MOTOTRBO™ DP4000e SERIES

YOU'RE COMPLETELY CONNECTED

With this dynamic evolution of MOTOTRBO digital two-way radios, you're better connected, safer and more productive. The DP4000e Series is designed for the skilled professional who refuses to compromise. With high performance integrated voice and data, and advanced features for efficient operation, these next-generation radios deliver complete connectivity to your organisation.

CONNECTED

The MOTOTRBO DP4000e Series is a family of DMR-standard digital radios that delivers operations-critical voice and communications. Bluetooth® audio lets you talk without wires, integrated Wi-Fi enables remote software updates, and indoor and outdoor location-tracking 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 tough to military standards and is waterproof to IP68. It won't let you down.

PRODUCTIVE

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 further.

WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated accelerometer for optional Man Down
- Bluetooth® 4.0
- Indoor location tracking
- Multi-constellation GPS for increased location accuracy
- Integrated Wi-Fi
- Over-the-air software updates
- Enhanced audio quality
- Improved expandability
- Better battery life (up to 28 hrs)
- Better range
- Better waterproofing (IP68)

	Full Keypad (FKP) Model			Limited Keypad (LKP) Model		No Keypad (NKP) Model		
Model Number	DP4800e, DP4801e*			DP4600e, DP4601e*		DP4400e^, DP4401e*		
Band	VHF	UHF	800#	VHF	UHF	VHF	UHF	800#
GENERAL SPECIFICATIONS								
Frequency	136-174 MHz	403-527 MHz	806-825 MHz, 851-870 MHz	136-174 MHz	403-527 MHz	136-174 MHz	403-527 MHz	806-825 MHz, 851-870 MHz
High Power Output	5 W	4 W	2.5 W	5 W	4 W	5 W	4 W	2.5 W
Low Power Output	1 W	1 W	1 W	1 W	1 W	1 W	1 W	1 W
Channel Spacing	12.5, 20, 25 kHz							
Channel Capacity	1000			1000		32		
Dimensions (H x W x D), Radio + Standard 2250 mAh Battery	130 x 55 x 41 mm			130 x 55 x 41 mm		130 x 55 x 40 mm		
Weight, Radio + Standard 2250 mAh Battery	347 g			347 g		322 g		
Dimensions (H x W x D), Radio + Slim 2050 mAh Battery	130 x 55 x 36 mm			130 x 55 x 36 mm		130 x 55 x 34 mm		
Weight, Radio + Slim 2050 mAh Battery	325 g			325 g		300 g		
Dimensions (H x W x D), Radio + High Capacity 3000 mAh Battery	130 x 55 x 41 mm			130 x 55 x 41 mm		130 x 55 x 40 mm		
Weight, Radio + High Capacity 3000 mAh Battery	347 g			347 g		322 g		
Digital / Analogue Battery Life[1], Standard 2250 mAh Battery	22 / 16.5 hrs	21 / 16 hrs	21 / 17.5 hrs	22 / 16.5 hrs	21 / 16 hrs	22 / 16.5 hrs	21 / 16 hrs	21 / 17.5 hrs
Digital / Analogue Battery Life[1], Slim 2050 mAh Battery	20 / 15 hrs	19 / 14.5 hrs	19 / 15.5 hrs	20 / 15 hrs	19 / 14.5 hrs	20 / 15 hrs	19 / 14.5 hrs	19 / 15.5 hrs
Digital / Analogue Battery Life[1], High Capacity LV 3000 mAh Battery	29 / 22 hrs	28 / 21.5 hrs	28 / 23 hrs	29 / 22 hrs	28 / 21.5 hrs	29 / 22 hrs	28 / 21.5 hrs	28 / 23 hrs
Power Supply (Nominal)	7.5 V							

ALL MODELS

TRANSMITTER SPECIFICATIONS

Channel Spacing	12.5, 20, 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
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1GHz, -30 dBm > 1GHz
Adjacent Channel Power	60dB (12.5 kHz channel), 70dB (20 and 25 kHz channel)
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 channel), 70 dB (20 and 25 kHz channel)
Adjacent Channel Selectivity, (TIA603D)-2T & (TIA603C)-2T	45 dB (12.5 kHz channel), 70 dB (20 and 25 kHz channel)
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 channel), -45 dB (20 and 25 kHz channel)
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. Specialised low-temperature battery required for operation below -10 °C.
Specifications are subject to change without notice. All specifications shown are typical values.

* DP4401e, DP4601e and DP4801e models include GNSS, Bluetooth and Wi-Fi as standard.
\# Only available in New Zealand.
^ DP4400e model not available in 800 MHz band.

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 SPECIFICATIONS

Operating Temperature[2]	-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
Packaging Test	MIL-STD 810D and E

HAZLOC CERTIFICATION

UL-Approved to TIA-4950 for use in Hazardous Locations, Division 1, Class I, II, III, Groups C,D,E, F, G; Division 2, Class1, Groups A,B,C,D when properly equipped with Motorola UL-Approved battery.

CONNECTION
- VHF Band, 5 W
- UHF Band, 4 W
- FKP Models: Colour screen, full keypad, 1000 channels
- LKP Models: Mono screen, limited keypad, 1000 channels
- NKP models: No screen or keypad, 32 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 Discovery 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
- Microphone Distortion Control
- User-Selectable Audio Profiles
- Switch Speaker
- Trill Enhancement

CUSTOMISATION
- Wide Range of Accessories
- ○ Multi-Button PTT
- 5 Programmable Buttons (3 for NKP model)
- Emergency Button

MANAGEMENT
- ○ Radio Management
- ○ Over-the-Air Programming
- ○ Over-the-Air Software Update*
- ○ IMPRES Battery Management
- ○ Over-the-Air Battery Management

SAFETY
- Integrated Accelerometer
- ○ Man Down
- ○ Lone Worker
- Basic Privacy
- Enhanced Privacy
- ○ AES Encryption
- Transmit Interrupt
- Emergency
- Emergency Search Tone
- Remote Monitor
- Radio Disable / Enable
- ○ HazLoc Certification
- Waterproof to IP68
- Rugged to MIL-STD 810

SYSTEMS
- Dual Capacity Direct Mode
- Conventional
- IP Site Connect
- Capacity Plus
- ○ Capacity Max
- ○ Connect Plus

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

○ Optional

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.

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.

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.

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.

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.

SCREEN PROTECTORS

In ultra-harsh environments, your radio's screen can get scratched and abraded. Keep it clear and readable with these durable pre-cut screen protectors.

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.

For more details on DP4000e accessories, please download the MOTOTRBO Professional Accessories Catalogue.

To get connected with MOTOTRBO, please contact your local Motorola representative or visit motorolasolutions.com.au

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DIGITAL REMASTERED.

MOTOROLA SOLUTIONS