

MOTOTRBO™ DP540 PORTABLE RADIO



EASY TO USE. EASY TO MIGRATE.

FEATURES

- VHF/UHF Bands
- Digital and/or Analog capable
- 16 channels
- 2 Programmable buttons
- Weighs only 276g
- Up to 20-hour talk time
- User adjustable power selection (1/5W VHF and 1/4W UHF)
- Dual-Capacity Direct Mode
- Transmit Interrupt decode ready
- Customisable voice announcement
- IP Site Connect compatible
- 2-pin accessory connector
- High-Sensitivity Receiver for Increased Range
- IP54 Rated
- VOX capable
- 1700mAh Li-on battery as standard (2250mAh Li-on optional)



GENERAL SPECIFICATIONS

	DP540	
	VHF	UHF BAND 1
Channel Capacity	16	
Typical RF Output		
Low Power	1 W	1 W
High Power	5 W	4 W
Frequency	136-174 MHz	403-480 MHz
Radio Dimensions (H x W x D) with battery:		
Li-Ion 1700mAh	120.0 x 55.0 x 34.7 mm	
High Cap Li-Ion 2250mAh	120.0 x 55.0 x 39.9 mm	
Weight with battery:		
Slim Li-Ion 1600mAh	276 g	
Li-Ion 2200mAh	281 g	
Power Supply	7.5V (Nominal)	

BATTERY

Average battery life at 5/5/90 duty cycle with carrier squelch and transmitter in high power.¹

Li-Ion 1700mAh	Analog: 10.7 hrs / Digital: 14.4 hrs
High Cap Li-Ion 2250mAh	Analog: 15.0 hrs / Digital: 20.0 hrs

RECEIVER

Frequency	136-174 MHz	403-480 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Analog Sensitivity (12 dB SINAD)	0.3 uV / 0.22 uV (typical)	
Digital Sensitivity (5% BER)	0.25 uV / 0.19 uV (typical)	
Intermodulation (TIA603D)	70 dB	
Adjacent Channel Selectivity (TIA603D)	45 dB @ 12.5 kHz / 70 dB @ 25 kHz	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5 W (Internal)	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	

TRANSMITTER

Frequency	136-174 MHz	403-480 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Low Power Output	1W	1W
High Power Output	5W	4W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz / ± 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Adjacent Channel Power	60 dB @ 12.5 kHz / 70 dB @ 25 kHz	
Audio Response	TIA603D	
Audio Distortion	3% (typical)	
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 Vocoder Type	AMBE +2™	
Digital Protocol	ETSI TS 102 361-1, -2, -3	

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C ² / +60°C
Storage Temperature	-40°C ¹ / +85°C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IP54, MIL-STD
Packaging Test	MIL-STD 810D and E

¹ Actual battery runtime observed may vary

² Radio only - Li-Ion battery -10°C

Specifications subject to change without notice.
All specifications shown are typical.

