

## KEY FEATURES

Private one-to-one and private one-to-many calls

Customer Programming Software (CPS) for easy programming

Effective and affordable on-site communications

2.4 GHz ISM license-free band

Frequency hopping spread spectrum (FHSS) for security and interference avoidance

Private-call reception, return, origination, and audio/VibraCall® vibration alert

Public-group calling—up to 50 public groups

Private-group calling—up to 20 private groups

Short Message Service (SMS) text messaging reception and origination

Preset messages for quick and easy response—25 available with 10 preprogrammed

Free-form messages (via optional Mini Keyboard)

SMS time/date stamping

Battery gauge

High-capacity lithium ion battery—up to 23 hours of operation per full charge

1-hour desktop charger (optional)

Swivel carry holster included

Private- and group-call name aliasing (via optional Mini Keyboard or CPS)

Rugged, compact polycarbonate housing with rubber overmold for comfort—132 mm H x 58 mm W x 36 mm D

Meets military 810 C, D, E, and F specifications for shock, vibration, water, dust and temperature extremes

2-pin audio accessory jack with captive connector cover

Connector programming interface with captive connector cover

Alert reminder tone

Caller ID

Recent call list—last 20 transmissions

Call forwarding

150-unit contact list (shared group/private)

Remote-disable and remote-monitor receipt

Remote-disable and remote-monitor origination

Over-the-air time and date update origination and receipt



# DTR2450™

## Digital On-Site Two-Way Radio

### The Digital Difference

What makes the DTR2450 perfect for your on-site operation? Digital technology. It enables enhanced coverage\* and optimum battery life. And digital audio quality—which stays loud and clear everywhere you have coverage.

Moreover, each unit has its own unique 11-digit identification, bringing you new calling options:

#### DIGITAL ONE-TO-ONE CALLING

Allows you to call and talk privately with a specific user's radio. A private-call recipient can receive an alert, and the recipient's radio displays the caller's ID.

#### DIGITAL ONE-TO-MANY CALLING

Public group call—all other DTR Series™ radios on the same group ID and channel hear communications, similar to analog radios.

Private group call—allows you to set up selected user groups and communicate privately and securely within the group.

\* Coverage will vary based on terrain and conditions.

## SPECIFICATIONS

Frequency	2400 MHz ISM FHSS
Contact List Capacity	100 (Shared Group/Private)
Default Programming	5 Public Groups
Power Supply	3.8 V $\pm$ 0.4 V
Dimensions	132 mm H x 58 mm W x 36 mm D (5.2" H x 2.3" W x 1.4" D)
Weight:	
with 1200 mAH Li-Ion Battery	215 grams
with 1500 mAH Li-Ion Battery	221 grams
Average Battery Life @ 5-5-90 Duty Cycle:	
with 1200 mAH Li-Ion Battery	18 Hrs.
with 1500 mAH Li-Ion Battery	23 Hrs.
FCC Designation	AZ489FT5842
IC Designation	109U-89FT5842

## RECEIVER SPECIFICATIONS

Sensitivity: (3% BER Sensitivity)	-125 dBm
Frequency Stability: (-30° C to +60° C)	$\pm$ 0.0005% ( $\pm$ 5 PPM)
Spur Rejection	55 dB
Blocking Immunity:	
Interferer from $\pm$ 500 kHz to $\pm$ 1 MHz	75 dB
Interferer from $\pm$ 1 MHz to $\pm$ 15 MHz	80 dB
Audio Output @ < 5% Distortion	100 mW

## TRANSMITTER SPECIFICATIONS

RF Output	100 mW
Channel Spacing	50 kHz
Frequency Stability: (-30° C to +60° C)	$\pm$ 0.0005% ( $\pm$ 5 PPM)
Spurs/Harmonics	500 $\mu$ V/m (3 m)
Audio Distortion	<3%
TX ACCPR	-50 dBc
FCC Modulation	8-level FSK 900 MHz ISM FHSS



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