

# MOTOTRBO™ DP2000e SERIES

# YOU'RE MORE PRODUCTIVE, CONNECTED

With this dynamic evolution of MOTOTRBO digital two-way radios, you're better connected, safer and more efficient. The DP2000e Series is designed for the everyday worker who needs effective communications. With systems support and loud, clear audio, these next-generation radios deliver cost-effective connectivity to your organisation.

## **CONNECTED**

The MOTOTRBO DP2000e Series is a family of ETSI DMR Standards compliant digital radios that delivers operationcritical voice communications. With a single button push, workers can communicate for greater efficiency and enhanced safety. With support for basic trunking as well as legacy analogue technology, you can keep your organisation connected as it grows.

## SAFE

The DP2000e Series is designed to improve safety in your organisation, with the rapid response capability of instantaneous push-to-talk communications. Even if a worker is unresponsive, you can remotely activate the radio to check that your worker is safe. Privacy options are available to prevent others listening in on your communications, and radios can be remotely disabled if they are misplaced or stolen. New TIA4950 certified models are available for use in hazardous locations where flammable or explosive materials are present.

#### **EFFICIENT**

With new noise cancellation technology and enhanced clarity, the DP2000e Series delivers excellent audio quality to make your workplace communications clearly intelligible. The latest energy technology delivers up to 28 hours of battery life for 3-shift working, and the optional IMPRES Over-the-Air Battery Management tool helps you maximise battery lifetime. An improved receiver boosts range by up to 8%, allowing you to reach further than ever.



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

- Enhanced audio quality
- Improved expandabilityBetter battery life (up to
- 28 hours) • Better range (up to 8
- Better waterproofing (IP67)
- TIA4950 certified HazLoc models available





	Li	mited Keypad (LKP) Mo	del		No Keypad (NKP) Mode	I		
Model Number		DP2600e		DP2400e				
Band	VHF	300MHz	UHF	VHF	300MHz	UHF		
GENERAL SPECIFICATIONS		•						
Frequency	136-174 MHz	300-360 MHz 350-400 MHz	403-527 MHz	136-174 MHz	300-360 MHz 350-400 MHz	403-527 MHz		
High Power Output	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		
Channel Spacing			12.5, 2	0 <sup>1</sup> , 25 kHz				
Channel Capacity		128			16			
NiMH 1400mAh IP67 Battery								
Dimensions with Radio (H x W x D)	122 x 56 x 39 mm			122 x 56 x 39 mm				
Weight with Radio		367 g			350 g			
Digital / Analogue Battery Life <sup>3</sup>	13.0 / 9.5 hrs	12.0 / 9.5 hrs 13.0		13.0 / 9.5 hrs	12.0 / 9.5 hrs			
Li-ion 1400mAh Low Temp IP57 Battery								
Dimensions with Radio (H x W x D)		122 x 56 x 42 mm 122 x 56 x 42 mm						
Weight with Radio		307 g		290 g				
Digital / Analogue Battery Life³	13.0 / 9.5 hrs	13.0 / 9.5 hrs 12.0 / 9.5 hrs		13.0 / 9.5 hrs	12.0 / 9.5 hrs			
Slim IMPRES Li-ion 1650mAh IP67 Battery								
Dimensions with Radio (H x W x D)		122 x 56 x 36 mm		122 x 56 x 36 mm				
Weight with Radio		282 g			265 g			
Digital / Analogue Battery Life³	16.0 / 11.5 hrs	16.0 / 11.5 hrs 15.0 / 11.5 hrs		16.0 / 11.5 hrs 15.0 / 11.5 hrs				
IMPRES Li-ion 2100mAH IP68 Battery								
Dimensions with Radio (H x W x D)	122 x 56 x 36 mm			122 x 56 x 36 mm				
Weight with Radio		292 g			275 g			
Digital / Analogue Battery Life <sup>3</sup>	19.5 / 14.0 hrs	18.5 /	14.0 hrs	19.5 / 14.0 hrs 18.5 / 14.0 hrs		14.0 hrs		
MPRES Li-ion 2250mAH IP67 Battery		1			1			
Dimensions with Radio (H x W x D)	122 x 56 x 42 mm			122 x 56 x 42 mm				
Weight with Radio		307 g			290 g			
Digital / Analogue Battery Life <sup>3</sup>	21.5 / 16.0 hrs	20.5 /	16.0 hrs	21.5 / 16.0 hrs 20.5 / 16.0 hrs		16.0 hrs		
IMPRES TIA4950 Li-ion 2900mAH IP68 Bat	tery	1		1	1			
Dimensions with Radio (H x W x D)		122 x 56 x 42 mm			122 x 56 x 42 mm			
Weight with Radio		367 g			350 g			
Digital / Analogue Battery Life <sup>3</sup>	27.5 / 20.0 hrs	26.5 /	20.0 hrs	27.5 / 20.0 hrs	26.5 /	20.0 hrs		
IMPRES Li-ion 3000mAH LV IP68 Battery		1			1			
Dimensions with Radio (H x W x D)		122 x 56 x 42 mm			122 x 56 x 42 mm			
Weight with Radio	312 g			295 g				
Digital / Analogue Battery Life <sup>3</sup>	28.5 / 21.0 hrs	27.5 /	21.0 hrs	28.5 / 21.0 hrs 27.5 / 21.0 hrs				
IMPRES Li-ion 3000mAH LV IP68 Battery w		1		1	1			
Dimensions with Radio (H x W x D)		122 x 56 x 42 mm			122 x 56 x 42 mm			
Weight with Radio		312 g			295 g			
Digital / Analogue Battery Life <sup>3</sup>	28.5 / 21.0 hrs	-	21.0 hrs	28.5 / 21.0 hrs 27.5 / 21.0 hrs				
Power Supply (Nominal)		1		.5 V	1			

#### ALL MODELS

TRANSMITTER SPECIFICATIONS				
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) 70dB (201 / 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 (201 / 25 kHz)			
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz) 70 dB (201 / 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 (201 / 25 kHz)			
Conducted Spurious Emissions (TIA603D)	-57 dBm			
ENVIRONMENTAL SPECIFICAT	IONS			
Operating Temperature <sup>2</sup>	-30 °C to +60 °C			
Storage Temperature	40 °C to .0E °C			
otorage temperature	-40 °C to +85 °C			
Electrostatic Discharge	IEC 61000-4-2 Level 4			
Electrostatic Discharge	IEC 61000-4-2 Level 4			
Electrostatic Discharge Dust and Water Intrusion	IEC 61000-4-2 Level 4 IEC 60529 - IP67, 1 m for 30 mins			

When properly equipped with Motorola UL-Approved battery, DP2000e Series radios are 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 - $25^{\circ}$ C to + $60^{\circ}$ C.

NOTES

1: 20 kHz channel not available for 300MHz models.

2: Specialized low-temperature battery required for operation below -10 °C

3: Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

NI	NDARDS										
MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G			
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PRO	

#### MILITARY STAN ROCEDURE 500 2 Low Pressure 500 1 Ш 500.3 Ш 500.4 Ш 500 5 T. Ш I, II I/A1, II/A1 I/Hot, II/Hot 501.5 High Temp 501.1 501.2 501.3 I/A1, II/A1 501.4 I/A1, II/A1 502.1 L. 502.2 I/C3, II/C1 502.3 I/C3, II/C1 502.4 I/C3, II/C1 502.5 I/C3, II/C1 Low Temp 503.1 L 503.2 A1/C3 503.3 A1/C3 503.4 Ĭ. 503.5 I-C Temp Shock Solar Radiation 505.1 II 505.2 I/Hot-Dry 505.3 I/Hot-Dry 505.4 I/Hot-Dry 505.5 I/A1 I, II 506.2 I, II 506.3 I, II I, III 506.5 I, III Rain 506.1 506.4 507.1 II 507.2 II/Hot-Humid 507.3 II/Hot-Humid 507.4 507.5 II/Hot-Humid Humidity Salt Fog 509.1 L 509.2 L 509.3 L 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 I/10, II/3 I/10, II/3 Vibration 514.2 VIII/F, W, XI 514.3 514.4 514.5 I/24, II/5 514.6 I/24, II/5 II I, IV I, IV Shock 516.2 516.3 516.4 516.5 I, IV 516.6 I, IV

#### CONNECTION

- VHF Band, 5 W
- UHF Band, 4 W
- 300/350 Band, 4 W
- LKP Models: Mono screen, limited keypad, 128 channels
- NKP Models: No screen or keypad, 16 channels
- Analogue and Digital
- Voice and text only
- Canned Text MessagingVoice Announcement
- 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
 4 Programmable Buttons (2 for NKP model)

#### MANAGEMENT

- Radio Management
- Over-the-Air Programming
- IMPRES Energy
- IMPRES Battery Management
   Over-the-Air Battery
- Management

#### SAFETY

- Lone Worker
- Basic Privacy
- Enhanced PrivacyTransmit Interrupt
- (decode) O Transmit Interrupt
- (encode)
- Emergency
- Emergency Search Tone
- Remote Monitor (Decode only)
- Radio Disable / Enable (Decode)
- Waterproof to IP67
- Rugged to MIL-STD 810
- TIA4950 HazLoc certification

## SYSTEMS

- Direct Mode (including Dual Capacity Direct Mode)
- IP Site Connect (Single and Multi-Site)
- Capacity Plus (Single and Multi-Site)
- Standard feature
- Optional feature

Enhancement

# **REMOTE SPEAKER MICROPHONES**

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



# **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.



#### **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.



# **ENERGY SOLUTIONS**

Make sure your radio is powered and charged properly, with our range of energy solutions. Choose from single and multi-unit chargers, and slim and high capacity batteries.



#### **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.

# **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.



MOTO**TRBO**"

DIGITAL REMASTERED

To get connected with MOTOTRBO, visit www.motorolasolutions.com/mototrbo or find your closest Motorola representative or authorised Partner at www.motorolasolutions.com/contactus

Motorola Solutions Ltd. Jays Close, Viables 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. All other trademarks are the property of their respective owners. © 2016 Motorola Solutions, Inc. All rights reserved. EAv1 (05/16)



American International Radio, Inc. (AIR) 3601 E. Algonquin Rd., #800 Rolling Meadows, IL 60008 www.airadio.com +1 847 818 9999

