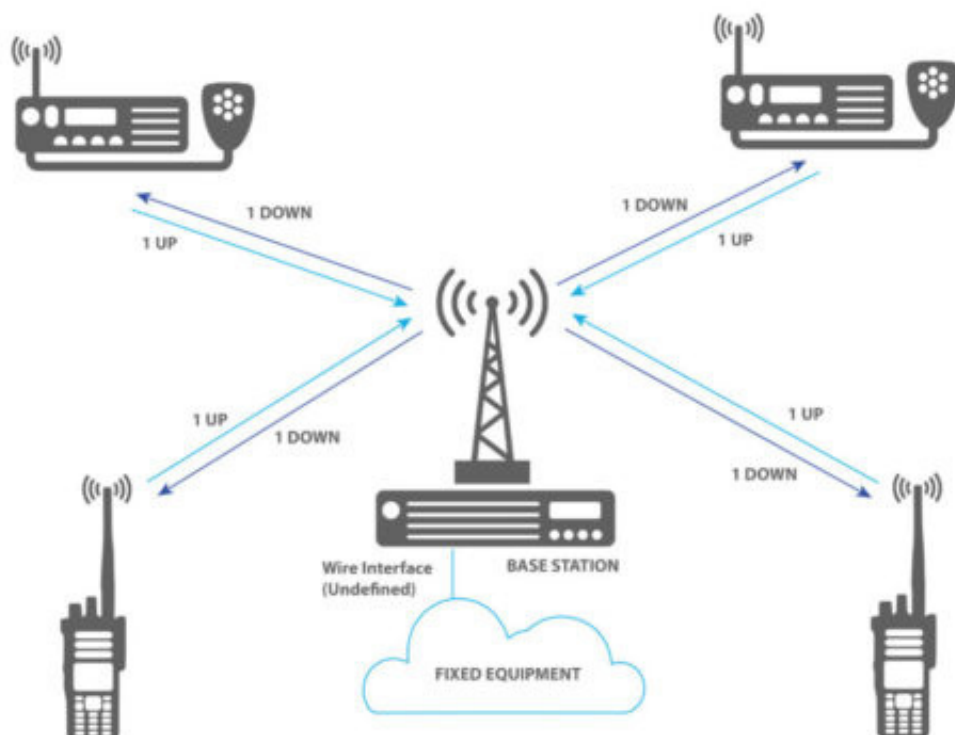


Repetidores y Sistemas Digitales DMR



MOTOROLA

KENWOOD





MOTOTRBO™ SLR 5500 REPEATER

For your business to be successful, you need dependable voice and data communications that reach every corner of your operations. The MOTOTRBO SLR 5500 repeater delivers high performance, high reliability two-way radio service with all the features you need to connect your workplace.

With its sleek form factor and low power consumption, it's engineered for low cost of ownership. And with a huge leap forward in technology, it represents the next generation in repeaters.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers advanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor.

Whether you need the simplicity of a single site conventional system, or the powerful trunking capabilities of Capacity Plus, Linked Capacity Plus or Connect Plus, the SLR 5500 delivers the power of digital two-way radio to your workforce. It can also operate as an analogue repeater (conventional or MPT 1327), or as a mixed mode analogue/digital repeater while you transition away from a legacy analogue system.

NEXT GENERATION MOTOTRBO REPEATER

The SLR 5500 represents a huge leap forward in design and technology. Based on a wealth of field experience, customer feedback and technological innovation, the product delivers outstanding performance and efficiency for your business two-way radio system. From rock-solid reliability to clever touches like an integrated battery charger, the SLR 5500 is truly the next generation in repeaters.

HIGH PERFORMANCE

The SLR 5500 is designed to offer round-the-clock reliable operation, even at its continuous full transmit power of 50W. The high-quality design has been validated through Motorola's Accelerated Life Testing (ALT) programme, and meets stringent quality criteria.

To deliver reliable coverage throughout your business premises, the product has a next-generation receiver design, with high sensitivity and improved noise blocking. Combined with the 50W transmit output power and digital error correction, this gives you clear voice quality, even in the most adverse conditions.

The SLR 5500 supports the full MOTOTRBO feature set, and is compatible with all the MOTOTRBO system architectures: single site conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus. The IP interface allows you to build applications and consoles directly into your system.

