Motorola Solutions celebrates its 90th anniversary. Since 1928, Motorola Solutions has proudly delivered a range of innovations.

Differentiating your business through exceptional customer service is the best way to attract and retain customers.

With the advanced features of MOTOTRBO two-way radios, crystal-clear audio and intelligent data applications, your teams will work more safely and efficiently. Redeem your savings.
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No one could have imagined that the car radio company founded by Paul Galvin in 1928 would one day become the leading provider of mission-critical communications and video surveillance solutions for public safety and commercial customers. And in today’s dynamic business environment, 90 years is a milestone few companies reach. The Motorola Solutions team is honored to share this incredible moment with our customers and partners around the world.

For the past 90 years, Motorola Solutions has delivered the essential lines of communication to ensure first responders and businesses around the world work safely and effectively. Their drive for continuous innovation and partnership enables their customers to be ready – whenever and wherever the moment arrives.

Motorola Solutions is a company driven by innovation and we take our responsibility seriously to design and deliver technologies that people refer to as their lifeline. That’s how they know we are living up to our company purpose: to help people be their best in the moments that matter.

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As Motorola Solutions looks ahead to their next 90 years, the moments will change, and the people will change, but their passion, insatiable curiosity and relentless pursuit of excellence will remain constant. Motorola Solutions will continue to create the future of mission-critical communications, video surveillance and analytics, services and software – they will never stop advancing the lifeline.

INNOVATION IS MOTOROLA SOLUTIONS LEGACY AND FUTURE

For 90 years, Motorola Solutions has grown and evolved. From their first car radio to the only end-to-end command center software suite, they are passionate about continuously innovating to keep their customers at the forefront of mission-critical communications.

It’s why Motorola Solutions spends thousands of hours working alongside their customers to understand how they use technology - and how the technologies they use work better together. And it’s why Motorola Solutions push boundaries - advancing technology and transforming how their customers communicate.

Today, Motorola Solutions commitment to innovation comes to life in their solutions: mission-critical services, software, video and analytics backed by secure, time-tested land mobile radio communications – technology that makes sure the right information makes it to the right person at precisely the right moment.

Motorola Solutions is transforming the technology of today with tomorrow in mind, ensuring their customers are always ready, because every moment matters.

Motorola Solutions history and heritage of innovation is evidence of our commitment to challenging the status quo.
FEATURED CASE STUDY

TOWNSHIP HIGH SCHOOL DISTRICT 214
INSTANT COORDINATION AND COLLABORATION FOR SAFER, MORE PRODUCTIVE LEARNING

MOTOTRBO™ RADIOS AND WAVE™ SUPPORT OPERATIONS AND ENHANCE SCHOOL SAFETY

High School District 214, located in Arlington Heights, Illinois, is the second largest high school district in the state. The district includes six high schools and four specialized programs, with over 12,000 students, serving residents across a 62-square-mile area.

School District 214 wanted to create an integrated and seamless communications infrastructure to enhance school safety, support district-wide communications for daily operations, and enable more productive learning.

CHALLENGES

Disparate Equipment Across Schools
Over the years, School District 214 had left radio fleet purchasing decisions up to individual schools, which resulted in different radio systems — from different vendors and with different licensing structures — being used across the district’s seven high schools. In addition, many of the radios were older analog models, with reliability, voice clarity and coverage challenges. Those issues, combined with FCC regulations requiring radio systems to shift from wideband to narrowband frequencies, drove the district to seek a new communications partner and transition to all-digital technology.

Extend Reach Well Beyond Classrooms
The district also required wide-area coverage that would enable school personnel to be instantly connected, whether in the classroom, on the football field, in the gymnasium or in any other location on campus. In addition to effectively communicating with district personnel in various locations, those same personnel were using a variety of different devices, such as smartphones, laptops and tablets. Eliminating communication delays caused by these different devices was another goal for the new solution.

The district also wanted the ability to easily create and add new talkgroups, allowing staff to respond rapidly and work efficiently with the right colleagues at the right time — giving productivity a major boost.

CUSTOMER PROFILE
• 2nd Largest High School District in Illinois
• 7 School Buildings
• 12,100 Students
• Encompasses 62 Square Miles

INDUSTRY
K-12 Education

SOLUTIONS
• WAVE™
• 800 MOTOTRBO™ XPR 6550 Digital Two-way radios
• 85 MOTOTRBO XPR 4550 Digital mobile radios
• MOTOTRBO Linked Capacity Plus
• 22 MOTOTRBO XPR 8400 LCP Repeaters
• NeoConneX GPS Fleet Manager
• Avtec Console and Logger

BENEFITS
• Integrated communication solution supports instant connectivity district-wide
• Improves emergency and wide area coverage and school safety.
• Enhances coordination of activity buses and vans with GPS fleet tracking application
• Extends coverage and reach with push-to-talk on any device, anywhere

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Support for Safety Initiatives
Improving student safety was another major priority for the district. During a critical situation, if a school’s radio was out of range, employees would turn to their individual cell phones. However, cell phone towers often get overloaded during emergency events, making that a poor alternative. Having instant reliable communication throughout the entire School District 214 coverage area—and the ability to connect directly to first responders, if needed—was imperative to enhance security.

A Growing Fleet of School Vehicles
With a large student population comes a large number of vehicles to support daily operations and transportation for after-school activities. While the traditional yellow school buses that transport students to and from school are run by an outside organization, the district manages other buses, vans and maintenance vehicles for a multitude of activities, such as travel for sporting events. Keeping drivers connected with school personnel, managing logistics and ensuring that the fleet is adhering to its route and speed restrictions were other important requirements when upgrading the district’s communications.

SOLUTION
With the help of the local channel partner, High School District 214 turned to Motorola Solutions Team Communications to enable employees to connect instantly, without boundaries and with added intelligence. They deployed MOTOTRBO XPR two-way radios and repeaters across campus for key personnel including administration and principals, security, building and ground maintenance, athletics and technology staff.

With the all-digital radio upgrade, the district was also able to leverage advanced data applications. They adopted the neoConneX Fleet Manager, a plug-and-play GPS fleet-tracking solution, to provide on-demand visibility into the locations of school vehicles, activity vans, buses and driver’s ed cars, bringing added intelligence and security to daily operations.

The district recognized cost savings by instituting a district-wide deployment, versus making purchasing decisions school by school. By using one vendor, all radio programming and licenses are now centrally managed across the district, taking the financial onus and management responsibility off of the individual schools.

BENEFITS
Integrated, Instantaneous Communication
Once the district deployed the new MOTOTRBO radios to key personnel, employees were up and running quickly. The security staff, in particular, were already familiar with analog radios, so that transition to MOTOTRBO digital two-way radios was fairly seamless.

Employees were able to connect with exceptional voice clarity and coverage. The district created more than a dozen talkgroups, with the primary user groups including security, maintenance, athletic staff and IT. They also enabled a district-wide talk channel, allowing administrators and other personnel to communicate with each other anywhere — from the sidelines of the high school’s football stadium to a colleague in a bustling school cafeteria on the other side of the district.

“The reliability that MOTOTRBO brings is a must for our school conditions,” said Birren, Director of Operations for District 214. “The radios are built to withstand whatever comes our way — drops, weather, noisy environments — and have risen to the occasion time and time again.”
EVALUATING YOUR NEEDS

STEP 1
THE ROLE OF COMMUNICATION IN TODAY’S MODERN BUSINESS
YOUR STEP-BY-STEP GUIDE TO BUILDING A SUCCESSFUL COMMUNICATION PLATFORM

COMMUNICATING SUCCESSFULLY
Today’s most successful companies and organizations do one thing very well. They communicate. Whether it’s people connecting with people, people connecting with machines or machines connecting with other machines, every process is seamless, which makes operations efficient, productive and safe. Effective communications are an essential building block for success. But how do you know whether your communications platform is optimized for your business? And if there’s room for improvement, what steps can you take to get things working more smoothly?

In the following pages, we discuss the importance of building the right communications platform. One that supports your objectives and helps you achieve your goals. We lead you through the criteria you need to consider in evaluating your business, so you can define where you are and where you want to be. Then we map out a path to evolve your platform, highlighting in each chapter a different communication technology that’s relevant to your business and supportive in achieving the overall business strategy.

“Ultimately, communications should be seamless and responsive, ready to react to the daily challenges of running a commercial enterprise. One of the most important steps when building the right platform is choosing devices that are designed with the build quality and features required for the tasks at hand. Motorola Solutions is ready to help you evaluate and evolve your communications platform, so you can achieve optimum efficiency, productivity and safety across your business.”

Sean Fitzgerald,
Solutions Marketing Manager,
Radio Products and Accessories

ACHIEVE YOUR BUSINESS OBJECTIVES THROUGH EFFECTIVE COMMUNICATIONS
Every business faces pressures and challenges, more so today than ever. Whether you’re running a manufacturing plant, transport company, hotel, hospital or school, you’ll know how tough it is to achieve business objectives in an uncertain world where conditions can change at a moment’s notice.

So how can you streamline your operation to make sure you’re ready to react when spikes in demand or cuts in funding put business activity under strain? In this section, we look at the challenges you face and review how optimizing communication systems can help support business goals. We invite you to take an honest look at your communications to identify any areas where it may be holding you back. Then we suggest steps which you could take to put things right, so expenditure is managed, profit is optimized, and your customers, employees, and stakeholders stay happy.

EFFICIENCY, PRODUCTIVITY & SAFETY – THE THREE PILLARS OF SUCCESS
Achieving business objectives is reliant on maximizing efficiency, productivity, and safety. Get these right and operations proceed seamlessly, people and assets work to their optimum, and everyone and everything stays protected.

EFFICIENCY
Improving efficiency can generate savings across the business even when costs are rising. One great way to do this is for individuals and teams to work as one, with clear goals — everyone has a defined role, there’s no duplication of effort or communication breakdowns.

PRODUCTIVITY
Being productive means you can react rapidly to unexpected interruptions, minimizing impact and reducing downtime so deadlines and targets stay on track. Giving people the tools they need to be productive is a positive step that creates a sense of ownership and pride in a workforce.

SAFETY
Underpinning your business are your resources. Are you ready to respond in the moment to an injured worker, security breach or fire — before an incident becomes a crisis? Maintaining safety and security to meet legal regulations is also mandatory business practice that helps you avoid legal action, crippling fines or worse. Communications can help bring these three key pillars together. Having an effective communications platform creates a working environment that is focused on achieving business objectives. But what makes a communications platform effective? And what do you need to consider to ensure your systems are fit for purpose?

EVALUATING YOUR COMMUNICATIONS
Just like business, communication faces its own challenges. For example, how to be effective across known coverage black spots, areas of high noise, hazardous environments, or places where different teams are using different devices. These challenges can be overcome with the right setup. The key is to step back and evaluate where you are and where you want to be. This should include some considerations that will define how your communications network will evolve as business requirements change.
DEFINE WHERE YOU ARE
Has your organization grown rapidly since your last communication review? More staff, bigger premises, new systems and networks? If so, you’ve probably outgrown your platform and may even have spotted the danger signs – unreliable communications across your facilities, inability to access certain data services, lack of capacity. These shortfalls impact on your efficiency, productivity and safety.

EVOLVING YOUR COMMUNICATIONS
Think about your needs. Here are some pointers that may help you decide how to progress. Once you have considered where you want to be, look at the features and functions that will get you there. These may include:

COST
As well as fixing your budget, consider how important predictability is – some solutions come with uncontrollable costs, such as mobile phones where monthly usage fluctuates. Ensure costs are known and manageable – consider capex, opex or mixed funding models.

USAGE
Look at what your people are doing and how it impacts on their equipment – some devices are fragile and easily damaged with high repair or replacement costs. Rugged, waterproof devices protect communications from drops and the elements.

SAFETY
Especially critical in hazardous environments where workers are isolated, real-time monitoring helps you avoid undetected accidents, severe injury and litigation. Lone Worker, Man Down, location tracking with Bluetooth and GNSS, and extended battery life help keep vulnerable workers safe.

NOISE
Loud environments such as factories make communicating effectively very difficult – if noise is a factor, consider clear audio solutions that prevent conversations getting lost. Intelligent Audio and noise cancellation provide clear conversations in the noisiest of environments.

SECURITY
If you work in a public or highly sensitive environment, implementing a solution with integrated security such as encryption leaves you less prone to damaging attacks. Encrypted messaging prevents eavesdropping from unauthorized users.

COVERAGE
If your environment contains known black spots, implementing a solution with indifferent coverage will make communication unreliable and give a low return on investment. Some higher-powered devices feature extended coverage and wider ranges.

INTEROPERABILITY
Ask yourself how well different teams can communicate – if you have multiple devices in use with no or limited communication between them, it’s time to change. Connected communications is all about unifying teams and linking individuals together, regardless of device – everyone works as one, whether using radios, phones, tablets or PC.

EFFICIENCY
Think about whether you are making the most of the technology available to you – would your teams be more efficient with devices that do more? Integrated applications help you run and monitor operations seamlessly.

PRODUCTIVITY
Evaluate the way your staff use their devices - could they be more productive, for example, if they worked hands-free? Compatible accessories such as hands-free headsets enhance performance.

SUMMARY
NEVER UNDERESTIMATE THE IMPORTANCE OF COMMUNICATIONS
Every business or public-sector service is different with its own set of challenges and pressures. Objectives may be unique but there is a common denominator – every organization is underpinned by efficiency, productivity and safety. These three criteria also underpin the core values of a reliable communications network.

