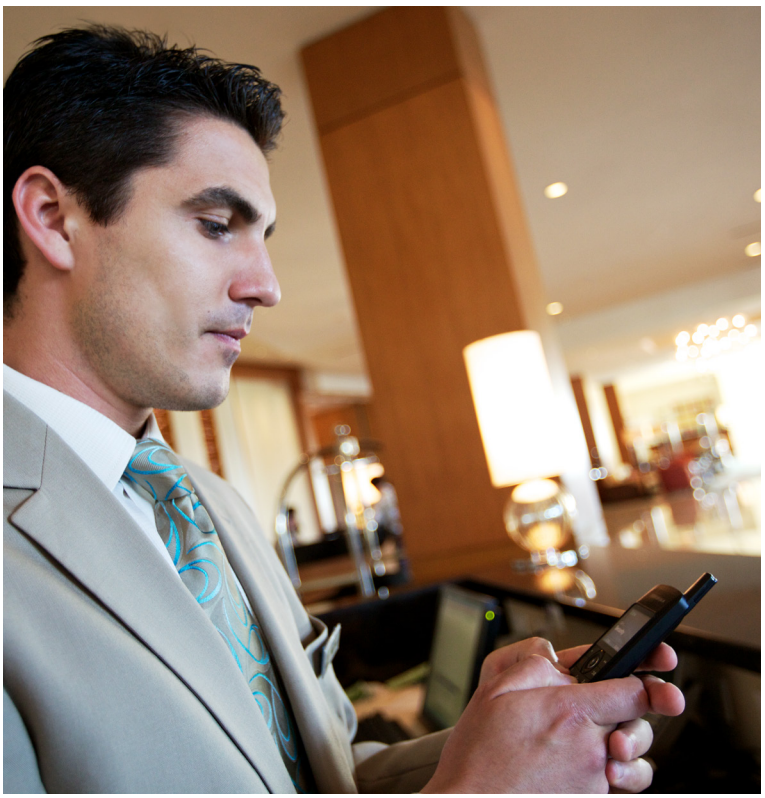
MOTOTRBO™

TWO-WAY RADIO SYSTEMS AT A GLANCE



BE SAFER, MORE EFFICIENT AND MORE PRODUCTIVE

WITH THE POWERFUL DIGITAL PERFORMANCE AND ADVANCED CAPABILITIES OF MOTOTRBO.

DISCOVER WHAT MOTOTRBO CAN DO THROUGHOUT YOUR ORGANISATION

Two-way radios are the go-to technology for companies around the world – connecting people wherever they need clear, instant and reliable communications. MOTOTRBO is a portfolio of analogue and digital two-way radios that enable voice and data communications. It combines the best of two-way radio functionality with the latest digital technology for instant communication, easy decision-making and seamless coordination.

MOTOTRBO brings all the benefits of push-to-talk communications in an incredibly powerful tool that takes productivity, efficiency and safety to a whole new level. MOTOTRBO is truly the next generation of business communications.

HEAR AND BE HEARD CLEARLY IN NOISY ENVIRONMENTS

Superb audio quality on MOTOTRBO ensures crystal-clear communications. The Intelligent Audio feature automatically adjusts radio volume up and down in response to the level of noise in the workplace. And with MOTOTRBO's background noise suppression, you can be confident communication is loud and clear.

REACH YOUR WORKFORCE WHEREVER THEY GO

Hear calls clearly over a greater range. MOTOTRBO digital voice delivers voice integrity and clarity to the limits of coverage. And thanks to DMR TDMA technology, MOTOTRBO delivers twice the call capacity of analogue radios so more workers can use voice and data, without worrying about privacy or interference.

KEEP COMMUNICATING FOR LONGER

Because MOTOTRBO radios use much less power in digital mode than analogue, batteries last significantly longer on a single charge.

CHOOSE THE RIGHT SOLUTIONS FOR THE RIGHT USERS

Whether you want ultra-light portables or extra-tough mobiles, integrated Bluetooth® or industry-leading data applications, MOTOTRBO has the right devices and systems to fit your workforce now, and allow you to evolve as your enterprise grows.

MOVE FROM ANALOGUE TO DIGITAL WITH EASE

Migrate at your own pace, one talk group or department at a time. MOTOTRBO radios operate in both analogue and digital mode, so you can use them on your existing analogue system and move to digital when you're ready – all while running operations smoothly.

