

DTR700

RELIABLE DIGITAL COMMUNICATIONS

THE ABILITY TO COMMUNICATE AND SOLVE PROBLEMS IN REAL TIME IS CRITICAL TO ENSURING SEAMLESS AND EFFICIENT BUSINESS OPERATIONS.

With Motorola Solutions' license free DTR700 Series radios, digital on-site communication is easier and more reliable than ever. Your team can communicate quickly, solve problems rapidly and address unexpected situations – ultimately improving operational efficiency and customer satisfaction. Motorola Solutions' DTR Series radios are the perfect partner for your business – delivering all the benefits of reliable digital communications and interference free, private communications.

FEATURES

- 900MHz license free radios
- Wide area coverage
- Flexible call options
- Scan
- Over the air contact cloning
- Remote monitoring\enable\disable
- Quick text
- Call alert
- Loud and clear audio



DTR700



KEY FEATURES



SLIM, RUGGED DESIGN

Compact and IP54 rated. A durable design meets U.S. Military 810G standards for shock, vibration, water, dust and temperature extremes - so it will operate in the harshest working conditions.



VIBRANT COLOR DISPLAY

A full-graphic, backlit display uses brightness adjustment to provide a crisp and clear image, while an intuitive navigation menu helps you quickly and easily locate all radio features.



CALL ALERT

Send a signal to another radio before you call to ensure the receiver is aware of the call request.



PROMINENT FUNCTIONAL KEYS

Programmable button can be used to quickly access call features like Call All/Page All, to talk to radios without searching through your channel list.



ANTIMICROBIAL HOUSING PROPERTIES

The radio housing contains built-in antimicrobial properties that prevent growth of mold and germs* resulting in stain-resistant and orderless devices.

*The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always clean this product thoroughly before and after each use. Does not apply to accessories.



LICENSE FREE, HASSLE FREE

Designed for business operations, the DTR Series radio will free your time from regulatory paperwork and licensing applications and saving radio licensing fees.

TAKE COVERAGE AND CLARITY FURTHER

Your team will enjoy expanded in-building coverage – up to 350,000 sq. ft. (or 30 floors indoors) with the standard whip antenna. Digital audio quality stays loud and clear – up to the edge of coverage – without static or dead zones.

INTERFERENCE FREE, PRIVATE COMMUNICATIONS

Take advantage of private communications and quickly set up for radio fleet with a unique Radio Profile ID Number. By choosing from 10,000 available codes, you can assure privacy from other neighboring radios.

Leverage Frequency Hopping Spread Spectrum (FHSS) technology for more reliable and private communication when compared to standard analog radios.

FLEXIBLE CALL OPTIONS

With up to 200 entries for individual private contacts, private groups and public groups your team can handle the unique needs of different business operations.

Digital One-to-One Private Calling allows private communications with a specific user to free the radio channel from unnecessary back and forth chatter. The recipient receives an alert – either audible or vibrating – and their radio displays the caller ID.

Digital One-to-Many Group Calling enables public group calls. All other DTR Series radios on the same group ID and channel can hear communications.

MANAGE REMOTELY

Remote Monitoring helps you supervise a situation without being present, by allowing you to listen in.

Remote Enable/Disable gives the ability to remotely enable or disable a radio in the event communication with the team is unsuitable for business.

THE PERFECT PARTNER FOR BUSINESS COMMUNICATION



Retail Stores

Easily locate a clerk to check stock and coordinate restocking operations.

Education

Keep teachers, administrators, crossing guards and maintenance crews in touch so they can respond quickly – preventing small problems from escalating into bigger problems. Facilitate and manage school events and activities efficiently and keep everyone safe by enabling constant communication among staff members.

Restaurants

Ensure tables are ready quickly and customers enjoy their dining experience by seamlessly communicating with restaurant staff.

Hospitality

Keep your staff connected - from the front desk concierge, to event planners and maintenance personnel. This means faster response to guest requests, at special events and emergencies resulting in overall better customer satisfaction.

