MOTOTRBO[™] DP4000e SERIES

YOU'RE COMPLETELY CONNECTED

The DP4000e Series is designed for the skilled professional who refuses to compromise. With high performance integrated voice and data, as well as advanced features for efficient operation, these next-generation radios deliver complete connectivity to your organisation.

FEATURES

CONNECTION

- VHF Band, 5 W
- UHF Band 4 W
- 300 MHz Band, 4 W FKP Models: Colour screen.
- full keypad, 1000 channels
- · LKP Models: Colour screen, limited keypad, 1000 channels
- · NKP models: No screen or keypad, 64 channels
- Analogue and Digital
- Voice and Data
- Integrated Wi-Fi
- Canned Text Messaging Freeform Text Messaging
- (FKP models)
- Work Order Ticketing
- 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
- Vibrate alert
- Home Channel Reminder

AUDIO

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

PERSONALISATION

- Wide Range of Accessories
- Multi-Button PTT
- 5 Programmable Buttons (3 for DP4400e/DP4401e)
- Emergency Button

MANAGEMENT Badio Management

- Over-the-Air Programming
- Over-the-Air Software Update
- IMPRES Energy
- · IMPRES Battery Management
- Over-the-Air Battery Management

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
- TIA4950 HazLoc Certification
- 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

2 ABC

5-јкі

8 TUV

0 0



0 |+ | H MOTOTRBO Day/Nt Contact

P2

5 8

3 DEF

6 MNO

9wxyz

🖻

MOTOROLA

Ch1

P1

BB OK

1 ..?

4 GHI

7 PORS

* ∢

CONNECTED

The MOTOTRBO DP4000e Series is a family of ETSI DMR Standards compliant digital radios that delivers operation-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 DP4000e Series radios 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. The radio is tested to military standards and is waterproof to IP68. It won't let you down.

EFFICIENT

Text messaging and Work Order Ticketing simplify complex communications and data capabilities support advanced applications. Featuring a powerful audio amplifier, these radios deliver loud, clear speech, with industrial noise cancellation for better intelligibility. The latest energy technology delivers up to 28 hours of battery life for 3-shift working, and an improved receiver boosts range by up to 8% compared to previous models.

BLUETOOTH

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

SMART ENERGY

Motorola's patented IMPRES Energy technology gives you smart batteries to keep your radio powered for longer. Choose from a range of batteries, chargers and management tools.

CARRY SOLUTIONS

However you choose to wear or carry your radio, we have a solution for you. From leather cases to belts and belt clips to bags, straps and pouches.

VIBRATING BELTCLIP

When it's unacceptable to miss calls in a noisy environment, equip your radios with a powerful vibrating belt clip for an extra physical alert.

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.

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.

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.











