

FEATURE COMPARISON CHART



		MOTOTRBO PORTABLE RADIOS												MOTOTRBO MOBILE RADIOS				
		DP1000 SERIES	DP2000e SERIES DP2400e DP2600e	DP4400e/ DP4401e	DP4000e SERIES DP4600e/ DP4600e/ DP4601e DP4601e	DP4401 Ex	DP4000 E	EX SERIES DP4401 Ex Ma	DP4801 Ex Ma	DP3000e S	DP3661e	SL1600	SL SERIES	\$1.400e/ \$1.4010e	DM1000 SERI	DM1600	DM2000 SERIES DM2600	DM4000e SERIES DM4400e/ DM4400e/ DM4401e DM4600e/ DM4601e
		Analogue/Digital or Analogue/Digital Analogue/Digital					GENERAL SP											
Protocol	DMR or analogue communications	Analogue Only	Analogue/Digital VHF: 136-174MHz		Analogue/Digital VHF: 136-174MHz		Analogue/Digital			Analogue/Digital		Analogue/Digital		Digital Only	Analogue/Digit		Analogue/Digital	Analogue/Digital VHF: 136-174MHz
Frequency	Capable of operating in the following frequency ranges	VHF: 136-174MHz UHF: 403-470MHz	UHF: 403-527MHz 300 ¹² : 300-360, 350-400MHz	UHF: 403-527MHz 300 ¹² : 300-360, 350-400MHz		VHF: 136-174MHz UHF: 403-470MHz			VHF: 136-174MHz UHF: 403-527MHz		VHF: 136-174MHz UHF: 403-470MHz	VHF: 136-174MHz UHF: 403-480MHz	UHF: 403-470MHz	VHF: 136-174N UHF: 403-470N		VHF: 136-174MHz UHF: 403-470MHz	UHF: 403-470MHz, 450-527MHz 300 ¹² : 300-360, 350-400MHz	
Max. Power Output Max. Channel Capacity	Radio's full power rating Programmable channel capacity	4W UHF/5W VHF 16	4W 300MHz,UHF / 5W VHF 16 128	4W 3	00MHz,UHF / 5W VHF 1000 1000	32	1W U	HF/VHF 32	1000	4W UHF/5V 32	W VHF 1000	2W(an) / 3W(dig) 99	2W(an) / 3W ¹⁶ (dig) 256	3W 1000	25W or 40/45V 16	V ¹⁴	25W or 40/45W ¹⁴ 256	25W or 40/45W ¹⁴ 99 1000
Channel Spacing Display	Programmable channel spacing Displays provide easy access to advanced features	12.5 / 20 / 25 kHz No	12.5 / 20 ¹⁵ / 25 kHz No 2 line monochrome		2.5 / 20 ¹⁵ / 25 kHz 5 line colour 5 line colour	No	5 line colour	0 / 25 kHz No	5 line colour	12.5 / 20 / 25 kHz 1 No	12.5 / 20 / 25 kHz 5 line colour	12.5 / 20 / 25 kHz Single line scrolling	12.5 / 20 / 25 kHz 2 line OLED	12.5 kHz 5 line colour	12.5 / 20 / 25 k 2-digit numeric 2 line	e monochrome 2	12.5 / 20 / 25 kHz 2 line monochrome	12.5 / 20 ¹⁵ / 25 kHz 2-digit numeric 4 line colour
Keypad Integrated GPS	Keypads provide access to radio controls, texting and telephony Embedded GPS receiver for location monitoring	No No	No Menu buttons No	No	Menu buttons Full Keypad Yes ¹	No Y	Full Keypad Yes	No No	Full Keypad No	No Yes	Menu buttons	No No	4 virtual buttons No	Full Keypad No	No M No	lenu buttons	Menu buttons No	No Menu buttons Yes ¹
Integrated GLONASS Event Driven Location Updates	Embedded GLONASS receiver for location monitoring Location update based on input from external device (eg door senser)	No No	No No No		Yes ¹¹		1	No No		No Yes	No	No No	No No	No No	No No		No No	Yes ¹ Yes ¹¹
Distance Driven Location Updates Integrated Bluetooth 2.1 Integrated Bluetooth 4.0	Location update transmission based on distance travelled Wireless connection for audio accessories or data comms Energy efficient Bluetooth for greater battery life	No No No	No No		Yes ¹¹ n/a		1	No No		n/a	n/a	No No	n/a Audio and Data	No n/a Audio and Data	No No		No No	Yes ¹¹ n/a
Permanent Bluetooth 4.0 Dedicated Emergency Button	Bluetooth "always on" mode used by some applications	No No	No No	Audio and Data ¹ Option (Bluetooth models only) Yes		No No Yes			Audio and Data Audio and Data Option Yes		No No	Option No	Option Yes	No No		No No	Audio and Data ¹ No No	
