

KEY FEATURES

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

Customer Programming Software (CPS) for easy programming

On-site communications with coverage comparable to, or better than, PMR446 products*

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 included

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. All comparison claims made against Motorola XTN446 analog radio models.

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 uV/m (3 m) |
| Audio Distortion | <3% |
| TX ACCPR | -50 dBc |
| FCC Modulation | 8-level FSK 900 MHz ISM FHSS |



Motorola Limited, EMEA Headquarters

Jays Close, Viabes Industrial Estate, Basingstoke, RG22 4PD, UK
Telephone: +44 (0)1256 358211

www.motorola.com

MOTOROLA and the Stylised M Logo are registered in the U.S. Patent and Trademark Office.
All other product or service names are the property of their respective owners.
© Motorola, Inc. 2006. All rights reserved.

DTR2450-RE(08/06)

For more information contact your local Motorola
Authorised Dealer.