| | No Keypad (NKP) Model DP4401e, DP4400e ¹ | | | Limited Keypad (LKP) Model DP4601e, DP4600e ¹ | | | Full Keypad (FKP) Model DP4801e, DP4800e ¹ | | | |
|--|---|-------------|---------------------------------|--|---------------------------------|---------------------------------|---|-----------------------------|-------------|--|
| Model Number | | | | | | | | | | |
| Band | VHF | 300MHz | UHF | VHF | 300MHz | UHF | VHF | 300MHz | UHF | |
| GENERAL SPECIFICATIONS | | | | | | | | | | |
| Frequency | 136-174 MHz | 300-360 MHz | 403-527 MHz | 136-174 MHz | 300-360 MHz | 403-527 MHz | 136-174 MHz | 300-360 MHz | 403-527 MHz | |
| High Power Output | 5 W | 4 W | 4 W | 5 W | 4 W | 4 W | 5 W | 4 W | 4 W | |
| Low Power Output | 1 W | 1 W | 1 W | 1 W | 1 W | 1 W | 1 W | 1 W | 1 W | |
| Channel Spacing | | | | | 12.5, 20 ² , 25 kHz | | | | | |
| Channel Capacity | 64 | | | 1000 | | | 1000 | | | |
| NiMH 1400mAh IP68 Battery | | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 37 mm | | | 130 x 55 x 39 mm | | | 130 x 55 x 39 mm | | | |
| Weight with Radio | 380 g | | | 405 g | | | 405 g | | | |
| Digital / Analogue Battery Life ³ | 13.0 / 10.0 hrs 12.0 / 9.5 hrs | | 13.0 / 10.0 hrs | 12.0 / 9.5 hrs | | 13.0 / 10.0 hrs | 12.0 / 9.5 hrs | | | |
| IMPRES Li-Ion 1950mAh IP68 Batte | ery | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 40 mm | | | 130 x 55 x 41 mm | | | 130 x 55 x 41 mm | | | |
| Weight with Radio | 319g | | | 344g | | | 344g | | | |
| Digital / Analogue Battery Life ³ | 19 / 14.0 hrs 18 / 13.5 hrs | | | 19 / 14.0 hrs | / 14.0 hrs 18 / 13.5 hrs | | | 19 / 14.0 hrs 18 / 13.5 hrs | | |
| IMPRES Li-Ion 2100mAh IP68 Batte | ery | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 34 mm | | 130 x 55 x 36 mm | | | 130 x 55 x 36 mm | | | | |
| Weight with Radio | 295 g | | 330 g | | | 330 g | | | | |
| Digital / Analogue Battery Life ³ | 20.0 / 15.0 hrs 19.0 / 14.5 hrs | | 20.0 / 15.0 hrs 19.0 / 14.5 hrs | | | 20.0 / 15.0 hrs 19.0 / 14.5 hrs | | | | |
| IMPRES Li-Ion 2450mAh IP68 Batte | ery | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 40 mm | | 130 x 55 x 41 mm | | | 130 x 55 x 41 mm | | | | |
| Weight with Radio | 322g | | 347g | | | 347g | | | | |
| Digital / Analogue Battery Life ³ | 22.0 / 17.0 hrs 21.5 / 16.5 hrs | | 22.0 / 17.0 hrs | 2.0 / 17.0 hrs 21.5 / 16.5 hrs | | 22.0 / 17.0 hrs 21.5 / 16.5 hrs | | | | |
| IMPRES Li-Ion 2900mAh IP68 Batte | ery | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 40 mm | | | 130 x 55 x 41 mm | | | 130 x 55 x 41 mm | | | |
| Weight with Radio | 380 g | | 405 g | | | 405 g | | | | |
| Digital / Analogue Battery Life ³ | 28.0 / 21.0 hrs 27.0 / 20.5 hrs | | 28.0 / 21.0 hrs 27.0 / 20.5 hrs | | 28.0 / 21.0 hrs 27.0 / 20.5 hrs | | | | | |
| IMPRES Li-Ion 3000mAh IP67 Batte | ery | | | | | | | | | |
| Dimensions with Radio (H x W x D) | 130 x 55 x 40 mm | | | 130 x 55 x 41 mm | | | 130 x 55 x 41 mm | | | |
| Weight with Radio | 325 g | | | 350 g | | | 350 g | | | |
| Digital / Analogue Battery Life ³ | 29.0 / 21.5 hrs | 28.0 / 2 | 21.5 hrs | 29.0 / 21.5 hrs | 28.0 / | 21.5 hrs | 29.0 / 21.5 hrs | 28.0 / | 21.5 hrs | |

ALL MODELS

| Channel Spacing | 12 5 20 ¹ 25 kHz | | | | | |
|--|---|--|--|--|--|--|
| | 12.5, 20 ¹ , 25 kHz | | | | | |
| 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 Protocol | ETSI TS 102 361-1, -2, -3 | | | | | |
| | DMR Tier II and DMR Tier III | | | | | |
| Conducted/Radiated Emissions (TIA603D) | -36 dBm < 1GHz, -30 dBm > 1GHz | | | | | |
| Adjacent Channel Power | 60dB (12.5 kHz), 70dB (20 ² / 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), 70 dB (20 ² / 25 kHz channel) | | | | | |
| Adjacent Channel Selectivity, (TIA603D)-2T & (TIA603C)-2T | 45 dB (12.5 kHz), 70 dB (20 ² / 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), -45 dB (20 ² / 25 kHz) | | | | | |
| Conducted Spurious Emissions (TIA603D) | -57 dBm | | | | | |

| 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 | 128 (64 for LKP and NKP models) | | | | |
| ENVIRONMENTAL SPECIFICA | rions | | | | |
| Operating Temperature ⁴ | -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 | | | | |
| HAZLOC CERTIFICATION | | | | | |

When properly equipped with Motorola UL-Approved battery, UL-Approved to TIA-4950 for use in Hazardous Locations, Division 1, Class I, II, III, Groups C, D, E, F, G; Division 2, Class 1, Groups A, B, C, D, T3C. Tamb = -25°C to +60°

NOTES

1: Bluetooth, GNSS and Wi-Fi only included on DP4401e, DP4601e and DP4801e.

2: 20 kHz channel not available for 300MHz models. 3: 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. 4: Radio only. Specialised low-temperature battery required for operation below -10 °C.

MILITARY STANDARDS

| MILLIART 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 | 11 | 500.3 | | 500.4 | 11 | 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 |

For more information on the MOTOTRBO DP4000e, visit or find your closest Motorola Solutions representative or authorised Partner at

Motorola Solutions Ltd. Nova South, 160 Victoria Street, London, SW1E 5LB, United Kingdom.

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. All other trademarks are the property of their respective owners. © 2023 Motorola Solutions, Inc. All rights reserved. (07-23)