Programmable Buttons Digital DMR Signalling	Orange programmable button for one-touch emergency calling Allow access to most often used features with one press DMR standard digital voice communications	2 Yes ⁸	2 4 Yes	3	5 5 Yes	3	5 Y	3 (es	5	2 Yes	4	1 9 Yes	1 Yes	2 Yes	2 Vae ⁸	4	4 Yes	4 Yes
PL / DPL Signalling Quick Call II Signalling	Own Sanada duginal voice ominimications Analogue Private Line / Digital Private Line compatible Analogue Quick Call II compatible	Yes Yes	Yes Yes		Yes Yes		Y	res res		Yes Yes		Yes Yes	Yes Yes	No No	Yes Yes		Yes Yes	Yes Yes
MDC Signalling 5 Tone Signalling	Analogue MDC compatible Analogue 5 tone compatible	Yes No	Yes Yes		Yes Yes		Y	res res		Yes Yes		Yes Option	Yes Yes	No No	Yes No		Yes Yes	Yes Yes
DTMF Hot Keypad MPT1327 Signalling	DTMF tone compatible Analogue MPT1327 compatible (requires option board)	No No	No No	No	No Yes Option ⁷	No No	Yes Option ⁷	No No	Yes Option ⁷	No No		No No	No No	No No	Yes ⁶ No	Yes ⁶	Yes ⁶ No	Yes ⁶ Option
Option Board Capability IMPRES Audio Compatible	Supports option boards for third party applications IMPRES audio ensures your voice is heard clearer and louder	No No	No Yes		Yes Yes	No	Yes	No /es	Yes	Yes Yes		No No	No No	Yes ⁴ No	No No		Yes No	Yes Yes
SINC+ Noise Cancellation Automatic Gain Control	Integrated, advanced noise cancellation for noisy environments Modifies microphone performance to produce the best voice quality	No Yes	Option Yes		Option Yes		Y	otion /es		Option Yes	n	No Yes	Option Yes	Option Yes	No Yes		Option Yes	Option Yes
Microphone Distortion Control Trill Enhancement	Automatic microphone gain adjustment to reduce distortion Additional processing to enhance rolling "r" sound so speech is clearer	No Yes	No Yes		Yes Yes		Y	/es /es		No Yes	Yes	No Yes	No Yes	No Yes	No Yes		No Yes	No Yes
IMPRES Energy Compatible IMPRES OTA Battery Management	Use IMPRES batteries for longer life and optimal performance Automatic collection of battery data over the air with radios still in use	No No	Yes Yes ¹⁰		Yes Yes ¹⁰		Ye	es ¹⁰		Yes Yes ¹⁰	0	No No	No No	No No	n/a n/a		n/a n/a	n/a n/a
ATEX Certified	ATEX certified for use in potentially explosive environments	No	No		No	Mining: I M	Dust: Class II 2D E //2 Ex ib I Mb	G Ex ib IIC T4 Gb Ex ib IIIC T130 °C Db Mining: I M b IIC T4 Gb	//1 Exia I Ma	No		No	No	No	No		No	No
IEC Ex Certified	IEC Ex certified for use in potentially explosive environments	No	No		No	Mining:		IIC T130°C Db	Ex ia I Ma	No		No	No	No	No		No	No
FM Intrinsically Safe TIA4950 Intrinsically Safe	Factory Mutual (FM) approved for intrinsically safe use Telecommunications Industry Association (TIA) approved for IS use	No No	No TIA4950	F	actory Mutual (FM) TIA4950		1	No No		No TIA495	50	No No	No No	No No	No No		No No	No No
IP Rating MIL-STD 810	Rated sealing for dust and water ingression Rated to withstand environemental conditions	IP54 C, D, E, F & G	IP67 C, D, E, F & G		IP68 C, D, E, F & G			P67 E, F & G		IP68 C, D, E, F		IP54 C, D, E, F & G	IP54 C, D, E, F & G	IP54 C, D, E, F & G	IP54 C, D, E, F & 0	G	IP54 C, D, E, F & G	IP54 C, D, E, F & G
Dimensions (HxWxL) mm Dimensions (Weight)	Physical size Physical weight	128 x 62 x 39 ³ 341g ³	122 x 56 x 36 ³ 122 x 56 x 36 ³ 265g ³ 282g ³	130 x 55 x 34 ³ 295 g ³	130 x 55 x 36 ³ 130 x 55 x 36 ³ 330 g ³ 330 g ³	138 x 57 x 38 ³ 456g ³	138 x 57 x 40 ³ 482g ³	138 x 57 x 38 ³ 456g ³	138 x 57 x 40 ³ 482g ³	100 x 55 x 30 ³ 254g ³	100 x 55 x 36 ³ 290g ³	126 x 55 x 22 ³ U:166g ³ V:169g ³	126 x 55 x 23 ³ 190g ³	121 x 55 x 17 ³ 154g ³	44 x 169 x 13 1.3kg	34	44 x 169 x 134 1.3kg	53 x 175 x 206 1.8kg