GET ADVANCED CAPABILITIES AND BUSINESS-CRITICAL FEATURES

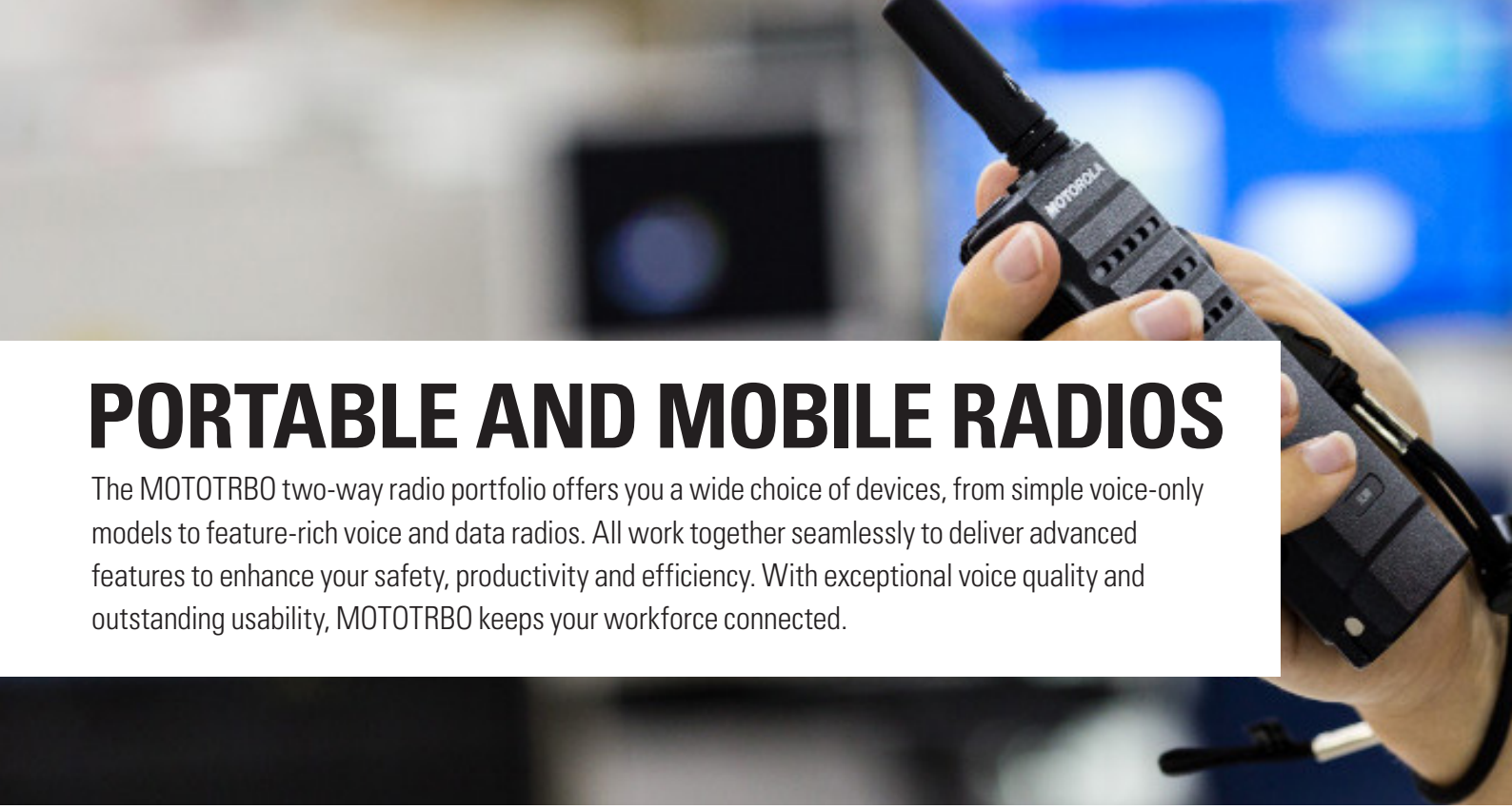
MOTOTRBO has innovative features such as Transmit Interrupt, which lets you prioritize communication the moment it's needed. Man Down and Lone Worker applications call for help when personnel can't. GPS location tracking monitors vehicles, assets and the user in real time.

LEVERAGE EXPERT APPLICATIONS THAT GET THE JOB DONE EFFICIENTLY

MOTOTRBO fits the way businesses run today, with an expert Application Developer Programme that helps you customize your communication solution to your environment and workforce. Solutions range from text messaging and GPS tracking to personnel monitoring and work order ticket management. Applications like these make it easier to accomplish multiple tasks on a single device.

KEEP CONNECTED WHEN CONDITIONS ARE TOUGHEST

MOTOTRBO is made to last. Our rugged, waterproof and intrinsically safe radios endure a rigorous Accelerated Life Testing (ALT) Programme which simulates up to 5 years of field use. We design and engineer MOTOTRBO products to survive the harsh conditions of everyday business.



PORTABLE AND MOBILE RADIOS

The MOTOTRBO two-way radio portfolio offers you a wide choice of devices, from simple voice-only models to feature-rich voice and data radios. All work together seamlessly to deliver advanced features to enhance your safety, productivity and efficiency. With exceptional voice quality and outstanding usability, MOTOTRBO keeps your workforce connected.

SL4000 SERIES

SLEEK AND SMART FOR THE BUSINESS LEADER WHO MUST LOOK PROFESSIONAL

Stay instantly connected and in control with the incredibly thin, light portable that is the ultimate in discreet communications. Versatile and powerful, the SL4000 Series weighs as little as an average smartphone. Its slim design and forward-thinking features such as Intelligent Audio, integrated Bluetooth and covert mode enhance your professionalism and responsiveness.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✔ CONNECT PLUS

DP3441

BIG PERFORMANCE FROM A SMALL, RUGGED AND WATERPROOF RADIO

Incredibly compact and exceptionally rugged, the MOTOTRBO DP3441 is the perfect solution for the professional on the move. It fits comfortably in your hand, integrates voice and data seamlessly and is loaded with all the benefits of the latest digital technology – superb audio quality, amazing clarity, outstanding coverage, long-lasting battery life and more: all packaged in a robust and waterproof IP67-rated form factor.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✖ CONNECT PLUS

DP4000 EX SERIES ATEX-CERTIFIED

SPECIALISED PRODUCTS FOR POTENTIALLY EXPLOSIVE AREAS

The DP4401 Ex and DP4801 Ex are ATEX and IEC Ex certified for use in potentially explosive environments. They have a comprehensive feature set, and have blue colouring for easy identification. The radios are available with a dedicated portfolio of ATEX certified accessories.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✔ CONNECT PLUS

