



GENERAL SPECIFICATIONS		MOTOTRBO PORTABLE RADIOS												MOTOTRBO MOBILE RADIOS										
		DP1000 SERIES			DP2000e SERIES			DP3000e SERIES			DP4000e SERIES			DP4000 Ex SERIES		ION SMART RADIO	SL SERIES			DM1000 SERIES		DM2000 SERIES	DM4000e SERIES	
		DP1400	DP2400e	DP2800e	DP3441e	DP3861e	DP4401e	DP4601e	DP4801e	DP4401 Ex	DP4801 Ex	ION SMART RADIO	SL1600	SL2600	SL4010e	DM1400	DM1600	DM2600	DM4400e / DM4401e	DM4600e / DM4601e				
Protocol	DMR or analogue communications	Analogue / Digital or Analogue Only																						
Frequency	Capable of operating in the following frequency ranges	Analogue / Digital																						
Max. Power Output	Radio's full power rating	Analogue / Digital																						
Max. Channel Capacity	Programmable channel capacity	Analogue / Digital																						
Channel Spacing	Programmable channel spacing	Analogue / Digital																						
Display	Displays provide easy access to advanced features	Analogue / Digital																						
Keypad	Keypads provide access to radio controls, texting and telephony	Analogue / Digital																						
Integrated GPS	Embedded GPS receiver for location monitoring	Analogue / Digital																						
Integrated GLONASS	Embedded GLONASS receiver for location monitoring	Analogue / Digital																						
Event Driven Location Updates	Location update based on input from external device (eg door sensor)	Analogue / Digital																						
Distance Driven Location Updates	Location update transmission based on distance travelled	Analogue / Digital																						
Integrated Bluetooth 2.1	Wireless connection for audio accessories or data comms	Analogue / Digital																						
Integrated Bluetooth 4.0	Energy efficient Bluetooth for greater battery life	Analogue / Digital																						
Integrated Bluetooth 5.0	Draws less power than Bluetooth 4.2. This helps accessories with small batteries, such as earpieces, last longer.	Analogue / Digital																						
Permanent Bluetooth Discovery	Bluetooth "always on" mode used by some applications	Analogue / Digital																						
Dedicated Emergency Button	Orange programmable button for one-touch emergency calling	Analogue / Digital																						
Programmable Buttons	Allow access to most often used features with one press	Analogue / Digital																						
Digital DMR Signalling	DMR standard digital voice communications	Analogue / Digital																						
PL / DPL Signalling	Analogue Private Line / Digital Private Line compatible	Analogue / Digital																						
Quick Call II Signalling	Analogue Quick Call II compatible	Analogue / Digital																						
MDC Signalling	Analogue MDC compatible	Analogue / Digital																						
5 Tone Signalling	Analogue 5 tone compatible	Analogue / Digital																						
DTMF Hot Keypad	DTMF tone compatible	Analogue / Digital																						
MPT1327 Signalling	Analogue MPT1327 compatible (requires option board)	Analogue / Digital																						
Option Board Capability	Supports option boards for third party applications	Analogue / Digital																						
IMPRES™ Audio Compatible	IMPRES™ audio ensures your voice is heard clearer and louder	Analogue / Digital																						
SINCS+ Noise Cancellation	Integrated, advanced noise cancellation for noisy environments	Analogue / Digital																						
Automatic Gain Control	Modifies microphone performance to produce the best voice quality	Analogue / Digital																						
Microphone Distortion Control	Automatic microphone gain adjustment to reduce distortion	Analogue / Digital																						
Tail Enhancement	Additional processing to enhance rolling "r" sound so speech is clearer	Analogue / Digital																						
IMPRES™ Energy Compatible	Use IMPRES™ batteries for longer life and optimal performance	Analogue / Digital																						
IMPRES™ OTA Battery Management	Automatic collection of battery data over the air with radios still in use	Analogue / Digital																						
ATEX Certified	ATEX certified for use in potentially explosive environments	Analogue / Digital																						
IEC Ex Certified	IEC Ex certified for use in potentially explosive environments	Analogue / Digital																						
TIA4950 Certified	Telecommunications Industry Association (TIA) approved for IS use	Analogue / Digital																						
IP Rating	Rated sealing for dust and water ingress	Analogue / Digital																						
MIL-STD 810	Rated to withstand environmental conditions	Analogue / Digital																						
Dimensions (HxWxD) mm	Physical size	Analogue / Digital																						
Dimensions (Weight)	Physical weight	Analogue / Digital																						
Intelligent Audio	Automatic volume control based on background noise levels	Analogue / Digital																						
User Selectable Audio Profiles	Optimises audio for specific environments and personal preferences	Analogue / Digital																						
Emergency Alarm	Radio can initiate an Emergency call process	Analogue / Digital																						
Lone Worker	Initiates emergency if user does not respond to periodic alerts	Analogue / Digital																						
Remote Monitor	Radio can remotely activate another radio's microphone	Analogue / Digital																						
VOX (supported on radio)	Voice activated calling allows handsfree operation	Analogue / Digital																						
Audio Feedback Suppressor	Blocks feedback from other radios to eliminate "howling"	Analogue / Digital																						
Freeform Text Messaging	User can enter and send free-form text messages	Analogue / Digital																						