GENERAL SPECIFICATIONS		DTR700
Channels		50
Frequency		900 MHz ISM FHSS
Range coverage		350k sq ft 30 floors ¹
License Free Band		Licensed by the Federal Communications Commission (FCC) and Industry Canada to operate in the license-free 900 MHz ISM (Industrial, Scientific and Medical) band
Dimensions		5.06" H x 2.2" W x 1.06" D (128.5mm H x 56mm W x 27mm D)
Weight		7.87oz. (223 g)

ENERGY SPECIFICATIONS	
Battery	3.7V ± 0.5V
Battery Life	16.5 hrs ²

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-30°C to +60°C (Radio) ³
Storage Temperature	-40°C to +85°C (Radio) ³
Dust and Water Intrusion	IEC 60529 IP54

TRANSMITTER SPECIFICATIONS	
RF Output	1W
Channel Spacing	50kHz
Frequency Stability (-30°C to 60°C)	± 1PPM
TX Spurious Emissions - radiated	<54dBuV/m (3m)
Audio Distortion	<3%
TX ACPR	-50dBc
FCC Modulation	8-level FSK 900MHz FHSS

RECEIVER SPECIFICATIONS	
Preamble Sensitivity	-125dBm
Frequency Stability (-30°C to +60°C)	± 1PPM
RX Spur Emissions - radiated	<43.5dBuV/m (3m)
Blocking Immunity: ±500 kHz to ±1 MHz	75dB
Blocking Immunity: ±1 MHz to ±15 MHz	80dB
Audio Output @ <5% distortion	1W

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.6	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.6	I/A1, II/A1
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.6	I/C3, II/C1
Temperature Shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	I	503.6	I-C
Solar Radiation	505.1	II	505.2	I/Hot-Dry	505.3	I/Hot-Dry	505.4	I/Hot-Dry	505.6	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.6	I, III
Humidity	507.1	II	507.2	II/hot-humid	507.3	II/hot-humid	507.4	-	507.6	II/Agg
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-	509.6	-
Dust	510.1	I, II	510.2	I, II	510.3	I, II	510.4	I, II	510.6	I, II
Vibration	514.2	VIII/F, W, XI	514.3	I/10, II/3	514.4	I/24, II/5	514.5	I/24, II/5	514.7	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.7	I, IV

DTR radios meet test methods from Military Standards 810, C,D,E,F and G including shock, vibration, extreme temperatures and dust. DTR radios also satisfy environmental and energy efficiency certifications (CE/CEC, ROHS and WEEE).

1: Coverage depends on terrain and environmental conditions.

2: Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

3: Radio only. Battery specifications may be different.

Specifications subject to change without notice. All specifications shown are typical values

DTR SERIES ACCESSORIES



HKLN4601



HKLN4604



HKLN4599



PMLN7939

AUDIO ACCESSORIES

Comfortable and extended wear, these audio accessories provide prominent push-to-talk features and hands free communication.

HKLN4599	Earpiece with in-line microphone and push-to-talk
HKLN4601	Surveillance with in-line microphone and push-to-talk
HKLN4604	Swivel Earpiece with in-line microphone and push-to-talk

CARRY ACCESSORIES

Wear the radio on your belt so you can be hands free.

PMLN7939	Swivel Clip Holster
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PMAF4024



PMAF4025

ANTENNAS

Choose between two antenna options to compliment your work environment.

PMAF4024	900MHz (902-928MHz) Whip Antenna
PMAF4025	900MHz (902-928MHz) Stubby Antenna



PMMN4578



PMPN4468



PMPN4465

BATTERIES, CHARGERS AND CABLES

Keep your radios functioning at all times with these energy essentials. Charge your Lithium Ion batteries in single or multi-charging docks.

PMPN4465	6-Pocket Multi Unit Charger Kit
PMPN4468	Single Unit Charger (Tray Only)
PMPN4469	Single Unit Charger Kit (Tray + 3W Power Supply)
PMMN4578	Li-ion 2500 mAh, 3.7v Battery
HKKN4027	Business Radio Programming CPS Cable
HKKN4028	Business Radio Cloning Cable
PS000228A01	3W Power Supply
PS000227A11	5W Quick Charge Power Supply

For more information, please visit www.motorolasolutions.com/DTR700



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