



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
- Bluetooth¹ 4.0
- Indoor location
- Multi-constellation GNSS for increased location accuracy¹
- Integrated Wi-Fi
- Over-the-air softwar updates
- Enhanced audio quality
- Improved expandabilit
- 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







March Number March Number March Number March Number March Number Num		Full Keypad (FKP) Model			Limited Keypad (LKP) Model			No Keypad (NKP) Model		
Frequency	Model Number	DP4801e, DP4800e ¹		DP4601e, DP4600e ¹			DP4401e, DP4400e ¹			
Figuration 18-17-148 18-18-148 18	Band	VHF	300MHz	UHF	VHF	300MHz	UHF	VHF	300MHz	UHF
Find prover Output	GENERAL SPECIFICATIONS		<u> </u>							
Low Power Output 1 M	Frequency	136-174 MHz		403-527 MHz	136-174 MHz		403-527 MHz	136-174 MHz		403-527 MHz
Diamel Spacing	High Power Output	5 W	4 W	4 W	5 W	4 W	4 W	5 W	4 W	4 W
Demont Capacity Demont Ca	Low Power Output	1 W	1 W	1 W	1 W	1 W	1 W	1 W	1 W	1 W
NMH1 1400mAh IP\$7 Battary 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 300 100 ms 130 x 150 x 50 x 37 mm Ugital / Analogue Battary Life* 130 x 100 ms 120 / 95 hrs 130 x 100 ms 130 z 100 ms 120 / 95 hrs Libin 1400mAh Low Temp IP\$7 Battary Weight with Radio (H x W x D) 130 / 100 ms 245 g 345 g 345 g 300 (100 hs 250 g Bill M PR\$ Battary Life* 30 / 100 ms 245 g 345 g 320 g 320 g Digital / Analogue Battary Life* 30 / 100 ms 120 / 95 hrs 310 x 55 x 40 mm 130 x 55 x 36 mm 150 x 15 x 36 mm 130 x 55 x 36 mm 130	Channel Spacing			12.5, 20², 25 kHz						
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 380 g Digital / Analogue Battery Life* 130 / 100 hs 120 / 95 hrs 130 / 100 hrs 130 / 100 hrs 120 / 95 hrs 130 / 100 hrs 130 / 100 hrs 130 / 100 hrs 130 / 100 hrs 300 g 255 x 34 mm 130 x 55 x 36 mm 130 x 55 x 34 mm 130 x 55 x 36 mm 130 x 55 x 34	Channel Capacity	1000		1000			32			
Weight with Radio 405 g 300 (10 d) Analogue Battery Life* 300 (10 d) ns 120 (20 5 hrs 130 (10 0 hrs 120 (20 5 hrs 130 (10 0 hrs 120 (20 5 hrs 130 (10 0 hrs 130 (10 0 hrs 130 (10 0 hrs 120 (20 5 hrs 120 (20 5 hrs 130 (10 0 hrs 120 (20 5 hrs 130 (10 0 hrs 120 (20 5 hrs 130 (10 0 hrs 130 (10 0 hrs 300 (10 0 hrs	NiMH 1400mAh IP67 Battery							,		
Digital / Analogue Battery Life 13.0 / 10.0 hrs 12.0 / 9.5 hrs 13.0 / 10.0 hrs 13.0 / 55.4 hrm 13.0 / 10.0 hrs	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			
Lion 1400mAh Low Tenp IP57 Battery Dimensions with Radio (H x W x D)	Weight with Radio		405 g		405 g			380 g		
Dimensions with Radio (H x W x D) 30 x 55 x 41 mm 30 x 55 x 41 mm 30 x 55 x 41 mm 30 x 55 x 40 mm Weight with Radio 345 g 345 g 320 g Digital / Analogue Battery Life* 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 12.0 / 9.5 hrs 13.0 / 10.0 hrs 13.0 / 10.0 hrs 13.0 / 10.0 hrs 15.5 / 11.5 hrs 16.0 / 12.0 hrs 13.0 / 15.0 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 16.0 / 12.0 hrs 15.0 / 15.0 hrs 15.5 / 11.5 hrs 16.0 / 12.0 hrs 15.5 / 11.5 hrs 15.0 / 15.0 hrs 15.0 / 15.0 hrs 19.0 / 15.0 hrs 13.0 / 15.0 hrs 19.0 / 15.0 h	Digital / Analogue Battery Life ³	13.0 / 10.0 hrs	rs 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	
Weight with Radio 345 g 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 Digital / Analogue Battery Life³ 130 x 55 x 36 mm 300 g 300 g 300 g 295 g Digital / Analogue Battery Life³ 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 15.5 / 11.5 hrs 160 / 12 0 hrs 15.5 / 11.5 hrs 20 0 / 15.0 hrs 20 0 / 15.0 hrs 20 0	Li-ion 1400mAh Low Temp IP57 Batte	ry								
Digital / Analogue Battery Life¹ 13.0 / 10.0 hrs 12.0 / 9.5 hrs 13.0 / 10.0 hrs 13.0 × 55 × 36 mm 130 × 55 × 36 mm 130 × 55 × 36 mm 130 × 55 × 34 mm 130 × 55 × 36 mm 15.5 / 11.5 hrs 16.0 / 12.0 hrs 15.0 / 13.0 × 55 × 40 mm 13.0 × 55 ×	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			
Sim IMPRES Li-ion 1650nAh IP67 Battery Dimensions with Radio (H x W x D)	Weight with Radio	345 g		345 g			320 g			
Dimensions with Radio (H x W x D) 130 x 55 x 36 mm 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 15.5 /	Digital / Analogue Battery Life ³	13.0 / 10.0 hrs 12.0 / 9.5 hrs		13.0 / 10.0 hrs	/ 10.0 hrs 12.0 / 9.5 hrs		13.0 / 10.0 hrs 12.0 / 9.5 hrs			
Weight with Radio 330 g 330 g 15.5 / 11.5 hrs 16.0 / 12.0 hrs 15.5 / 11.5 hrs 15.0 / 15.5 hrs	Slim IMPRES Li-ion 1650mAh IP67 Ba	ttery		,		l .	,	l .	l .	