Understanding that communications are critical is an essential first step, but how do you move on to find precisely the right solution for your needs? Especially as there’s no one device that will suit all. In the next chapter, we look at the different two-way radio solutions you could consider to help create the ideal communications network for your business.

THREE THINGS TO CONSIDER
1. Is your business being held back because workers can’t reach the people who matter when it matters?
2. Does your incident response plan include reliable and effective communications?
3. Are your staff focused on the most immediate, income-generating or target-hitting tasks in an efficient way?
EVERY BUSINESS IS DIFFERENT – SO IS EVERY COMMUNICATIONS SOLUTION

The challenges facing a multi-site manufacturing facility are very different from those of a transport company, hospital or school. Although their communication platforms are all underpinned by efficiency, productivity and safety, each will require its own individual solution. Even within a particular business, different individuals and teams will also require different solutions based on their specific roles and needs. One size does not fit all.

In the previous section, we discussed how communications helps businesses achieve objectives. In the chapters to come we look at specific solutions and the steps you can take to build the right platform for your needs. This chapter focuses specifically on two-way radios and how to decide which devices will work best for you. The starting point is to define your needs by evaluating your business. Here are some questions to consider:

**SIZE**
- Does your business involve multiple locations?
- And how many people do you need to connect?

**SAFETY**
- Do staff work alone in remote areas?
- Do you need to track people and vehicles?

**ENVIRONMENT**
- Are you an industrial enterprise or more customer-facing service provider?

**TASKS**
- Do you need basic voice - only communications or do you also want data capability to take advantage of productivity applications?

**HAZARDS**
- Are there any dangerous areas or potentially explosive materials on site?

**STRUCTURE**
- Do your staff work indoors, outdoors or both?
- How many floors in your buildings?
- And what are your buildings constructed of?
- Any underground areas?

WE ARE YOUR COMMUNICATIONS PARTNER

Evaluating your needs gives you a good starting point to help define the type of radio devices you should consider. But where do you go from there? Motorola Solutions is a trusted provider of two-way radios, and with four distinguished device families we ensure the full spectrum of needs is covered. Deciding which family is right for your individual employees creates a firm foundation on which you can build your own unique platform. Remember, there may not be one radio, or even a family of radios, that suits everyone. The radio families for commercial users include:

**ENTRY COMMERCIAL**

COMPACT, LIGHTWEIGHT, COST-EFFECTIVE DEVICES THAT ARE IDEAL FOR COMMERCIAL USERS
- More robust, more reliable – the starting point for secure commercial communications
- Higher powered than unlicensed, these radios give greater range
- Licensed use means there will be less interference from other users
- Tested to MIL standards for high reliability and performance
- IP67 waterproof and dustproof models available – essential for outdoor operations

**MOTOTRBO™**

A LICENSED VOICE AND DATA SOLUTION WITH HIGHER COVERAGE, INTEROPERABILITY AND ADVANCED FEATURES
- Better coverage and less interference – ideal for industrial environments
- DMR compliant for better basics, advanced features and interoperability
- Wide choice from ultra-thin portables to extra-tough mobiles with industry-leading technology
- Huge diversity and flexibility, allowing you to choose the features you need – see tech panel
- Radios are supported by a choice of systems to help your business grow and evolve with features like IP Connect for connecting multiple sites and Capacity Plus for increased call capacity
EVALUATING YOUR NEEDS

MOTOTRBO™ TECH PANEL

POWERFUL AUDIO
Intelligent Audio, background noise cancellation and IMPRES™ audio allow you to hear and be heard more clearly, even in noisy environments.

ADVANCED VOICE AND DATA
Transmit Interrupt breaks into existing calls to ensure high priority messages get through. Devices also allow you to take advantage of text messaging and productivity applications.

LOCATION TRACKING AND SAFETY
Multi-constellation GNSS provides increased accuracy for location tracking of people and assets. Combined with features such as Lone Worker and Man Down, this significantly boosts safety.

HIGH STAMINA
IMPRES energy gives longer battery runtimes to cover a full shift and extends the lifetime of your battery to reduce replacement costs.

INSTANT CONNECTIVITY
Bluetooth connects devices quickly without the inconvenience of wires that can tangle or get in the way.

ENHANCED USABILITY
With programmable buttons and features like voice announcements and text-to-speech, workers can move through tasks faster.

DESIGN CHOICE
From slim and light to rugged and waterproof – match devices to workers and roles.

MIGRATION & UPDATES
Dual digital/analogue for easy migration and over-the-air programming for remote software updates maximizes the time devices are in productive use.
SUPERCHARGING DIGITAL RADIOS WITH DATA
Whatever the business, whoever the user, our extensive range of radios and accessories helps your people tackle challenges head-on. With the right devices in the right hands, everyone can respond and react quickly to every eventuality.

But how can those devices be made even more effective, so every task is more productive and safer? In this section, we look at integrating data applications into your digital radios to extend their functionality beyond just voice. We identify the benefits of having real-time information at your fingertips and pose the question: is this something you need? Or more specifically, would your people work more effectively if they could receive instant project updates on their devices, access special skills and knowledge at the touch of a button and message colleagues in seconds?

Deciding whether to add data applications to your communication system is an important step. And with a useful overview of our extensive range of applications, available for multiple tasks on MOTOTRBO devices, this section helps you evaluate whether it’s a step worth taking. Without doubt, many organizations are already benefiting from the power of data applications through enhanced productivity, efficiency and safety. So, is it for you? And if so, which specific applications meet your requirements and how do you get started?

EVALUATING YOUR BUSINESS – SPOTTING SHORTFALLS
Every business faces multiple challenges that have to be overcome to run smoothly and seamlessly. Identifying these challenges is a vital starting point. You may recognize, or be a victim of the most common which include:

WORKFORCE SKILLS SHORTAGES
Do all your employees have the necessary knowledge or experience to handle every task efficiently? If not, they’ll need to locate and ask colleagues for help or rely on others, all of which takes up time. And if they try to do jobs themselves without the right skills, quality and safety could be compromised.

SLOW REACTION TIMES
We all want to be proactive, or ready to respond in an instant to any unforeseen eventuality. But in a hectic business environment, with no time to assess operations or spot warning signs, it’s so easy to be the reverse: reactive or slow to respond. When that happens, we waste precious time fighting the fallout.

ORGANIZATIONAL DELAYS
The bigger your business and the more sites you operate, the harder it is to keep everything slick and fluid. You need precise planning, organization, execution and delivery to efficiently manage resources – even the slightest delays can have serious commercial implications.

INADEQUATE SAFETY MEASURES
How well do you protect your employees, clients and guests? Safety is easily compromised but the implications can be disastrous – from injuries that weaken your workforce to tragic fatalities, leading to fines and prosecution that could close your business.

INFORMATION OVERLOAD
Data is great, but you can have too much of it. Too many options, too many feeds, too much data that isn’t relevant. Information overload bogs you down and makes prioritizing important tasks even more difficult, leading to oversights and mistakes.

EVALUATING YOUR COMMUNICATIONS – IDENTIFYING GAPS
Your communications system also faces multiple challenges that need addressing before your people and assets can connect seamlessly. These challenges include:

UNSUITABLE COMMUNICATION DEVICES
Do your devices allow your people to do everything they need to do? If not, then an employee may need to carry multiple devices providing different services and information to perform tasks – an expensive and cumbersome option.

UNCOORDINATED CONTROL & MANAGEMENT
Are your systems coordinated? A lack of central control combined with devices that don’t talk to each other creates operational inefficiencies. Time delays, information oversights – employees with a poor view of the job at hand and no clear sense of direction are more likely to make flawed decisions.

COMMUNICATION BREAKDOWN & CONFUSION
Cross communication between employees leads to different people doing the same job or nobody doing the job at all. While a duplication of effort is highly inefficient, having tasks left unassigned and overlooked can potentially jeopardize a whole project.
DELAYED EMERGENCY RESPONSE
How quickly can you identify an emergency situation and put in place a rapid response? Delays increase the impact of incidents and injuries with potentially catastrophic consequences. They also extend the time workers are out of action, disrupting the smooth running of your business.

SYSTEMS UNCHECKED & FAILURES UNIDENTIFIED
Are you able to instantly spot a system failure before the problem becomes a crisis? If you rely on manual checks without remote monitoring and automated alerts, chances are failures will go undetected – something that poses a serious threat to your business.

8 WAYS DATA INSIGHTS TACKLE YOUR CHALLENGES
Earlier in this section we identified some general business and communication shortfalls that can challenge, or even derail your business. And we’ve highlighted data applications as a possible solution. But how do you decide which apps are right for you? Or more specifically, having pinpointed the gaps, which apps are most suited to fill them?

The features of data applications can be segregated into eight key areas. Let’s take a look at these:

1. ALARM & TELEMETRY
Challenge: How to react faster to emergencies and spot system failures. With alarm and telemetry apps, you can instantly receive information from sensors and detection equipment and take action. Automatically deliver alerts to the right people via text messaging and you empower an immediate response during an emergency. Because the alarms are sent to their device, they can be read on the move so there’s no need for them to return to base. These apps help you avoid downtime and protect people and assets.

2. CONTROL ROOM SOLUTIONS
Challenge: Improve central control of your systems and operations. An integrated control room solution allows centralized management of your data and gives you a complete overview of systems and operations. You can see real-time activity at-a-glance and send critical notifications to staff or equipment. Having all essential data in one place helps you optimize efficiency, productivity and safety.

3. INTEROPERABILITY
Challenge: Connect all your devices and networks for seamless communication. If your people use multiple devices, look at WAVE, a powerful Push-to-Talk platform that connects all your disparate devices and networks, so everyone can easily communicate between smartphones, radios, computers or landlines. It turns Android and iOS devices into multi-channel PTT handsets, allowing fully secure, real-time voice communications anywhere there’s a network connection.

4. SITUATIONAL AWARENESS
Challenge: Know where everyone is, all the time. With a complete overview of activity, it’s easier to track people and assets and identify problems. Some apps include location tracking using GPS or Bluetooth iBeacons and include lone worker and man down features for greater safety and efficiency. Workers can also benefit from the latest information and communicate instantly with colleagues to gain an up-to-the-minute understanding of what is happening around them – vital when dealing with the safety of staff or members of the public.

5. DIGITAL MEDIA RECORDING AND MANAGEMENT
Challenge: Capture vital information for faster, more efficient action. Call recording apps securely and reliably record data from radio messages and talk groups, preserving a vital source of information. Call logs can be used to train new staff, or to define process improvements that can help initiate faster, more efficient future responses. And since call data and voice recordings are preserved, you maintain a clear audit trail for evidential analysis. Data is time stamped, making it easy to find specific recordings.

6. WORKFORCE EFFICIENCY AND MANAGEMENT
Challenge: Maximize the productivity of your people. Getting the most out of your workforce is critical. These apps provide a whole range of productivity enhancing features including work ticket management for efficient assignment and re-assignment of jobs, e-mail and SMS messaging, system monitoring and reporting. Work ticket management is especially useful when you are managing a large number of operational tasks across multiple team members.

7. MESSAGING SOLUTIONS
Challenge: Clear, simple communication between people at all times. Sometimes, time pressures and environments make communicating by voice challenging. Text messaging opens up radios to a whole new level of communication based on speed and convenience. Users can text relevant updates to multiple people or groups, enabling everyone to stay aware and minimizing cross communication.

8. DEVICE AND SYSTEM MANAGEMENT
Challenge: Identify device and system issues immediately for rapid resolution. With full control and effective management of your radios and systems, you preserve the security of your business. Automated tasks including monitoring and software upgrades keep systems up to date and operating at optimum performance. They allow you to spot potential problems in your radio fleet and take action before those problems escalate, while preventing unidentified system failures.

SUMMARY
VOICE AND DATA, A POWERFUL COMBINATION
Whatever your business or industry, three criteria are paramount: efficiency, productivity and safety. With voice and data communications, so much more is possible. Efficiency is improved as devices and networks connect seamlessly and assignments are managed with precision. Productivity is boosted by centralized control and better situational awareness so you always know how your people, systems and devices are performing. And safety is increased with alarm management, location tracking, man down and lone worker applications.

Motorola Solutions’ range of apps make us an ideal communication partner for your business. As you can see in our online catalogue, everything is based around the power of customization, allowing you to choose the portfolio of apps best suited to your own specific challenges.

THREE THINGS TO CONSIDER
1. Is your performance being hampered by a delay in assigning work tasks?
2. Do you have a centralized workforce management system?
3. Are there communication difficulties that are preventing your people from working more efficiently and effectively?
TWO-WAY RADIO SELECTION GUIDE

Versatile and powerful, to keep your staff connected. Motorola Solutions’ diverse array of portable and mobile two-way radios enable you to efficiently coordinate and communicate with your mobile workforce. Ideal for use by a variety of industries looking to remain competitive in today’s market, Motorola Solutions’ radios deliver a high-quality communication solution designed to help increase efficiency, productivity and worker safety while lowering operating costs.

CONSTRUCTION
A construction worker carries his Motorola Solutions digital radio as an essential part of his toolkit. The digital technology gives him excellent coverage across the entire site. And it has significantly better battery life too, so he knows he’ll have reliable voice communications all day long.