Intelligent Audio	Automatic volume control based on background noise levels	No	Yes	_	Yes	_	Y	/es	FEATURES AN	ID FUNCTIONS Yes	_	No	Yes	Yes	No	_	Yes	Yes
User Selectable Audio Profiles Emergency Alarm	Optimises audio for specific environments and personal preferences Radio can initiate an Emergency call process	No Yes	Yes Yes		Yes Yes			res res		Yes Yes		No Yes	Yes Yes	Yes Yes	No Yes		Yes Yes	Yes Yes
Lone Worker Remote Monitor	Initiates emergency if user does not respond to periodic alerts Radio can remotely activate another radio's microphone	Yes Decode Only	Yes Decode Only Yes	Decode Only	Yes Yes		Y Y	/es /es		Yes Yes		Yes Decode Only	Yes Yes	Yes Yes	Yes Decode Only	y	Yes Yes	Yes Yes
VOX (supported on radio) Audio Feedback Suppressor	Voice activated calling allows handsfree operation Blocks feedback from other radios to eliminate "howling"	Yes Yes	Yes Yes		Yes Yes		Y	res res		Yes Yes		Yes Yes	Yes Yes	Yes Yes	Yes No		Yes Yes	Yes Yes
Freeform Text Messaging Pre-programmed Text Messaging	User can enter and send free-form text messages Radio can send pre-programmed text messages	No Yes	No Yes	No	No Yes Yes	No		No /es	Yes	No Yes		No Yes	No Yes	Yes Yes	No Yes		No Yes	Yes ⁶ Yes
Extended Texting Vibrate Alert	Maximum text message length is 280 character Vibrate silently alerts the user to an incoming call	No No	Yes Option		Yes Option No		1	/es No No		Yes No No		No No	Yes No	Yes Yes	No No No		Yes No	Yes No No
Covert Mode All Call Radio Check	Disable display, LEDs and audible tones for ultimate discretion One-way call to all radios on a logical channel Check for any the radio is called a proper without additional to use a contract of the contr	No Decode Only	No Yes	Docado Only	Yes	Docado Only	Y	/es	Voc	Yes		No Decode Only	Yes Yes	Yes Yes	Decode Only Decode Only		No Decode Only	Yes
Radio Check Digital Telephone Patch Transmit Interrupt Encode	Check if another radio is active on a system without notifying the user Ability to connect to telephone system (requires additional hardware) Radio can interrupt transmissions fromother radios	Decode Only No Decode Only	Decode Only Yes Option Option	Decode Only	Yes Yes Yes Yes	Decode Only		Decode Only /es /es	Yes	Decode Only Yes Yes	Yes	No Decode Only Decode Only	Yes Option Option	Yes Yes Yes	No Decode Only		Yes Option Option	Decode Only Yes Yes Yes
Basic Privacy Enhanced Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping MOTOTRBO 40-bit encryption for more robust protection	Yes No	Yes Option		Yes Yes		Y	res res		Yes Yes		Yes No	Yes Option	Yes Yes	Yes No		Yes Option	Yes Yes
AES256 Encryption Default Voice Announcement	Advanced Encryption Standard (AES) 256-bit encryption Audible confirmation of selected operations of the radio	No Yes	No Yes		Option Yes			otion /es		Option Yes	n	No Yes	No Yes	Option Yes	No Yes		No Yes	Option Yes
Programmable Voice Announcement Text-to-Speech Voice Announcement	Ability to use customised recordings for voice announcements Radio "reads out" Channel, Zone, Functions, Text Messages, Job Tickets	Yes No	Yes No		Yes Option			res otion		Yes Option		Yes No	Yes No	Yes Option	Yes No		Yes No	Yes Option
Radio Management Over the Air Programming (OTAP)	Centralised radio configuration and code plug management Remote, over-air programming using Radio Management	Yes No	Yes Yes		Yes Yes			res res		Yes Yes		Yes No	Yes Yes	Yes Yes	Yes No		Yes Yes	Yes Yes
Integrated Wi-Fi Indoor Location Tracking	Enables remote software updates for easier radio management Use built-in Bluetooth with iBeacons and suitable apps to locate and track radios	No No	No No		Option ¹ Option ¹		1	No No		Option Option	n	No No	Yes Option	Option Option	No No		No No	Option ¹ Option ¹
