



# MOTOTRBO™ DP3441 PORTABLE RADIO

NOW YOU'RE READY FOR ANYTHING



You have to be agile while you stay connected. You need an unobtrusive radio that's tough enough to handle workplace abuse, but doesn't get in your way. Now there's an extra-small portable that gives you all of that, plus all the advanced features of digital technology to elevate communications in your business.

Versatile and powerful, MOTOTRBO™ combines the best of two-way radio functionality with the latest analogue and digital technology. The MOTOTRBO portfolio gives you the right device for the right user, from voice-only portables to feature-rich voice and data radios.

Incredibly compact and exceptionally rugged, the MOTOTRBO DP3441 is the perfect solution for the professional on the move. It integrates voice and data seamlessly, offers enhanced features that are easy to use, and delivers business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The DP3441 fits comfortably in your hand, so you can carry it easily. Place it on your belt in its custom carry holster and move freely while you stay light on your feet. It's loaded with all the benefits of the latest digital technology – superb audio quality, amazing clarity, outstanding coverage, long-lasting battery life and more.

The DP3441 keeps you agile and in touch in tough work environments, helping you to achieve even greater efficiency and safety.

## FEATURES

- Analogue / Digital
- Voice / Data
- Compact, Rugged Form Factor
- Intelligent Audio
- Enhanced Privacy
- IMPRES™ Audio
- Bluetooth Audio
- Bluetooth Data
- Integrated GPS Receiver
- Emergency Button
- Dual Capacity Direct Mode
- Digital Mobile Radio (DMR) Standards Compliant
- Integrated Analogue 5 Tone Signalling
- Voice Announcement
- IP67 Rated
- Radio Management Suite
- Transmit Interrupt
- Over The Air Programming (OTAP)
- IP Site Connect
- Capacity Plus
- Linked Capacity Plus

SMALL, TOUGH AND POWERFUL, FOR THE DEMANDING PROFESSIONAL WHO WANTS TO STAY LIGHT ON THEIR FEET

### HEAR AND BE HEARD CLEARLY OVER NOISE

When it comes to exceptional audio quality, digital technology can't be beaten. DP3441 portables give you digital audio performance throughout your coverage area plus unique features to help employees hear and be heard clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise. Workers don't have to adjust their radio volume to avoid missing a call in loud places or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external sounds – from heavy equipment to crowd noise.

### UNLEASH THE POWER OF YOUR RADIO

To get the best from your DP3441 radio, combine it with Motorola Original® accessories. These are the only ones designed, tested and built to the same standard as Motorola radios, helping ensure optimal performance. To view the range of batteries, headsets, Remote Speaker Microphones and more that are available, see the separate DP3441 Accessories Fact Sheet.

### STREAMLINE THE WORKDAY WITH INTEGRATED DATA

DP3441 portable radios feature integrated Bluetooth® to share information wirelessly and instantly between devices. Now rather than waiting until the end of a shift, busy work crews can send real-time data directly to the office, saving time and enhancing decision-making.

Integrated GPS enables location tracking of mobile work teams, helping improve personnel safety and operational efficiency. And if an emergency occurs, you can pinpoint security personnel and quickly despatch the nearest to the scene.

### WATER AND DUST-TIGHT TOUGH

Drop it, wet it, submerge it, blast it with dust and dirt. The DP3441 powers through harsh environments and inhospitable conditions so your teams have reliable communications to do their jobs, safely and efficiently – whether they're a grounds crew on a golf course or a private security team on campus.

The DP3441 is IP67-rated, and meets or exceeds U.S. Military Standard 810 C, D, E, F, & G for exceptional durability. It also undergoes the unique and grueling Motorola Accelerated Life Testing that simulates up to five years of hard use in the most challenging environments, so you can be assured it will last.

### MIGRATE AT YOUR OWN PACE

It's easy to migrate from analogue to digital because DP3441 can operate in both modes. Programme channels in analogue or digital mode and the radio will scan both, automatically switching as necessary, so you can use your existing analogue system and move to digital when time and budget allow.

### INTEGRATE YOUR DEVICES SEAMLESSLY

Make sure your new MOTOTRBO system is ready when you are. We can bring together the right experts and processes to help you integrate DP3441 radios into your existing system, quickly and cost-effectively. This includes Coverage Mapping, Site Integration, Device Programming and IP Networking Services.