EDUCATION
Give staff and faculty constant access to critical information and enhance safety and efficiency in your schools.

A high school athletic coach relies on the slim SL300 portable in her jacket to coordinate with school personnel. It’s light and portable, but rugged enough to survive out on the running track.

HEALTHCARE
A hospital administrator uses her Motorola SL300 portable to connect to staff on a high floor. Its Range Max technology provides excellent coverage as she walks throughout the building.

HOSPITALITY
Communicate discreetly for seamless coordination of your entire service staff and enhanced customer service.

The hotel porter depends on his SL300 portable to talk to shuttle bus drivers about incoming guests. Long battery life means he can communicate all day.

MANUFACTURING
Make it easy for all staff, from line workers to maintenance to security, to collaborate as a single, unified work team while increasing productivity and worker safety.

The manufacturing team in a parts factory relies on Motorola Solutions’ digital portables to coordinate operations. The digital noise-canceling software filters out the worst of the background noise, allowing them to hear clearly over loud machinery. Factory capacity is expanding, so they’re running MOTOTRBO Dual Capacity Direct Mode, which can fit twice as many calls into the same spectrum.

SECURITY
A security guard uses his Motorola Solutions digital radio to alert the control room to some suspicious activity. The
CP200d radio’s intuitive design is easy to use in the dark, and even when he speaks softly, he knows that the digital AGC (Automatic Gain Control) will automatically boost the volume so he’s heard clearly back in the office. And if it comes to the worst, he can use one of the programmable side buttons to call for help – with one touch.

TRANSPORTATION AND LOGISTICS
Deliver goods safely and efficiently while increasing customer service with accurate, real-time information.

A delivery driver uses his Motorola CM200d mobile radio to double-check an address. The visor mic and steering wheel-mounted PTT button let him communicate safely while driving.

COMMERCIAL USES
PORTABLE AND MOBILE RADIOS
The right two-way radio can empower an entire organization by providing real-time information to your workforce. Suddenly, fleet members are more effective and informed. Individuals can make more meaningful contributions to the overall business objective. Significant savings in travel time and money are realized. Safety and efficiency are no longer mutually exclusive. Motorola Solutions has portable radios perfect for employees who work on-site in construction, education, healthcare, hospitality, manufacturing and retail enterprises, as well as mobile radios perfect for employees in transportation and delivery sectors.

MOTOROLA SOLUTIONS TWO-WAY RADIOS
– TRANSFORMING THE ENTERPRISE, EMPOWERING THE INDIVIDUAL.

Whether your workforce is comprised of employees primarily located on-site at your facility, mobile in vehicles or a combination of both, two-way radios enable your employees to stay connected. Portable radios are ideal for employees who work on-site; mobile radios are installed in vehicles and ideal for your on-the-go workforce.

COMMERCIAL RADIOS
A basic, easy-to-use communication solution that is ideal for construction, delivery operations, elementary and high schools, hotels, and restaurants.

- Digital and Analog Models
- Simple, Basic Solution for Work Team Communication
- Compact Models
- Display and Non-Display Models
- Limited or Non-Keypad Models
- Repeater Capability for Increased Coverage When Needed
- Hands-Free Communication with Voice Activation
- Variety of Audio and Carrying Accessories
PROFESSIONAL RADIOS
The ideal communication solution for larger organizations with more complex communication needs such as: manufacturing, warehousing, collegiate campuses, resorts, utilities and public service operations.

• The Most Robust Solution
• Variety of Scanning and Signaling Options
• High Number of Channels to Organize Large Work Groups
• Intrinsically Safe Models for Use in Hazardous Work Environments
• Data Applications Such as GPS Location Tracking and Text Messaging
• Option Board Capability to Enable Customized Applications
• IMPRES™ Audio and Energy Accessory Solutions

RADIO SELECTION
PORTABLE AND MOBILE RADIOS

USER NEEDS
There are three basic factors you need to consider when selecting which radio is right for you.

1. Number of Users / Channels
2. Frequency Band
3. Features

NUMBER OF USERS / CHANNELS
The number of individual users as well as the number of talk groups you need to maintain determines the number of channels you will require in a radio. For example, if you want a certain department to maintain its own talk group, it would require a dedicated channel for that department. If two or more individuals need to maintain private communications, a dedicated channel would be required. It is not uncommon to have multiple channels within a department for special projects where more than one operation or event is occurring simultaneously. In addition, the use of digital technology increases the capacity of your system by dividing your existing channels into two-time slots. This enables you to double the number of users on your system without the need for additional infrastructure equipment. Lastly, when making decisions regarding the number of channels you require, it is very important to keep future expansion in mind.
FREQUENCY BAND
For most general applications, there are 4 categories of frequency bands to consider:

- Low Band 29.7 – 37 MHz / 37 – 50 MHz
- VHF (Very High Frequency) at 136-174 MHz
- UHF (Ultra High Frequency) at 403-512 MHz
- 800 / 900 MHz

All bands have advantages for specific applications. As a rule, the higher the frequency, the better the in-building penetration. However, as you increase in frequency, you will decrease in range. VHF frequencies (136-174) are better suited for outdoor applications where maximum range is required with little to no obstructions. UHF and the 800 /900 MHz frequencies are better suited for indoor applications or environments with obstructions. Low Band frequency bands propagate farther in the environment, VHF and UHF frequency bands are typically used for conventional two-way radios systems, while 800 / 900 MHz frequency bands are commonly used for trunking two-way radio systems.

TWO-WAY RADIO FEATURES
A wide variety of features are available to help increase the efficiency, productivity and safety of your workforce. Efficiency/productivity features include integrated data applications that increase a radio’s capability beyond voice communication, and telephone interconnect, which enables radios to talk with a telephone PBX system. Safety features include emergency notification for use during urgent situations and intrinsically safe certifications for hazardous work environments.

AMBE+2™ VOCODER
The AMBE+2™ Vocoder sets a standard for high-quality, high-performance speech quality at data rates from 2.0 to 9.6 kbps.

ARTS II™/AUTO-RANGE TRANSPOND SYSTEM
Designed with user safety in mind when you need to be in contact at all times. ARTS is exclusively available in Motorola radios and informs users when a radio gets out of range with another ARTS-equipped radio.

BUSY TONE LOCK OUT (BTLO)
If the BCLO (Busy Channel Lockout) feature has been programmed on a channel, the radio will not transmit when a carrier is present.

COMPANDER
This analog two-way radio feature is used when the device itself has a smaller dynamic range capacity and is required to transmit a large dynamic range. In this technique, the sound waves before transmission are compressed and then transmitted. Thus this allows a large bandwidth transmission over a narrow range device.

DIRECT MODE
Direct/Dual Capacity Mode is a digital mode feature that enables you to have two communication paths on a single frequency effectively doubling your call capacity without the need for a repeater.

DTMF SIGNALING
Dual-Tone Multi-Frequency (DTMF) Signaling enables radio users to use the radio keypad to control another device that is pre-programmed to recognize the tones as commands. This feature is commonly used to open/close gates, turn off/on sprinkling systems or place a phone call using the telephone interconnect feature.

EMERGENCY CALL
Emergency Call allows a radio user, with the push of a button, to send a distress message to all other radio users to indicate an emergency and be given priority to talk.

ENHANCED / BASIC PRIVACY
Enhanced / Basic Privacy is a technology that allows a transmitting radio to send out a scrambled audio signal and a receiving radio to unscramble that signal. This helps to prevent unauthorized users from listening to sensitive communications.

HAZLOC CLASSIFICATION
When you’re operating in environments where flammable or explosive gases, vapors or dust may be present, you should consider communications equipment certified for use in a Hazardous Location – often called “HazLoc”

IMPRES™
IMPRES is a state-of-the-art, Motorola-exclusive technology that enables communication between the radio and accessory, resulting in the prolonged life of your batteries, longer talk time and clearer audio delivery.

INTERNAL VOX
VOX, which stands for Voice Activated Transmit is a feature that allows you to use your two-way radio hands-free with compatible audio accessories. VOX compatible headsets
keep the microphone active all the time, which means that the radio will automatically start transmitting when you speak.

**LONE WORKER ALERT**
Lone Worker assists in heightening worker awareness and helps ensure that all workers are accounted for, even when alone. If a worker fails to check in when prompted, Lone Worker automatically transmits an emergency alert for help.

**MAN DOWN SAFETY APPLICATION**
Man Down provides remote monitoring of workers. If somebody slips or falls, Man Down will automatically activate and transmit an alert to call for help.

**MDC 1200 SIGNALING**
MDC 1200 Signaling uses low speed data packet transmissions that grant radio users access to a number of enhanced features such as unit ID, selective inhibit, radio check and selective calling.

**QUIK-CALL II™ SIGNALING**
Quik-Call II signaling is an analog two-tone format used for paging over a two-way voice channel. The decoding of tones allows the radio to receive only messages intended for its specific user, and activates that radio when to start listening to a conversation. The encoding of tones allows the radios to send such messages to specific units. This is a feature commonly used by rural fire departments.

**SITE SEARCH**
Site Search is a digital mode feature that allows you to move between multiple sites. Manually or automatically initiate Site Search to identify the signal of the closest site with the strongest signal strength. Your Motorola Solutions’ radio equipped with Site Search, will dynamically change its pre-programmed home site to the site with the strongest signal in range. Great for operations with multiple locations or multiple floor buildings.

**TECHNOLOGY**
Two-way radios have traditionally used analog technology. Digital technology is the next generation of two-way radio and offers several advantages over analog, including clearer audio, integrated data applications, 40% longer battery life and increased capacity.

**TELEPHONE INTERCONNECT**
Telephone Interconnect is a feature that enables a radio system to be connected to a telephone PBX system, which allows radios to make phone calls using the radio keypad.

**TRANSMIT INTERRUPT**
When seconds matter, transmit interrupt allows an operator to halt or “interrupt” any current transmission, in favor of a priority message. Transmit Interrupt functionality ensures your critical messages will connect.

**UNIVERSAL BATTERY SYSTEM**
Eliminate equipment clutter and reduce costs using one charger with any compatible Motorola Solutions’ Commercial Portable radio. The “UNI” universal charger and battery system includes one charger that supports multiple Motorola Solutions Commercial Portable radios when used with designated UNI batteries. A simplified system to deliver less cost and more value for you.

**PEACE OF MIND COMES STANDARD WITH EVERY MOTOROLA SOLUTIONS’ RADIO**
There’s a reason why Motorola Solutions’ two-way radios are built to last. Motorola’s rugged and reliable radios undergo rigorous testing in the design process. Motorola uses U.S. Military Standards and Accelerated Life Testing, so you can be assured Motorola Solutions’ radios will hold up under demanding conditions.

**ISO 9001 SO 9001**
International quality assurance system for design, development, production, installation and servicing of a product.

**ACCELERATED LIFE TESTING (ALT)**
Simulates five years of extreme hard use. Conducted by Motorola during early product development to improve quality, design and product life.

**U.S. MILITARY SPECS 810**
Environmental testing specifications for equipment performance and survivability in harsh conditions. As many as 11 unique tests are covered, including low pressure, high / low temp, shock, solar radiation, rain, humidity, dust and vibration.
MOTOTRBO
REMASTER YOUR WORKFORCE WITH THE RIGHT SOLUTION
From the front desk to the factory dock, moving across campus or around the country, MOTOTRBO radios are connecting more people effortlessly and efficiently wherever they work. Information is instantaneous. Decision-making becomes easier. Safety gets stronger. Productivity increases. Service improves and customers are more satisfied.

Whether you want ultra-thin portables or extra-tough mobiles, integrated Bluetooth or industry-leading data applications, we have the right radio that fits your needs today and evolves with new features to address your requirements tomorrow. Our radios are trusted by more than 1 million users and designed with a robust mix of features to increase workforce efficiency, productivity and safety.

MOTOTRBO is re-mastering digital two-way communications – and redefining what customers expect from a radio solution. With the MOTOTRBO portfolio of portable and mobile radios, repeaters, data applications, accessories, software and services, you can put the right device into the hands of the right user. From the supervisor of a production line, to the facilities manager in a crowded stadium, to the technician repairing power lines, MOTOTRBO radios make workers more efficient and productive.

KEEP THEM ALL CONNECTED
Give your employees the information they need to be more efficient with the remarkable convenience of one device. Experience clear and reliable voice communication with background noise suppression, the flexibility of group or private calls, quick access to contacts with keypad shortcuts and communication with landline or mobile phone users via digital telephone interconnect. MOTOTRBO also supports data – including text messaging, GPS location tracking capability, dispatch and custom applications from Motorola’s Application Developer Program such as work order ticket solutions, email gateways, man-down, network monitoring and more.

PUT THE POSSIBILITIES OF DIGITAL DATA TO WORK
GET VOICE AND DATA IN ONE DEVICE
MOTOTRBO™ supports both voice and data – including text messaging, GPS location tracking capability, and custom applications from Motorola’s Application Developer Program such as telephony, dispatch, work order ticket solutions, email gateways, network monitoring, man-down and much more. So you can keep employees connected to the information they need to be more efficient, with the remarkable convenience of one device.

