

# MOTOTRBO™ SLR 1000 REPEATER

## COVERAGE WITHOUT COMPLICATIONS



### GENERAL SPECIFICATIONS

	VHF	UHF
Frequency Range	136-174 MHz	400-527 MHz
Channel Spacing	12.5 / 20 / 25 kHz	
Frequency Stability	0.5 ppm	
Frequency Generation	Synthesized	
Channel Capacity	64	
RF Output Power	1-10 W	
Dimensions* (H x W x D)	279 x 229 x 102 mm (11 x 9 x 4 in)	
Weight*	4.54 kg (10 lbs)	
Input Voltage (DC)	12 V (11.0-15.5 V)	
Current (standby)	0.7 A (0.63 A typical)	
Current (transmitting at 10 W)	3A (typical)	
Input Power Modes	DC only, Optional AC/DC Power Supply Available	
Operating Temperature Range	-30 to +60 °C (-22 to +140 °F)	
Ingress Rating	IP65	
Max Duty Cycle	100%	
Digital Vocoder Type	AMBE+2™	
Connectivity, left side	Rx (N female)	
Connectivity, right side	Tx (N female)	
Connectivity, bottom	USB B Receptacle, 1x Ethernet, RJ45 Accessory Connector, DC Input	
Modes of Operation	Half Duplex / Duplex	

### GENERAL SPECIFICATIONS

	VHF	UHF
Supported System Types	Digital Conventional, IP Site Connect, Capacity Plus, Capacity Max, Connect Plus. Analogue Conventional, Digital Voting, MPT 1327.	
Audio Levels	Input: Unbalanced: Adjustable, 80 mV rms nominal for 60% RSD. Output: Unbalanced: Adjustable, 330 mV rms nominal @ 60% RSD.	
FCC Emission Designators	11K0F3E, 16K0F3E, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60F7W, 7K60FXW	
FCC Type Acceptance	ABZ99FT3096	ABZ99FT4100
IC Description	109AB-99FT3096	109AB-99FT4100

### RECEIVER

	VHF	UHF
Frequency Range	136-174 MHz	400-527 MHz
Sensitivity, 12dB SINAD	0.3 uV (0.22 uV typical)	
Sensitivity, 5% BER	0.25 uV (0.18 uV typical)	
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
Intermodulation Rejection (TIA603D/ETSI)	80 / 70 dB (82 / 73 dB typical)	
Spurious Rejection (TIA603D/ETSI)	85 / 75 dB (95 / 90 dB typical)	
Audio Distortion	< 3% (<1% typical)	
Hum and Noise, 12.5 / 20 / 25 kHz	-45 / -50 / -50 dB	
Blocking	-57 dBm	

\* Without brackets or other peripheral equipment



**TRANSMITTER**

	VHF	UHF
Frequency Range	136-174 MHz	400-527 MHz
RF Output Power	1-10 W	
Max Duty Cycle	100%	
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	62 / 78 / 78 dB	
Modulation Fidelity 4FSK	FSK Error 5% FSK Magnitude 1%	
Conducted Spurious Emissions	-36 dBm < 1 GHz, -30 dBm > 1 GHz	
Audio Response	TIA603D / ETSI	
Audio Distortion	<1%	
Hum and Noise, 12.5 / 20 / 25 kHz	-45 / -50 / -50 dB	
Rated System Deviation, 12.5 / 20 / 25 kHz	±2.5 / ±5.0 / ±5.0 kHz	

**ACCESSORIES**

HKAE4003	SLR 1000 antenna, 400-460 MHz
HKAE4004	SLR 1000 antenna, 440-495 MHz
HKAE4005	SLR 1000 antenna, 490-530 MHz
HKAD4003	SLR 1000 antenna, 136-154 MHz
HKAD4004	SLR 1000 antenna, 146-164 MHz
HKAD4005	SLR 1000 antenna, 160-174 MHz
PMLN7263	Extended range antenna switch kit
HKFE4000	Duplexer, 400-430 MHz (5-6.5 MHz Tx/Rx spacing)
HKFE4001	Duplexer, 430-480 MHz (5-6.5 MHz Tx/Rx spacing)
HKFE4002	Duplexer, 480-527 MHz (5-6.5 MHz Tx/Rx spacing)
HKFE4003	Duplexer, 400-430 MHz (10 MHz Tx/Rx spacing)
HKFE4004	Duplexer, 430-480 MHz (10 MHz Tx/Rx spacing)
HKFE4005	Duplexer, 480-527 MHz (10 MHz Tx/Rx spacing)
HKFD1000	Duplexer, 136-156 MHz (4-6 MHz Tx/Rx spacing)
HKFD1001	Duplexer, 154-174 MHz (4-6 MHz Tx/Rx spacing)
HKFD1002	Duplexer, 136-156 MHz (6-10 MHz Tx/Rx spacing)
HKFD1003	Duplexer, 154-174 MHz (6-10 MHz Tx/Rx spacing)
PMLN7213	Pole mount kit
BR000143A01	Wall mount bracket SAE1074
PMLN7771	SLR 1000 power adaptor kit for outdoor applications
PMLN7773	SLR 1000 power adaptor kit for indoor applications
30009477001	Repeater Programming Cable (USB-A to USB-B)

**PRODUCT MEETS:**

- ETSI 300-086
- ETSI 300-113
- TIA603D
- CE Marked
- RoHS2-Compliant
- UL Listed
- Digital Protocol ESTI TS 102 361-1, -2, -3 (DMR Tier II and III)

To get connected with MOTOTRBO, please contact your local Motorola Solutions representative or visit [motorolasolutions.com/MOTOTRBO](https://motorolasolutions.com/MOTOTRBO)

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