

ACCESSORIES

Motorola offers a wide range of original accessories to enhance your radio's functionality for every communication need. Motorola Original Accessories are built with the highest Motorola quality standards ensuring effectiveness and durability.

BENEFITS

Single Priority Scan

Monitor communications in different channels without the need for periodic manual changes. The most important channels can be monitored more frequently.

4 Channels

Easily organize your teams into different talkgroups. An ideal tool for complex operations where communication is key.

2 Programmable Buttons

Program the most common features for access at the touch of a button.

Internal Voice Operated Transmission (VOX)

With the use of an appropriate audio accessory, you can speak and listen to a radio conversation without having to use your hands.

Selective Radio Inhibit

The EM200 radio includes a security feature that enables the base station to remotely deactivate a radio unit. This feature is especially useful to prevent lost or stolen radios from compromising the integrity of your system. As soon as the radio is turned on, the base station sends a signal that disables all controls except the On/Off button.

FEATURES

- 4 Channels
- 1-Character Display
- Nuisance Channel Delete
- Single Priority Scan
- Busy Channel Lockout
- Repeater / Talkaround
- X-Pand ™
- Internal Voice Operated Transmission (VOX)
- Time-Out Timer
- CSQ / PL / DPL / inv-DPL
- MDC-1200 Signaling
- PTT-ID (encode)
- Radio Check (decode)
- Emergency (encode)
- Selective Radio Inhibit (decode)
- Quik-Call II Signaling
- Call Alert (decode)
- Voice Selective Call (decode)
- DTMF Signaling - PTT-ID (encode)
- 2 Programmable Buttons
- Monitor
- Internal Option Board Port



75 years of commitment. Motorola continues developing solid relations with its clients, based upon experience and technological quality.

A company recognized for its leadership, by offering innovative communication and nformation solutions.

The EM200 mobile includes several features to enhance performance including: 4 channels, 1 alphanumeric character display, PTT-ID transmission, selective radio inhibit, priority scan, and internal VOX, among others.

EM200[™] MOBILE RADIO

GENERAL	LOW POWER	HIGH POWER				
Dimensions	Len	ngth x Width x Height				
	44mm x 169mm x 118mm (1.73in. x 6.67in. x 4.64in.)					
Weight	1.02 Kg (2.25 lbs.)					
Current Drain (typical)						
Standby		300 mA				
Receive @ Rated Audio with 7.5W	external speaker @ 8 Ω	1.5A				
Transmit	7A @ 25W (VHF)	9.5A @ 45W (VHF)				
	8A @ 25W (UHF)	9A @ 40W (UHF)				
Model Numbers	136-162 MHz LAM50JNC9AA1_N	136-162 MHz LAM50JQC9AA1_N				
	146-174 MHz LAM50KNC9AA1_N	146-174 MHz LAM50KQC9AA1_N				
	403-440 MHz LAM50QNC9AA1_N	403-440 MHz LAM50QPC9AA1_N				
	438-470 MHz LAM50RNC9AA1_N	438-470 MHz LAM50RPC9AA1_N				
	465-495 MHz LAM50SNC9AA1_N	465-495 MHz LAM50SPC9AA1_N				
		490-527 MHz LAM50TPC9AA1_N				
Frequency Range / FCC Approval	136-162 MHz / ABZ99FT3048	136-162 MHz / ABZ99FT3049				
	146-174 MHz / AZ492FT3805	146-174 MHz / ABZ99FT3046				
	403-440 MHz / ABZ99FT4047	403-440 MHz				
	438-470 MHz / AZ492FT4856	438-470 MHz / ABZ99FT4048				
	465-495 MHz / ABZ99FT4063	465-495 MHz / ABZ99FT4049				
	490-527 MHz	490-527 MHz				
Channel Spacing	12.5 / 20 / 25 kHz					
Fraguancy Stability (-20%C to 60%C 2)	FSC Bof)	+2 5 ppm				

Frequency Stability (-30°C to 60°C, 25°C Ref.)

±2.5 ppm

TRANSMITTER	Low Power		High Power	RECEIVER	@1
RF Power Output	1 - 25W		25 - 45W (VHF)	Sensitivity (12 dE	3 SINAD) (t
			25 - 40W (UHF)	Intermodulation	-65dB (VI
Modulation Limiting	±2.5 @ 12.5kHz/±	4.0	@ kHz / ±5 @ 25 kHz	Adjacent	-65dB (VI
Hum and Noise (typical)	-40dB (VHF) @ 12.5 k	Hz	-45dB (VHF) @ 25 kHz	Channel Selectivi	ty
Conducted/	-36 dBm < 1 GHz / -30 dBm > 1 GHz		Spurious Rejectio	n	
Radiated Emissions				Rated Audio Inter	nal Speake
Audio Response (0.3 - 3	kHz) +	⊦1, 3	dB	Exter	nal Speake
Audio Distortion		3%)	Audio Distortion @	Rated Aud
				Hum and Noise	-4
					-3!
				Audio Response (0).3 – 3 kHz)

RECEIVER	@12.5 kHz	@ 25 kHz
Sensitivity (12 dB S	(typical) 0.	35µV
Intermodulation	-65dB (VHF) / -60dB (UHF)	-75dB (VHF) / -70dB (UHF)
Adjacent	-65dB (VHF) / -60dB (UHF)	-75dB (VHF) / -70dB (UHF)
Channel Selectivity		
Spurious Rejection	75dB (VHF), 70dB (UHF)
Rated Audio Interna	al Speaker	4W
Externa	I Speaker 1	3W
Audio Distortion @ F	lated Audio (typical)	3%
Hum and Noise	-40dB (VHF)	-45dB (VHF)
	-35dB (UHF)	-40dB (UHF)
Audio Response (0.3	- 3 kHz) ETS 300	and TIA 603
Spurious Emission	-57 dBm < 1 G⊦	lz / -47 dBm > 1 GHz
(conducted and rad	liated)	

MILITARY STANDARDS	810C	810C		810D		810E	
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures	
Temperature Shock	503.1	1	503.2	1	503.3	1	
Solar Radiation	505.1	1	505.2	1	505.3	1	
Salt Fog	509.1	1 (48 hours)	509.2	1 (48 hours)	509.3	1 (48 hours)	
Vibration	-	-	514.3	Cat. 1	514.4	Cat. 1	
Shock	516.2	1,3	516.3	1,5	516.4	1,5	

Specifications subject to change without notice. All specifications and electrical methods refer to EIA/TIA 603 standards.



Military Standards MIL-SPECS 810 C, D, E

Contact your Motorola Representative for more information.



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