DP4000 SERIES

A COMMUNICATIONS POWERHOUSE FOR DEMANDING USERS

Experience voice and data communications like never before. The DP4000 Series offers a full set of features and rich functionality in one powerful device. It delivers superb audio quality, full colour display, integrated Bluetooth for audio and data, enhanced GPS, text messaging and expert applications customized to your business. The DP4000 Series radios offer a Factory Mutual (FM) certified option for use in hazardous environments.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✔ CONNECT PLUS

DP2000 SERIES

AFFORDABLE VOICE COMMUNICATIONS FOR THE BUSY PROFESSIONAL WHO WANTS BETTER CONNECTIVITY

Get superb audio in a scalable portable that lets you migrate to digital at your own pace. The DP2000 Series features Intelligent Audio and voice announcement for easy communication in challenging environments. With analogue and digital capabilities and the ability to expand features with a simple software upgrade, you can transition to digital when you're ready.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✖ CONNECT PLUS

SL1600

ULTRA-PORTABILITY FOR THE USER WHO NEEDS EASY CONNECTIVITY

Discover freedom with this slim, lightweight radio. Advanced technology brings high performance with intuitive operation and the eye-catching Active View display combines ruggedness and simplicity with long battery life. A versatile range of carry options allow you to stay connected and free to focus on the job at hand.

COMPATIBLE WITH: ✖ IP SITE CONNECT ✖ CAPACITY PLUS ✖ LINKED CAPACITY PLUS ✖ CONNECT PLUS

DP1400

SIMPLE VOICE COMMUNICATIONS FOR THE EVERYDAY USER WHO WANTS TO STAY CONNECTED

Connect your workforce efficiently and affordably and make the move to digital as your business grows. The DP1400 two-way analogue/digital radio provides great voice communication now, or buy the analogue-only model to integrate into your existing system and software-upgrade to digital when you're ready. It features superior audio quality, outstanding coverage and long battery life.

COMPATIBLE WITH: ✖ IP SITE CONNECT ✖ CAPACITY PLUS ✖ LINKED CAPACITY PLUS ✖ CONNECT PLUS

DM4000 SERIES

A COMMUNICATIONS POWERHOUSE FOR DEMANDING USERS

Work smarter and safer with this high-performing digital mobile. The DM4000 Series offers a full set of features and rich functionality in one powerful device. It delivers superb audio and quality, optional full colour display, integrated Bluetooth for audio and data, enhanced GPS, text messaging and expert applications customized to your business.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✔ CONNECT PLUS

DM2600

AFFORDABLE VOICE COMMUNICATIONS FOR THE BUSY PROFESSIONAL WHO WANTS BETTER CONNECTIVITY

The power of digital is within reach. The DM2600 mobile features integrated voice systems capability, twice the calling capacity and clearer voice communications. With Intelligent Audio, drivers don't need to adjust radio volume to avoid missing a call: the DM2600 monitors background noise and automatically adjusts itself.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS ✔ LINKED CAPACITY PLUS ✖ CONNECT PLUS

DM1000 SERIES

SIMPLE VOICE COMMUNICATIONS FOR THE EVERYDAY USER WHO WANTS TO STAY CONNECTED

Make sure drivers communicate without distraction. DM1400 and DM1600 mobile radios are ideal for keeping your people reliably and cost-effectively connected so they can communicate, coordinate and collaborate. They offer all the benefits of digital plus business-critical features, such as Transmit Interrupt (decode only) to prioritize critical communication.

COMPATIBLE WITH: ✖ IP SITE CONNECT ✖ CAPACITY PLUS ✖ LINKED CAPACITY PLUS ✖ CONNECT PLUS

INFRASTRUCTURE

Repeaters, controllers and gateways are the backbone of your MOTOTRBO two-way radio system. They ensure your radio network is available at all times and that communications are clear, reliable and secure across your enterprise.

DR3000 REPEATER

Maximize the performance of your MOTOTRBO system with up to 45W DR3000 repeaters. They utilize dynamic mixed mode capability to ease migration by automatically switching between analogue and digital mode. The DR3000 Series supports two simultaneous voice or data paths in digital mode, doubling capacity without adding new frequencies.

MTR3000 HIGH POWER REPEATER

Extend coverage and capacity easily with the MTR3000. This 100 Watt base station/repeater operates in digital mode in MOTOTRBO Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus systems. The MTR3000 can also operate in analogue mode for conventional systems.

XRC 9100 CONTROLLER

Deliver greater coverage and information to mobile teams. The XRC 9100 supports single or multi-site Connect Plus systems and handles up to 29 voice and data talk paths (2,900 users) per site. Queue calls during busy times until an open channel is available and assign important users priority status when the system is in high demand.

XRT 9100 GATEWAY

Reach your large workforce in the field efficiently. The XRT 9100 links Connect Plus with an IP-based wire-line console for centralized dispatch. From a single site to a full 70-site system, it ensures calls come through, even when traffic is high, and manages up to 100 talk paths and 30 simultaneous calls.

XRI 9100 INTERCONNECT GATEWAY

With the MOTOTRBO Connect Plus Telephone Interconnect feature, you can connect your staff to people inside and outside your business, on their fixed or mobile phones. Handle customer queries direct, and manage inter-company transactions seamlessly. The MOTOTRBO Connect Plus XRI 9100 Interconnect Gateway improves your efficiency and responsiveness.