Digital / Analogue Battery Life ³ 16.0 / 12.0 hrs 15.5 / 11.5 hrs 16.0 / 12.0 hrs 16.0 hrs 16.0 / 12.0 hrs	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 20.0 / 15.0 hrs 19.0 / 14.5 hrs MPRES 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 21.0 / 16.0 hrs 21.5 / 16.5	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 19.0 / 14.5 hrs 20.0 / 15.0 hrs 19.0 / 14.5 hrs MPRES 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 /	Digital / Analogue Battery Life ³	16.0 / 12.0 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 20.0 / 15.0 hrs 19.0 / 14.5 hrs 19.0 / 16.0 hrs 19.0 / 16.0 hrs 21.0 / 16.0 hrs 1	IMPRES Li-ion 2100mAh IP68 Battery		'							
Digital / Analogue Battery Life³ 20.0 / 15.0 hrs 19.0 / 14.5 hrs 19.0 / 14.5 hrs 19.0 / 14.5 hrs 20.0 / 15.0 hrs 21.0 / 16.0 hrs	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 41 mm 130 x 55 x 40 mm Weight with Radio 345 g 345 g 321.0 / 16.0 hrs 21.0 / 16.0 hrs 21.5 / 16.5 hrs 21.0 / 16.0 hrs 21.0	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 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 41 mm Weight with Radio 405 g 405 g 380 g Digital / Analogue Battery Life³ 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 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 Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs	Digital / Analogue Battery Life ³	20.0 / 15.0 hrs	19.0 / 14.5 hrs		20.0 / 15.0 hrs	20.0 / 15.0 hrs 19.0 / 14.5 hrs		20.0 / 15.0 hrs 19.0 / 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 hrs 28.0 / 21.0 hrs 28.0 / 21.0 hrs 28.0 / 21.0 hrs 27.0 / 20.5 hrs 28.0 / 21.0 hrs 27.0 / 20.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 2	IMPRES Li-ion 2250mAh IP67 Battery		,			Į.		l.	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 Digital / Analogue Battery Life³ 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 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 Digital / Analogue Battery Life³ 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 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 29	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			
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 Life³ 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 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 Digital / Analogue Battery Life³ 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 29.0 / 21.5 hrs 28.0 / 21.5 hrs 130 x 55 x 40 mm 130 x 55	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 Life³ 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 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 Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0	Digital / Analogue Battery Life ³	21.5 / 16.5 hrs	5 / 16.5 hrs 21.0 / 16.0 hrs		21.5 / 16.5 hrs 21.0 / 16.0 hrs			21.5 / 16.5 hrs 21.0 / 16.0 hrs		
Weight with Radio 405 g 405 g 380 g Digital / Analogue Battery Life³ 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 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 Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 21.5 hrs 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 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	IMPRES TIA4950 Li-ion 2900mAh IP68	Battery								
Digital / Analogue Battery Life³ 28.0 / 21.0 hrs 27.0 / 20.5 hrs hrs	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			
IMPRES Li-ion 3000mAh LV 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 350 g 350 g 325 g Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 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 29.0 / 21.5 hrs 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 130 x 55 x 41 mm 130 x 55 x 40 mm Weight with Radio 350 g 325 g Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 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 28.0 / 21.5 hrs 28.0 / 21.5 hrs 130 x 55 x 41 mm 130 x 55 x 41 mm 130 x 55 x 40 mm	Digital / Analogue Battery Life ³	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 350 g 350 g 325 g Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 10.0 x 55 x 41 mm 130 x 55 x 41 mm 130 x 55 x 40 mm	IMPRES Li-ion 3000mAh LV IP68 Batte	ery	1		1					
Digital / Analogue Battery Life³ 29.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs 28.0 / 21.5 hrs 28.0 / 21.5 hrs 29.0 / 21.5 hrs	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	1
IMPRES Li-ion 3000mAh LV IP68 Battery w/Vibrator 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			
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 ³	29.0 / 21.5 hrs	28.0 / 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 Batte	ery w/Vibrator	1		1					
Weight with Radio 350 g 350 g 325 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		350 g		350 g		325 g			
Digital / Analogue Battery Life ³ 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 ³	29.0 / 21.5 hrs	28.0 / 2	21.5 hrs	29.0 / 21.5 hrs	28.0 / 2	21.5 hrs	29.0 / 21.5 hrs	28.0 / 2	21.5 hrs

