

# TECNET

## TM-8000 Series

Full Featured Mobile Radio

TM-8102 - 50 Watt VHF (136-174 MHz)  
TM-8402A - 40 Watt UHF (400-470 MHz)  
TM-8402B - 40 Watt UHF (450-520 MHz)

- 512 Channels, Up to 32 Groups
- 128 X 32 Alpha Numeric Dot Matrix Display (10 Characters)
- Compatible with 12.5 kHz or 15 kHz channel spacing in the U.S.
- Compatible with 12.5 or 25 kHz channel spacing outside the U.S.
- User Selectable Squelch Level
- Compandered Audio
- CTCSS/DCSS Enc/Dec
- DTMF Encode/Decode, DTMF ANI
- 2 Tone Decode and 5 Tone Encode/Decode
- Voice Scrambler - Inversion
- Emergency Call Mode and Open Mic Operation
- Multiple Normal and Priority Scan Options
- Multiple Transmit Options for Scanning
- Busy Channel Lockout

**3** YEAR  
WARRANTY



- Programmable Home Channel Function
- Nuisance Channel Delete
- User Adjustable Power, 10W, 20W, 30W, and 40W(UHF)/50W(VHF) settings
- Remote Stun/Revive/Kill
- Programmable Function Buttons
- Data Port (DE-15)
- Ignition On/Off Option. Horn Alert
- PA Function, External Speaker Jack
- PC Programmable and Tuning
- Meets Mil Std 810F



# TM-8000 Series

## Full Featured Mobile Radio

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.

### Specifications

#### GENERAL

TM-8102	50W	VHF (136-174 MHz)
TM-8402A	40W	UHF (400-470 MHz)
TM-8402B	40W	VHF (450-520 MHz)
Channels		512 Channels, 32 Groups
Channel Spacing		12.5/15 kHz (U.S.) 12.5/25 kHz outside the U.S.
PLL Channel Step		2.5 kHz, 6.25 kHz
Frequency Stability		± 2.5 ppm (-122° to 140F°)
Power Requirement		13.8 V DC
Current Drain		50 W Tx-11A, 25 W Tx-6.5A Rx @ Max Audio 800 mA Standby 300 mA
Temperature Range		-22° to 140° F, -30° to +60° C
Dimension (H/W/L)		6.5/1.75/6.75 in
Weight		38.9 oz (2.4 lbs)
Environment		Meets Mil Std 810F
Data Port		15 pin Hi-Density D
External Audio Jack		3.5 mm 8Ω



Manufactured to ISO-9001:2000 standard.

#### Transmitter

Output Power	TM-8102 50 Watt VHF TM-8402 40 Watt UHF
Max. Freq Deviation	5 kHz/2.5 kHz W/N
Spurious and Harmonic	-70 dBc
FM Hum & Noise	40 dB@12.5 kHz 45 dB@25 kHz
Audio Distortion	< 2% Int., < 10% Ext.

#### Receiver

Sensitivity	.25 uV (12dB SINAD)
Adjacent Ch Reject.	-70 dB @ 12.5 kHz -70 dB @ 25 kHz
Spurious Response	-75 dB
Selectivity	-70 dB
Audio Output	4W

#### Data Port Pin Out

- 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



DE-15 Female

- 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

### Accessories

- Heavy Duty Microphone
- Heavy Duty DTMF Microphone
- Power Supply 110/220V AC
- PC Programming Cable (USB)
- PC Programming Software
- Desktop Base Station Microphone
- External Speaker

### Standard Package

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

#### FCC / Industry Canada

TM-8102	099TM-8102 / 9680A-TM8102
TM-8402A	099TM-8402A / 9680A-TM8402A
TM-8402B	099TM-8402B

### Contact Information



TecNet International, Inc.

11535 W. 83rd Terrace, Lenexa, KS 66214

Tele: 800-456-2071 Toll Free U.S.

Tele: 913-859-9515

FAX: 913-859-9550

Web: www.tecnetusa.com

e-mail: tecnet@tecnetusa.com