



## GENERAL SPECIFICATIONS

	DP1000 SERIES	DP2000e SERIES	DP3000e SERIES	DP4000e SERIES	DP4000 Ex SERIES	ION SMART RADIO	SL SERIES	DM1000 SERIES	DM2000 SERIES	DM4000e SERIES
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									
Integrated Bluetooth 5.0	Draws less power than Bluetooth 4.2. This helps accessories with small batteries, such as earpieces, last longer.									
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									
Trial 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									
TIA4950 Certified	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									
Certificate Based Wi-Fi Access	WPA / WPA2 Enterprise Wi-Fi support allowing Wi-Fi enabled MOTOTRBO radios to access certificate based Wi-Fi networks									
Rental Timer	Supports the ability to set a timer where the radio will stop functioning after the timer expires									

## SYSTEM CONFIGURATIONS

Direct Mode Operation	Direct radio-to-radio operation									
Single-Site Conventional	Single-site conventional operation (channel selection by users)									
Extended Range Direct Mode	Single-site conventional range extension via single channel repeater									
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									

<sup>1</sup> Integrated Bluetooth, GPS, GLONASS and Wi-Fi are supported on DP4401e, DP4601e, DP4801e, DM4401e & DM4601e only  
<sup>2</sup> Requires keypad microphone  
<sup>3</sup> Only DP2400e, DP4401e, DP4801e, DM4401e and DM4601e available in 300MHz version  
<sup>4</sup> Based on NiMH battery  
<sup>5</sup> MOTOTRBO digital by purchasing a software license  
<sup>6</sup> Event & distance driven location updates only supported on models with built-in GPS / GLONASS  
<sup>7</sup> Only DP2400e, DP4401e, DP4801e, DM4401e and DM4601e available in 300MHz version  
<sup>8</sup> Integrated mandown on DP4401e, DP4801e and DP4801e only  
<sup>9</sup> VHF models 45W / 300MHz & UHF models 45W