

TM-8102 50W VHF (138-174 MHz)  
TM-8402A 40W UHF (400-470 MHz)  
TM-8402B 40W UHF (450-520 MHz)

**The TM-8000 Series** mobiles provide affordability and durability for your in-vehicle or dispatch applications. With crisp, continuous and high quality communications, you can have real time contact with drivers to ensure that your business is running efficiently. In addition, Maxon's mobile radios provide a wide range of voice and data features and the ability to create a portable repeater (and even crossband UHF/VHF) when you connect two repeaters with the TM-8000 repeater cable (XRC-31). Base station cabinet & installation services are also available for the TM-8000 series mobile.



- 512 Channels, Up to 32 Groups (Dynamic)
- Alpha Numeric Display (10 Characters)
- 12.5/15/25 kHz Channel Spacing
- User Selectable Squelch Control
- Compandered Audio
- CTCSS/DCS
- DTMF Encode/Decode, DTMF ANI
- 2-Tone Decode and 5-Tone Selcall
- Voice Inversion Scrambler
- Normal and Priority Scan Options
- User Adjustable Power, 40W (UHF) 50W (VHF)
- Remote Stun and Revive
- Four Programmable Function Buttons
- DE-15 Data Connector
- PA Function, External Speaker Jack



DTMF Palm  
Mic Available



## SPECIFICATIONS

### GENERAL

TM-8102	138-174 MHz
TM-8402A	400-470 MHz
TM-8402B	450-520 MHz
Channel Spacing	12.5/15 kHz (U.S. Only) 12.5/25 kHz (Outside U.S.)
Dimensions (H/W/D)	1.75 x 6.5 x 6.75" (45x165x171.5 mm)
Weight	38.9 oz. (1.1 kg.)
Operating Voltage	13.8 V DC
PLL Channel Step	2.5/6.25 kHz
Frequency Stability	± 1.5 PPM (1.1 Kg to 140°F)
Current Drain	50 W Tx-11A, 25 W Tx-6.5A Rx @ Max Audio 800 mA Standby 300mA
Operating Temperature	-22° to 140° F (-30° to 60° C)
External Audio Jack	3.5mm 4 Watt/4 Ω

### TRANSMITTER

Output Power	VHF 50 Watt, UHF 40 Watt
Spurious and Harmonic	70dB
FM Hum and Noise	40dB (12.5 kHz), 45dB (25 kHz)
Output Impedance	50 ohms
Audio Distortion	Less than 5% at rated output
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

### RECEIVER

Sensitivity	.25uV 12dB SINAD
Squelch Sensitivity	.22uV 10dB SINAD
Selectivity	65dB (12.5 kHz), 70dB (25 kHz)
Spurious and Harmonic	75dB
FM Hum and Noise	40dB (12.5 kHz), 45dB (25 kHz)
IF Frequencies	21.4 MHz and 455 kHz
Input Impedance	50 ohms
Audio Output Power	4 Watt
Audio Distortion	3% max w/ 1 kHz modulation
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

#### PACKAGE INCLUDES:

Radio, heavy duty microphone, mounting hardware, and 12V fused power cable.

Specifications are subject to change without notice.

## ACCESSORIES



### ACCESSORY OPTIONS

Heavy Duty Microphone  
 Heavy Duty DTMF Microphone  
 Extra-Long 37" mic cord option  
 10 Amp Power Supply 110V/220V AC  
 Programming Software and Cable (USB)  
 Base Station Cabinet & Installation  
 Desktop Base Station Microphone  
 External Speaker  
 XRC-31 Repeater Cable  
 12' or 20' Coax Mag Mount Base  
 VHF or UHF Wave Antenna

- 1 RSSI
- 2 Ignition Sense
- 3 External Speaker
- 4 Audio Frequency Out
- 5 External Mic
- 6 Tx Data 1
- 7 Rx Data 1
- 8 External Push To Talk
- 9 Flat (discriminator) Audio
- 10 COR/Carrier Operated Squelch
- 11 External Input
- 12 DC +5.0V
- 13 Horn Relay 1
- 14 Horn Relay 2
- 15 Ground



DE-15 Female

Approvals	FCC	Industry Canada
TM-8102	099TM-8102	9680A-TM8102
TM-8402A	099TM-8402A	9680A-TM8402A
TM-8402B	099TM-8402B	N/A



Manufactured to ISO-9001:2000 quality standard.

NOTE: Some features indicated by specifications listed are prohibited by FCC rule and are not available on models sold in the U.S. or its territories.

# maxon<sup>®</sup>

Maxon America, Inc.

11535 W. 83rd Terrace Lenexa, KS 66214

Tel: (800) 456-2071 - Tel: (913) 859-9515

Fax: (913) 859-9550

Web: [www.maxonamerica.com](http://www.maxonamerica.com)

E-mail: [maxon@maxonamerica.com](mailto:maxon@maxonamerica.com)