WAVE 3000 SERVER

Get robust and secure management of your client accounts. The WAVE 3000 Server provides the interface between public cellular networks and the MOTOTRBO radio network for secure centralized configuration, flexible client management, call history, upgrades and diagnostics.

SYSTEMS

No matter how large or small your organisation, MOTOTRBO offers a wide range of systems specifically designed for your business. And because MOTOTRBO systems are easily scalable, they can meet your needs in the days ahead and expand if necessary in the years beyond. You get the best of two-way radio with digital technology and enjoy integrated voice and data communication, increased capacity, enhanced features and exceptional voice quality, across the city and around the globe.

SINGLE SITE CONVENTIONAL

A conventional system can operate with direct radio-to-radio communications or radios can communicate via a repeater, giving better coverage.

The Digital Voting option allows a network of repeaters to be interconnected to offer even greater coverage for wide areas and difficult geographies.

IP SITE CONNECT

Use your IP network to extend the voice and data capabilities of MOTOTRBO by linking repeaters together. You can create a continuous network that covers employees at 15 geographically-dispersed locations.

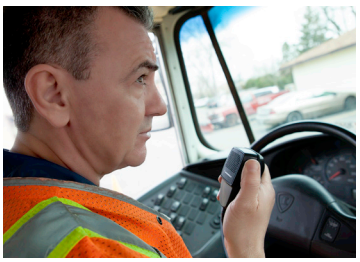
You can also link up to 15 sites to create wide area coverage or enhance coverage at a single site that has physical barriers.

CAPACITY PLUS

Opt for this single site, digital trunking system that maximizes the capacity of MOTOTRBO by connecting several repeaters together. You can use it for a high volume of voice and data communication and link over a thousand users at a single site.

LINKED CAPACITY PLUS

Expand the capacity and extend the coverage of MOTOTRBO with this multi-site, digital trunking system. It leverages the call management of Capacity Plus with the wide area coverage capabilities of IP Site Connect to keep employees at many locations affordably connected.

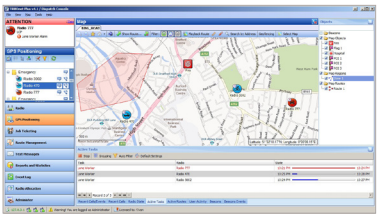


CONNECT PLUS

Unify your entire enterprise with this scalable, multi-site digital trunking system that coordinates resources using a dedicated control channel. Calls can be queued during busy times until an open channel is available, important users can be assigned priority status, and a three-level check helps to prevent unauthorized users from accessing the system.

MOTOTRBO CONTROL ROOM SOLUTIONS

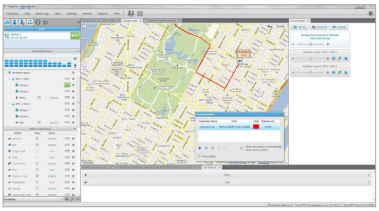
With options designed for your business, this portfolio of control room solutions has the features you need to make quick decisions, mobilize a fleet and keep teams informed.



SOLD AND SUPPORTED

TRBONET PLUS

With TRBOnet PLUS, operators can monitor audio, data and asset location, as well as provide record management and review events that have taken place. It's easy to track staff and key assets on a live map, send and receive private text messages to personnel in the field and respond quickly and effectively to emergency situations. Dispatchers can also link multiple agencies or departments with a single touch for even greater flexibility.



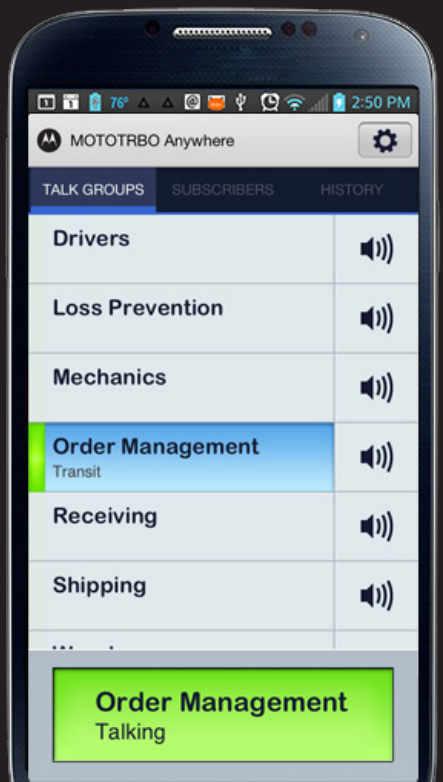
SOLD AND SUPPORTED

SMARTPTT PLUS

SmartPTT PLUS provides a flexible range of services to dispatchers, executives and team leaders, helping them manage their fleet and optimise productivity of workers and assets. The customisable user interface with hot keys enables quick and easy control. Monitor audio, data and asset location, access up-to-the-minute records and review events. Track staff and send or receive private text messages to personnel in the field for a quick response to emergencies.

SOLD AND SUPPORTED

Products bearing the "Motorola Solutions Sold and Supported" logo are premium products developed by Motorola Solutions partners to fulfill critical functions in MOTOTRBO systems. These products are tested and integrated in direct cooperation with Motorola. They are sold through Motorola Channel Partners and supported through Motorola's customer service teams.



