



# MOTOTRBO™ DP3441e

## YOU'RE READY FOR ANYTHING

With this dynamic evolution of MOTOTRBO digital two-way radios, you're more agile, better connected and safer. The DP3441e is designed for the mobile professional who needs effective communications. With a compact design and high performance integrated voice and data, these next-generation radios deliver comprehensive connectivity to your organisation.

### AGILE

The MOTOTRBO DP3441e is a tough and compact ETSI DMR Standards compliant digital radio. Its small form factor makes it conveniently portable, with an efficient short antenna that won't get in your way. It's tested to military standards for extreme ruggedness, and is rated IP68 for almost complete immunity to dust and water. It won't let you down even in harsh environments.

### CONNECTED

The DP3441e delivers operations-critical voice and data communications. Bluetooth® audio lets you talk without wires, integrated Wi-Fi® enables remote software updates, and indoor and outdoor locationtracking capabilities give you total visibility of your resources. With support for trunking as well as legacy analogue technology, you can keep your organisation connected as it grows.

### SAFE

Safeguard your staff with responsive push-to-talk technology. The prominent orange emergency button on the DP3441e summons help with one touch, using Transmit Interrupt to clear a channel when necessary. An integrated accelerometer senses if you've fallen, and can initiate a call for assistance.



### WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated accelerometer for optional Man Down feature
- Bluetooth® 4.0
- Indoor location tracking
- Multi-constellation GNSS for increased location accuracy
- Integrated Wi-Fi
- Over-the-air software updates
- Enhanced audio quality
- Improved expandability
- Better range (up to 8%)
- Better waterproofing (IP68)

**PRODUCT DATA SHEET**  
MOTOTRBO™ DP3441E  
DIGITAL TWO-WAY RADIO



|  |                  |             |
|--|------------------|-------------|
| Model Number   | DP3441e          |             |
| Band   | VHF              | UHF         |
| GENERAL SPECIFICATIONS                                 |                  |             |
| Frequency  | 136-174 MHz      | 403-527 MHz |
| High Power Output                                      | 5 W              | 4 W         |
| Low Power Output                                       | 1 W              | 1 W         |
| Channel Spacing  | 12.5, 20, 25 kHz |             |
| Channel Capacity                                       | 32               |             |
| Dimensions (H x W x D), Radio + 1600mAh Li-ion Battery | 100 x 56 x 30 mm |             |
| Weight, Radio + 1600mAh Li-ion Battery                 | 254 g            |             |
| Digital / Analogue Battery Life¹                       | 16.0 / 12.0      |             |
| Power Supply (Nominal)                                 | 7.5 V            |             |



PRODUCT DATA SHEET  
MOTOTRBO™ DP3441E  
DIGITAL TWO-WAY RADIO

| TRANSMITTER SPECIFICATIONS             |  |
|--|--|
| Channel Spacing                        | 12.5, 20, 25 kHz   |
| 4FSK Digital Modulation                | 12.5 kHz Data: 7K60F1D and 7K60FXD<br>12.5 kHz Voice: 7K60F1E and 7K60FXE<br>Combination of 12.5 kHz Voice and Data: 7K60F1W |
| Digital Protocol                       | ETSI TS 102 361-1, -2, -3  |
| Conducted/Radiated Emissions (TIA603D) | -36 dBm < 1GHz, -30 dBm > 1GHz   |
| Adjacent Channel Power                 | 60dB (12.5 kHz)<br>70dB (20 / 25 kHz)  |
| Frequency Stability                    | ± 0.5 ppm  |

| RECEIVER SPECIFICATIONS                    |   |
|--|---|
| Analogue Sensitivity (12dB SINAD)          | 0.16 uV                                 |
| Digital Sensitivity (5% BER)               | 0.14 uV                                 |
| Intermodulation (TIA603D)                  | 70 dB                                   |
| Adjacent Channel Selectivity, (TIA603A)-1T | 60 dB (12.5 kHz)<br>70 dB (20 / 25 kHz) |
| Adjacent Channel Selectivity, (TIA603D)-2T | 45 dB (12.5 kHz)<br>70 dB (20 / 25 kHz) |
| Spurious Rejection (TIA603D)               | 70 dB                                   |

| AUDIO SPECIFICATIONS                   |   |
|--|---|
| Digital Vocoder Type                   | AMBE+2™                                   |
| Audio Response                         | TIA603D                                   |
| Rated Audio                            | 0.5 W                                     |
| Audio Distortion at Rated Audio        | 3%  |
| Hum and Noise                          | -40 dB (12.5 kHz)<br>-45 dB (20 / 25 kHz) |
| Conducted Spurious Emissions (TIA603D) | -57 dBm                                   |

NOTES  
1: Typical battery life, 5/5/90 profile at maximum transmitter power with GNSS, Bluetooth, Wi-Fi and Option Board applications disabled.  
Actual observed runtimes may vary.  
2: Radio only. Battery operation down to -10 °C only.

