

MOTOTRBO

DP 3400 / DP 3401 / DP 3600 / DP 3601 PROFESSIONAL DIGITAL TWO-WAY PORTABLE RADIOS

MOTOTRBO PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM THE FUTURE OF TWO-WAY RADIO

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next, connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.



- Uses Time-Division Multiple-Access (TDMA) digital technology to provide twice the calling capacity (as compared to analogue or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides clearer voice communications throughout the coverage area, as compared to analogue radios, rejecting static and noise.
- Offers enhanced battery life. Digital TDMA two-way portable radios can operate up to 40 percent longer between recharges compared to typical analogue radios.
- Provides easy migration from analogue to digital with the ability to operate in both analogue and digital modes and utilising the

dynamic mixed mode repeater functionality allows for automatic switching between analogue and digital mode on the same

- Enables additional functionality including dispatch data, enhanced call signaling, basic and enhanced privacy-scrambling and option board expandability.
- Meets demanding specifications, IP57– for submersibility in water (portable models), U.S. Military 810 C, D, E and F, and Motorola standards for durability and reliability.
- Is intrinsically safe, when purchased and equipped with an FM battery, and can be used in locations where flammable gas, vapors or combustible dust may be present.
- Utilises Motorola's state-of-the-art IMPRES™ technology in batteries, chargers and audio accessories, providing longer talk time and clearer audio delivery.
- Designed to comply with the globally recognised European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional twoway radio users.

- Features the transmit interrupt suite, voice interrupt, remote voice dekey, emergency voice interrupt or data over voice interrupt, to help prioritise critical communication exactly when needed.
- The IP Site Connect digital solution uses an IP network to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- Capacity Plus is a scalable, single-site digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users.
- Motorola's Professional Radio Application Partner Programme enables the development of customised data applications that adapt MOTOTRBO radios to meet the unique needs of your business.
- Backed by a two-year Standard warranty. Extended Care Option available.



STANDARDS BASED, FUTURE READY SOLUTION

MOTOTRBO is designed to comply with the globally recognised European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional two-way radio users.

DMR is widely backed by industry leading two-way radio manufacturers, and it is the

most widely deployed digital mobile radio technology for professional radio users around the world. This open standard assures long-term stability and develops a community of manufacturers who build interoperable equipment that can compete on features, benefits and price.

The DMR Association represents a collection of companies and organisations that manufacture DMR equipment, supply related products and service or support the standard in other ways. Motorola is an active member of the DMR Association so you can be assured that MOTOTRBO will always be a robust and future-ready digital radio solution.