TRACK VEHICLES AND PEOPLE WITH INTEGRATED GPS
MOTOTRBO radios have an integrated GPS module so you can track vehicles and people. Unlike other GPS-capable radios, the MOTOTRBO module is integrated into the handset so there’s no clumsy equipment to attach, carry or maintain.
MOTOTRBO DIGITAL RADIOS
CONNECT YOUR ENTIRE OPERATION SEAMLESSLY, SAFELY AND EFFICIENTLY

Whatever you do, wherever you work, be more efficient, productive and safe with the unparalleled performance of MOTOTRBO professional radios. They deliver advanced digital technology for real-time voice and data communications along with the industry’s largest portfolio of data applications. Now you can communicate instantly, coordinate seamlessly and work efficiently. From ultra-light portables to extra-tough mobiles, you’ll find the right device to get the job done right.

CRYSTAL-CLEAR AUDIO
Experience superb audio in the loudest environments. Intelligent Audio automatically adjusts radio volume up and down. Noise Suppression filters out background sounds so you hear and be heard clearly.

EASY-TO-READ DISPLAYS
See information quickly with large, full color displays featuring superior resolution. View easily in broad daylight and use the right modes for dark environments.

INTEGRATED BLUETOOTH®
Bluetooth® audio and data lets you work and move freely without wires in the way. Now send and receive information in real-time and not at the end of a shift.

INTEGRATED WI-FI®
The latest MOTOTRBO radios have built-in Wi-Fi, for even greater possibilities - starting with remote software and firmware updates.

SAFETY-FOCUSED
Prioritize communication the moment it’s needed with Transmit Interrupt, Man-Down and Lone Worker apps call for help when personnel can’t. Location-tracking monitors vehicles, assets and personnel in real-time.

PRODUCTIVITY-ENHANCING
Benefit from the industry’s largest application developer program with a wide variety that includes location tracking, Bluetooth data, email gateways, dispatch, telephony and work order ticket management.

HIGH-PERFORMING
Long-lasting Motorola batteries are ideal for multiple shifts — up to 27 hours — so you work without interruption.

EVERY DAY RUGGED
Tightly sealed against wind and dust, the most rugged models are submersible in up to 6 ft of water.
SHARE INFORMATION QUICKLY, DISCREETLY, SAFELY

Perched on a utility pole repairing a line. Managing inventory in a manufacturing plant. Assisting guests at the front desk. How do you get information to your mobile employees conveniently, discreetly and safely? Extend your desktop applications without added infrastructure or cost? In today's fast-paced environment, technology can give you a decisive edge. And text messaging can improve the speed, safety and responsiveness of your workforce, no matter where they go.

How do you reach your employees rapidly with accurate, real-time information — no matter if they’re moving across a campus or around a city? How do you accelerate their productivity while you improve their safety — so you can close the gap between people and information, and the time and effort they spend trying to obtain it or verify it to do their job well.

From the fleet or factory, bucket truck or basement, text messaging is the perfect way to communicate when voice communication would be disruptive or messages don’t need an immediate response. Text messaging lets employees communicate whenever discretion and safety is required — be it a concierge in a bustling hotel lobby or a security team at a corporate event.

With MOTOTRBO, you can create a versatile, two-way radio solution with voice and text messaging to provide information to your employees anywhere and anytime — without additional devices to install and maintain. Empower your employees with the information they need to enhance their productivity and safety by using text messaging between radios, radios and dispatch systems and radios to any email-capable device.

NOTIFY YOUR PEOPLE, WHEREVER THEY GO

In manufacturing, you depend on access to real time information to keep the plant running smoothly. With text messaging, your workers don’t need to head to their computers to check on the status of inventory or an incoming shipment. Instantaneous text messaging saves time and helps them be more productive.

If you’re an administrator at a university, you need to communicate quickly. Whether notifying maintenance of an urgent building repair or updating the athletic department on the arrival of a visiting team, text messaging lets you share information — easily, discreetly, conveniently — across campus.

The MOTOTRBO XPR™ 5550 mobile, XPR 7550 portable and SL 7550 portable models offer advanced predictive text features to make text messaging faster than ever. Users can conveniently switch between various text input modes at any time, allowing flexibility for users to enter text with ease.

SEND MESSAGES DISCREETLY

If you’re running a resort or hotel, you know how vital discretionary communication is to your customers’ experience. With text messaging, your employees can communicate information to one another without disturbing the serene and professional atmosphere of your property.

You can use text messaging at the front desk to confirm with housekeeping that a customer’s room is ready. Send a message to maintenance when an issue arises, like a broken air conditioning unit in a guest room. Or coordinate with the golf course to schedule a tee time for a guest.

END DISRUPTIONS AND INTERRUPTIONS

With text messaging, you can quickly and safely communicate with employees on the road. Whether it’s to schedule an unexpected pick up or notify them of heavy traffic, you can share information with your drivers without distracting them with voice conversation. They can read directions or information at a later time and place rather than disrupting their routes and workflow.

STOP DISTRACTIONS SO THEY STAY SAFER

When your work crews are high up, repairing stoplights or restoring power after a storm, or down below, fixing a water main break, you can text work orders or directions to the next location of a repair site. Instead of interrupting them with a voice conversation during a critical task, they can read it later when it’s safe.
## MOTOTRBO PORTABLE RADIO SELECTION GUIDE

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>DESCRIPTION</th>
<th>CP200d</th>
<th>SL100</th>
<th>SL3500e</th>
<th>XPR 3300e</th>
<th>XPR 3500e</th>
<th>XPR 7350e</th>
<th>XPR 7550e</th>
<th>SL7550e</th>
</tr>
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<tbody>
<tr>
<td>FREQUENCY BAND</td>
<td>Capable of operation in the following bands</td>
<td>UHF, VHF</td>
<td>UHF, VHF</td>
<td>UHF, VHF</td>
<td>UHF, VHF</td>
<td>UHF, VHF</td>
<td>UHF, VHF</td>
<td>800, 900</td>
<td>800, 900</td>
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<tr>
<td>CHANNELS</td>
<td>Programmable channel capacity</td>
<td>16</td>
<td>2, 99</td>
<td>2, 99</td>
<td>16</td>
<td>128</td>
<td>32</td>
<td>32</td>
<td>1000</td>
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<tr>
<td>IP RATING</td>
<td>Rated sealing for dust and water ingress</td>
<td>II‘54</td>
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<td>II‘67</td>
<td>II‘68</td>
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<td>DIGITAL</td>
<td>DMR standard digital voice communications</td>
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<td>ANALOG</td>
<td>Analog voice communications</td>
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<tr>
<td>BASIC PRIVACY</td>
<td>Basic protection against casual eavesdropping</td>
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<td>BLUETOOTH AUDIO</td>
<td>Wireless connection for earpieces and headsets</td>
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<td>BLUETOOTH DATA</td>
<td>Wireless connection for data communications</td>
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<tr>
<td>DISPLAY</td>
<td>Visual readout of radio functions</td>
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<tr>
<td>EMERGENCY CALL</td>
<td>Radio can initiate Digital Emergency process</td>
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<td>ENHANCED PRIVACY</td>
<td>Encryption of voice traffic using ARC4 with 40bit keys</td>
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<tr>
<td>GPS</td>
<td>Embedded GPS receiver for location monitoring</td>
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<td>HAZLOC</td>
<td>Radio is designed for use in flammable atmospheres</td>
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<td>IMPRES™ ENERGY</td>
<td>Radio supports IMPRES smart battery technology</td>
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<td>IMPRES OVER-THE-AIR</td>
<td>Radio supports IMPRES Over The Air Battery Management</td>
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<tr>
<td>INDOOR LOCATION-TRACKING</td>
<td>Bluetooth-based indoor positioning</td>
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<tr>
<td>INTELLIGENT AUDIO</td>
<td>Automatic volume control based on background noise levels</td>
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<tr>
<td>KEYPAD</td>
<td>Full (F) or Limited (L) keypad for control and data entry</td>
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<tr>
<td>LONE WORKER</td>
<td>Initiates emergency if user does not respond to periodic alerts</td>
<td>●</td>
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<tr>
<td>MAN DOWN</td>
<td>Initiates emergency based on radio orientation or movement</td>
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<tr>
<td>OTAP</td>
<td>Radio can be programmed Over-The-Air</td>
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<tr>
<td>RADIO DISABLE/ENABLE</td>
<td>Radio can remotely disable and/or re-enable another radio</td>
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<td>REMOTE MONITOR</td>
<td>Radio can remotely activate another radio’s microphone</td>
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<tr>
<td>TEXT MESSAGING</td>
<td>Radio can send and/or receive text messages</td>
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<tr>
<td>TRANSMIT INTERRUPT</td>
<td>Radio can force another radio to stop transmitting</td>
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<tr>
<td>USER-SELECTABLE AUDIO PROFILES</td>
<td>Radio’s sound can be customized by user</td>
<td>●</td>
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<tr>
<td>VIBRATE</td>
<td>Silent alert of incoming calls and texts</td>
<td>○</td>
<td>○</td>
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<tr>
<td>VOICE ANNOUNCEMENT</td>
<td>Integrated Wi-Fi capability</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>DIRECT MODE</td>
<td>Radio is capable of direct radio-to-radio operation</td>
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<td>CONVENTIONAL</td>
<td>Radio can operate on basic repeater system</td>
<td>●</td>
<td>●</td>
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<td>IP SITE CONNECT</td>
<td>Radio can operate on IP Site Connect systems</td>
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<tr>
<td>CAPACITY PLUS</td>
<td>Radio can operate on Capacity Plus systems</td>
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<td>CAPACITY MAX</td>
<td>Radio can operate on Capacity Max systems</td>
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<tr>
<td>CONNECT PLUS</td>
<td>Radio can operate on Connect Plus trunked systems</td>
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</table>
MOTOTRBO PORTABLE RADIOS

PORTABLE 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.

SL 7000e SERIES
SLEEK AND SMART, FOR THE MANAGER WHO NEEDS COMPLETE CONTROL
Stay in control with the ultimate in professional digital communications. This slim and light portable radio is packed with features to help you direct operations. From integrated Wi-Fi and Bluetooth 4.0, to a user interface designed for the latest workforce management applications, the SL 7000e Series has everything you need to boost safety and productivity.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS O CAPACITY MAX ✔ CONNECT PLUS

XPR 7000e SERIES
POWERFUL AND SOPHISTICATED, FOR THE PROFESSIONAL WHO REFUSES TO COMPROMISE
When you need complete connectivity, the XPR 7000e Series delivers. These radios have excellent range, battery life and audio quality in all digital and analog systems, and a full suite of features to enhance safety and productivity. And with integrated Wi-Fi, GPS and Bluetooth 4.0, you can be confident that your radio integrates the latest technology.

COMPATIBLE WITH: ✔ IP SITE CONNECT ✔ CAPACITY PLUS O CAPACITY MAX ✔ CONNECT PLUS

XPR 3000e SERIES
COMPACT AND CAPABLE, FOR THE BUSY WORKER WHO NEEDS TO COMMUNICATE EFFICIENTLY
Connect with efficiency. The XPR 3000e Series delivers analog and digital voice capabilities, with support for basic systems and a feature-set geared to maximum workplace efficiency – including Wi-Fi for remote radio management and Bluetooth 4.0 (please check for availability). With excellent range and impressive battery life, these radios deliver cost-effective connectivity.

COMPATIBLE WITH: O IP SITE CONNECT O CAPACITY PLUS O CAPACITY MAX ✔ CONNECT PLUS

SL SERIES
INSTANT COMMUNICATION, PROFESSIONAL STYLE
Slim and lightweight, the MOTOTRBO SL300 and SL3500e portable two-way radios provides instant communication in a stylish and discreet design. They blend seamlessly with professional attire, allowing you to move freely. At the same time, they are durable and built to last.

COMPATIBLE WITH: ✔ IP SITE CONNECT O CAPACITY PLUS O CAPACITY MAX ✔ CONNECT PLUS

CP200d
SIMPLE VOICE COMMUNICATIONS FOR THE EVERYDAY USER WHO WANTS TO STAY CONNECTED
Communicate simply and clearly. The CP200d gives you affordable analog voice communications, with the option to upgrade to MOTOTRBO digital when you’re ready. With great performance, rugged durability and a straightforward user interface, the CP200d simply keeps your workforce connected.

