

### **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, 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
- Event-Driven Location UpdateBluetooth Audio
- · Bluetooth Data
- Bluetooth Permanent
   Discoverable Mode
- · Bluetooth Indoor Location Tracking
- Voice Announcement
- Text to Speech
- Option Board
- Vibrate alert
- Vibrate alert
   Home Channel Reminder

# AUDIO

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

### PERSONALISATION

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

### MANAGEMENT

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



MOTOROLA

□ |÷| H

MOTOTRBO

Day/Nt Contact

2 ABC

0 4

P2

3 DEF 6 MNO 9 WXYZ

Ch 1

### **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 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 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			Limited Keypad (LKP) Model			Full Keypad (FKP) Model			
Model Number	DP4401e, DP4400e <sup>1</sup>			DP4601e, DP4600e <sup>1</sup>			DP4801e, DP4800e <sup>1</sup>			
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, 20², 25 kHz					
Channel Capacity		32		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 <sup>3</sup>	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 <sup>3</sup>	19 / 14.0 hrs 18 / 13.5 hrs			19 / 14.0 hrs	9 / 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 <sup>3</sup>	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 <sup>3</sup>	22.0 / 17.0 hrs 21.5 / 16.5 hrs		22.0 / 17.0 hrs	s 21.5 / 16.5 hrs		22.0 / 17.0 hrs 21.5 / 16.5 hrs		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 <sup>3</sup>	28.0 / 21.0 hrs	27.0 / 2	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)	nsions 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 <sup>3</sup>	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 <sup>1</sup> , 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 DMR Tier III					
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1GHz, -30 dBm > 1GHz					
Adjacent Channel Power	60dB (12.5 kHz), 70dB (20 <sup>2</sup> / 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 <sup>2</sup> / 25 kHz channel)					
Adjacent Channel Selectivity, (TIA603D)-2T & (TIA603C)-2T	45 dB (12.5 kHz), 70 dB (20² / 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 <sup>2</sup> / 25 kHz)					
Conducted Spurious Emissions (TIA603D)	-57 dBm					

/ersion	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	TIONS			
Operating Temperature <sup>4</sup>	-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				

Hazardous Locations, Division 1, Class I, II, III, Groups C, D, E, F, G; Division 2, Class 1, Groups A, B,

#### 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										
	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	1, 11	506.4	1, 111	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	1	509.4	-	509.5	-
Dust	510.1	I, II	510.2	I, II	510.3	I, II	510.4	I, II	510.5	1, 11
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

C, D, T3C. Tamb = -25°C to  $+60^{\circ}$ 

For more information on the MOTOTRBO DP4000e, visit www.motorolasolutions.com/mototrbo or find your closest Motorola Solutions representative or authorised Partner at www.motorolasolutions.com/contactus