SYSTEM APPLICATIONS

WAVE 3000

Connect without limits. WAVE 3000 is a solution that allows you to communicate with MOTOTRBO users and talkgroups with an Android or iOS application on your mobile device. WAVE 3000 connects via a wireline server and gateway to the MOTOTRBO system to deliver radio-like features over an IP network. Large numbers of talkgroups can be accommodated, and every external user can be configured with a unique profile as necessary. The smartphone application is available for iOS devices through iTunes and for Android devices through the Google Play Store. User licenses are required.

CUSTOMISED SOLUTIONS

BUILD BESPOKE SYSTEMS WITH RADIOS, INFRASTRUCTURE, ACCESSORIES AND APPLICATIONS COMBINED TO MEET SPECIFIC BUSINESS AND USER NEEDS.

ACCESSORIES

From discreet earpieces to efficient battery solutions, our complete portfolio of accessories optimize the performance of your MOTOTRBO radio. They are designed to help you perform your best, wherever you work, and unleash the power of the industry's most advanced digital radio platform.

EARPIECES

Transmit and receive discreetly with a variety of earpieces that feature a streamlined design and rugged cables that withstand tough conditions. With inline push-to-talk and microphones, they're easy to use on the go. Our flexible array of surveillance kits includes two-wire kits (one wire for receiving, one wire for transmitting) and more discreet three-wire kits (separate wires for transmitting, receiving and push-to-talk).

HEADSETS

Protect hearing and facilitate communications in noisy or ATEX environments. Select from a wide range of comfortable, durable, lightweight to heavyweight headsets with noise-cancelling boom microphones and in-line push-to-talk controls. Temple transducer headsets rest on your temple to convert audio into sound vibration and transmit it to your inner ear. You hear your radio and sounds in the surrounding environment and since the transducer sits in front of your ears, you can also wear earplugs or a helmet.

BLUETOOTH® WIRELESS FOR PORTABLE AND MOBILE RADIOS

Unleash the power of your MOTOTRBO radio without wires getting in the way. Our extensive suite of Bluetooth accessories free you to take the radio off your belt, leave your vehicle or step away from your desk (up to 10 metres / 30 feet away) and stay connected. Choose from covert earpieces, heavy duty wireless headsets, RSMs and Operations Critical Wireless solutions that let you move without constraints around the workplace.

BATTERIES AND CHARGERS

Motorola's batteries are developed, tested and certified for optimal performance with your MOTOTRBO radios and they outperform other brands even at temperatures as low as -30 degrees C. Reduce the number of spare batteries you buy with Motorola's unique IMPRES™ technology. IMPRES batteries can be charged 150 additional times versus a standard battery – a 43% increase in charge cycles. Choose from single-unit, multi-unit and travel chargers and be confident your radio is ready when you need it. Get the most out of every battery and eliminate the surprise of "low battery alerts" with IMPRES chargers.

REMOTE SPEAKER MICROPHONES

Communicate clearly in loud workplaces. Remote speaker microphones (RSM) have exclusive audio features for windy outdoor environments (windporting) and noisy environments (noise-cancelling). IMPRES audio ensures your voice is heard clearer and louder regardless of how you speak into the accessory. The INC RSM suppresses extreme noise (high decibel equipment, heavy machinery) so you can be heard above all.

MOBILE RADIO MICROPHONES

Choose microphones designed to keep workers safely connected on the move. Keypad microphones let you easily navigate menus on your radios, dial phone numbers and send text messages. The heavy-duty microphone is easy to use while wearing gloves, and the telephone-style handset is ideal for discreet communication.

CARRY SOLUTIONS

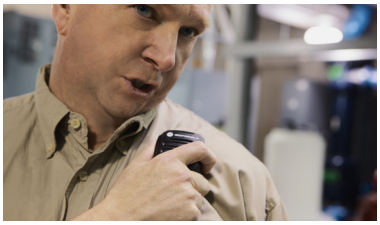
Carrying cases are available in sizes designed to fit your radio and battery and permit audio to be heard clearly. Our carry accessories keep your hands free, so you can concentrate on the task at hand. Choose from a wide range of nylon cases, leather cases, straps, holsters and clips, all designed to keep your radio protected, yet still easy to access.

INSTALLATION AND MOUNTING KITS

Mount your radio on a desk or in your vehicle without compromising safety. Mounting kits give you the flexibility to mount the radio, under or in your dashboard, between seats or on the floor. Remote mount kits allow you to mount the radio in the truck when dash space is limited.

SERVICES

Ensure and maintain the robust performance of your MOTOTRBO radios with a complete suite of services. We've got you covered, from pre-installation to post-implementation, with expert support to make sure your business runs without interruption, disruption or unplanned downtime.



SERVICE FROM THE START (SFS)

This multi-year repair programme offers you a choice of normal wear and tear coverage or comprehensive coverage. No matter what happens to your MOTOTRBO device, you're covered.

PROGRAMMING SERVICES

These on-site or remote consultative technical support services optimize the operational efficiency of MOTOTRBO. They are ideal for programming and configuring MOTOTRBO systems and devices at the time of installation.

RF COVERAGE MAPPING SERVICE

These informational RF coverage maps increase the efficiency of the MOTOTRBO system during the design and deployment phase.

SITE INTEGRATION SERVICE

This on-site or remote consultative technical support service is ideal for integrating MOTOTRBO systems into your existing infrastructure. It reduces time during system deployment.

INFRASTRUCTURE REPAIR/ INFRASTRUCTURE REPAIR WITH ADVANCED REPLACEMENT

This service provides expert repair of MOTOTRBO Controller (XRC) and Gateway (XRT) devices. As an option, you can receive a next-business-day replacement unit to minimize system downtime.