COMPATIBLE WITH: O IP SITE CONNECT O CAPACITY PLUS O CAPACITY MAX ✔ CONNECT PLUS
# Mototrbo Mobile Radio Selection Guide

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>CM 200d</th>
<th>CM 300d</th>
<th>XPR 2500</th>
<th>XPR 5350e</th>
<th>XPR 5550e</th>
<th>XPR 5550e</th>
<th>XPR 5550e</th>
<th>XPR 5550e</th>
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<th>XPR 5550e</th>
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<tbody>
<tr>
<td>Frequency Band</td>
<td>Capable of operation in the following bands</td>
<td>VHF, UHF</td>
<td>VHF, UHF</td>
<td>VHF, UHF</td>
<td>VHF, UHF</td>
<td>800, 900</td>
<td>800, 900</td>
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<tr>
<td>Channels</td>
<td>Programmable channel capacity</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>1000</td>
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<tr>
<td>IP Rating</td>
<td>Rated sealing for dust and water ingressiation</td>
<td>IP54</td>
<td>IP54</td>
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<td>IP54</td>
<td>IP54</td>
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<td>Digital</td>
<td>DMR standard digital voice communications</td>
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<tr>
<td>Analog</td>
<td>Analog voice communications</td>
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<tr>
<td>Alphanumeric Display</td>
<td>Display for easy access to advanced features</td>
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<tr>
<td>Basic Privacy</td>
<td>Basic protection against casual eavesdropping</td>
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<tr>
<td>Bluetooth Audio</td>
<td>Wireless connection for earpieces and headsets</td>
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<tr>
<td>Bluetooth Data</td>
<td>Wireless connection for data communications</td>
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<tr>
<td>Control Station</td>
<td>Radio can be configured as a Dispatch or Control Station</td>
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<tr>
<td>Emergency Call</td>
<td>Radio can initiate Digital Emergency process</td>
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<tr>
<td>Enhanced Privacy</td>
<td>Encryption of voice traffic using ARC4 with 40bit keys</td>
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<td>GPS</td>
<td>Embedded GPS receiver for location monitoring</td>
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<tr>
<td>Indoor Location-Tracking</td>
<td>Bluetooth-based indoor positioning</td>
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<tr>
<td>Intelligent Audio</td>
<td>Automatic volume control based on background noise levels</td>
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<tr>
<td>Lone Worker</td>
<td>Initiates emergency if user does not respond to periodic alerts</td>
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<tr>
<td>Numeric Display</td>
<td>Clear display of channel number on front of radio</td>
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<tr>
<td>OTAP</td>
<td>Radio can be programmed Over-The-Air</td>
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<tr>
<td>Radio Disable/Enable</td>
<td>Radio can remotely disable and/or re-enable another radio</td>
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<tr>
<td>Remote Monitor</td>
<td>Radio can remotely activate another radio’s microphone</td>
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<tr>
<td>Remote Mount Control Head</td>
<td>Control head can be located separately from radio</td>
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<tr>
<td>Text Messaging</td>
<td>Radio can send and receive text messages</td>
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<tr>
<td>Text to Speech</td>
<td>Radio can read text and settings out loud</td>
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<tr>
<td>Third Party Applications</td>
<td>Radio can use data to support third party applications</td>
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<tr>
<td>Transmit Interrupt</td>
<td>Radio can force another radio to stop transmitting</td>
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<tr>
<td>User-Selectable Audio Profiles</td>
<td>Radio’s sound can be customized by user</td>
<td>●</td>
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<tr>
<td>Voice Announcement</td>
<td>Audible confirmation of selected operations of the radio</td>
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<tr>
<td>Wi-Fi</td>
<td>Integrated Wi-Fi capability</td>
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<tr>
<td>Direct Mode</td>
<td>Radio is capable of direct radio-to-radio operation</td>
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<tr>
<td>Conventional</td>
<td>Radio can operate on basic repeater system</td>
<td>●</td>
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<td>IP Site Connect</td>
<td>Radio can operate on IP Site Connect system</td>
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<td>Capacity Plus</td>
<td>Radio can operate on Capacity Plus systems</td>
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<tr>
<td>Capacity Max</td>
<td>Radio can operate on Capacity Max systems</td>
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<td>Connect Plus</td>
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</table>
MOBILE RADIOS
MOTOTRBO two-way mobiles integrate voice and data seamlessly, offer advanced features that are easy to use and have twice the capacity of analog radios. With exceptional voice quality and usability, MOTOTRBO keeps your mobile workforce easily and instantly connected, wherever they go.

XPR 5000e SERIES
POWERFUL AND SOPHISTICATED, FOR THE PROFESSIONAL WHO REFUSES TO COMPROMISE
When you need complete connectivity, the XPR 5000e Series delivers. These radios have excellent range and audio quality in all digital and analog systems, and a full suite of features to enhance safety and productivity. And with integrated Wi-Fi, GPS and Bluetooth 4.0, you can be confident that your radio integrates the latest technology.

COMPATIBLE WITH: IP SITE CONNECT, CAPACITY PLUS, CAPACITY MAX, CONNECT PLUS

XPR 2500 SERIES
COMPACT AND CAPABLE, FOR THE BUSY WORKER WHO NEEDS TO COMMUNICATE EFFECTIVELY
Connect with efficiency. The XPR 2500 delivers analog and digital voice capabilities, with support for basic systems and a feature-set geared to maximum workplace efficiency – including Wi-Fi for remote radio management. With excellent range and a wide range of accessories, this radio delivers safe and cost-effective connectivity.

COMPATIBLE WITH: IP SITE CONNECT, CAPACITY PLUS, CAPACITY MAX, CONNECT PLUS

CM200d, CM300d
SIMPLE VOICE COMMUNICATIONS FOR THE EVERYDAY USER WHO WANTS TO STAY CONNECTED
Communicate simply and safely. CM200d and CM300d radios give you affordable analog voice communications, with the option to upgrade to MOTOTRBO digital when you’re ready. With great performance and a straightforward user interface, the CM200d and CM300d simply keep your workforce connected.

COMPATIBLE WITH: IP SITE CONNECT, CAPACITY PLUS, CAPACITY MAX, 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.

SLR 1000 SERIES REPEATER
Keeping your team connected requires uninterrupted radio coverage. Using the SLR 1000 repeater, you can easily extend the range of your network through dead zones and across remote locations, so everyone’s within reach. Deploy the SLR 1000 indoors or out—it’s IP65-rated for dust and water protection. The compact size gives you more installation options. And a low power, fanless design uses less space and energy.

SLR 5000 SERIES REPEATER
A next-generation DMR repeater, the SLR 5000 Series offers high performance, high efficiency and a design for the future. The product has a 50 W continuous-duty output and high sensitivity for optimum coverage, and high reliability and low power consumption for low cost of ownership. With a slim, modular design, the product is easy to install and service.

SLR 8000 SERIES REPEATER
Built on the slim next-generation repeater platform, this repeater supports up to 100 W continuous-duty operation, with high sensitivity for exceptional coverage. The modular design keeps reliability high while allowing for configurable options.

XPR 8000 SERIES REPEATERS
Maximize the performance of your MOTOTRBO system with the 40 W XPR 8000 Series repeaters. They utilize Dynamic Mixed Mode capability to ease migration by automatically switching between analog and digital mode. The XPR 8000 Series supports two simultaneous voice or data paths in digital mode, doubling capacity without adding new frequencies.

WAVE SERVER
Get robust and secure management of your client accounts. The WAVE Server provides the interface between public cellular networks and the MOTOTRBO radio network for secure centralized provisioning, flexible client management, call history, upgrades and diagnostics.
CONSOLES & SYSTEM MANAGEMENT
With options designed for your business, this portfolio of dispatch consoles and system management applications have the features you need to make quick decisions, mobilize a fleet and keep teams informed.

MIP 5000
When you need to keep your staff connected with clear, effective and affordable voice communication, you can rely on the MIP 5000 VoIP Radio Console. This powerful radio-over-IP dispatch console utilizes control stations to access up to 24 channels via a flexible Windows GUI. Dispatch terminals can be connected over any IP network, allowing you to supplement traditional stationary desktop PCs with mobile laptop dispatcher positions.

AVTEC SCOUT
Scout is a true VoIP console system: all its components may be distributed over a LAN/WAN using standard Ethernet connections. The system uses a wireline interface to connect with MOTOTRBO systems, for increased functionality, call capacity and system reliability.

Scout provides a dedicated media workstation. This allows customers to operate on standard hardware for reduced costs. Radio, Telephony, and I/O integration are supported.

GENESIS GW3-TRBO
GW3-TRBO® represents the ultimate in system management for MOTOTRBO. With GW3-TRBO, you have an easy way to generate detailed metrics of your MOTOTRBO system performance.

GW3-TRBO connects directly to the MOTOTRBO system through a wireline interface. It captures usage information for every site, channel, slot, talkgroup and subscriber.

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.
SYSTEMS
No matter how large or small your enterprise, MOTOTRBO offers a wide range of systems specifically designed for your business – for the days ahead and 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.

CONVENTIONAL
BASELINE SINGLE SITE COVERAGE AND CAPACITY
A conventional system is a step up from basic radio-to-radio communications. Radios communicate via a high-power repeater, giving better coverage and more centralized control.

IP SITE CONNECT
COST-EFFECTIVE COVERAGE FOR MULTIPLE SITES
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 repeaters to create wide-area coverage or enhance coverage quality at a single site.

CAPACITY PLUS
COST-EFFECTIVE COVERAGE AND CAPACITY FOR SINGLE AND MULTIPLE SITES
Expand the capacity and extend the coverage of MOTOTRBO with this entry-level digital trunking system. With multi-site Capacity Plus (formerly Linked Capacity Plus) you can connect up to 15 sites, each with up to 8 voice and data repeaters - plus up to 12 dedicated data repeaters.

CAPACITY MAX
COVERAGE, CAPACITY AND CONTROL FOR SINGLE AND MULTIPLE SITES
The next generation of trunking has arrived. MOTOTRBO Capacity Max blends innovation with Motorola’s extensive real-world experience of trunked radio systems to deliver a scalable communications solution that’s perfect for your business.

CONNECT PLUS
EXCEPTIONAL COVERAGE FOR SINGLE AND MULTIPLE SITES
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 wireline console can be used for centralized dispatch.
MOTOTRBO APPLICATIONS

TAKE YOUR NETWORK TO THE NEXT LEVEL

Benefit from solutions designed to fit your needs and strategies to be more productive, more efficient and more effective.

Leveraging communication network capabilities is vital as we strive to optimize resources and improve safety, security and situational awareness. Sometimes it is good to stop and consider if more can accomplished with your existing or planned systems.

That’s where our application catalog comes in - a selection of world-class technology experts ready to maximize the power of your radio system and meet your challenging objectives. Wherever you want to go, these experts have the credentials and experience to help you get there.

TRUE SPECIALISTS
Choose from a wide range of companies specializing in applications such as fixed control rooms; asset and location tracking; network management; job ticketing; alarms; or telemetry. The solution providers in this catalog will help you develop your network, providing advice and then implementing leading-edge solutions to boost performance.

WORLDS-CLASS SOLUTIONS
Be assured you will be working with companies that are experts in their field - world class organizations that are committed to providing the most effective solutions possible. Motorola Solutions and its licensed partners are highly qualified and meet stringent requirements for technical ability, staff expertise and operational support.

THE LOGICAL NEXT STEP
Keeping pace with technology is one of the most important attributes of a successful operation. Choose Motorola or one of our approved licensed developers and see how you can take your radio network to the next level*.

*Unless specified, Motorola Solutions is not responsible for any product and/or information provided by an application developer. For more information on any of the product applications featured in this guide, please contact the application developer directly.
**APPLICATION FEATURES**

Quickly locate and get a first understanding of the MOTOTRBO applications that will meet your specific needs in the Application Features summary table.

With the industry's largest Application Developer Program there is a wide portfolio of MOTOTRBO solutions available from our ADP partners. A comprehensive view of all available applications organized by application category helps you quickly find key characteristics and features for each application.

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<tr>
<th>APPLICATIONS</th>
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<td>Avtec Inc Scout</td>
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<td>Call24 CallBox Systems Call24 TRBO Callbox</td>
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<td>ComTran Associates GPS Tracking &amp; Asset Management Solutions</td>
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<td>CTI RadioPro Solo</td>
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<td>NeoTerra Systems neoConneX</td>
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<td>Rayfield Communications C-Bridge</td>
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* Diagonal dots indicate blank rows.*
### Application Features

Find the application to meet your specific needs and take your communications to the next level:

- Alarm & Telemetry
- Asset Management
- Broadband & LMR Voice
- Device & System Management
- Integrated Command & Control
- Interoperability
- Messaging Solutions
- Situational Awareness
- Workforce Efficiency & Management

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<td>Teldio Alarm Control System</td>
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<td>Teldio Man Down Notifier</td>
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<td>Teldio Radio to Radio Recording</td>
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<td>Teldio RBX Telephone Interconnect</td>
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DIGITAL RADIOS

American Communication Systems
Discover the Power of Communications™
http://www.ameradio.com
MOTOROLA DIGITAL RADIOS

MIGRATE AT YOUR OWN PACE
Keeping operations running smoothly during a change in communication systems is vital to any business. It’s easy to migrate to digital with Motorola Solutions’ Commercial Series digital radios because they deliver the same features as their analog radios as well as adding an upgrade path to digital. Digital models can operate in analog and digital modes concurrently - and to ease the transition even further, the dynamic mixed mode repeater functionality streamlines automatic switching between analog and digital calls. So, you can start using Motorola Solutions’ digital radios and repeaters on your existing analog system, then migrate to digital when your business is ready.

MOTOROLA DTR650
HELPING THE WORKFORCE STAY CONNECTED
The DTR650™ digital on-site portable radio delivers all the great features of the DTR550 along with managerial capabilities. The radio features operate at 900 MHz and offers enhanced communication options such as Digital One-to-Many Calling (Public Group Call and Private Group Call). It also provides enhanced performance with greater coverage — up to 350,000 square feet or 30 floors (with long whip antenna) — as well as longer battery life and digital audio quality that is clear and crisp within coverage areas.

MOTOROLA EVX-261
MAKE THE MOVE TO DIGITAL EASILY AND AFFORDABLY
The EVX-261 operates in both analog and digital modes, so it’s ideal for use with mixed fleets. With expanded interoperability, you can choose from multiple signaling options, including MDC1200®, DTMF, and 2-tone or 5-tone capabilities, along with voice inversion encryption. And in digital mode, enjoy noise cancellation for crisp audio and clear conversations. Compatible with the universal battery system, you’ll eliminate equipment clutter and confusion by standardizing on one charging base for the entire team.