HIGH EFFICIENCY

The latest RF technology gives the SLR 5500 exceptionally good power efficiency. Together with its space-efficient 1U height and low thermal footprint, it gives you a very low cost of ownership.

The product has simple servicing requirements, with field-replaceable Power Amplifier, Power Supply and Modem modules. A front panel USB port allows easy configuration, with optional support for remote management. It also has built-in features such as a 3A battery charger, external alarm ports and an auxiliary power output to ease site installation.

The standard warranty is 2 years, and can be enhanced with Service from the Start: a full service support programme that protects your hardware investment with prioritised expert repair, proactive technical support, software updates and more.

DESIGNED FOR THE FUTURE

Motorola is committed to supporting you with even more sophisticated workforce communication solutions as your needs evolve, so the SLR 5500 is designed with the future in mind. Compared to first generation repeaters, it has 10x more processing power, 15x more memory and 125x more data storage. The architecture even has provision for expansion modules, should more functionality be required in the future.

MOTOTRBO SLR 5500

With excellent performance, high reliability and clever design in a small, slim unit, the SLR 5500 repeater is at the heart of a MOTOTRBO professional two-way radio system. To find out more, please contact your local authorised Motorola Channel Partner.



GENERAL SPECIFICATIONS

Frequency Range	VHF	UHF
Channel Capacity	136-174 MHz	400-470 MHz
RF Output Power	64	
Dimensions (H x W x D)	1-50 W	
Weight	44 x 483 x 370 mm (1.75 x 19 x 14.6 in)	
Input Voltage (AC)	8.6 kg (19 lbs)	
	100-240 Vac, 47-63 Hz	
Current (standby), 110 / 240 V	0.18 / 0.25 A	
Current (transmitting), 110 / 240 V	1.5 / 0.9 A	
Input Voltage (DC)	11.0-14.4 Vdc	
Current (standby)	0.7 A	
Current (transmitting)	9.5 A	
Operating Temperature Range	-30 to +60 °C (-22 to +140 °F)	
Humidity Max Duty Cycle FCC	RH of 95%, non-condensing at 50 °C (122 °F)	
Description IC Description	100%	
Digital Vocoder Type Battery	ABZ99FT3094	ABZ99FT4096
Charger Capacity Connectivity	109AB-99FT3094	109AB-99FT4096
Supported System Types	AMBE+2™	
	12 V, 3 A	
	Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet	
	Digital Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus Analogue Conventional, MPT 1327	

RECEIVER

Frequency Range	136-174 MHz	400-470 MHz
Channel Spacing	12.5 / 20 / 25 kHz	
Frequency Stability	0.5 ppm	
Sensitivity, 12dB SINAD	0.22 uV	
Sensitivity, 5% BER	0.22 uV	
Selectivity (TIA603D), 12.5/20/25 kHz	55 / 83 / 83 dB	55 / 80 / 80 dB
Selectivity (TIA603), 12.5/20/25 kHz	68 / 83 / 83 dB	68 / 80 / 80 dB
Selectivity (ETSI), 12.5/20/25 kHz	63 / 70 / 70 dB	
Intermodulation Rejection (TIA603D/ETSI)	82 / 73 dB	
Spurious Rejection (TIA603D/ETSI)	95 / 90 dB	
Audio Distortion Transmitter Hum and Noise, 12.5/20/25 kHz	< 1%	
	-50 / -45 / -45 dB	

TRANSMITTER

Frequency Range	136-174 MHz	400-470 MHz
RF Output Power	1-50 W	
Max Duty Cycle	100%	
Channel Spacing	12.5 / 20 / 25 kHz	
Frequency Stability	0.5 ppm	
Intermodulation Attenuation	40 dB	
Adjacent Channel Power (TIA603D), 12.5/20/25 kHz	62 / 78 / 78 dB	
Adjacent Channel Power (ETSI), 12.5/20/25 kHz	78 / 62 dB	
Conducted Spurious Emissions	-36 dBm < 1 GHz, -30 dBm > 1 GHz	
Modulation Fidelity (4FSK)	FSK Error 5%, FSK Magnitude 1%	
Audio Response	TIA603D	
Audio Distortion	< 1%	
Receiver Hum and Noise, 12.5/20/25 kHz	-45 / -50 dB	
Rated System Deviation, 12.5/20/25 kHz	±5.0 / ±2.5 kHz	

* 25 kHz channels not available in the US

For more information on how to make your business more efficient and better connected, visit www.motorolasolutions.com/mototrbo or find your closest Motorola representative or authorised Partner at www.motorolasolutions.com/contactus

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expocom®
telecommunication

MOTOTRBO™
DIGITAL REMASTERED.

