.6 V DC	
Current Drain	Standby	0.6 A
	Transmitting	12.0 A (Max. power), 9.0 A (25 W)
Operating Temperature	-30 °C to +60 °C	
Antenna Impedance	50 Ω	
Dimensions (W x H x D)	Incl. Projections	214.5 x 44.0 x 242.9 mm
	Excl. Projections	208.5 x 44.0 x 211.5 mm
Weight (net)	1.9 kg	
Applicable Standards	ETSI (EMC)	EN 301 489-1, EN 301 489-5, EN 55032, EN 55035
	ETSI (Spectrum)	EN 300 086, EN 300 113, EN 300 219, EN 301 166
	ETSI Safety	EN IEC 62368-1

Specifications are measured according to applicable standards. Specifications shown are typical and subject to change without notice, due to advancements in technology. Details and timing of firmware and software updates are subject to change without notice.

RECEIVER	NXR-1700	NXR-1800
Sensitivity	DMR (5 % BER)	-7 dBμV (0.22 μV)
	DMR (1 % BER)	-5 dBμV (0.28 μV)
	NXDN (3 % BER) 12.5 / 6.25 kHz	-6 dBμV (0.25 μV) / -8 dBμV (0.20 μV)
	NXDN (1 % BER) 12.5 / 6.25 kHz	-5 dBμV (0.28 μV) / -7 dBμV (0.22 μV)
Analog (20 dB SINAD)		-3 dBμV (0.35 μV)
Selectivity	Analog 25 / 20 / 12.5 kHz	80 / 78 / 74 dB
FM Hum & Noise	Analog 25 / 20 / 12.5 kHz	55 / 53 / 50 dB
Intermodulation	72 dB	
Spurious Rejection	85 dB	
TRANSMITTER	NXR-1700	NXR-1800
RF Output Power	50 - 1 W (50 W @ 50% Duty, 25 W @ 100 % Duty)	40 - 1 W (40 W @ 50% Duty, 25 W @ 100 % Duty)
Spurious Emission	-36 dBm < 1 GHz, -30 dBm > 1 GHz	
FM Hum & Noise	Analog 25 / 20 / 12.5 kHz	55 / 53 / 50 dB
Audio Distortion	1 %	
Digital Protocol (DMR)	ETSI TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60FXW, 7K60F7W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

## APPLICABLE ENVIRONMENTAL SPECIFICATIONS

MIL-STD	810F	810G	810H
High Temperature	501.4/Procedure I, II	501.5/Procedure I, II	501.7/Procedure I, II
Low Temperature	502.4/Procedure II	502.5/Procedure II	502.7/Procedure II
Temperature Shock	503.4/Procedure I, II	503.5/Procedure I	503.7/Procedure I

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