MOTOROLA EVX-S24
COMPACT, DISCREET, LIGHTWEIGHT
Give your team members a compact, discreet, and lightweight radio that allows them to be comfortable in any situation. Worn on a belt, tucked away in a pocket or clipped to a lapel, the water-submersible and dust-proof EVX-S24 is designed to survive demanding conditions. It operates in both analog and digital modes, so it’s ideal for use with mixed fleets. And in digital mode, enjoy noise cancellation for crisp audio and clear conversations. The EVX-S24 meets international standard IP67 for water submersibility and is dust proof. The EVX-S24 is protected from immersion in water up to 3 feet for 30 minutes and offers complete protection from dust.
ANALOG PORTABLE RADIOS

MOTOROLA BPR40
AFFORDABLE AND RELIABLE RADIO FOR SMALL BUSINESS
An affordable, high-performance communication tool that will be a reliable solution for your communication needs. When you equip your work force with the BPR 40, they will be able to react more efficiently. Quicker response, better customer service, saved trips, and increased safety – they all add up to better operations and a streamlined process.

The Mag One by Motorola BPR 40 two-way radio not only provides affordable communication, but also a complete assortment of accessories for radio customization.

MOTOROLA CP185
RELIABLE COMMUNICATION WITH ENHANCED FUNCTIONALITY – MAKING IT EASIER TO GET THE JOB DONE
Small and lightweight, the CP185 fits comfortably into your hand and is easy to use. To provide the right features for each user, the CP185 is available in a Limited Keypad (LKP) model with screen, and a No Keypad (NKP) model. Voice activated (VOX) ready for hands-free communication lets users focus on the job at hand, improving safety and efficiency. The programmable buttons, five for the LKP model and two for the NKP model, enable easy, one-touch access for up to 10 user-selected features. Ideal for educational institutions, retail and hospitality businesses, service and manufacturing industries, the Motorola CP185 brings you a robust two-way radio solution. With its ergonomic shape for comfortable use plus everyday security features in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

MOTOROLA VL50
SMALL, LIGHTWEIGHT, AND SIMPLE-TO-USE
In today's competitive business environment, maximizing productivity is critical to success. That's why employees must be connected...the Motorola VL50 makes it easy and affordable! To provide businesses with that competitive edge, Motorola has developed an easy-to-use, affordable wireless solution – Value Line Business two-way radios. Helping businesses offer superior customer service, the VL allows employees to react quickly to requests and have instant access to one another. VL two-way radios and headsets are designed with business productivity in mind – providing functionality at the push of a button.

MOTOROLA VX-260 SERIES
FOR BASIC PUSH-TO-TALK COMMUNICATION, LOOK TO THE VX-260 SERIES
Choose from two portable analog radios, the VX-261 (without display) and VX-264 (with display). With enhanced interoperability, you can choose from multiple signaling options, such as MDC1200®, FleetSync®, DTMF, and 2-tone or 5-tone capabilities for seamless integration into a mixed fleet. Compatible with the universal battery system, you’ll eliminate equipment clutter and confusion by standardizing on one charging base for the entire team.

MOTOROLA VX-450 SERIES
FOR ROBUST, DEDICATED PUSH-TO-TALK COMMUNICATION, LOOK TO THE VX-450 SERIES
Choose from three analog portable radios, the VX-451 (without display) and the VX-454/VX-459 (with display). Water submersible and available with HazLoc consideration, it’s built for use in harsh conditions and hazardous locations. With enhanced interoperability, the VX-450 Series offers comprehensive signaling options -including MDC1200, DTMF, deeper and richer 2-tone options, as well as 5-tone capabilities. And it integrates seamlessly into a mixed fleet, while allowing your system to grow as your needs do. Compatible with the universal battery system, you’ll eliminate equipment clutter and confusion by standardizing on one charging base for the entire team.
MOTOROLA VX-2100/2200 SERIES
FOR BASIC MOBILE COMMUNICATIONS, LOOK TO THE VX-2100/2200 SERIES
Choose from two mobile analog radios, the VX-2100 (without display) and VX-2200 (with display). They install easily in small spaces, and their die cast aluminum construction helps dissipate heat and absorb vibration for added durability.

The channel capacity is 8 channels for easy operation on the VX-2100 or 128 channels for large group communications on the VX-2200. And optimize your operations with multiple scanning options.
YOUR RADIO IS ONLY AS GOOD AS THE ACCESSORY OR BATTERY ATTACHED TO IT – MAKE SURE IT’S MOTOROLA.

Risk-taking has its place in the business world, but not with your vital communication needs. A mismatched battery, a flimsy headset or an ill-fitting carry case are just some of the ways your radio may not be ready at the moment you have to use it.

That’s why Motorola Original accessories are your only option for making the most of your radio’s capabilities. Every Motorola accessory is designed, built and rigorously tested to the same quality standards as Motorola radios. Enhance your two-way radio capabilities with high performance Motorola Original® accessories, to ensure your radio is ready to do its job time after time – helping to increase your productivity.

MOTOROLA ORIGINAL® ACCESSORIES PROVIDE CUSTOM RADIO SYSTEMS

THE POWER OF YOUR RADIO UNLEASHED

Two-way radio offers the best technology when you need instantaneous, secure and controllable communications. Using the right accessories with the radio can add real value for you by providing a complete, customized solution that is safer and easier to use with improved system performance.

Motorola Solutions offers a vast range of two-way radio accessories:

- **MagOne™** - Value Line
- **Motorola Original®**
- **IMPRES™** - High Performance

These accessories allow Motorola to offer different tiers of solutions to best meet your specific needs. And as you would expect from Motorola, they apply the same quality and performance standards to all their accessories that they do for their radios. They are tested together as a complete system, so you can rely on them.

In this catalog, you’ll find proven accessory solutions to help you work harder and smarter. Remote speaker microphones for more convenient control. Carry cases for ease of use when on the move. Earpieces to ensure privacy. Headsets for hands-free operation. High-capacity batteries to extend work time, and more. Because they all carry the Motorola Original name, they’re solutions you can count on.
PORTABLE RADIO ACCESSORIES

FREE YOURSELF TO WORK MORE EFFICIENTLY

No matter where you go or what you do, Motorola radios are made for clear, coordinated communication in the busy workplace. To help you excel in your job, you need accessories that match the performance of your Motorola radio – that truly fit your environment. That’s why it’s important to use Motorola tested and certified accessories with your portable radio. They’re the only ones designed, built and tested with your radio to optimize its performance.

Only Motorola accessories unleash the full power of Motorola radios. So as you walk from the production line, across hotel grounds or to the store stockroom, you can work more easily and efficiently wearing a comfortable, convenient accessory. Combine Motorola’s best in-class radios with Motorola Original® accessories to achieve even greater productivity and cost savings. Together, you’ll rethink what’s an accessory – and what’s a necessity.

BATTERIES AND CHARGERS

YOUR RADIO IS ONLY AS RELIABLE AS THE BATTERY THAT POWERS IT. MAKE SURE IT’S PROVEN TOUGH.

IF YOUR BATTERY ISN’T WORKING, YOU’RE NOT WORKING.

On the manufacturing line or the fire line, at a crash site or a construction site, you rely on a two-way radio that operates continuously – that won’t stop when it’s dropped, won’t break when it’s shaken or won’t fail when it’s shocked by static electricity. Whether you’re in public safety or private enterprise, radio batteries that can’t handle the rigors of the real world aren’t a bargain. Because when a radio battery dies and your radio stops, you can’t do your job.

Motorola understands that uninterrupted communications are business-essential and mission-critical. There is no margin for error and no room for malfunction. And they know that other leading radio battery brands don’t deliver what they do. Highly reliable, high performing batteries that are proven tough. Time after time. Test after test.

MOTOROLA RADIOS AND BATTERIES PERFORM OPTIMALLY TOGETHER. BY DESIGN.

Unlike aftermarket battery brands, Motorola batteries are designed and developed as an integral component of their two-way radios. No other aftermarket battery manufacturer can offer that certainty and compatibility with Motorola radios. Motorola engineers, manufactures and tests to stringent specifications to make sure their batteries withstand the most unforgiving environments. So you can be confident our radio batteries perform reliably when you need them most.

Motorola also offers “intrinsically safe” (IS) batteries that are approved for use with the Motorola intrinsically safe approved radio unit. We can only ensure the continued certification and compliance of our radios with the use of Motorola approved intrinsically safe batteries.

ADVANCED IMPRES™ BATTERIES AND CHARGERS

Along with their standard Motorola radio batteries, they also offer the exclusive IMPRES “smart energy” system. This exclusive battery technology provides adaptive reconditioning and end-of-life display to maximize your talk-time and battery cycle life – all automatically. You can safely leave batteries on the IMPRES charger without damaging them and keep your batteries fully charged. So you can be confident they are always ready and your radio is ready to work, right when you need it.

Motorola IMPRES batteries and chargers also enable the implementation of the industry-exclusive IMPRES Battery Fleet Management System. A software application that enables unprecedented data collection and analysis, allowing you to better manage the health and status of your IMPRES batteries.
PORTABLE RADIO ACCESSORIES

AUDIO ACCESSORIES

Only Motorola offers a wealth of exclusive audio features that ensure your message is heard even in the most demanding work conditions.

<table>
<thead>
<tr>
<th>IMPRES™ AUDIO</th>
<th>WINDPORTING AUDIO</th>
<th>NOISE-CANCELING AUDIO</th>
<th>INTELLIGENT AUDIO</th>
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</thead>
<tbody>
<tr>
<td>Ensure your voice is heard clearer, crisper and louder regardless of level or direction you're speaking into the accessory.</td>
<td>Reduce the effect of wind and other outdoor noises so your messages are always heard clearly.</td>
<td>Reduce the effect of background crowd and machinery noise so your messages are always heard clearly into the accessory.</td>
<td>Set your volume once. Depend on your accessory to listen for changes in background noise, adjusting the volume automatically so you hear every call.</td>
</tr>
<tr>
<td>I hear you however you speak</td>
<td>I hear you, not the wind</td>
<td>I hear you, not the noise</td>
<td>I hear you, even when you can't hear yourself</td>
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In addition to the standard audio accessory features, Motorola Solutions has developed exclusive audio capabilities for them as well. They offer a range of models to ensure optimal performance even in extreme noise or windy environments.

WINDPORTING AUDIO
Communicate clearly in difficult weather. Wherever you work – in howling wind, driving rain or severe weather – Windporting helps you communicate effectively and listeners hear clearly.

Windporting technology eliminates the whining and howling sounds of wind blowing across your lapel/remote speaker microphone. It also prevents water from clogging the microphone for clearer transmissions.

NOISE-CANCELING AUDIO
Reduce the effect of background crowd and machinery noise so your messages are always heard clearly.

IMPRES™ AUDIO (MOTOROLA EXCLUSIVE)
Make sure every word is heard regardless of the level or direction you’re speaking into the accessory. Be clearly heard the first time and eliminate repeating yourself. Whether you need to talk loudly or quietly, into or away from the accessory, IMPRES Audio lowers the loud talker level and raises the soft talker level automatically so listeners do not have to adjust the volume depending on who is talking.

Policing a busy airport, fixing equipment on a noisy production floor or assisting guests in a quiet hotel, IMPRES Audio promises a high quality communication experience.

HOW DOES IMPRES™ IMPROVE AUDIO PERFORMANCE?
IMPRES enhances the clarity and audio quality of Motorola accessories by reducing ambient noise and improving voice intelligibility.

If you speak quietly or normally, but not directly into a microphone, IMPRES Audio detects changes in your voice and automatically adjusts the transmitted volume so your listener won’t have to adjust volume up and down.

INTELLIGENT AUDIO (MOTOROLA EXCLUSIVE)
Focus on your job instead of your radio volume. Make adjusting your radio volume based on background noise a thing of the past. Intelligent Audio listens to sounds in the background and automatically raises or lowers your radio volume so you can always hear. If you’re heading from a noisy area to a quiet place, you won’t disturb others because you forgot to adjust the volume.

Intelligent Audio, when complemented with IMPRES Audio, takes your communications to a new level.
EARPIECES AND SURVEILLANCE ACCESSORIES

A wide selection of styles fit the way you work – from discreet clear acoustic tube styles to over-the-ear styles. With inline push-to-talk and microphones, these accessories are easy to access on the go, so you can stay focused on the job. Choose from a variety of surveillance kits and ear microphones to communicate discreetly.

HEADSETS

In some extremely loud environments, it is difficult to hear your radio conversations without a headset. Motorola headsets are designed to offer high clarity audio with the additional hearing protection necessary to provide consistent, clear, two-way radio communications in harsh, noisy environments.

Motorola’s lightweight headsets provide lasting comfort, and their heavy-duty headsets provide comfortable ways to protect your hearing in noisy environments. Even if your teams are logging extra hours stocking shelves or clocking overtime on the manufacturing line, they can communicate confidently. Heavyweight headsets offer extra durability and protection in more rugged and noisy environments.

REMOTE SPEAKER MICROPHONES

Two-way radio offers users reliable, instantaneous communications, and the addition of a Remote Speaker Microphone (RSM) can make a portable radio even easier, safer and more effective to use. Motorola radios are built to withstand knocks and bumps, but keeping the radio on the belt helps protect it from the drops and misuse that can occur when users hold the radio in their hand. Using an RSM allows the user to make and receive calls without the need to remove the radio from their belt, leaving their hands free to hold guard rails, climb ladders, carry equipment or operate machinery.