Pre-programmed Text Messaging	Radio can send pre-programmed text messages	Analogue / Digital																						
Extended Texting	Maximum text message length is 280 character	Analogue / Digital																						
Vibrate Alert	Vibrate silently alerts the user to an incoming call	Analogue / Digital																						
Covert Mode	Disable display, LEDs and audible tones for ultimate discretion	Analogue / Digital																						
All Call	One-way call to all radios on a logical channel	Analogue / Digital																						
Radio Check	Check if another radio is active on a system without notifying the user	Analogue / Digital																						
Digital Telephone Patch	Ability to connect to telephone system (requires additional hardware)	Analogue / Digital																						
Transmit Interrupt Encode	Radio can interrupt transmissions from other radios	Analogue / Digital																						
Basic Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping	Analogue / Digital																						
Enhanced Privacy	MOTOTRBO 40-bit encryption for more robust protection	Analogue / Digital																						
AES256 Encryption	Advanced Encryption Standard (AES) 256-bit encryption	Analogue / Digital																						
Default Voice Announcement	Audible confirmation of selected operations of the radio	Analogue / Digital																						
Programmable Voice Announcement	Ability to use customised recordings for voice announcements	Analogue / Digital																						
Text-to-Speech Voice Announcement	Radio "reads out" Channel, Zone, Functions, Text Messages, Job Tickets	Analogue / Digital																						
Radio Management	Centralised radio configuration and code plug management	Analogue / Digital																						
Over the Air Programming (OTAP)	Remote, over-air programming using Radio Management	Analogue / Digital																						
Integrated Wi-Fi	Enables remote software updates for easier radio management	Analogue / Digital																						
Indoor Location Tracking	Use built-in Bluetooth with iBeacons and suitable apps to locate and track radios	Analogue / Digital																						
Restricted Access to System	Prevents unauthorised users from communicating through the repeater	Analogue / Digital																						
Radio Enable / Disable	Radio can remotely disable and re-enable another radio	Analogue / Digital																						
Integrated Mandown	Built-in accelerometer enhances personnel safety by monitoring movement	Analogue / Digital																						
Dual Capacity Direct Mode	Use both TDMA time slots to double system capacity without a repeater	Analogue / Digital																						
Telemetry Supported	Integrated basic telemetry capability	Analogue / Digital																						
Telemetry I/O Pins	Number of built-in input / output pins to support telemetry	Analogue / Digital																						
Telemetry Buttons	Number of buttons that can be configured for telemetry	Analogue / Digital																						
Fixed Installation	Mobile radios can be used in a fixed installation such as a control room	Analogue / Digital																						
Control Station	Mobile acts as the RF link between an Application Server and the radio network	Analogue / Digital																						
Remote Mount Control Head	Controls and display can be located separately from radio chassis	Analogue / Digital																						
Data ADKs Available	Data Application Developer Kits are available to ADP members	Analogue / Digital																						
Certificate Based Wi-Fi Access	WPA / WPA2 Enterprise Wi-Fi support allowing Wi-Fi enabled MOTOTRBO radios to access certificate based Wi-Fi networks	Analogue / Digital																						
Rental Timer	Supports the ability to set a timer where the radio will stop functioning after the timer expires	Analogue / Digital																						
Direct Mode Operation	Direct radio-to-radio operation	Analogue / Digital																						
Single Site Conventional	Single-site conventional operation (channel selection by users)	Analogue / Digital																						
Extended Range Direct Mode	Single-site conventional range extension via single channel repeater	Analogue / Digital																						
IP Site Connect	Multi-site conventional operation (channel selection by users)	Analogue / Digital																						
Capacity Plus	Single- or multi-site MOTOTRBO trunking (channel selection managed by system)	Analogue / Digital																						
Capacity Max	Multi-site, DMR Tier III compliant trunking with centralised controller	Analogue / Digital																						
System Configurations		Analogue / Digital																						
Direct Mode Operation	Yes	Yes																						
Single Site Conventional	Yes	Yes																						
Extended Range Direct Mode	Yes	Yes																						
IP Site Connect	Option	Option																						
Capacity Plus	No	Option																						
Capacity Max	No	Option																						

<sup>1</sup> Integrated Bluetooth, GPS, GLONASS and Wi-Fi are supported on DP4401e, DP4601e, DP4801e, DM4401e & DM4601e only  
<sup>2</sup> Based on NiMH battery  
<sup>3</sup> Based on standard 1.5m beltclip  
<sup>4</sup> Requires keypad microphone  
<sup>5</sup> DP4401e, DP4601e, DP4801e are available with MPT Option Board factory fitted  
<sup>6</sup> DP1400, DM1400 and DM1600 analogue-only models can be upgraded to MOTOTRBO digital by purchasing a software license  
<sup>7</sup> Event & distance driven location updates only supported on models with built-in GPS / GLONASS  
<sup>8</sup> Only DP2400e, DP4401e, DP4801e, DM4401e and DM4601e available in 300MHz versions  
<sup>9</sup> Integrated mandown on DP4401e, DP4601e and DP4801e only  
<sup>10</sup> VHF models 45W / 300MHz & IHF models 40W