MOTOTRBO™ DP 3400 / DP 3401 / DP 3600 / DP 3601 PORTABLE RADIO SPECIFICATIONS

Channel Capacity	play DP 3400 / DP 3401 32 36-174 MHz (VHF) 3-470 MHz (UHF1) 5-5 x 63.5 x 37.2 mm 5 x 63.5 x 35.2 mm 5 x 63.5 x 37.2 mm 5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal se: 9 hrs / Digital: 13 hrs 13.5hrs / Digital: 19 hrs 13.5hrs / Digital: 11 hrs 6.6 hrs / Digital: 11 hrs 6.7 hrs 6.7 hrs 6.7 hrs 6.7 hrs 6.8 hrs / Digital: 11 hrs
136-174 MHz (VHF)	36-174 MHz (VHF) 3-470 MHz (UHF1) 0-512 MHz (UHF1) 5 x 63.5 x 37.2 mm 5 x 63.5 x 37.2 mm 5 x 63.5 x 39.2 mm 5 x 63.5 x 39.2 mm 430 g 340 g 345 g 330 g 7.2V nominal se: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 11 hrs
403-470 MHz (UHF1) 403	3-470 MHz (UHF1) 0-512 MHz (UHF2) 5 x 63.5 x 37.2 mm 5 x 63.5 x 35.2 mm 5 x 63.5 x 39.2 mm 5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal se: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 11 hrs
A50-512 MHz (UHF2)	0-512 MHz (UHF2) 5 x 63.5 x 37.2 mm 5 x 63.5 x 35.2 mm 5 x 63.5 x 39.2 mm 5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal e: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 19 hrs e: 8.5 hrs / Digital: 11 hrs
Dimensions (H-W/XL)	5 x 63.5 x 37.2 mm 5 x 63.5 x 35.2 mm 5 x 63.5 x 39.2 mm 5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal see: 9 hrs / Digital: 13 hrs : 13.5 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs
with Lilon Std Bartery 1500mAH 131.5 x 63.5 x 35.2 mm 131.5 x 63.5 x 39.2 mm	5 x 63.5 x 35.2 mm 5 x 63.5 x 37.2 mm 5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal se: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 19 hrs : 8.5 hrs / Digital: 12 hrs se: 8 hrs / Digital: 11 hrs
with Lilon HiCap Battery 2200mAH 131.5 x 63.5 x 39.2 mm 131.1 With Lilon FM Battery 1400mAH 131.5 x 63.5 x 37.2 mm 131.1 Weight 430.9 430.9 430.9 with Lilon HiCap Battery 370.9 430.9	5.x 63.5 x 39.2 mm 5.x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal se: 9 hrs / Digital: 13 hrs: 1.5.5 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 12 hrs e: 8 hrs / Digital: 11 hrs
with Lilon FM Battery 1400mAH 131.5 x 63.5 x 37.2 mm 131.5 x 63.5 x 37.2 mm Weight Weight Weight Weight With NiMH Battery With Lilon FM Battery 370 g With Lilon FM Battery 375 g With Lilon Std Battery 360 g 375 g With Lilon Std Battery 360 g Vower Supply Werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery Analogue: 13.5 hrs / Digital: 13 hrs Analogue: 13.5 hrs / Digital: 19 hrs Analogue: 14.5 hrs / Digital: 19 hrs Analogue: 14.6 hrs Analogue: 14.6 hrs Analogue: 15.5 hrs / Digital: 11 hrs Analogue: 14.6 hrs Analogue: 15.5 hrs / Digital: 17 hrs	5 x 63.5 x 37.2 mm 430 g 340 g 345 g 330 g 7.2V nominal 19: 9 hrs / Digital: 13 hrs 13.5hrs / Digital: 19 hrs 2: 8.5 hrs / Digital: 12 hrs 2: 8 hrs / Digital: 11 hrs
Weight with NiMH Battery with Lilon FM Battery 370 g with Lilon FM Battery 375 g with Lilon Std Battery 380 g wers Supply 7.2V nominal werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery Analogue: 9 hrs / Digital: 13 hrs Analogue MPRES FM Lilon Battery Analogue: 13.5hrs / Digital: 19 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 11 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital: 12 hrs Analogue MPRES FM Lilon Battery Analogue: 8 hrs / Digital:	430 g 340 g 345 g 330 g 7.2V nominal ie: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 19 hrs : 8.5 hrs / Digital: 12 hrs ie: 8 hrs / Digital: 11 hrs
with NiMH Battery with Lilon FM Battery with Lilon FM Battery with Lilon FM Battery 370 g with Lilon Std Battery 375 g with Lilon Std Battery 375 g with Lilon Std Battery 7.2V nominal Werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery MPRES Lilon HiCap Battery MPRES Lilon Battery Analogue: 9 hrs / Digital: 13 hrs Analogue: 9 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 12 hrs Analogu	340 g 345 g 330 g 7.2V nominal ei: 9 hrs / Digital: 13 hrs e: 13.5hrs / Digital: 19 hrs e: 8.5 hrs / Digital: 12 hrs ei: 8 hrs / Digital: 11 hrs