OPERATIONS-CRITICAL WIRELESS BLUETOOTH® ACCESSORIES

Work with your radio like never before. Place your radio on a desk or cart, in a purse, medical bag or backpack and converse seamlessly with your wireless earpiece up to 30 feet away from your radio. Put your wireless PTT where you want to – on a clipboard, steering wheel or coat pocket – without wires getting in the way. Motorola Bluetooth-enabled radios allow both an Operations-Critical Wireless PTT and audio accessory to be connected and used at the same time. And Operations-Critical Wireless accessories last up to 10 hours – up to 3 times the battery life of commercial Bluetooth® headsets.

CARRY ACCESSORIES

You’ll be amazed at how much time you’ll save when your radio is always in the same place. Motorola’s versatile portfolio includes leather and nylon carry cases to protect your radio in tough places, while ensuring it’s easy to find and use.

BELT CLIPS

For Motorola’s belt clips, they specify only polycarbonate plastic for optimal protection and performance. Motorola’s belt clips are strong, robust and designed to “bend and flex” when dropped.

CARRY CASES

Add protection to your radio while you carry it in comfort. A variety of carrying accessories are available for comfort and convenience. The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly.

CHEST PACKS

Motorola Original Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.
ANTENNAS
Get the best possible reception wherever you operate.

Motorola antennas are sturdy and dependable for years of fail-safe communication.

FLEXIBLE WHIP ANTENNAS
Flexible Whip Antennas have a one-piece finish, steel core and spiral wound conductor for optimal radiation characteristics.

STUBBY ANTENNAS
Stubby antennas are ideal for radios worn on the belt because they are short and non-obtrusive. These rugged, helical antennas feature a capless sheath that allows for maximum flexibility.

HELIFLEX ANTENNAS
Heliflex antennas are engineered for maximum output and coverage. Stubby antennas are unobtrusive, ideal for wearing the radio on a belt. Whip antennas are one piece with a steel core for optimal radiation.

FREQUENCY BAND
Most antennas only cover a portion of a frequency band. Motorola’s wideband UHF and VHF antennas offer coverage across the entire band, enhancing your communication flexibility.

INTEGRATED GPS
A GPS antenna is integrated into the RF antenna.

CALL BOXES

ASSURE INSTANT COMMUNICATION WITH TWO-WAY RADIO CALL BOXES
Added Safety and Convenience in Remote Locations

Communicate Without Wires or Monthly Operating Fees

Whether used within a corporation or college campus, recreational area, shopping center or transportation system, Call Boxes provide a swift and reliable way for employees, visitors and customers to communicate to a monitoring station. Two-way based Call Boxes, designed by Connectivity, allow for integration into most existing radio systems and provide direct access to personnel connected to the system. Connectivity’s design allows for expansion of security coverage and can help improve response time without the need for additional personnel. Call Boxes provide an affordable and reliable way to communicate with and secure the most remote locations.
MOTOROLA MOBILE RADIO ACCESSORIES

There’s a vast variety of accessories that are available for mobile radios. From mounting brackets to microphones, antennas to speakers, Motorola offers a wide range of solutions to make installations safe, secure and easy to use.

MAKE IT EASY TO BE MORE EFFICIENT ON THE JOB

Simple, clear voice communication is a “must have” for your operation. We realize that to help you excel in your job, you need accessories that match the performance of your Motorola radios – that truly fit your work environment. When you use Motorola accessories with your mobile radio, you are simply more efficient. That’s why it’s important to use Motorola Original® accessories. They’re the only ones designed, built and tested with your mobile radio to optimize its performance. Only Motorola accessories unleash the full power of your radios. So as you deliver packages, dispatch trucks and coordinate shipments, you can work more easily and efficiently with our comfortable, convenient and practical accessories. Combine Motorola’s best-in-class radios with Motorola Original® accessories to achieve even greater efficiency and cost-savings. Together, you’ll rethink what’s an accessory – and what’s a necessity.

HOW DO MOBILE WIRELESS ACCESSORIES HELP ME?

Use your mobile radio like never before and freely move around your vehicle. This means a driver can sort through packages on the back of the delivery truck, a bus driver can check on students in the back of the bus, or a city worker can trim trees from a cherry picker and all can still remain connected to their mobile radio. And by removing the wired connection to a desktop mobile, a dispatcher can walk around the office and manage calls.

MICROPHONES AND AUDIO

MICROPHONES

SAY GOODBYE TO DISTRACTING NOISE WITH INTELLIGENT AUDIO

Do road noise, rush-hour traffic, heavy equipment, diesel engines and other loud sounds compete with your communication? The Intelligent Audio feature makes adjusting your radio volume to handle external noise a thing of the past.

Intelligent Audio listens to sounds in the background and automatically raises or lowers your radio volume so you can always hear clearly. If you’re driving an empty bus that quickly fills with chattering children – you will still be able to hear important communication without taking your hands off the wheel to adjust the radio volume.

Find the right microphone for the way you work – whether you’re delivering packages around town or transporting children to school.

Choose from four different styles:

STANDARD COMPACT MICROPHONES

Standard Compact Microphones fit comfortably in your hand for quick, convenient communications.

KEYPAD MICROPHONES

Keypad microphones let you easily navigate menus on your radio, dial numbers and more.

HEAVY-DUTY MICROPHONES

Heavy-Duty Microphone for users who want more durability, also ideal for those who need a larger microphone that is easier to handle when wearing gloves.

TELEPHONE-STYLE HANDSET

Ideal for users wanting to conduct private conversations. Ergonomically-designed, easy to hold. Includes cup and hardware.

FEATURED ACCESSORY - MOTOROLA XPR 5000 SERIES

New Handheld Control Head for the XPR 5000 Series

This handheld control head for the XPR 5000 Series radios allows for total installation flexibility, in-vehicle mobility and total control of your mobile radio. The radio unit can be installed wherever it is most convenient: behind the seat, under the dash or in the trunk. The control head can then be mounted close to the user on a standard hang-up clip. The standard coiled cord is 5.9 ft. long, and will stretch to 9.8 ft. (an optional extension cable adds 16.4 ft.). The control head allows users to move around within the vehicle and still stay connected. Ambulance attendants, bus drivers and delivery drivers can take the control head into the rear of the vehicle rather than being limited to the driver’s seat. With a full keypad, color screen and channel and volume controls, the control head offers the full feature-set of a portable radio. Contact lists, text messages, radio settings, work order tickets and notifications are all accessible from wherever you are in the vehicle.
OPERATIONS-CRITICAL WIRELESS BLUETOOTH® ACCESSORIES

GET MORE FREEDOM AND FLEXIBILITY WITH BLUETOOTH DESIGNED FOR BUSINESS
This portfolio is a game changer, giving you the flexibility to remove the radio from your belt and stay connected within 30 feet. Your people rely on clear, continuous communication wherever their work takes them. And you rely on the Motorola radio system to keep them connected, current and collaborative. From the grounds crews on a golf course to security personnel at a sporting event to the receptionist at a resort, sharing information instantly and easily is absolutely critical – operations-critical – to running business smoothly.

With Motorola Operations-Critical Wireless accessories, you’ll find flexible, cost-effective Bluetooth® solutions that give your people more freedom in their communications and more mobility in their work day. So they can move without wires, converse discreetly and even take their radio off their belt whenever the job requires it.

CONTROL STATION ACCESSORIES
A Control Station converts a mobile two-way radio into a convenient base station. This makes an ideal communication solution for transportation, manufacturing, construction and public safety users.

The radio mounts into the lightweight, portable chassis, containing a full range of front panel control buttons plus an internal microphone, speaker and power supply. A front connector allows for a range of external audio accessories, including a desk microphone, tone or DC remote adapter and telephone interconnect. Not compatible with all mobile radios.

Turn a mobile into a convenient desktop base station. Perfect for fleet operators in transportation, construction and public safety industries. Mobile radio and desktop microphone both sold separately.

VEHICLE SOLUTIONS
KEEP YOUR EYES ON THE ROAD AND YOUR HANDS ON THE WHEEL
Communicate safely with these essential vehicle solutions, wherever the work takes you – from the school bus to the short-haul delivery truck.

Clip the visor microphone to your vehicle’s sun visor, so you don’t have to hold a microphone. Combine it with one of our remote push-to-talk options, push-button mounted on the steering wheel or footswitch mounted on the floor, to provide a complete hands-free communication solution.

VISOR MICROPHONE AND PUSH-TO-TALK SWITCHES
Improve convenience and safety with the Visor Microphone and its compatible hands-free transmission options. Small microphone mounts to vehicle’s visor for convenient hands-free radio operation. Use with choice of external push-to-talk switch.

EMERGENCY FOOT SWITCH
Lets user notify the base station quickly and discreetly of trouble. Sends signal to station and activates microphone.

EXTERNAL PUSH-TO-TALK (PTT)
Activate the PTT or emergency footswitch without having to use the mobile microphone. A simple push-button PTT can be held in the hand or mounted in your vehicle for easy access, while the emergency footswitch lets you discreetly activate emergency hands-free when a critical situation arises.

RLN6551 Long Range Wireless Remote Speaker Microphone Kit
PUBLIC ADDRESS AND SPEAKERS

PUBLIC ADDRESS KITS
College campuses, commercial and industrial complexes, government facilities, military bases, municipal districts, local schools and even cities need to be able to communicate with the public in the event of an emergency, at public events and festivals. These accessories can help you get the word out, whether it’s from a vehicle or from a desktop station through speakers at a fixed location.

EXTERNAL SPEAKERS
Outmuscle noise in loud conditions and rugged situations – from the rumble of a cab in a cement truck to the hustle and bustle of a delivery truck at the loading dock. Motorola’s external speakers give you an extra audio boost in your vehicle. Customize speakers to your environment.

ANTENNAS

MOBILE RADIOS
A variety of antennas ensure the best possible reception wherever you operate. Choose from antennas with integrated GPS to standalone RF antennas.

FREQUENCY BAND
Most antennas only cover a portion of a frequency band. Motorola’s wideband UHF and VHF antennas offer coverage across the entire band, enhancing your communication flexibility.

INTEGRATED GPS
A GPS antenna is integrated into the RF antenna.

LOW PROFILE ANTENNAS
Compact design is a key feature of low profile antennas.

MAGNETIC/THROUGH-HOLE MOUNT ANTENNAS
These antennas are designed to direct the signal more toward the horizon, making them ideal for applications in more geographically flat regions where signal coverage is sparse and must cover a larger area.

INSTALLATION AND MOUNTING ACCESSORIES

Mobile radios are often installed on the dash of a vehicle and run off its power source. These accessories are available for mounting Motorola mobile two-way radios in vehicles.

Mount your radio in your vehicle without compromising safety. Trunnion kits give you the flexibility to mount the radio under your dash, in your dash, between the seats or on the floor. Remote mount kits allow the radio to be mounted in the trunk when dash space is limited.

LOW-PROFILE MOUNTING BRACKET
Keeps radio tucked up under the dash, can also be positioned for floor mount.

HIGH-PROFILE MOUNTING BRACKET
Keeps radio tucked up under the dash, with extra clearance so radio can be tilted for a better view. It can also be positioned for floor mounting.

KEY LOCK MOUNT
Key lock helps provide extra protection from theft. Lock/unlock radio from position in the mounting bracket.

Not sure which Motorola Original accessories are right for your business environment?
Contact us today and our Professional Two-way Radio expert will work with you to identify your options to enhance your two-way radio capabilities with high-performance Motorola Original accessories.
Push-To-Talk (PTT) is no longer a technology-driven term, it is an enterprise-wide capability. It enables teams to communicate instantly, reliably and productively together to improve business and elevate service. Today, broadband networks and devices are so ubiquitous that any worker can be connected to any device in their pocket or on their desk with real-time communications through PTT. With interoperable broadband PTT, everyone can become part of the conversation without concern about which device or network they use.

The revolution is being push-to-talked about. Today, virtually everyone can benefit from push-to-talk (PTT) across their organization. PTT brings the immediacy and spontaneity to connect different personnel together seamlessly. Regardless of their location, the network they’re on and the device they use, PTT makes everyone part of the conversation for truly enterprise-wide communications.

PTT affords unlimited opportunities for organizations of every size – from the small police department in a rural community to the large, distributed multinational enterprise that needs supply chain efficiencies across the board. PTT is the pathway that unifies communications and facilitates collaboration for greater operational efficiency. Just as texting and tweets are the conduit for much of social media, PTT is transforming the way enterprises use voice.

**BENEFIT FROM ENTERPRISE-WIDE COMMUNICATIONS LIKE NEVER BEFORE**

A secure broadband PTT application like WAVE™ Work Group Communications enables instant, real-time communication and everywhere connectivity. It streamlines collaboration with Land Mobile Radio (LMR) systems and new technologies, such as 4G LTE broadband, plus a complete array of disparate devices – including two-way radios, smartphones, tablets, laptops, desktop computers and landline phones. WAVE delivers communication capabilities for agencies, organizations and enterprises like never before. This intuitive suite of software applications helps them create and manage a seamlessly-connected environment by utilizing the technology investments they already have.

