

MOTOTRBO™ SLR 5300 REPEATER

The MOTOTRBO™ SLR 5300 Repeater is designed to provide your business with reliable voice and data communication that covers every part of your operation. Delivering high performance and dependability, the SLR 5300 ensures seamless connectivity, making it ideal for workplaces that require consistent communication.



With its compact form factor, low power consumption, and reduced cost of ownership, the SLR 5300 is engineered to be a smart, cost-efficient solution. This next-generation repeater integrates advanced technology, representing a significant leap forward in performance.

Versatile and powerful, MOTOTRBO combines the advantages of two-way radio with the latest digital features. It integrates voice and data effortlessly, offers easy-to-use advanced functionalities, and boosts capacity to meet your communication demands across a wide range of environments.

Whether you need a simple single-site conventional system or the advanced trunking capabilities of Capacity Plus, Linked Capacity Plus, or Connect Plus, the SLR 5300 provides the flexibility and power of digital radio to your workforce. It can also operate in analog mode (conventional or MPT 1327) or in mixed analog/digital mode, facilitating a smooth transition from legacy analog systems.

NEXT GENERATION MOTOTRBO REPEATER

The SLR 5300 marks a major advancement in design and technology. Built on extensive field experience, customer feedback, and technological innovation, it delivers exceptional performance and efficiency for your business's two-way radio system. With unmatched reliability and innovative features like an integrated battery charger, the SLR 5300 truly sets the standard for next-generation repeaters.

HIGH PERFORMANCE

Engineered for 24/7 reliable operation, the SLR 5300 performs flawlessly even at its full 50W continuous transmit power. Its high-quality construction has been rigorously tested through Motorola's Accelerated Life Testing (ALT) program, ensuring it meets the highest standards of quality.

Designed to ensure reliable coverage across your business, the SLR 5300 features a next-generation receiver with enhanced sensitivity and better noise suppression. Combined with its 50W transmit power and digital error correction, this guarantees clear voice quality, even in challenging conditions.

Supporting the complete MOTOTRBO feature set, the SLR 5300 is compatible with all MOTOTRBO system architectures, including single-site conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus, and Connect Plus. Its IP interface also enables seamless integration of applications and consoles into your system.

HIGH EFFICIENCY

Leveraging the latest RF technology, the SLR 5300 offers remarkable power efficiency. Its compact 1U height and low thermal footprint contribute to reduced operational costs, making it highly cost-effective. With minimal servicing requirements, the unit features field-replaceable modules for the Power Amplifier, Power Supply, and Modem. A front-panel USB port simplifies configuration, and optional remote management support enhances flexibility. Built-in features such as a 3A battery charger, external alarm ports, and auxiliary power output simplify site installation.

DESIGNED FOR THE FUTURE

Motorola is committed to evolving with your business, and the SLR 5300 is designed to meet your growing needs. It boasts 10 times the processing power, 15 times the memory, and 125 times the data storage of first-generation repeaters. Its architecture even allows for future expansion modules, ensuring scalability as your communication requirements evolve.

MOTOTRBO SLR 5300

Combining excellent performance, reliability, and smart design in a compact, slim unit, the SLR 5300 is the backbone of the MOTOTRBO professional two-way radio system. To learn more, contact your local authorized Motorola Channel Partner.



SLR 5300 REPEATER

GENERAL SPECIFICATIONS

	VHF	UHF1	UHF2	300 MHz
Frequency Range	136-174 MHz	400-470 MHz	450-527 MHz	350-400 MHz
Channel Capacity	64			
RF Output Power	1-50 W			
Dimensions (H x W x D)	1.75 x 19 x 14.6 in (44 x 438 x 370 mm)			
Weight	19 lbs (8.6 kg)			
Input Voltage (AC)	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	-22 to +140 °F (-30 to +60 °C)			
Humidity	RH of 95%, non-condensing at 50 °C (122 °F)			
Max Duty Cycle	100%			
FCC Description	ABZ99FT3094	ABZ99FT4096		-
IC Description	109AB-99FT3094	109AB-99FT4096		-
Digital Vocoder Type	AMBE+2™			
Battery Charger Capacity	12 V, 3 A			
Connectivity	Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet			
Supported System Types	Digital Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus Analog Conventional, MPT 1327			

RECEIVER

	136-174 MHz	400-470 MHz	450-527 MHz	350-400 MHz
Frequency Range	136-174 MHz	400-470 MHz	450-527 MHz	350-400 MHz
Channel Spacing	12.5 / 20 / 25* kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)	+/- 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		55 / 80 / 80 dB
Selectivity (TIA603), 12.5/20/25* kHz	68 / 83 / 83 dB	68 / 80 / 80 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	< 1%			
Hum and Noise, 12.5/20/25* kHz	-45 / -45 / -50 dB			

TRANSMITTER

	136-174 MHz	400-470 MHz	450-527 MHz	350-400 MHz
Frequency Range	136-174 MHz	400-470 MHz	450-527 MHz	350-400 MHz
RF Output Power	1-50 W			
Max Duty Cycle	100%			
Channel Spacing	12.5 / 20 / 25* kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)	+/- 0.5 ppm			
Intermodulation Attenuation	40 dB			
Adjacent Channel Power (TIA603D), 25* / 12.5 kHz	62 / 78 / 78 dB			
Adjacent Channel Power (ETSI), 25* / 12.5 kHz	62 / 78 / 78 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%			
Hum and Noise, 12.5/20/25* kHz	-45 / -45 / -50 dB			
Rated System Deviation, 12.5/20/25* kHz	±2.5 / ±4.0 / ±5.0 kHz			

* 25 kHz channels not available in the US

Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

For more information on how to make your business more efficient and better connected, visit motorolasolutions.com/MOTOTRBO

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DIGITAL REMASTERED.