with Lilon HiCap Battery with Lilon Std Battery with Lilon Std Battery with Lilon Std Battery with Lilon Std Battery 7.2V nominal Werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery Analogue: 9 hrs / Digital: 13 hrs Analogue: 13.5hrs / Digital: 19 hrs Analogue: 13.5hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 13	345 g 330 g 7.2V nominal ie: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 19 hrs : 8.5 hrs / Digital: 12 hrs ie: 8 hrs / Digital: 11 hrs
vith Lion Std Battery (Nower Supply 7.2V nominal werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery MPRES Lilon HiCap Battery MPRES Lilon HiCap Battery Analogue: 13.5hrs / Digital: 13 hrs Analogue: 19.5hrs / Digital: 19 hrs Analogue: 8.5 hrs / Digital: 12 hrs Analogue: 8.5 hrs / Digital: 11 hrs Analogue: Brs / Digital: 12 hrs Analogue: Brs / Digital: 11 hrs Analogue: Brs / Digital: 12 hrs Analogue: Brs / Digital: 11 hrs Analogue: Brs / Digital: 12 hrs Analogue: Brs / Digital: 11 hrs Analogue: Brs / Digital: 12 hrs Analogue: Brs / Digital: 11 hrs Analogue: Brs / Digital: 12 hrs Analogue: Brs / Digital:	330 g 7.2V nominal 10: 9 hrs / Digital: 13 hrs 1: 13.5hrs / Digital: 19 hrs 2: 8.5 hrs / Digital: 12 hrs 12: 8 hrs / Digital: 11 hrs
Tower Supply Tower	7.2V nominal ie: 9 hrs / Digital: 13 hrs i: 13.5hrs / Digital: 19 hrs i: 8.5 hrs / Digital: 12 hrs ie: 8 hrs / Digital: 11 hrs
werage battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. MPRES Lilon Std Battery Analogue: 9 hrs / Digital: 13 hrs Analogue: 9 hrs / Digital: 19 hrs Analogue: 13.5hrs / Digital: 19 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue: 8 hrs / Digital: 11 hrs Analogue: 8 hrs / Digital: 12 hrs Analogue:	ne: 9 hrs / Digital: 13 hrs : 13.5hrs / Digital: 19 hrs : 8.5 hrs / Digital: 12 hrs ne: 8 hrs / Digital: 11 hrs
MPRES Lilon Std Battery MPRES Lilon HiCap Battery MPRES Lilon HiCap Battery Analogue: 9.5 fbrs / Digital: 13 hrs Analogue Analogue: 13.5 fbrs / Digital: 12 hrs Analogue Analogue: 8.7 fbgital: 12 hrs Analogue Analogue: 8 hrs / Digital: 11 hrs Analogue Analogue: 8 hrs / Digital: 11 hrs Analogue Analogue: 8 hrs / Digital: 12 hrs Analogue Analogue: 8 hrs / Digital: 11 hrs Analogue Analogue: 8 hrs / Digital: 11 hrs Analogue Analogue: 8 hrs / Digital: 12 hr	: 13.5hrs / Digital: 19 hrs s: 8.5 hrs / Digital: 12 hrs se: 8 hrs / Digital: 11 hrs
MPRES Lilon HiCap Battery MPRES FM Lilon Battery Analogue: 3.5 hrs / Digital: 19 hrs Analogue: 8.5 hrs / Digital: 12 hrs Analogue: 8.5 hrs / Digital: 12 hrs Analogue: 9.5 hrs / Digital: 12 hrs Analogue Analogue: 8.5 hrs / Digital: 12 hrs Analogue Analogue: 8.5 hrs / Digital: 12 hrs Analogue	: 13.5hrs / Digital: 19 hrs s: 8.5 hrs / Digital: 12 hrs se: 8 hrs / Digital: 11 hrs
MPRES FM Lilon Battery Analogue: 8.5 hrs / Digital: 12 hrs Analogue: 8.5 hrs / Digital: 12 hrs Analogue: 8.5 hrs / Digital: 11 hrs Analogue: 8.5 hrs / Digital: 12 hrs / Digit	e: 8.5 hrs / Digital: 12 hrs ie: 8 hrs / Digital: 11 hrs
Analogue: 8 hrs / Digital: 11 hrs Analogue Analogue: 8 hrs / Digital: 11 hrs Analogue ETSI-TS 102 361-1, 2 & 3 ETSI- Receiver	e: 8 hrs / Digital: 11 hrs
Receiver ETSI-TS 102 361-1, 2 & 3 ETSI-TS 102 361-1, 2 & 3	
Receiver	-TS 102 361-1, 2 & 3
Nicolay DP 2600 / DP 2601	
Nort-Display Dr 3000 / Dr 3001	
requency 136-174 MHz (VHF) 13	86-174 MHz (VHF)
403-470 MHz (UHF1) 403	3-470 MHz (UHF1)
	0-512 MHz (UHF2)
· ·	kHz/ 20 kHz¹/ 25 kHz
	1.5 ppm (DP 3400)
	0.5 ppm (DP 3401)
	5 uV (12 dB SINAD) (typical) (12 dB SINAD)
	(typical) (12 dB SINAD) uV (20 dB SINAD)
	5% BER: 0.3 uV
standard 65 dB 65 dB	65 dB
	60 dB @ 12.5 kHz
	0 dB @ 12.5 kHz 0 dB @ 20/25 kHz
purious Rejection 70 dB	70 dB
ated Audio 500 mW	500 mW
audio Distortion @ Rated Audio 3% (typical)	3% (typical)

