

# FEATURE COMPARISON CHART

		MOTOTRBO PORTABLE RADIOS												MOTOTRBO MOBILE RADIOS										
		DP1000 SERIES			DP2000e SERIES			DP4000e SERIES			DP4000 Ex SERIES			DP3000e SERIES			SL SERIES		DM1000 SERIES		DM2000 SERIES		DM4000e SERIES	
		DP1400	DP2400e	DP2600e	DP4400e/DP4401e	DP4600e/DP4601e	DP4800e/DP4801e	DP4401 Ex	DP4801 Ex	DP4401 Ex Ma	DP4801 Ex Ma	DP3441e	DP3661e	SL1600	SL2600	SL4000e/SL4010e	DM1400	DM1600	DM2600	DM4400e/DM4401e	DM4600e/DM4601e			
GENERAL SPECIFICATIONS																								
Protocol	DMR or analogue communications																							
Frequency	Capable of operating in the following frequency ranges																							
Max. Power Output	Radio's full power rating																							
Max. Channel Capacity	Programmable channel capacity																							
Channel Spacing	Programmable channel spacing																							
Display	Displays provide easy access to advanced features																							
Keypad	Keypads provide access to radio controls, texting and telephony																							
Integrated GPS	Embedded GPS receiver for location monitoring																							
Integrated GLONASS	Embedded GLONASS receiver for location monitoring																							
Event Driven Location Updates	Location update based on input from external device (eg door sensor)																							
Distance Driven Location Updates	Location update transmission based on distance travelled																							
Integrated Bluetooth 2.1	Wireless connection for audio accessories or data comms																							
Integrated Bluetooth 4.0	Energy efficient Bluetooth for greater battery life																							
Permanent Bluetooth Discovery	Bluetooth "always on" mode used by some applications																							
Dedicated Emergency Button	Orange programmable button for one-touch emergency calling																							
Programmable Buttons	Allow access to most often used features with one press																							
Digital DMR Signalling	DMR standard digital voice communications																							
PL / DPL Signalling	Analogue Private Line / Digital Private Line compatible																							
Quick Call II Signalling	Analogue Quick Call II compatible																							
MDC Signalling	Analogue MDC compatible																							
5 Tone Signalling	Analogue 5 tone compatible																							
DTMF Hot Keypad	DTMF tone compatible																							
MPT1327 Signalling	Analogue MPT1327 compatible (requires option board)																							
Option Board Capability	Supports option boards for third party applications																							
IMPRES Audio Compatible	IMPRES audio ensures your voice is heard clearer and louder																							
SINCR Noise Cancellation	Integrated, advanced noise cancellation for noisy environments																							
Automatic Gain Control	Modifies microphone performance to produce the best voice quality																							
Microphone Distortion Control	Automatic microphone gain adjustment to reduce distortion																							
Trill Enhancement	Additional processing to enhance rolling "r" sound so speech is clearer																							
IMPRES Energy Compatible	Use IMPRES batteries for longer life and optimal performance																							
IMPRES OTA Battery Management	Automatic collection of battery data over the air with radios still in use																							
ATEX Certified	ATEX certified for use in potentially explosive environments																							
IEC Ex Certified	IEC Ex certified for use in potentially explosive environments																							
FM Intrinsically Safe	Factory Mutual (FM) approved for intrinsically safe use																							
TIA4950 Intrinsically Safe	Telecommunications Industry Association (TIA) approved for IS use																							
IP Rating	Rated sealing for dust and water ingress																							
MIL-STD 810	Rated to withstand environmental conditions																							
Dimensions (HxWxL) mm	Physical size																							
Dimensions (Weight)	Physical weight																							
FEATURES AND FUNCTIONS																								
Intelligent Audio	Automatic volume control based on background noise levels																							
User Selectable Audio Profiles	Optimises audio for specific environments and personal preferences																							
Emergency Alarm	Radio can initiate an Emergency call process																							
Lone Worker	Initiates emergency if user does not respond to periodic alerts																							
Remote Monitor	Radio can remotely activate another radio's microphone																							
VOX (supported on radio)	Voice activated calling allows handsfree operation																							
Audio Feedback Suppressor	Blocks feedback from other radios to eliminate "howling"																							
