



With
LTR® Trunking!

PM400™ Mobile

Conventional/LTR® Programmable Features

- 64 Conventional Channels
- System Scan
- 12.5/20/25kHz Switchable Channel Spacing
- Dual Priority Scan (Conventional Only)
- 2 Memory Channels (Conventional Only)
- Busy Channel Lockout (Conventional Only)
- Option Board Expandability
- High/Low Power Settings
- Local/Distance Mode
- Time-Out Timer

Conventional/LTR® Signalling Features

- MDC1200 Emergency (Encode - Conventional Only)
- MDC1200 PTT ID (Numeric ID - Encode/Decode)
- MDC1200 Selective Radio Inhibit (Decode)
- MDC1200 Radio Check (Decode)
- Quik Call II™ Call Alert (Encode/Decode - Conventional Only)
- Quik Call II™ Selective Call (Encode/Decode - Conventional Only)
- DTMF PTT ID (Encode - Conventional Only)
- DTMF Call Alert (Encode - Conventional Only)
- DTMF Selective Call (Encode - Conventional Only)

LTR® Features

- Up to 100 Talkgroups
- Mixed Assignment of Conventional Personalities & LTR® Talkgroups
- Up to 10 Sites & 100 Talkgroups
- Up to 20 Repeaters per Site
- Up to 4 Universal IDs per System
- Up to 40 Universal IDs per Radio
- User Programmable Scan & Phone Lists
- Data Operated Squelch (DOS)

Great care was taken in the design of the PM400 to ensure its ruggedness and reliability as well as its ease of use and functionality. The PM400 offers the most features and channels of any Motorola mobile in our Commercial Series and can be mounted in just about any vehicle. It also serves as an ideal desktop base station in the office or on the factory floor.

The PM400 is ideal for many businesses and industries such as agriculture, hospitality, light construction, light industrial, manufacturing, public administration, delivery services, security, taxi and limousine services, transportation/fleet and utilities.



For more information, contact:

PM400 Mobile Two-Way Radio Specifications*

General		VHF		UHF	
Channel Capacity		64		64	
Technical RF Output		Low	High	Low	High
		1-25W	25-45W	1-25W	25-40W
Frequencies		146-174MHz		438-470MHz, 465-495MHz	
Dimensions (H * W * L)		1.73" x 6.67" x 4.64" (44mm x 169mm x 118mm)		1.73" x 6.67" x 4.64" (44mm x 169mm x 118mm)	
Weight (radio only)		2.25 lbs (1.02 Kg)		2.25 lbs (1.02 Kg)	
Current Drain: Standby		0.3A		0.3A	
Rx@ rated, external 8 ohm speaker		1.5A		1.5A	
Transmit		7A (25W)	9.5A (45W)	8A (25W)	9A (40W)
FCC Description		AZ492FT3805 (25W)	ABZ99FT3046 (25-45W)	AZ492FT4856 (25W)	ABZ99FT4048 (25-40W) ABZ99FT4049 (25-40W)
Receiver		VHF		UHF	
Frequencies		146-174MHz		438-470MHz, 465-495MHz	
Channel Spacing		12.5/20/25kHz		12.5/20/25kHz	
Frequency Stability (-30 C + 60 C, +25 C)		+/-2.5ppm		+/-2.5ppm	
Sensitivity (12dB Sinad)		0.35µV (12.5kHz) 0.3µV (25kHz) typical		0.35µV (12.5kHz) 0.3µV (25kHz) typical	
Intermodulation		65dB (12.5kHz)	75dB (25kHz)	60dB (12.5kHz)	70dB (25kHz)
Adjacent Channel Selectivity		65dB (12.5kHz)	75dB (25kHz)	60dB (12.5kHz)	70dB (25kHz)
Spurious Rejection		75dB		70dB	
Rated Audio (extended audio with 4 ohm speaker)		4W internal	13W external	4W internal	13W external
Audio Distortion @ Rated Audio		3% typical		3% typical	
Hum and Noise		-40 dB (12.5kHz)		-35 dB (12.5kHz)	
		-45 dB (25kHz)		-40 dB (25kHz)	
Audio Response		+1, -3 dB		+1, -3 dB	
Conducted Spurious Emission		-57 dBm < 1GHz -47 dBm > 1GHz		-57 dBm < 1GHz -47 dBm > 1GHz	
Transmitter		VHF		UHF	
Frequencies		146-174MHz		438-470MHz, 465-495MHz	
Channel Spacing		12.5/20/25kHz		12.5/20/25kHz	
Frequency Stability (-30 C + 60 C, +25 C)		+/-2.5ppm		+/-2.5ppm	
Modulation Limiting		+/-2.5kHz (12.5kHz) +/-4kHz (20kHz) +/-5kHz (25kHz)		+/-2.5kHz (12.5kHz) +/-4kHz (20kHz) +/-5kHz (25kHz)	
FM Hum and Noise		-40 dB (12.5kHz)		-35 dB (12.5kHz)	
		-45 dB (25kHz)		-40 dB (25kHz)	
Conducted/Radiated Spurious Emission: 1-25 W		-36 dBm < 1GHz		-36 dBm < 1GHz	
25-45 W		-30 dBm > 1GHz -26dBm		-30 dBm > 1GHz -26dBm	
Adjacent Channel Power		-60 dB (12.5kHz)		-60 dB (12.5kHz)	
		-70 dB (25kHz)		-70 dB (25kHz)	
Audio Response		+1, -3 dB		+1, -3 dB	
Audio Distortion		3% typical		3% typical	
FM Modulation		11K0F3 (12.5kHz)		11K0F3 (12.5kHz)	
		16K0F3E (25kHz)		16K0F3E (25kHz)	

PM400 Mobile Military Standards

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Temperature Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Salt Fog	509.1	I (48 Hours)	509.2	I (48 Hours)	509.3	I (48 Hours)
Vibration	-	-	514.3	I, Cat. 1	514.4	I, Cat. 1
Shock	516.2	I, III	516.3	I, V	516.4	I, V
Rain	506.1	II	506.2	II	506.3	II
Dust	510.1	I	510.2	I	510.3	I

Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

*All specifications subject to change without notice.



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PM400 Environmental Specifications

Operating Temperature	- 30 C to + 60 C
Storage Temperature	- 40 C to + 85 C
Thermal Shock	- 40 C to + 80 C
Humidity	95% RH @ 8Hr
Water and Dust Intrusion	IP 54
Packing Test	Impact test