IP NETWORKING

This on-site or remote consultative technical support service maximizes your system's uptime. It validates and optimizes the IP network and site connectivity of your MOTOTRBO system during integration.

MOTOTRBO APPLICATIONS

With a wide range of applications and an expert Application Developer Programme, MOTOTRBO offers custom solutions that truly meet your business needs. Business-specific applications like these increase the level of efficiency, safety and productivity throughout your enterprise.

ALARM MANAGEMENT

Be alerted and respond rapidly with tracking applications that can monitor and remotely operate doors, gates, lights, sprinklers and more.

INTEROPERABILITY SOLUTIONS

Interoperate seamlessly and efficiently with other radio systems, telephony systems and mobile computing devices. Patch private calls, group calls and All Calls.

PERSONNEL TRACKING

Collect field data such as meter readings, bus time and attendance and hospitality supply requests. Enhance workforce safety with lone worker and man-down emergency alarms.

SYSTEM MONITORING

Stay in control of your communication system, with applications that track performance by site, channel, slot and talkgroup. Send automatic alerts to system administrators, and generate reports for long term trend analysis.

TEXT MESSAGING AND EMAIL

Quickly and easily share information when voice communication isn't practical. Send messages or directions that don't need an immediate response, or when voice calls are disrupting to employees in the field or on the road.

VOICE DISPATCH

Control your mobile workforce from a centralized location. Dispatchers can be notified each time a radio is turned on and display a comprehensive view of who is available and who is not. GPS coordinates allow the dispatcher to immediately see where the user is on a map.

WORK ORDER MANAGEMENT

Manage workflows directly on the radio. Mobile workers can notify dispatch when the job is done, letting you track cycle time. Resolve customer issues faster, speed up response time and use your workforce more efficiently.