	40 dB @ 12.5 kHz 5 dB @ 20/25 kHz
49 UB # 20/20 KPZ -45 Audio Response +1,3 dB	+1, -3 dB
Nondourted Spurious Emission 57 dBm	-57 dBm
	- 35
Transmitter Transmitter	
Display DP 3600 / DP 3601 Non-Disp	play DP 3400 / DP 3401
requency 136-174 MHz (VHF) 13	86-174 MHz (VHF)
	3-470 MHz (UHF1)
	0-512 MHz (UHF2)
	kHz/ 20 kHz¹/ 25 kHz
	1.5 ppm (DP 3400) 0.5 ppm (DP 3401)
-30° C, +60° C, +25° C) +/- 0.5 ppm (DP 3601) +/- 0.8 ppm (DP 3601)	0.5 ppm (DP 3401)
ower Output HET and UHF2 1W and 4 W	1W and 4 W
'HF 1W and 5 W	1W and 5 W
	2.5 kHz @ 12.5 kHz
	/- 4 kHz @ 20 kHz - 5.0 kHz @ 25 kHz
	- 5.0 kHz @ 25 kHz 10 dB @ 12.5 kHz
	10 dB @ 12.5 кнг 5 dB @ 20/25 kHz
	36 dBm < 1 GHz
	-30dBm > 1GHz
	60 dB @ 12.5 kHz
djacent Channel Power -60 dB @ 12.5 kHz -6	0 dB @ 20/25 kHz
djacent Channel Power -60 dB @ 12.5 kHz -6 -70 dB @ 20/25 kHz -70	
djacent Channel Power	+1, -3 dB
djacent Channel Power -60 dB @ 12.5 kHz -6 -70 dB @ 20/25 kHz -70 udio Response +1, -3 dB udio Distortion 3%	+1, -3 dB 3%
djacent Channel Power -60 dB @ 12.5 kHz -6 -70 dB @ 20/25 kHz -70 udio Response +1, 3 dB udio Distortion 3%	+1, -3 dB
djacent Channel Power -60 dB @ 12.5 kHz -6 -70 dB @ 20/25 kHz -70 udio Response +1, -3 dB udio Distortion 3% igital Vocoder Type AMBE+2	+1, -3 dB 3%
djacent Channel Power	+1, -3 dB 3%
djacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz -70 dB @ 2	+1, -3 dB 3% AMBE+2
Adjacent Channel Power	+1, -3 dB 3% AMBE+2 < 2 minutes
Adjacent Channel Power	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds
Adjacent Channel Power	+1, -3 dB 3% AMBE+2 < 2 minutes
Adjacent Channel Power	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds
djacent Channel Power	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters
djacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz -70 dB @ 2	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters
djacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz -70 dB @ 2	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters -30° C / +60° C -40° C / +85° C
Application	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters -30° C / +60° C -40° C / +85° C Per MIL-STD
Adjacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz -70 dB @	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters -30° C / +60° C -40° C / +85° C
Adjacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz -70 dB @	+1, -3 dB 3% AMBE+2 < 2 minutes < 10 seconds < 10 meters -30° C / +60° C -40° C / +85° C Per MIL-STD

^{*} With Lilon battery, operating temperature specification is -10° C / +60° C. With NiMH battery, operating temperature specification is -20° C / +60° C

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Version 9 $\,$ 03/10



For more information please contact your local Motorola Authorised Dealer or Distributor $\,$