Distributed by: _____

NXR-1700/1800 REPETIDOR VHF/UHF

NXR-1000 series
Radios – Para todos y para todo.

NXDN™ **DMR**

LA SOLUCIÓN MULTIMODO COMPACTA, TODO EN UNO.

Este repetidor convencional multi-modo compacto, equipo clave de las comunicaciones digitales en las que KENWOOD es especialista, es compatible con las características y prestaciones de nuestras series anteriores de repetidores DMR y NXDN, como el TKR-D710/D810 y el NXR-710/810, convirtiéndose en su digno sucesor. El protocolo digital se debe elegir al realizar el pedido de cada unidad indicando DMR, NXDN o ambos, sin perder el modo FM analógico activo de fábrica.

GENERALIDADES

- 50/40 – 1 W Potencia RF salida (hasta 50/40 W@50%, 25 W@100% Ciclo de trabajo)
- Ligero, Compacto y eficiente al permitir instalar 2 Repetidores en 1U de altura en rack 19"
- Pantalla OLED 1.71" con Iconos y Display Numérico
- Ventilador con control térmico
- Alimentación externa
- Hasta 32 canales
- Protocolo Digital seleccionable: DMR Tier II / NXDN Convencional (programable solo uno cada vez)
- Conector USB-A para accesorios de audio.
- Conector DB25 para Entradas/Salidas Externas.
- Modo Simplex / Semi Duplex en Analógico y Digital NXDN
- Sistema Redundante Hot Standby
- Adaptador de Red IP incluido.
- Rutinas Multicast
- Protocolo SNMP para Monitorización Directa por Sistemas genéricos*3
- Soporta Codificador de Audio G.711 (para consola de ensayos y aplicaciones externas)
- Gestión remota por IP (Monitor / Control / Programación / Consola Ensayos)
- Compatibilidad para IPIF con Aplicaciones Externas (para Consolas IP, OTAP) / Registro de Voz
- SIP IF incluido sin Consola IP externa o Gateway (Solo Digital)*1, *2, *3

- Interface IP para Control Remoto (I PRCI) * 3
- Seguridad Mejorada (HTTPS)
- ID CW
- Temporizador Bloqueo
- Red IP Convencional Multi-emplazamiento hasta 16 emplazamientos (tanto Analógico como Digital)*2
- Repetidor Voting + Hasta 15 Receptores (Analógica / NXDN / DMR)*2, *3
- Red IP Compatible con series de repetidores NXR-710/810 y TKR-D710/D810 (coexiste con Sistemas digitales convencionales existentes)

COMUN - DIGITAL

- AMBE+2™ Vocoder incluido
- Modo Mixto Analógico / Digital
- Roaming de Emplazamiento
- Enlace RF: NXDN / DMR*3
- Repetidor con Encriptación Voz/Datos (AES / DES)
- Lista de Usuarios / Grupos Emplazamiento

DIGITAL - NXDN

- FDMA – Canalización Muy estrecha 6.25 kHz y estrecha 12.5 kHz
- NXDN Modo Convencional*2
- Control de Acceso Radios*1

DIGITAL - DMR

- TDMA 2-slot canalización 12.5 kHz equivalente a 6.25 kHz muy estrecho
- DMR Tier II Modo Convencional*2
- Repetidor con Encriptación Voz/Datos (DMR Encriptación Mejorada)
- Interrupción de llamada

FM ANALÓGICO

- FM Modo Convencional
- Multiple QT/DQT

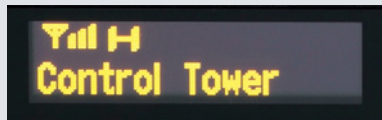
*1: Requiere actualizar el terminal para soportar esta funcionalidad.

*2: Opción de Software

*3: Disponible próximamente



Información en Display OLED



El display OLED del frontal puede mostrar las siguientes informaciones: Dirección MAC/IP, Iconos de RSSI/TX, Nombre/Número de Canal y Frecuencias. También información de Firmware/ESN/Licencias/Errores y otros estatus.

