



# DTR410™ DIGITAL ON-SITE TWO-WAY RADIO

## MAKE COMMUNICATING EASIER FOR EVERYONE

Communication between employees is important to the success of any business operation. Whether they're coordinating an event or responding to tenants, checking in guests or making repairs, clear, continuous communication throughout your business makes all the difference.

That's why our DTR410™ Digital On-Site Two-Way Radio is the ideal business solution. With enhanced in-building coverage, loud, clear audio and no monthly fees or contracts, it delivers all the benefits of digital at an exceptional value. Plus the operational advantages more businesses seek – from increasing productivity and improving customer service to reducing costs.

### HEAR CLEAR ACROSS THE COVERAGE AREA

The DTR410 digital radio enables employee communication wherever their job takes them. So if they're managing an office building or maintaining order at school, they can count on expanded in-building coverage – up to 300,000 square feet or 25 floors of uninterrupted communication.

Noisy environments won't interrupt employee communication either, with digital audio that stays loud and clear, up to the edge of coverage, without static or dead zones. Plus they'll get longer talk time – up to 19 hours with the extended capacity battery – all from a single charge.\*

### TALK PRIVATELY OR PUBLICLY

Thanks to digital technology, each DTR410 radio features a unique 11-digit identification number to provide even greater versatility. Unlike analog radios, multiple group communications can occur simultaneously on the same channel.

Employees can talk to one person or many with such calling options as:

#### Digital One-to-Many Group Calling

Make a public group call up to 25 groups selected from 50 public group IDs. All other DTR radios on the same group ID and channel can hear communications, similar to an analog radio.

#### Digital One-to-One Private Calling

Call and talk privately with a specific user. The recipient receives an audible alert to indicate a private call. The recipient's radio also displays the caller's ID.

What's more, important privacy features like frequency hopping spread spectrum offer enhanced security for business communications by using up to 500 license-free frequencies separated into 10 non-overlapping groups.

### CONNECT MORE EFFICIENTLY

The DTR410 has plenty of features that help employees work more productively. Whether it's a private reply to a group call, a call list of the last twenty transmissions or a short messaging service with 10 pre-programmed messages and up to 20 programmable messages with time and date stamping.

Along with business-essential features like Customer Programming Software (CPS) to customize to any business application, a remote disable and monitor if the radio is missing or lost, the DTR410 offers an audio alert to keep communications discreet and not disturb others.

### TOUGHNESS THAT WORKS OVERTIME

Rugged and reliable, the DTR410 meets U.S. Military 810 C, D, E and F Standards for shock, vibration, water, dust and temperature extremes - so it will stand up to the most demanding conditions, from late nights in hotel security to long shifts in industrial environments.



\* Coverage will vary based on terrain and conditions.

**PRODUCT SPEC SHEET**  
DTR410™ DIGITAL RADIO

## KEY FEATURES

900 MHz ISM License-free Band  
Frequency Hopping Spread Spectrum (FHSS)  
Digital One-to-Many Group Call  
Digital One-to-One Private Call  
Public Group Call: Up to 25 public groups selected from 50 public group IDs  
Private Reply with a group call  
Public Group Call Name Aliasing via customer programming software  
Rugged, compact  
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  
Lithium Ion Battery: Up to 14.5 hours of operation per full charge  
Coverage: Up to 300,000 square feet or 25 floors\*  
Full-graphic backlit display with contrast adjustment and backlight timer

Battery Gauge  
Daily Alarm  
Caller ID  
Recent Call List: Last 20 transmissions  
DTR Short Messaging Service:  
10 pre programmed messages and 10 programmable messages with time and date stamping  
DTR SMS Tool via PC  
Unit-to-Unit Configuration Cloning:  
via optional cloning cable  
Talk Permit Tone Independent Volume Control  
Call Alert  
Customer Programming Software (CPS)  
Option via CPS to disable front panel radio programming  
Remote Disable and Monitor  
Over the Air (OTA) Update fleet configuration and contact information

### GENERAL SPECIFICATIONS

Frequency	900 MHz ISM FHSS
Contact List Capacity	Up to 100 group/private combination Public Groups max 25 Private Id max 100
Power Supply	3.8V ± 0.4V
Dimensions	132.3 x 57.2 x 35.4mm 5.2 x 2.3 x 1.4 inches
Weight with 1200 mAh Li-Ion Battery	200.2g (7.1oz.)
Average Battery Life @ 5-5-90 Duty Cycle with 1200 mAh Li-Ion Battery	14.5 Hrs
FCC Designation	AZ489FT5842
IC Designation	109U-89FT5842

### RECEIVER SPECIFICATIONS

Sensitivity (3% BER Sensitivity)	-125 dBm
Frequency Stability (-30° C to +60° C)	± 0.0005% (± 5PPM)
Spur Rejection	55 dB
Blocking Immunity	
Interferer from ±500 KHz to ±1 MHz	75 dB
Interferer from ±1MHz to ±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)	± 0.0005% (± 5PPM)
Spurs/Harmonics	500 uV/m ( 3m)
Audio Response (from 6dB/oct. Preemphasis, 300 to 3000 Hz)	+1, -3dB
Audio Distortion	<3%
TX ACCPR	-50 dBc
FCC Modulation	8-level FSK 900 MHz ISM FHSS

#### ACCELERATED LIFE TEST

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured, and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

All specifications subject to change without notice.

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