Freeform Text Messaging	User can enter and send free-form text messages																							
Pre-programmed Text Messaging	Radio can send pre-programmed text messages																							
Extended Texting	Maximum text message length is 280 character																							
Vibrate Alert	Vibrate silently alerts the user to an incoming call																							
Covert Mode	Disable display, LEDs and audible tones for ultimate discretion																							
All Call	One-way call to all radios on a logical channel																							
Radio Check	Check if another radio is active on a system without notifying the user																							
Digital Telephone Patch	Ability to connect to telephone system (requires additional hardware)																							
Transmit Interrupt Encode	Radio can interrupt transmissions from other radios																							
Basic Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping																							
Enhanced Privacy	MOTOTRBO 40-bit encryption for more robust protection																							
AES256 Encryption	Advanced Encryption Standard (AES) 256-bit encryption																							
Default Voice Announcement	Audible confirmation of selected operations of the radio																							
Programmable Voice Announcement	Ability to use customised recordings for voice announcements																							
Text-to-Speech Voice Announcement	Radio "reads out" Channel, Zone, Functions, Text Messages, Job Tickets																							
Radio Management	Centralised radio configuration and code plug management																							
Over the Air Programming (OTAP)	Remote, over-air programming using Radio Management																							
Integrated Wi-Fi	Enables remote software updates for easier radio management																							
Indoor Location Tracking	Use built-in Bluetooth with iBeacons and suitable apps to locate and track radios																							
Restricted Access to System	Prevents unauthorised users from communicating through the repeater																							
Radio Enable/Disable	Radio can remotely disable and re-enable another radio																							
Integrated Mandown	Built-in accelerometer enhances personnel safety by monitoring movement																							
Dual Capacity Direct Mode	Use both TDMA time slots to double system capacity without a repeater																							
Telemetry Supported	Integrated basic telemetry capability																							
Telemetry I/O Pins	Number of built-in input/output pins to support telemetry																							
Telemetry Buttons	Number of buttons that can be configured for telemetry																							
Fixed Installation	Mobile radios can be used in a fixed installation such as a control room																							
Control Station	Mobile acts as the RF link between an Application Server and the radio network																							
Remote Mount Control Head	Controls and display can be located separately from radio chassis																							
Data ADKs Available	Data Application Developer Kits are available to ADP members																							
SYSTEM CONFIGURATIONS																								
Direct Mode Operation	Direct radio-to-radio operation																							
Single-Site Conventional	Single site conventional operation (channel selection by users)																							
IP Site Connect	Multi-site conventional operation (channel selection by users)																							
Capacity Plus	Single- or multi-site MOTOTRBO trunking (channel selection managed by system)																							
Capacity Max	Multi-site, DMR Tier III compliant trunking with centralised controller																							
Connect Plus	Multi-site MOTOTRBO trunking with dedicated control channel																							

<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 Li-ion battery  
<sup>4</sup> Option board capability on SL4010e only  
<sup>5</sup> SL4010e only  
<sup>6</sup> Requires keypad microphone  
<sup>7</sup> DP4401e, DP4801e, DP4801 Ex are available with MPT Option Board factory fitted  
<sup>8</sup> DP1400, DM1400 and DM1600 analogue-only models can be upgraded to MOTOTRBO digital by purchasing a software license  
<sup>9</sup> SL1600 Programmable Button can scroll through up to 7 features  
<sup>10</sup> Requires IMPRES battery  
<sup>11</sup> Event & distance driven location updates only supported on models with built-in GPS/GLONASS  
<sup>12</sup> Only DP2400e, DP4401e, DP4801e, DM4401e and DM4601e available in 300MHz versions  
<sup>13</sup> Integrated man down on DP4401e, DP4601e and DP4801e only  
<sup>14</sup> VHF models: 45W / 300MHz & UHF models: 40W  
<sup>15</sup> 20 kHz not supported for all 300MHz models or DM4000e 450-527MHz models  
<sup>16</sup> Maximum output RF power is 2W for frequencies >470MHz