MOTOTRBO PORTABLE RADIO FEATURES

		DP1000 SERIES	DP2000 SERIES		DP4000 SERIES			DP4000 Ex SERIES		DP3441	SL SERIES	
FEATURE	**DESCRIPTION**	**DP1400**	**DP2400**	**DP2600**	**DP4400/ DP4401**	**DP4600/ DP4601**	**DP4800/ DP4801**	**DP4401 Ex**	**DP4801 Ex**	**DP3441**	**SL1600**	**SL4000/ SL4010**
GENERAL SPECIFICATIONS												
Protocol	DMR digital or analogue communication	Analogue/ Digital or Analogue Only	Analogue/Digital		Analogue/Digital			Analogue/Digital		Analogue/ Digital	Analogue/ Digital	Digital
Frequency Range	Capable of operating in the following frequency ranges	VHF & UHF[9]	VHF & UHF[9]		VHF & UHF[9]			VHF & UHF[9]		VHF & UHF[9]	VHF & UHF[9]	UHF[9]
Max. Power Output	Radio's full power rating	4W UHF/ 5W VHF	4W UHF/5W VHF		4W UHF/5W VHF			1W UHF/VHF		4W UHF/ 5W VHF	3W UHF/ VHF	2W
Max. Channel Capacity	Programmable channel capacity	16	16	128	32	1000	1000	32	1000	32	99	1000
Display	Displays provide easy access to advanced features	No	No	2 Line Monochrome	No	4 Line Monochrome	5 Line Colour	No	5 Line Colour	No	Active View	5 Line Colour
Keypad	Keypads provide access to radio controls, texting and telephony	No	No	Menu Buttons	No	Menu Buttons	Full Keypad	No	Full Keypad	No	No	Full Keypad
Integrated GPS	Embedded GPS receiver for location monitoring	No	No		Yes[1]			Yes		Yes	No	No
Integrated Bluetooth Capability	Wireless connection for audio accessories or data comms	No	No		Audio and Data[1]			No		Yes	No	Yes
Permanent Bluetooth Discovery	"Always on" mode used by some location tracking applications	No	No		Option			No		Option	No	Option
Dedicated Emergency Button	Orange programmable button for one-touch emergency calling	No	No		Yes			Yes		Yes	No	Yes
Programmable Buttons	Allow access to most often used features with one press	2	2	4	3	5	5	3	5	2	1	2
Digital DMR Signalling	DMR standard digital voice communications	Yes[8]	Yes		Yes			Yes		Yes	Yes[8]	Yes
PL / DPL Signalling	Analogue Private Line / Digital Private Line compatible	Yes	Yes		Yes			Yes		Yes	Yes	No
Quick Call II Signalling	Analogue Quick Call II compatible	Yes	Yes		Yes			Yes		Yes	Yes	No
MDC Signalling	Analogue MDC compatible	Yes	Yes		Yes			Yes		Yes	Yes	No
5 Tone Signalling	Analogue 5 tone compatible	No	Option		Yes			Yes		Yes	No	No
DTMF Hot Keypad	DTMF tone compatible	No	No	No	No	No	Yes	No	Yes	No	No	No
MPT1327 Signalling	Analogue MPT1327 compatible (requires option board)	No	No		Option[7]			No	Option[7]	No	No	No
Option Board Capability	Supports option boards for third party applications	No	No		Yes			No	Yes	Yes	No	Yes[4]
IMPRES Audio Compatible	IMPRES audio ensures your voice is heard clearer and louder	No	Yes		Yes			Yes		Yes	No	No
IMPRES Energy Compatible	Use IMPRES batteries for longer life and optimal performance	No	Yes		Yes			Yes		No	No	No
ATEX / IEC Ex Certified	Certified for use in potentially explosive environments	No	No		No			Yes		No	No	No
FM Intrinsically Safe	Factory Mutual (FM) approved for intrinsically safe use	No	No		Factory Mutual (FM)			No		No	No	No
IP Rating	Rated sealing for dust and water ingression	IP54	IP55		IP57			IP67		IP67	IP54	IP54
Dimensions (HxWxL)	Physical size	128 x 62 x 42 mm[2]	122 x 56 x 39 mm[2]		130 x 55 x 37 mm[2]			138 x 57 x 38mm		100 x 63 x 34 mm[3]	126 X 55 X 22 mm	121 x 55 x 20 mm[3]
Dimensions (Weight)	Physical weight	406 g[2]	355 g[2]	375g[2]	393 g[2]	427 g[2]	426 g[2]	456 g[3]	482 g[3]	254 g[3]	169 g	165 g[3]
FEATURES AND FUNCTIONS												
Intelligent Audio	Automatic volume control based on background noise levels	No	Yes		Yes			Yes		Yes	No	Yes
Emergency Alarm	Radio can initiate a Emergency call process	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Lone Worker	Initiates emergency if user does not respond to periodic alerts	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Remote Monitor	Radio can remotely activate another radio's microphone	Decode Only	Decode Only	Yes	Yes			Yes		Yes	Decode Only	Yes
Freeform Text Messaging	User can enter and send free-form text messages	No	No		No	No	Yes	No	Yes	No	No	Yes
Pre-programmed Text Messaging	Radio can send pre-programmed text messages	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Vibrate Alert	Vibrate silently alerts the user to an incoming call	No	No		No			No		No	No	Yes
Covert Mode	Disable display, LEDs and audible tones for ultimate discretion	No	No		No			No		No	No	Yes
Digital Telephone Patch	Ability to connect to telephone system (requires additional hardware)	No	Option		Yes			Yes		Yes	No	Yes
Transmit Interrupt Decode	Radio transmissions can be interrupted by other radios	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Transmit Interrupt Encode	Radio can interrupt transmissions from other radios	No	Option		Yes			Yes		Yes	No	Yes
Basic Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Enhanced Privacy	MOTOTRBO 40-bit encryption for more robust protection	Yes	Option		Yes			Yes		Yes	Yes	Yes
AES256 Encryption	Advanced Encryption Standard (AES) 256-bit encryption	No	No		Option			Option		Option	No	Option
Default Voice Announcement	Audible confirmation of selected operations of the radio	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Programmable Voice Announcement	Ability to use customised recordings for voice announcements	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Radio Management	RM provides centralised radio configuration and code plug management	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Over the Air Programming (OTAP)	Remote, over-air programming using Radio Management	No	Yes		Yes			Yes		Yes	No	Yes
Restricted Access to System	Prevents unauthorised users from communicating through the repeater	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Radio Enable/Disable	Radio can remotely disable and re-enable another radio	Decode Only	Decode Only	Yes	Decode Only	Yes	Yes	Decode Only	Yes	Decode Only	Decode Only	Yes
Integrated Mandown	Enhance personnel safety by monitoring movement	No	No		No			Yes		No	No	No
Dual Capacity Direct Mode	Use both TDMA time slots to double capacity without using a repeater	Yes	Yes		Yes			Yes		Yes	Yes	Yes
SYSTEM CONFIGURATIONS												
Direct Mode Operation	Direct radio-to-radio operation	Yes	Yes		Yes			Yes		Yes	Yes	Yes
Single-Site Conventional	Single site conventional operation (channel selection by users)	Yes	Yes		Yes			Yes		Yes	Yes	Yes
IP Site Connect	Multi-site conventional operation (channel selection by users)	No	Yes		Yes			Yes		Yes	No	Yes
Capacity Plus	Single site trunking (channel selection managed by system)	No	Option		Yes			Yes		Yes	No	Yes
Linked Capacity Plus	Multi-site trunking (channel selection managed by system)	No	Option		Yes			Yes		Yes	No	Yes
Connect Plus	Multi-site MOTOTRBO trunking with dedicated control channel	No	No		Option			No	Option	No	No	Option[5]

