NEXEDGE® VHF ANALOG & DIGITAL REPEATER

NXR-1700E

⊕ Zoom

Features

50 – 1 W RF Output Power (Up to 50 W @ 50%, 25 W @ 100% Duty Cycle)

Light, Compact and Space-Efficient

1.71-inch OLED with Icons and Numeric Displays

Thermal-Controlled Cooling Fan

External Power Supply

Up to 32 Channels

Dual Digital Protocol: DMR Tier II / NXDN Conventional*2, *3
(programmable one at a time)

USB-A Connector Ready for Audio Accessories

External In/Out Pin from DB25

Non-repeat Simplex / Semi-Duplex Mode for Analog and NXDN Digitall*2, *3

Hot Standby System Redundancy

Built-in IP Network Adapter

Unicast and Multicast Call Routing

SNMP Protocol for Direct Reporting to a Generic System*3

Supports G.711 Audio Codec (for Test onsole and Third-party Applications)

IP Remote Management (Monitor / Control / Programming / Test Console)

Ready for IPIF to External Applications (for IP Console, OTAP) / Voice Logging

Built-in SIP IF without External IP Console or Gateway (Digital Only)*1, *2, *3

IP Remote Control Interface (IPRCI)*3

Enhanced Security (HTTPS)

CW ID

Hang Timer

Multi-Site Conventional IP Network up to 16 Sites (for both Digital and Analog)*2

IP Networking Compatible with NXR-5000 (NXDN)*2,*3, legacy KTI-3 (NXDN)*2,*3

and KTI-5 (DMR)*2

General	NXR-1700E
Frequency Range	136 - 174 MHz
Channel Capacity	32

Channel Spacing Analog Digital	30* / 25 */ 15 / 12.5 kHz 12.5 / 6.25 kHz
PLL Channel Step	2.5 / 3.125 / 5 / 6.25 kHz
Power Supply	10.8 - 15.6 V DC
Current Drain Standby Transmitting	0.6 A 12.0 A (Max. power), 9.0 A (25 W)
Operating Temperature	-22 °F to + 140 °F (-30 ℃ to +60 ℃)
Frequency Stability	± 0.5 ppm
Antenna Impedance	50 Ω
Dimensions	(W x H x D) Projections Not Included 8.21 x 1.73 x 8.33 in (208.5 x 44.0 x 211.5 mm)
Weight Radio	4.18 lb (1.9 kg)
FCC ID	K44513100
ISED Certification	282F-513100

*25/30 kHz in VHF Band excluding T-Band are not included in the models sold in the USA or US territories. Analog measurements made per TIA603. 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	
Sensitivity DMR (5 % BER) DMR (1 % BER) NXDN 12.5 / 6.25 kHz (3% BER) Analog (12dB SINAD)	0.22 µV 0.28 µV 0.25 / 0.20 µV 0.25 µV
Selectivity Analog @ 25 / 12.5kHz (TIA603) Analog @ 25 / 12.5kHz (TIA603E)	83 / 77 dB 80 / 50 dB
FM Hum & Noise Analog @ 12.5kHz Analog @ 25kHz	50 dB 55 dB
Intermodulation	80 dB
Spurious Rejection	90 dB
Transmitter	
RF Power Output	50 - 1 W (50 W @ 50% Duty, 25 W @ 100 % Duty)

Spurious Emission	-80 dB
FM Hum & Noise Analog @ 12.5kHz Analog @ 25kHz	50 dB 55 dB
Audio Distortion	1%
Emission Designator	16K0F3E, 11K0F3E, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60FXW, 7K60F7W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D