| Military Standards |              |               |              |              |              |              |              |               |              |              |
|--------------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
|                    | 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            | 500.5        | II           |
| High Temp          | 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/A1  |
| Low Temp           | 502.1        | I             | 502.2        | I/C3, II/C1  | 502.3        | I/C3, II/C1  | 502.4        | I/C3, II/C1   | 502.5        | I/C3, II/C1  |
| Temp Shock         | 503.1        | I             | 503.2        | A1/C3        | 503.3        | A1/C3        | 503.4        | I             | 503.5        | I-C          |
| Solar Radiation    | 505.1        | II            | 505.2        | I/Hot-Dry    | 505.3        | I/Hot-Dry    | 505.4        | I/Hot-Dry     | 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/Hot-Humid | 507.3        | II/Hot-Humid | 507.4        | -             | 507.5        | II/Hot-Humid |
| Salt Fog           | 509.1        | I             | 509.2        | I            | 509.3        | I            | 509.4        | -             | 509.5        | -            |
| Dust               | 510.1        | I, II         | 510.2        | I, II        | 510.3        | I, II        | 510.4        | I, II         | 510.5        | I, II        |
| Vibration          | 514.2        | VIII/F, W, XI | 514.3        | I/10, II/3   | 514.4        | I/10, II/3   | 514.5        | I/24, II/5    | 514.6        | I/24, II/5   |
| Shock              | 516.2        | II            | 516.3        | I, IV        | 516.4        | I, IV        | 516.5        | I, IV         | 516.6        | I, IV        |

| BLUETOOTH SPECIFICATIONS    |   |
|-----------------------------|---|
| Version                     | 4.0   |
| Range                       | Class 2, 10 m   |
| Supported Profiles          | Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk. |
| Simultaneous Connections    | 1 x audio accessory and 1 x data device   |
| Permanent Discoverable Mode | Optional  |

| GNSS SPECIFICATIONS           |              |
|-------------------------------|--------------|
| Constellation Support         | GPS, GLONASS |
| Time To First Fix, Cold Start | < 60 s       |
| Time To First Fix, Hot Start  | < 10 s       |
| Horizontal Accuracy           | < 5 m        |

| Wi-Fi SPECIFICATIONS        |                                |
|-----------------------------|--------------------------------|
| Standards Supported         | IEEE 802.11b, 802.11g, 802.11n |
| Security Protocol Supported | WPA, WPA-2, WEP                |
| Maximum Number of SSIDs     | 64                             |

| ENVIRONMENTAL SPECIFICATIONS |                                 |
|------------------------------|---------------------------------|
| Operating Temperature²       | -30 °C to +60 °C                |
| Storage Temperature          | -40 °C to +85 °C                |
| Electrostatic Discharge      | IEC 61000-4-2 Level 4           |
| Dust and Water Intrusion     | IEC 60529 - IP68, 2 m for 2 hrs |
| Packaging Test               | MIL-STD 810D and E              |

CONNECTION

- VHF Band, 5 W
- UHF Band, 4 W
- 32 Channels
- Analogue and Digital
- Voice and Data
- Integrated Wi-Fi
- Canned Text Messaging
- Multi-constellation GNSS
- High Efficiency GNSS
- Event-Driven Location Update
- Bluetooth Audio
- Bluetooth Data
- Bluetooth Permanent Discoverable Mode
- Bluetooth Indoor Location Tracking
- Voice Announcement
- Text to Speech
- Option Board
- Home Channel Reminder

AUDIO

- Intelligent Audio
- IMPRES Audio
- SINC+ Noise Cancellation
- Acoustic Feedback Suppressor
- User-Selectable Audio Profiles
- Switch Speaker
- Trill Enhancement

PERSONALISATION

- Wide Range of Accessories
- 2 Programmable Buttons
- Emergency Button

MANAGEMENT

- Radio Management
- Over-the-Air Programming
- Over-the-Air Software Update

SAFETY

- Integrated Accelerometer
- Man Down
- Lone Worker
- Basic Privacy
- Enhanced Privacy
- AES256 Encryption
- Transmit Interrupt (decode)
- Transmit Interrupt (encode)
- Emergency
- Emergency Search Tone
- Remote Monitor
- Radio Disable / Enable
- Waterproof to IP68
- Rugged to MIL-STD 810

SYSTEMS

- Direct Mode (including Dual Capacity Direct Mode)
- IP Site Connect (Single and Multi-Site)
- Capacity Plus (Single and Multi-Site)
- Capacity Max

- Standard feature
- Optional feature

## BLUETOOTH

Connect to your radio without wires, for extra comfort and safety. A full portfolio of Bluetooth headsets and earpieces is available.



## REMOTE SPEAKER MICROPHONE

Improve usability with a Remote Speaker Microphone (RSM). Choose from standard, heavy duty and noise-cancelling models, with or without secondary earpiece connector.



## ENERGY SOLUTIONS

Make sure your radio is powered and charged properly, with our range of energy solutions. Includes custom insert for IMPRES chargers.



## EARPIECES

For all-day comfort, choose from our range of earpieces. Lightweight or heavy duty, discreet or rugged, with or without built-in hearing protection.



## COVERT ACCESSORIES

When you need to stay in touch discreetly, choose from our range of covert audio accessories. From clear tube earpieces to virtually invisible wireless in-ear units.



## HEADSETS

In a noisy workplace, you need to protect your workers' hearing. Whether it's heavy duty noise reduction or innovative temple transducer technology, our headsets can help.



To get connected with MOTOTRBO, visit [www.motorolasolutions.com/mototrbo](http://www.motorolasolutions.com/mototrbo) or find your closest Motorola representative or authorised Partner at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus)

**MOTOTRBO™**  
DIGITAL REMASTERED.

Motorola Solutions Ltd. Jays Close, Viabes Industrial Estate, Basingstoke, Hampshire, RG22 4PD, UK.

Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. Wi-Fi is a registered trademark of the Wi-Fi Alliance®. All other trademarks are the property of their respective owners. © 2016 Motorola Solutions, Inc. All rights reserved.

EAv1 (05/16)



Taxitronic Norbert Pahlow GmbH  
26160 Bad Zwischenahn  
Krosshoff 12  
Deutschland  
[www.elmeradio.de](http://www.elmeradio.de)  
+49(0)44115000