

The M3300 mobile is a digital two-way radio that provides

- Multi-Mode Operation
- Reliable Performance
- P25 Interoperability



The M3300 mobile is an affordable full-featured radio with a wide range of options and functionality to meet the demands of critical communications users.

Multiple Operating Modes

The M3300 mobile supports multiple operating modes, including P25 digital trunked mode, P25 digital conventional mode, and conventional analog mode.

Project 25 Interoperability

The M3300 mobile is Project 25 compliant and provides P25 trunking and P25 digital conventional operation. The mobile facilitates unencrypted digital interoperability with other Project 25 users during critical communications situations.

Reliable Performance

The heavy-duty aluminum frame allows the M3300 to perform in demanding environments. It meets MIL-STD-810F for shock and vibration, dust, humidity, low pressure, and temperature extremes and has an Ingress Protection rating of IP-54 for water and dust intrusion.

Software-Based Design

With its software-based design, the M3300 mobile is readily configurable and easily expandable to meet current and future user requirements.

Controller Options

Two types of controllers are available for use with the M3300: the Hand Held Controller and System Control Unit.

The Hand Held Controller (HHC) is ideal for space-

constrained environments and covert operations. The HHC has a large multi-line display, numeric keypad, and six programmable function keys.

The System Control Unit has an 8-line, 14-character display for high visibility and six programmable function keys. Navigation buttons allow users to scroll through menus to access radio setup and operating parameters. The structure of the menu can be programmed to meet the needs of specific users.

Flexible Mounting Options

Measuring approximately 2 inches high by 6-1/2 inches long, the M3300 mobile provides mounting flexibility. Its compact size makes it small enough to install easily in a variety of vehicle locations.

General Specifications

Dimensions (H x W x D):

2.2 x 6.7 x 6.5 in.
(56 x 170 x 165 mm)

Weight:

3.97 lb
(1.8 kg)

Operating Temperature:

-22 to +140°F
(-30 to +60°C)

Construction:

Cast Metal

Signaling:

P25 Trunking
P25 Conventional
Conventional
Channel Guard (CTCSS)
Digital Channel Guard

Options and Accessories

Remote mount kit, antennas,
System Control Unit, and
Hand Held Controller.



System Control Unit



Hand Held Controller

Transmitter

	VHF	UHF
Frequency Range (MHz):	136-174	335-400, 400-480, 440-520
Rated Power Output (W):	25	
Frequency Stability (ppm):	±2.5	
FM Hum and Noise:	>40 dB (12.5 kHz), >45 dB (25 kHz)	
Spurious Emissions:	<0.25µW<1GHz <1.0µW 1GHz – 12.75 GHz	
Channel Spacing (kHz):	25 (wideband), 12.5 (narrowband)	
Channels:	1000	
Systems:	64 (250 channels per system)	

Receiver

	VHF	UHF
Frequency Range (MHz):	136-174	335-400, 400-480, 440-520
Analog Sensitivity (12 dB SINAD):	0.3µV	
P25 Sensitivity (5% BER) (dBm):	-116	
Selectivity (dB)		
@ 12.5 kHz:	>65	
@ 25 kHz:	>73	
Intermodulation (dB):	>65 (ETS Method)	
Spurious Responses (dB):	70 (ETS)	
FM Hum and Noise:	>40 dB (12.5 kHz), >45 dB (25 kHz)	
Audio Output(W):	4/10	
Audio Distortion:	<5%	

Note: Numbers are per TIA-EIA-603 Methods except where noted.

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1
	High Temperature	501.4/1,2
	Low Temperature	502.4/1,2
	Temperature Shock	503.4/1
	Humidity	507.4/2
	Blowing Dust	510.4/1
	Vibration	514.5/1
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4

*Also meets equivalent superseded MIL-STD-810C, -D, and -E.

Digital Operation

Vocoding Method:	Improved MultiBand Excitation (IMBE™)
Modulation:	C4FM for P25

Regulatory Data

Frequency Range (MHz)	RF Output (W)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
136-174	25	STZSRM9000AC	Part 22, 90	7068A-M9000AC	RSS-119
400-480	25	STZSRM9000TU	Part 22, 90	7068A-M9000TU	RSS-119
440-520	25	STZSRM9000UW	Part 22, 90	7068A-M9000UW	RSS-119