ALL MODELS

TRANSMITTER SPECIFICATIONS					
Channel Spacing	12.5, 20 ¹ , 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.

MIL-STD 810C

METHOD

500.1

501.1

502.1

503 1

505.1

506 1

507.1

509.1

510.1

514.2

516.2

2: 20 kHz channel not available for 300MHz models.

MILITARY STANDARDS

Low Pressure

High Temp

Low Temp

Temp Shock

Rain

Humidity

Salt Fog

Vibration

Shock

Dust

Solar Radiation

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

PROCEDURE

1, 11

1

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1, 11

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1, 11

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VIII/F, W, XI

MIL-STD 810D

PROCEDURE

I/A1, II/A1

I/C3, II/C1

A1/C3

1. []

I, II

I, IV

I/10, II/3

I/Hot-Dry

II/Hot-Humid

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METHOD

500.2

501.2

502.2

503.2

505.2

506.2

507.2

509.2

510.2

514.3

516.3

- 4: Radio only. Specialised low-temperature battery required for operation below -10 °C.

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 SPECIFICAT	IONS				
Operating Temperature ⁴	-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					

HAZLOC CERTIFICATION

MIL-STD 810E

PROCEDURE

I/A1, II/A1

I/C3, II/C1

A1/C3

1, 11

1, 11

I, IV

I/10, II/3

I/Hot-Dry

II/Hot-Humid

II

METHOD

500.3

501.3

502.3

503.3

505.3

506.3

507.3

509.3

510.3

514.4

516.4

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.

MIL-STD 810F

METHOD

500.4

501.4

502.4

503.4

505.4

506.4

507.4

509.4

510.4

514.5

516.5

PROCEDURE

I/Hot, II/Hot

I/C3, II/C1

I/Hot-Dry

1, 111

1, 11

I, IV

1/24, 11/5

MIL-STD 810G

PROCEDURE

I/A1, II/A1

I/C3, II/C1

II/Hot-Humid

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I-C

I/A1

1 111

1, 11

I, IV

1/24, 11/5

METHOD

500.5

501.5

502.5

503.5

505.5

506.5

507.5

509.5

510.5

514.6

516.6

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.



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

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