



DTR410™

Digital On-Site Two-Way Radio



900 MHz ISM **license-free band**

Digital one-to-many group call

Frequency hopping spread spectrum (FHSS)

Private Call—to talk privately with a specific user's radio

Public-group calling—up to 25 groups or "channels" can be added to the contact list

SMS Messaging—10 Quick Notes (20 available)

Battery Life 14.5 hours (5/5/90)

Scroll List—to quickly access group or private contacts

Lithium ion battery—up to 14.5 hours of operation per full charge

3-hour **desktop charger** included

Swivel carry holster

Public group call name aliasing—rather than numbers for increased ease-of-use (optional Programming Software or Mini Keyboard required)

Rugged, compact **polycarbonate housing** with rubber overmold for comfort—5.2" H x 2.3" W x 1.4" 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

Full-graphic backlit display with contrast adjustment and backlight timer

Clock/alarm

Caller ID—indicates both transmitting radio ID or name and call type

Remote Disable—to deactivate a radio over-the-air for increased fleet maintenance

Remote Monitor—allows you to key up a radio's microphone remotely for emergency situations or employee monitoring

Remote Time

Recent call list—last 20 transmissions

Up to **100-unit contact list** (shared group/private)

Unit-to-unit configuration cloning (via optional Cloning Cable)

Coverage of up to 300,000 sq. ft. or 25 floors*

The Digital Difference

What makes the DTR410 perfect for your on-site operation? Digital technology. It enables coverage extended by 20%.* Up to 45% longer operation on a single charge.* And digital audio quality—which stays loud and clear everywhere you have coverage.

Each unit has its own unique 11-digit identification, bringing you new group 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.

*Coverage will vary based on terrain and conditions. All comparison claims made against Motorola CP100/XU2600 analog radio models. High capacity battery used.

General Specifications

	DTR410
Frequency	900 MHz ISM FHSS
Contact List Capacity	Up to 100-unit contact list (shared group/private)
Default Programming	20 Public Groups
Power Supply	3.8V \pm 0.4V
Dimensions	132.3mm H x 57.2mm W x 35.4mm D (5.2" H x 2.3" W x 1.4" D)
Weight: with 1200 mAh Lilon Battery with 1500 mAh Lilon Battery	200.2g (7.1oz.) 205.7g (7.3oz.)
Average Battery Life @ 5-5-90 Duty Cycle: with 1200 mAh Lilon Battery with 1500 mAh Lilon Battery	14.5 Hrs. 19 Hrs.
FCC Description	AZ489FT5842
IC Description	109U-89FT5842

Receiver

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

Transmitter

RF Output	1W
Channel Spacing	50 kHz
Frequency Stability: (-30° C to +60° C)	\pm 0.0005% (\pm 5PPM)
Spurs/Harmonics	500 μ V/m (3m)
Audio Response: (from 6 dB/oct. Preemphasis, 300 to 3000 Hz)	+1, -3 dB
Audio Distortion @ 1000 Hz, 60% Rated Max. Dev.	<3%
TX ACCPR	-50 dBc
FCC Modulation	8-level FSK 900 MHz ISM FHSS

Specifications subject to change without notice. All specifications shown are typical.
Radio meets applicable regulatory requirements.
11/07



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MDD/DTR410SPEC