Restricted Access to System Radio Enable/Disable	Prevents unauthorised users from communicating through the repeater Radio can remotely disable and re-enable another radio	Yes Decode Only	Yes Decode Only Yes	Decode Only	Yes Yes	Decode Only	Yes	/es Decode Only	Yes	Yes Decode Only	Yes	Yes Decode Only	Yes Yes	Yes Yes	Yes Decode Only	У	Yes Yes	Yes Decode Only Yes
Integrated Mandown Dual Capacity Direct Mode	Built-in accelerometer enhances personnel safety by monitoring movement Use both TDMA time slots to double system capacity without a repeater	No Yes	No Yes No		Yes Yes		Y	/es /es /es		Yes Yes		No Yes	No Yes	Yes Yes	Yes		No Yes	No Yes Yes
Telemetry Supported Telemetry I/O Pins Telemetry Buttons	Integrated basic telemetry capability Number of built-in input/output pins to support telemtery Number of built-ons that can be configured for telemetry	No n/a n/a	n/a n/a		3		Ť	3		n/a n/a		No n/a n/a	No n/a n/a	Yes 0 3	n/a n/a		Yes 4 3	5
Telemetry Buttons Fixed Installation Control Station	Number of buttons that can be configured for telemetry Mobile radios can be used in a fixed installation such as a control room Mobile acts as the RF link between an Application Server and the radio network	n/a n/a	n/a n/a		n/a n/a		n	n/a n/a		n/a n/a		n/a n/a	n/a n/a	n/a n/a	Yes No		Yes Yes	Yes Yes
Remote Mount Control Head Data ADKs Available	Controls and display can be located separately from radio chassis Data Application Developer Kits are available to ADP members	n/a No	n/a No		n/a Yes		n	n/a /es		n/a Yes		n/a No	n/a No	n/a Yes	No No		No No	Option Yes
	Direct radio-to-radio operation						SYSTEM CONFIGURATIONS Yes Yes								Voc			
Direct Mode Operation Single-Site Conventional	Single site conventional operation (channel selection by users)	Yes Yes Option	Yes Yes Yes		Yes Yes Yes		Y	res res res		Yes Yes Yes		Yes Yes Option	Yes Yes Yes	Yes Yes Yes	Yes Yes No		Yes Yes Yes	Yes Yes Yes
IP Site Connect Capacity Plus Capacity Max	Multi-site conventional operation (channel selection by users) Single- or multi-site MOTOTRBO trunking (channel selection managed by system) Multi-site, DMR Tier III compliant trunking with centralised controller	No No	Option No		Yes Option		Y	res res ption		Yes Option		No No	Option No	Yes Option	No No		Option No	Yes Option
Connect Plus	Multi-site MOTOTRBO trunking with dedicated control channel	No	No		Option	No	Option	No	Option	No		No	No	Option ⁵	No		No	Option
' Integrated Bluetooth, GPS, GLONASS and Wi-F	Fi are supported on DP4401e, DP4601e, DP4801e, DM4401e & DM4601e only	⁵ SL4010e only				" SL1600 Programmable Bi	utton can scroll through up to 7	7 features							¹³ Integrated man down on DP4401e.	, DP4601e and DP4801e	1e only	

¹ Integrated Bluebooth, GPS, GLONASS and WI-FI are supported on DP4401e, DP4601e, DP4801e, DM4401e & DM4601e only ² Based on NIMM battery ³ Dased on standard Li-Jon battery ⁴ Option board capability on SL4010e only

⁹ St. 1600 Programmable Button can scroll through up to 7 features ¹⁰ Requires IMPRES battlery ¹¹ Event 8 distance offers in cation updates only supported on models with built-in GPS/GLONASS ¹² Only DP2400e, IP4401e, DP4801e, DM4401e and DM4601e available in 300MHz versions

[&]quot;Integration train down on DF-wave, DF-moor to an on a constraint of "Mr HF models". 45W / 300MHZ, & UHF models: 40W / 30 MHZ models or DM4000e 450-527MHz models of Maximum output RF power is 2W for frequencies >470MHz