

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

- 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

MRadiod Lanesement

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

- 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



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MOTOTRBO

Contact

P2

5

3 DEF 6 MNO 9wxyz # 5

Day/Nt

Ch 1

P1

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	DP4401e, DP4400e1 DP4601e, DP4600e1			21	DP4801e, DP4800e1					
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, 202, 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 Life3	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 Life3	19 / 14.0 hrs	18 / 13	3.5 hrs	19 / 14.0 hrs	18 / 13.5 hrs		19 / 14.0 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 Life3	20.0 / 15.0 hrs	nrs 19.0 / 14.5 hrs		20.0 / 15.0 hrs	19.0 / 14.5 hrs		20.0 / 15.0 hrs	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 Life3	22.0 / 17.0 hrs	21.5 / 1	6.5 hrs	22.0 / 17.0 hrs	21.5 /	16.5 hrs	22.0 / 17.0 hrs	21.5 / 1	6.5 hrs	
IMPRES Li-Ion 2900mAh IP68 Batte	ery									
Dimensions with Radio (H x W x D)	adio (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 Life3	28.0 / 21.0 hrs	27.0 / 2	0.5 hrs	28.0 / 21.0 hrs	27.0 /	20.5 hrs	28.0 / 21.0 hrs	27.0 / 2	0.5 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 Life3	29.0 / 21.5 hrs	28.0 / 2	1.5 hrs	29.0 / 21.5 hrs	28.0 /	21.5 hrs	29.0 / 21.5 hrs	28.0 / 2	1.5 hrs	

ALL MODELS

TRANSMITTER SPECIFICATIONS						
Channel Spacing	12.5, 201, 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 (202 / 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	y, 60 dB (12.5 kHz), 70 dB (202 / 25 kHz					
(TIA603A)-1T Adjacent Channe	el channel) 45 dB (12.5 kHz), 70 dB (202 / 25					
_Selectivity, (TIA603D)-2T & (TIA603C)-2T	kHz)					
AUDIUS REICHTICATIONSD)	70 dB					
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 (202 / 25					
Conducted Spurious Emissions (TIA603D)	kHz) -57 dBm					

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	< 60 s					
Start Time To First Fix,	< 10 s					
Hot Start Horizontal	< 5 m					
Avairaspecifications						
Standards Supported	IEEE 802.11b, 802.11g, 802.11n					
Security Protocol	WPA, WPA-2, WEP					
Supported Maximum	128 (64 for LKP and NKP models)					
NUMBROWNS/DYAL SPECIFICA	TIONS					
Operating Temperature	-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					
Packaging Test	hrs MIL-STD 810D and E					

- 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.

 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°

MILITARY STANDARDS										
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Metho	Procedure	Metho	Procedure	Metho	Procedure	Metho	Procedure	Metho	Procedure
Low Pressure	d 500.1	I	d 500.2	II	d 500.3	II	d 500.4	II	d 500.5	II
High Temp	501.1	1, 11	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	1	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	1	503.2	A1/C3	503.3	A1/C3	503.4	1	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	1, 11	506.2	1, 11	506.3	I, II	506.4	I, III	506.5	1, 111
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	1, 11	510.2	1, 11	510.3	I, II	510.4	1, 11	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	1/24, 11/5	514.6	1/24, 11/5
Shock	516.2	II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV