

# 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 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 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 by up to 8% compared to previous models.



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

- Integrated accelerometer for optional Man Down
- Pluotooth1 / (
- Indoor locatio
- Multi-constellation GNSS for increased location
- Integrated Wi-Fi<sup>1</sup>
- Over-the-air software updates
- Enhanced audio quality
- Improved expandability
- Better battery life (up to 28 hrs)
- Better range (up to 8%
- Better waterproofing (IP68)

# PRODUCT DATA SHEET MOTOTRBO™ DP4000e SERIES DIGITAL TWO-WAY RADIOS







GENERAL SPECIFICATIONS           Frequency         136-174 MHz         300-360 MHz 350-400 MHz         403-527 MHz         MHz         403-5		Full Keypad (FKP) Model			Limited Keypad (LKP) Model			No Keypad (NKP) Model			
Frequency   138-174 MHz   330-360 MHz   330-400 MHz   33	Model Number	DP4801e, DP4800e <sup>1</sup>			DP4601e, DP4600e <sup>1</sup>			DP4401e, DP4400e <sup>1</sup>			
Frequency   138-174 MHz   300-360 MHz   360-400 MHz   36	Band	VHF 300MHz UHF			VHF	300MHz UHF		VHF	VHF 300MHz UF		
High Power Output	GENERAL SPECIFICATIONS										
Low Power Output	Frequency	136-174 MHz		403-527 MHz	136-174 MHz		403-527 MHz	136-174 MHz		403-527 MHz	
Channel Spacing	High Power Output	5 W	4 W	4 W	5 W	4 W	4 W	5 W	4 W	4 W	
Channel Capacity         1000         1000         32           NIMH 1400mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 39 mm         130 x 55 x 39 mm         130 x 55 x 39 mm         130 x 55 x 37 mm           Weight with Radio         405 g         405 g         380 g         380 g           Digital / Analogue Battery Life²         13.0 / 10.0 hrs         12.0 / 9.5 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs           Li-ion 1400mAh Low Temp IP57 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g         320 g           Oljital / Analogue Battery Life²         13.0 / 10.0 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs           Silim IMPRES Li-ion 1650mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life²         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           IMPRES Li-ion 2100mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 40 m	Low Power Output	1 W	1 W 1 W		1 W	1 W	1 W	1 W	1 W	1 W	
NIMH 1400mAh IP67 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 39 mm         130 x 55 x 39 mm         130 x 55 x 37 mm           Weight with Radio         405 g         405 g         380 g           Digital / Analogue Battery Life²         13.0 / 10.0 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs           Li-lon 1400mAh Low Temp IP57 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life²         13.0 / 10.0 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs           Weight with Radio         345 g         320 g         320 g         320 g           Digital / Analogue Battery Life²         13.0 / 10.0 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs           Dirensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life²         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           Meight with Radio (H x W x D)	Channel Spacing				12.5, 20², 25 kHz						
Dimensions with Radio (H x W x D)   130 x 55 x 39 mm   12.0 / 9.5 hrs   13.0 / 10.0 hrs   12.0 / 9.5 hrs   13.0 / 10.0 hrs   130 x 55 x 41 mm   130 x 55 x 40 mm   130 x 55 x 36 mm   130 x 55 x 34 mm   130 x 55 x 36 mm   130 x 55 x 36 mm   130 x 55 x 34 mm   130 x 55 x 36	Channel Capacity	1000			1000			32			
Weight with Radio         405 g         405 g         380 g           Digital / Analogue Battery Life³         13.0 / 10.0 hrs         12.0 / 9.5 hrs         hrs         13.0 / 10.0 hrs         13.0 / 10.0 hrs         13.0 / 10.0 hrs         13.0 / 10.0 hrs         12.0 / 9.5 hrs <t< td=""><td>NiMH 1400mAh IP67 Battery</td><td>,</td><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td></t<>	NiMH 1400mAh IP67 Battery	,						,			
Digital / Analogue Battery Life¹         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           Li-ion 1400mAh Low Temp IP57 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 40 mm         130 / 10.0 hrs         12.0 / 9.5 hrs         320 g         320 g         320 g         13.0 / 10.0 hrs         12.0 / 9.5 hrs         13.0 / 10.0 hrs         13.0 / 10.0 hrs         13.	Dimensions with Radio (H x W x D)		130 x 55 x 39 mm		130 x 55 x 39 mm			130 x 55 x 37 mm			
Li-ion 1400mAh Low Temp IP57 Battery	Weight with Radio		405 g		405 g			380 g			
Dimensions with Radio (H x W x D)   130 x 55 x 41 mm   130 x 55 x 41 mm   130 x 55 x 40 mm	Digital / Analogue Battery Life <sup>3</sup>	13.0 / 10.0 hrs	12.0 /	9.5 hrs	13.0 / 10.0 hrs			13.0 / 10.0 hrs	12.0 / 9.5 hrs		
Weight with Radio         345 g         345 g         320 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           Slim IMPRES Li-ion 1650mAh IP67 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           IMPRES Li-ion 2100mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP6	Li-ion 1400mAh Low Temp IP57 Batter	у									
Digital / Analogue Battery Life3   13.0 / 10.0 hrs   12.0 / 9.5 hrs   Slim IMPRES Li-ion 1650mAh IP67 Battery	Dimensions with Radio (H x W x D)	<u>,                                      </u>			130 x 55 x 41 mm			130 x 55 x 40 mm			
Slim IMPRES Li-ion 1650mAh IP67 Battery	Weight with Radio								320 g		
Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           IMPRES Li-ion 2100mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm	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		9.5 hrs		
Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           IMPRES Li-ion 2100mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm <td>Slim IMPRES Li-ion 1650mAh IP67 Bat</td> <td>tery</td> <td></td> <td>,</td> <td></td> <td>l .</td> <td>,</td> <td>l .</td> <td>l</td> <td>,</td>	Slim IMPRES Li-ion 1650mAh IP67 Bat	tery		,		l .	,	l .	l	,	
Digital / Analogue Battery Life³         16.0 / 12.0 hrs         15.5 / 11.5 hrs         16.0 / 12.0 hrs         15.5 / 11.5 hrs           IMPRES Li-ion 2100mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Dimensions with Radio (H x W x D)	130 x 55 x 36 mm			130 x 55 x 36 mm			130 x 55 x 34 mm			
IMPRES Li-ion 2100mAh IP68 Battery         Dimensions with Radio (H x W x D)       130 x 55 x 36 mm       130 x 55 x 36 mm       130 x 55 x 34 mm         Weight with Radio       330 g       330 g       295 g         Digital / Analogue Battery Life³       20.0 / 15.0 hrs       19.0 / 14.5 hrs       19.0 / 14.5 hrs       20.0 / 15.0 hrs       19.0 / 14.5 hrs         IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)       130 x 55 x 41 mm       130 x 55 x 41 mm       130 x 55 x 40 mm         Weight with Radio       345 g       345 g       320 g         Digital / Analogue Battery Life³       21.5 / 16.5 hrs       21.0 / 16.0 hrs       21.5 / 16.5 hrs       21.0 / 16.0 hrs         IMPRES TIA4950 Li-ion 2900mAh IP68 Battery         Dimensions with Radio (H x W x D)       130 x 55 x 41 mm       130 x 55 x 41 mm       130 x 55 x 40 mm         Weight with Radio       405 g       405 g       380 g	Weight with Radio	330 g		330 g			295 g				
Dimensions with Radio (H x W x D)         130 x 55 x 36 mm         130 x 55 x 36 mm         130 x 55 x 34 mm           Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery         Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Digital / Analogue Battery Life <sup>3</sup>	16.0 / 12.0 hrs	2.0 hrs 15.5 / 11.5 hrs		16.0 / 12.0 hrs	15.5 /	11.5 hrs	16.0 / 12.0 hrs 15.5 / 11.5 hrs			
Weight with Radio         330 g         330 g         295 g           Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	IMPRES Li-ion 2100mAh IP68 Battery	у									
Digital / Analogue Battery Life³         20.0 / 15.0 hrs         19.0 / 14.5 hrs         20.0 / 15.0 hrs         19.0 / 14.5 hrs           IMPRES Li-ion 2250mAh IP67 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Dimensions with Radio (H x W x D)	130 x 55 x 36 mm		130 x 55 x 36 mm			130 x 55 x 34 mm				
IMPRES Li-ion 2250mAh IP67 Battery         Dimensions with Radio (H x W x D)       130 x 55 x 41 mm       130 x 55 x 41 mm       130 x 55 x 40 mm         Weight with Radio       345 g       345 g       320 g         Digital / Analogue Battery Life³       21.5 / 16.5 hrs       21.0 / 16.0 hrs       21.5 / 16.5 hrs       21.0 / 16.0 hrs         IMPRES TIA4950 Li-ion 2900mAh IP68 Battery         Dimensions with Radio (H x W x D)       130 x 55 x 41 mm       130 x 55 x 41 mm       130 x 55 x 40 mm         Weight with Radio       405 g       405 g       380 g	Weight with Radio	330 g		330 g			295 g				
Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Digital / Analogue Battery Life <sup>3</sup>	20.0 / 15.0 hrs 19.0 / 14.5 hrs		20.0 / 15.0 hrs	0 hrs 19.0 / 14.5 hrs		20.0 / 15.0 hrs 19.0 / 14.5 hrs		14.5 hrs		
Weight with Radio         345 g         345 g         320 g           Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	IMPRES Li-ion 2250mAh IP67 Battery	Į.				Į.		I.	l		
Digital / Analogue Battery Life³         21.5 / 16.5 hrs         21.0 / 16.0 hrs         21.5 / 16.5 hrs         21.0 / 16.0 hrs           IMPRES TIA4950 Li-ion 2900mAh IP68 Battery           Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Dimensions with Radio (H x W x D)		130 x 55 x 41 mm	I		130 x 55 x 41 mm	ı		130 x 55 x 40 mm	l	
IMPRES TIA4950 Li-ion 2900mAh IP68 Battery       Dimensions with Radio (H x W x D)     130 x 55 x 41 mm     130 x 55 x 41 mm     130 x 55 x 40 mm       Weight with Radio     405 g     405 g     380 g	Weight with Radio	345 g			345 g			320 g			
Dimensions with Radio (H x W x D)         130 x 55 x 41 mm         130 x 55 x 41 mm         130 x 55 x 40 mm           Weight with Radio         405 g         405 g         380 g	Digital / Analogue Battery Life <sup>3</sup>	21.5 / 16.5 hrs 21.0 / 16.0 hrs		21.5 / 16.5 hrs	21.5 / 16.5 hrs 21.0 / 16.0 hrs			21.0 /	16.0 hrs		
Weight with Radio         405 g         405 g         380 g	IMPRES TIA4950 Li-ion 2900mAh IP68	Battery									
	Dimensions with Radio (H x W x D)		130 x 55 x 41 mm			130 x 55 x 41 mm		130 x 55 x 40 mm			
Digital / Analogue Battery Life <sup>3</sup> 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	Weight with Radio		405 g		405 g		380 g				
	Digital / Analogue Battery Life <sup>3</sup>	28.0 / 21.0 hrs	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 LV IP68 Battery	IMPRES Li-ion 3000mAh LV IP68 Batte	ry	U.		1						
Dimensions with Radio (H x W x D) 130 x 55 x 41 mm 130 x 55 x 40 mm	Dimensions with Radio (H x W x D)	130 x 55 x 41 mm		130 x 55 x 41 mm			130 x 55 x 40 mm				
Weight with Radio         350 g         350 g         325 g	Weight with Radio	350 g		350 g			325 g				
Digital / Analogue Battery Life <sup>3</sup> 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs	Digital / Analogue Battery Life <sup>3</sup>	29.0 / 21.5 hrs			29.0 / 21.5 hrs	29.0 / 21.5 hrs 28.0 / 21.5 hrs		29.0 / 21.5 hrs 28.0 / 21.5 hrs			
IMPRES Li-ion 3000mAh LV IP68 Battery w/Vibrator	IMPRES Li-ion 3000mAh LV IP68 Batte	ry w/Vibrator									
Dimensions with Radio (H x W x D) 130 x 55 x 41 mm 130 x 55 x 40 mm	Dimensions with Radio (H x W x D)		130 x 55 x 41 mm			130 x 55 x 41 mm			130 x 55 x 40 mm		
Weight with Radio         350 g         350 g         325 g	Weight with Radio		350 g					325 g			
Digital / Analogue Battery Life <sup>3</sup> 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs	Digital / Analogue Battery Life <sup>3</sup>	29.0 / 21.5 hrs	28.0 / 2	21.5 hrs	29.0 / 21.5 hrs					21.5 hrs	

#### **ALL MODELS**

TRANSMITTER SPECIFICATIONS					
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				
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, (TIA603A)-1T	60 dB (12.5 kHz) 70 dB (20² / 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 (20² / 25 kHz)				
Conducted Spurious Emissions (TIA603D)	-57 dBm				

- 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.

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	100 (0.1 ( ) ) (0.1 () )
Maximum Mamber of 22IDs	128 (64 for LKP and NKP models)
ENVIRONMENTAL SPECIFICAT	
Washing Trainson of Golde	
ENVIRONMENTAL SPECIFICAT	TIONS
ENVIRONMENTAL SPECIFICAT  Operating Temperature <sup>4</sup>	10NS -30 °C to +60 °C
ENVIRONMENTAL SPECIFICAT Operating Temperature <sup>4</sup> Storage Temperature	-30 °C to +60 °C -40 °C to +85 °C
ENVIRONMENTAL SPECIFICAT Operating Temperature Storage Temperature Electrostatic Discharge	-30 °C to +60 °C -40 °C to +85 °C IEC 61000-4-2 Level 4

**BLUETOOTH SPECIFICATIONS** 

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°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	1	500.2	II	500.3	Ш	500.4	II	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	I, II	506.2	1, 11	506.3	I, II	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	1	509.2	1	509.3	1	509.4	-	509.5	-
Dust	510.1	1, 11	510.2	1, 11	510.3	1, 11	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	I/24, II/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

#### 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 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**

- Radio 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-
- Capacity Max
- Connect Plus
- Standard feature
- Optional feature

## **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.



## **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.



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