Comparativa de tamaño con los repetidores convencionales.

El volumen se reduce en comparación con los repetidores NXR-710/810 y TKR-D710/810.



Los repetidores de la serie NXR-1000 requieren solo una cuarta parte del espacio del rack en comparación con los modelos de la serie NXR-710/810 o TKR-D710/D810.

Además, los repetidores de la serie NXR-1000 ocupan, en comparación de los repetidores de 1U de rack 19", solo la mitad de espacio.

ESPECIFICACIONES

GENERAL		NXR-1700	NXR-1800
Rango de frecuencia		136 - 174 MHz	400 - 470 MHz
Capacidad del canal		32	
Espaciado entre canales	Analogico	25 / 20 / 12,5 kHz	25 / 20 / 12,5 kHz
	Digital	12,5 / 6,25 kHz	12,5 / 6,25 kHz
Incremento de frecuencia		6,25 / 5 / 3,125 / 2,5 kHz	6,25 / 5 / 3,125 kHz
Estabilidad de la frecuencia		± 0,5 ppm	
Alimentación		10.8 - 15,6 V CC	
Consumos	Reposo	0,6 A	0,7 A
	Transmisión	12,0 A (potencia máxima), 9,0 A (25 W)	
Temperatura de funcionamiento		-30 °C a +60 °C	
Impedancia de antena		50 Ω	
Dimensiones (An x Al x Pr)	Incluidas las proyecciones	214,5 x 44,0 x 242,9 mm	
	Excluyendo las proyecciones	208,5 x 44,0 x 211,5 mm	
Peso (neto)		1,9 kg	
Normas Aplicadas		EN 301 489-1, EN 301 489-5, EN 55032, EN 55035 EN 300 086, EN 300 113, EN 300 219, EN 301 166 EN IEC 62368-1	
		ETSI (CEM) ETSI (Espectro) ETSI Seguridad	

Las especificaciones se miden de acuerdo con las normas aplicables. Las especificaciones mostradas son típicas y están sujetas a cambios sin previo aviso, debido a los avances tecnológicos. Los detalles y el calendario de las actualizaciones de firmware y software están sujetos a cambios sin previo aviso.

RECEPTOR		NXR-1700	NXR-1800
Sensibilidad	DMR (5 % BER) DMR (1 % BER)	-7 dBμV (0,22 μV)	
	NXDN (3 % BER) 12,5 / 6,25 kHz	-5 dBμV (0,28 μV)	
	NXDN (1 % BER) 12,5 / 6,25 kHz	-6 dBμV (0,25 μV) / -8 dBμV (0,20 μV)	
	Analogico (20 dB SINAD)	-5 dBμV (0,28 μV) / -7 dBμV (0,22 μV)	
		-3 dBμV (0,35 μV)	
Selectividad analógica 25 / 20 / 12,5 kHz		80 / 78 / 74 dB	78 / 76 / 72 dB
Zumbido y ruido FM Analogico 25 / 20 / 12,5 kHz		55 / 53 / 50 dB	
Intermodulación		72 dB	
Rechazo espurio		85 dB	
TRANSMISOR		NXR-1700	NXR-1800
Potencia de salida RF		50 - 1 W	40 - 1 W
		(50 W al 50 % de servicio, 25 W al 100 % de servicio)	(40 W al 50 % de servicio, 25 W al 100 % de servicio)
Emisión espuria		-36 dBm < 1 GHz, -30 dBm > 1 GHz	
Zumbido y ruido FM Analogico 25 / 20 / 12,5 kHz		55 / 53 / 50 dB	
Distorsión de audio		1 %	
Protocolo digital (DMR)		ETSI TS 102 361-1, -2, -3	
Designador de emisiones		16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60FXW, 7K60F7W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

ESPECIFICACIONES MEDIOAMBIENTALES APLICABLES

MIL-STD	810F	810G	810H
Alta temperatura	501.4/Procedimiento I, II	501.5/Procedimiento I, II	501.7/Procedimiento I, II
Baja temperatura	502.4/Procedimiento II	502.5/Procedimiento II	502.7/Procedimiento II
Choque térmico	503.4/Procedimiento I, II	503.5/Procedimiento I	503.7/Procedimiento I

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