

DTR410™

Digital On-Site Two-Way Radio

SPECIFICATION SHEET



KEY FEATURES

- 900 MHz ISM license-free band
- Digital one-to-many group call
- Frequency hopping spread spectrum (FHSS)
- Public-group calling—up to 5 public groups
- Battery gauge
- 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 (via optional Mini Keyboard)
- 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
- Daily alarm
- Caller ID
- Recent call list—last 20 transmissions
- Up to 5 group contact list
- 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-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

Frequency	900 MHz ISM FHSS
Contact List Capacity	Up to 5 Group contact list
Default Programming	5 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 Li-Ion Battery	200.2g (7.1oz.)
with 1500 mAH Li-Ion Battery	205.7g (7.3oz.)
Average Battery Life @ 5-5-90 Duty Cycle:	
with 1200 mAH Li-Ion Battery	14.5 Hrs.
with 1500 mAH Li-Ion Battery	19 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% ($\pm$ 5PPM)
Spur Rejection	55 dB
Blocking Immunity:	
Interferer from $\pm$ 500 KHz to $\pm$ 1 MHz	75 dB
Interferer from $\pm$ 1MHz to $\pm$ 15 MHz	80 dB
Audio Output @ < 5% Distortion	1W

TRANSMITTER SPECIFICATIONS

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.Premphasis, 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



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