### GET DURABILITY THAT ENDURES

MOTOTRBO radios are made to last and backed by a two-year Standard Warranty, with 1-year warranty for batteries and Motorola-branded accessories. In addition, Service from the Start provides multi-year peace of mind with fast repair turnaround times, expert telephone technical support and access to the latest software releases<sup>1</sup>; all backed by Motorola's globally integrated services infrastructure, highly qualified support technicians and certified repair facilities.

## MOTOROLA ACCELERATED LIFE TESTING PROGRAM



#### RAIN

Steady rainfall and wind on every surface



#### BLOWING DUST

Subjected to blowing dust on all surfaces



#### VIBRATION

Prolonged exposure to vibration that simulates the rigors a radio could undergo while being carried or transported



#### DROP ONTO HARD SURFACE

Simulates everyday bumps, knocks and rough treatment



#### SALT FOG

Testing to ensure resistance to corrosive atmospheres



#### TEMPERATURE STORAGE

Repeated exposure to storage temperatures as low as -55°C and as high as 70°C

**PRODUCT SPEC SHEET**  
MOTOTRBO™ DP3441 PORTABLE RADIO

GENERAL SPECIFICATIONS		
	NON-DISPLAY	
	VHF	UHF
Channel Capacity	32	
Frequency	136-174 MHz	403-527 MHz
Radio dimensions, when equipped with Slim Standard Li-Ion (1600 mAh) Battery (PMNN4440)		
Height (H)	100 mm	
Width (W)	63 mm	
Thickness (T)	34 mm	
Weight	254 g	
Power Supply	7.5V (Nominal)	
Operating Temperature	-30°C <sup>1</sup> / +60°C	
IC Description	109U-89FT3833	109U-89FT4914
BATTERY		
Average battery life at 5/5/90 duty cycle with carrier squelch and transmitter in high power. <sup>2</sup>		
Slim Standard Li-Ion (1600 mAh) Battery (PMNN4440)	Analogue: 8.5 hrs Digital: 12.3 hrs	
RECEIVER		
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Analogue Sensitivity (12 dB SINAD) Typical	0.3 uV (0.22 uV typical)	
Digital Sensitivity (5% BER)	0.25 uV (0.19 uV typical)	
Intermodulation (TIA603D)	70 dB	
Adjacent Channel Selectivity (TIA603A)-1T	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	
Adjacent Channel Selectivity (TIA603D)-2T	45 dB @ 12.5 kHz 70 dB @ 20/25 kHz	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5 W	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	
TRANSMITTER		
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Low Power Output	1 W	
High Power Output	5 W	4 W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz ± 4.0 kHz @ 20 kHz ± 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz	
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	
Audio Response	TIA603D	
Audio Distortion	3%	
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination of 12.5 kHz Voice and Data: 7K60F1W	
Digital Vocoder Type	AMBE +2™	
Digital Protocol	ETSI TS 102 361-1, -2, -3	



Specifications subject to change without notice. All specifications shown are typical unless otherwise stated.

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**GPS**

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at nominal -130 dBm signal strength)

TFFF (Time To First Fix) - Cold Start	< 60 seconds
TFFF (Time To First Fix) - Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

**BLUETOOTH**

Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 2, 10 metres
Profiles Supported	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Devices Supported	Radio supports 1 Bluetooth audio accessory and 1 Bluetooth data device simultaneously

**MILITARY STANDARDS**

Applicable MIL-STD	810C		810D		810E		810F		810G	
	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	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	501.5	I/A1, II
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I, II
Temperature Shock	503.1	–	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	–	507.5	II
Salt fog	509.1	–	509.2	–	509.3	–	509.4	–	509.5	–
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-30°C <sup>1</sup> / +60°C
Storage Temperature	-40°C / +85°C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IEC 60529 - IP67
Packaging Test	MIL-STD 810F and G

Testing completed using portable radio with attached battery and antenna.

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<sup>1</sup> Software release covers patches and maintenance releases of the current version to the operating system i.e. that shipped with the terminal.  
<sup>2</sup> Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.  
<sup>3</sup> Radio only - Li-Ion battery -10°C.



**MOTOTRBO™**  
 DIGITAL REMASTERED.

For more information on the MOTOTRBO™ DP3441, visit [motorolasolutions.com/mototrbo](http://motorolasolutions.com/mototrbo) or find your closest Motorola representative or authorised Partner at [motorolasolutions.com/contactus](http://motorolasolutions.com/contactus)

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EMEA version 1 (07/2013)