MOTOTRBO MOBILE RADIO FEATURES

FEATURE	DESCRIPTION	DM1000 SERIES		DM2000 SERIES	DM4000 SERIES	
		DM1400	DM1600	DM2600	DM4400/ DM4401	DM4600/ DM4601
GENERAL SPECIFICATIONS						
Protocol	DMR digital or analogue communication	Analogue/Digital		Analogue/Digital	Analogue/Digital	
Frequency Range	Capable of operating in the following frequency ranges	VHF & UHF[9]		VHF & UHF[9]	VHF & UHF[9]	
Max. Power Output	Radio's full power rating	25W or 45W VHF 25W or 40W UHF		25W or 45W VHF 25W or 40W UHF	25W or 45W VHF 25W or 40W UHF	
Max. Channel Capacity	Programmable channel capacity	16	160	256	32	1000
Display	Displays provide easy access to advanced features	2-digit numeric	2 Line Monochrome	2 Line Monochrome	2-digit numeric	4 line full colour
Keypad	Keypads provide access to radio controls, texting and telephony	No	Menu Buttons	Menu Buttons	No	Menu Buttons
Integrated GPS	Embedded GPS receiver for location monitoring	No		No	Yes[1]	
Integrated Bluetooth Capability	Wireless connection for audio accessories or data comms	No		No	Audio and Data[1]	
Permanent Bluetooth Discovery	"Always on" mode used by some location tracking applications	No		No	No	
Dedicated Emergency Button	Orange programmable button for one-touch emergency calling	No		No	No	
Programmable Buttons	Allow access to most often used features with one press	2	4	3	4	
Digital DMR Signalling	DMR standard digital voice communications	Yes[8]		Yes	Yes	
PL / DPL Signalling	Analogue Private Line / Digital Private Line compatible	Yes		Yes	Yes	
Quick Call II Signalling	Analogue Quick Call II compatible	Yes		Yes	Yes	
MDC Signalling	Analogue MDC compatible	Yes		Yes	Yes	
5 Tone Signalling	Analogue 5 tone compatible	No		Option	Yes	
DTMF Hot Keypad	DTMF tone compatible	Yes[6]		Yes[6]	Yes[6]	
MPT1327 Signalling	Analogue MPT1327 compatible (requires option board)	No		No	Option	
Option Board Capability	Supports option boards for third party applications	No		Yes	Yes	
IMPRES Audio Compatible	IMPRES audio ensures your voice is heard clearer and louder	No		No	Yes	
IP Rating	Rated sealing for dust and water ingression	IP54		IP54	IP54	
Dimensions (HxWxL)	Physical size	44 x 169 x 134 mm		44 x 169 x 134 mm	53 x 175 x 206 mm	
Dimensions (Weight)	Physical weight	1.3 kg		1.3 kg	1.8 kg	
FEATURES AND FUNCTIONS						
Intelligent Audio	Automatic volume control based on background noise levels	No		Yes	Yes	
Emergency Alarm	Radio can initiate a Emergency call process	Yes		Yes	Yes	
Lone Worker	Initiates emergency if user does not respond to periodic alerts	Yes		Yes	Yes	
Remote Monitor	Radio can remotely activate another radio's microphone	Decode Only		Yes	Yes	
Freeform Text Messaging	User can enter and send free-form text messages	No		No	Yes	
Pre-programmed Text Messaging	Radio can send pre-programmed text messages	Yes		Yes	Yes	
Digital Telephone Patch	Ability to connect to telephone system (requires additional hardware)	No		Option	Yes	
Transmit Interrupt Decode	Radio transmissions can be interrupted by other radios	Yes		Yes	Yes	
Transmit Interrupt Encode	Radio can interrupt transmissions from other radios	No		Option	Yes	
Basic Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping	Yes		Yes	Yes	
Enhanced Privacy	MOTOTRBO 40-bit encryption for more robust protection	No		Option	Yes	
AES256 Encryption	Advanced Encryption Standard (AES) 256-bit encryption	No		No	Option	
Default Voice Announcement	Audible confirmation of selected operations of the radio	Yes		Yes	Yes	
Programmable Voice Announcement	Ability to use customised recordings for voice announcements	Yes		Yes	Yes	
Radio Management	RM provides centralised radio configuration and code plug management	Yes		Yes	Yes	
Over the Air Programming (OTAP)	Remote, over-air programming using Radio Management	No		Yes	Yes	
Restricted Access to System	Prevents unauthorised users from communicating through the repeater	Yes		Yes	Yes	
Radio Enable/Disable	Radio can remotely disable and re-enable another radio	Decode Only		Yes	Decode Only	Yes
Dual Capacity Direct Mode	Use both TDMA time slots to double capacity without using a repeater	Yes		Yes	Yes	
Fixed Installation	Mobile radios can be used in a fixed installation such as a control room	Yes		Yes	Yes	Yes
Control Station	Mobile acts as RF link between Application Server and radio network	No		Yes	Yes	Yes
Remote Mount Control Head	Controls and display can be located separately from radio chassis	No		No	Option	
SYSTEM CONFIGURATIONS						
Direct Mode Operation	Direct radio-to-radio operation	Yes		Yes	Yes	
Single-Site Conventional	Single site conventional operation (channel selection by users)	Yes		Yes	Yes	
IP Site Connect	Multi-site conventional operation (channel selection by users)	No		Yes	Yes	
Capacity Plus	Single site trunking (channel selection managed by system)	No		Option	Yes	
Linked Capacity Plus	Multi-site trunking (channel selection managed by system)	No		Option	Yes	
Connect Plus	Multi-site MOTOTRBO trunking with dedicated control channel	No		No	Option	

1 Integrated Bluetooth and GPS are supported on DP4401, DP4601, DP4801, DM4401 & DM4601 Only

2 Based on NiMH battery

3 Based on standard Li-Ion battery

4 Option board capability on SL4010 Only

5 SL4010 Only

6 Requires keypad microphone

7 DP4401, DP4801, DP4801 Ex are available with MPT Option Board factory fitted

8 Analogue-only models of DP1400, DM1400 and DM1600 also available. Analogue models can be upgraded to MOTOTRBO digital by purchasing a software license

9 VHF frequency range supported is 136-174MHz. UHF frequency range supported is 403-527MHz, except DP1000, DP4000 Ex, SL Series, DM1000 and DM2000 Series when UHF range is 403-470MHz

Whilst care has been taken to ensure the accuracy of the information contained in this bulletin, Motorola Solutions retains the right to make changes at any time without notice.

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Motorola Solutions Ltd.
Jays Close, Viables Industrial Estate, Basingstoke, Hampshire, RG22 4PD, UK

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