**MAKE LMR INTEROPERABILITY AN EVERYDAY REALITY**

Communication among people is a critical component of the daily operations of any organization. For many, it can be the difference between success and failure; in dangerous jobs and hazardous environments, between life and death. Yet often those who need to be connected can’t because they are on different systems, devices and networks. WAVE lifts the barriers of communication incompatibility by assuring large-scale interoperability. Adjacent agencies, responders and teams that bring their own LMR systems to an incident can converse easily and seamlessly using WAVE. By leveraging the technologies already in place, WAVE makes incumbent equipment work harder and smarter.

**EXPERIENCE THE IMMEDIACY OF BROADBAND PTT**

Broadband-only PTT is perfect for organizations that value the immediacy and spontaneity of group communications but do not need the performance, capacity and reliability of a private LMR network. Because broadband networks are so ubiquitous and so many workers bring their own mobile devices to work, they can benefit from real-time communications through broadband PTT. WAVE facilitates this because it works over any data network, freeing workers to use their own network devices. Plus WAVE enables richer data capabilities such as presence and mapping.

**EXTEND THE CAPABILITIES OF LMR TO BROADBAND**

For those who can’t or don’t carry a two-way radio but want to connect to them, WAVE extends the all-important capabilities of LMR networks to mobile devices. So when a city official needs to be updated on an incident, he can use his smartphone to connect to police in the precinct. Or if a utility director must handle an outage on the road, he can use his tablet to be updated by personnel at the power plant. WAVE makes extensibility from two-way radios to other devices seamless.
WAVE™ WORK GROUP COMMUNICATIONS

WAVE ONCLOUD 2.0
IS YOUR COMMUNICATION KEEPING UP WITH YOUR MOBILE TEAM?

CONNECT INSTANTLY AND AFFORDABLY
In a mobile world, teams require instant communication that goes beyond the job site, lobby or office. At the same time, more and more employees are using smartphones and other mobile devices for important everyday work.

Designed for enterprise workgroup communications, WAVE OnCloud affordably connects users whether on mobile phone, computer or radio.

WAVE OnCloud is a Push-to-Talk (PTT) service that connects phones, computers and radios together — all while making the most of your existing resources, systems and investments. Because it lives in the cloud, WAVE OnCloud is inherently cost-effective.

The service is easy to use and there are no servers to buy, install or maintain. Simply pay a monthly subscription fee, download the app and start communicating instantly with PTT, text and mapping. As a subscription-based service, you can start up or wind down easily and without capital expenses. Provisioning is fast and easy, making it straightforward to add or remove users as your business needs change. It’s that simple.

WAVE OnCloud is a great choice for organizations of all sizes. See how connecting people and devices with PTT communications makes sense for your business and bottom line.

WAVE ONCLOUD SECURELY CONNECTS MOBILE EMPLOYEES
Keep your mobile employees connected wherever they call work with WAVE OnCloud push-to-talk service. See how WAVE OnCloud from Motorola Solutions makes sense for your business.

GET MULTIMEDIA COMMUNICATION
Don’t limit your communication options. Turn your smartphone or tablet into a multimedia PTT handset and choose the most efficient and effective form of communication for the information you need to share.

KEY FEATURES
• Private or Group Communications
• Background PTT Calling
• Presence, Location & Mapping

• Turn your mobile phone or tablet into a PTT handset
• Communicate by Voice, Text, Photo, Video, Location or File Attachment
WAVE™ WORK GROUP COMMUNICATIONS

IMPROVE YOUR BOTTOM LINE
Make your team more productive and your customers more satisfied while controlling costs.

WORK FASTER
Push-to-Talk allows your team to communicate instantly, improving productivity and elevating service. WAVE OnCloud is ideal for any team that needs fast, reliable communication on multiple devices, whether you’re connecting groups, individuals, or both. With WAVE OnCloud there’s no dialing, swiping, or typing. Just push a button, then talk. It’s simple.

REDUCE COSTS
Pay a simple user subscription fee every month, and that’s it. Choose from a broadband-only service plan or a broadband-to-MOTOTRBO service plan. You keep costs low and predictable. And you can easily add or remove users as your needs change over time.

START TALKING IN MINUTES
Simply download the app onto your mobile phone to start communicating with your team.

REAL TIME MAPPING
See the location of your talkgroup members with integrated mapping. Call or message members directly from the map for fast and private communications.

TEXT MESSAGING
Share important details with a group or an individual. Integrated text messaging offers a silent alternative to collaboration.

GETTING STARTED
With no servers to buy, install or maintain, getting started with WAVE OnCloud is fast and easy. A single box on your MOTOTRBO radio system can connect all your radio talkgroups to the cloud service.

100% CLOUD BASED
WAVE OnCloud is a multi-tenant service that resides on highly secure data centers. You enjoy the lower cost of a shared system and the security of a private service. There are no servers to buy, install, or maintain.

EASY TO SET UP
Spend less time configuring and more time communicating. With WAVE OnCloud, you can be up and running in minutes. Simply install a smartphone app and an optional gateway that connects to MOTOTRBO, and that’s it. You can add new users in seconds from an administration screen that’s accessible right from a web browser. Just drag and drop users into groups, and you’re done.

REDUCE COMPLEXITY
Eliminate the costs and complexity of multiple donor radio setups. A single WAVE OnCloud gateway connected to your MOTOTRBO system can connect all your talkgroups to the WAVE OnCloud service. Add and remove talkgroups through an easy-to-use configuration page.

KEEP INFORMATION SAFE
Encryption ensures your private communication stays that way. WAVE uses AES-256 encryption trusted by enterprises and governments around the world.

STREAMLINE YOUR COMMUNICATIONS
Get PTT, text and location all from one app. While smart devices can support multiple applications, you shouldn’t have to switch between apps to communicate.

YOUR DEVICE. YOUR CARRIER
Works on most mobile phones over public and private networks. WAVE OnCloud is compatible with Android™ and iOS phones and any service provider with Internet access. Don’t get locked into a single carrier. Choose the phone and wireless provider best fit for each user

SEAMLESS EXPERIENCE
Move easily between your radio and mobile phone.

GROUP AND PRIVATE PTT CALLS
Monitor multiple talkgroups and talk on any as needed or privately call a member of your team. Crisp and clear audio ensures your communications are heard.

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**WAVE APPLICATIONS**

**WAVE MOBILE COMMUNICATOR**
Transform any smartphone into a secure, multi-channel push-to-talk device with the WAVE Mobile Communicator to extend your communications and enable better collaboration among teams.

**WAVE DESKTOP COMMUNICATOR**
Learn how to enhance communications with WAVE Desktop Communicator, a feature-rich software application that allows office-based or mobile workers to use desktop or laptop PCs to monitor, transmit and receive audio from multiple communication systems.

**WAVE ADVANCED DESKTOP COMMUNICATOR**
See how you can transform your dispatch operations with WAVE Advanced Desktop Communicator, a powerful software application designed to provide many of the capabilities needed by public safety, military and critical infrastructure organizations.

**WAVE THIN CLIENTS**
Communicate with WAVE via your favorite web browser or messaging clients.
P25 RADIOS
APX™ 8000XE P25
UNLIMITED MOBILITY. EXTREME PERFORMANCE.
P25 Operation | 4 Bands in 1 Radio | up to 20 Wi-Fi Networks

Working together with firefighters around the world, we designed the APX™ XE Series; a complete portfolio of ergonomically advanced, ultra-rugged radios and accessories that is safe, easy and efficient to use.

Firefighters said they wanted equivalent extreme features as the APX XE Series including a larger display, exaggerated control knobs and the capability to communicate with surrounding municipalities within an all-band radio solution. The APX 8000XE brings together not only these requirements, but also the integration of WiFi for programming flexibility.

The APX 8000XE is redefining mission-critical communications by delivering an ultra-durable radio that combines unlimited interoperability, loud audio and secure WiFi connectivity. With a dedicated channel knob and ability to withstand 500°F (260°C) heat exposure, the APX XE500 Remote Speaker Microphone is the perfect companion to the APX 8000XE. When combined, the APX 8000XE All-Band Portable Radio and XE500 Remote Speaker Microphone create the ultimate mission critical solution designed for safety personnel in extreme environments.

APX™ 8000 P25
UNLIMITED MOBILITY. UNCOMPROMISING PERFORMANCE.
P25 Operation | 4 Bands in 1 Radio | up to 20 Wi-Fi Networks

Take command with a 4-in-1 radio that offers limitless interoperability, the clearest, loudest audio and seamless Wi-Fi® connectivity. The compact, rugged and secure APX 8000 redefines mission-critical communications. With four RF bands and multi-mode system access, the APX 8000 knows no limits when it comes to interoperability. Communicate across borders using a single device. Use analog MDC 1200 or digital P25 mode, conventional or trunked operation, SmartNet or SmartZone legacy systems, clear or secure - all across 7/800MHz, VHF and UHF Range 1 & 2 bands.

Whether it’s loud or windy, whether you whisper or yell, the APX 8000 adaptive audio engine and ultraloud speaker brings clarity into every conversation. The radio dynamically changes the level of noise suppression, microphone gain, windporting and speaker equalization on the fly to consistently produce the loudest, clearest audio in any environment.
P25 PORTABLE RADIOS

**APX™ 7000XE P25**
**THE MOST ADVANCED, ULTRA-RUGGED RADIO**
P25 Operation | Multiband Operation | Extreme Ergonomics | Rugged Specifications

Motorola has taken safety to the extreme with the APX™ 7000XE – its most advanced, rugged radio with innovative features designed by first responders for first responders in extreme environments.

Motorola created an ergonomically superior radio that is easy to operate, with glove-friendly controls and a large top display. Significantly louder and clearer audio so that every word is heard. A mission-critical multiband, multi-protocol radio so seamless, you can be confident communications are interoperable. Focus on the task, not the technology, with a high-performance radio that stands out in the toughest conditions.

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**APX™ 7000 P25 MULTI-BAND RADIO**
**THE RADIO CREATED TO KEEP YOU SAFER**
P25 Operation | Multiband Operation | Future Expandability | Best-in-Class Audio

The APX 7000 multi-band radio places instant interoperability into the hands of mission-critical first responders. Motorola’s 4th generation P25 Subscriber is capable of multi-band interoperability in one radio and can operate in any 2 of the following frequency bands: 700/800 MHz, VHF, UHF Range 1, and UHF Range 2 offers backward and forward compatibility (FDMA and TDMA), and integrated GPS for outdoor location tracking. Designed with mission-critical technology, the radio amplifies public safety officials’ ability to keep the community safer than ever before.

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**APX™ 6000XE P25**
**THE LIGHTWEIGHT HEAVYWEIGHT**
P25 Operation | Extreme Ergonomics | Advanced Features | Rugged Specifications

In the heat of a wildfire or the smoke of a structure fire, you can’t afford to struggle with controls or strain to hear commands. You need a radio so reliable and responder-focused, it’s second nature to use. Working with first responders around the world, Motorola developed APX™ radios to be safer and tougher than others – and to deliver innovative technology in an ultra-rugged, glove-friendly form.

Motorola’s APX 6000XE is the “lightweight heavyweight” – a small, single-band radio with extreme ergonomics and excellent audio that takes on the tough tasks of fire service and EMS. It’s the two-way radio that can strengthen safety precisely because it is engineered for extreme conditions.
**APX™ 6000 P25**  
**A SMART INVESTMENT DELIVERING LEADING-EDGE TECHNOLOGY**  
P25 Operation | Advanced Features | Excellent Audio | 3 Rugged Models  
Delivering outstanding performance in a compact form factor without sacrificing the features you need most. The APX™ 6000 is the next generation of ruggedly reliable performers that give you the advanced features such as Mission-Critical Wireless and GPS location tracking in a small, P25 Phase 2-capable radio. Whether you’re on patrol or racing to a fire, the APX 6000 puts you in greater control of your safety, response time and technology investment.  
Focus on the task, not the technology, with the real world-ready radio that turns mission-critical into mission complete.

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**APX™ 4000 P25**  
**MISSION READY WHEN IT MATTERS MOST**  
P25 Operation | Advanced Features | Excellent Audio | 3 Rugged Models  
Chemical spill. Catastrophic storm. Power outage. When every minute matters, you must communicate instantly with other agencies and responders. But how do you prepare for a disaster and keep control of operating costs? That’s where the APX™ 4000 P25 portable radio answers the call, expertly and affordably.  
The APX 4000 delivers all the benefits of TDMA technology in the smallest P25-capable portable in the industry. Easy to use, tough as nails, a hard value to beat, it seamlessly connects public safety agencies and public works for fast, interoperable communications.  
The APX 4000 leverages the leading attributes of the APX family of P25 TDMA portables. From the 2-microphone design that reduces background noise so you can speak and hear clearly over heavy equipment, diesel engines and sirens to the high-spec RF performance for excellent coverage in challenging environments.

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**APX™ 900 P25**  
**ESSENTIAL COMMUNICATION. EXCEPTIONAL SERVICE**  
P25 Operation | Compact Design | Key Features | Great Value  
The APX 900 is designed for public works, government services and education organizations who need essential communication at an affordable price. It delivers great core features, with an efficiency-focused design – including Bluetooth® wireless connectivity.  
A great radio calls for great support, so we’re also introducing Device Management Services for your APX fleet. Whether you need complete ongoing maintenance, or just a little help with provisioning, we have the service package that will suit your needs. You’ll get the right level of support for reliable and consistent communications, right across your organization.
P25 MOBILE RADIOS CONTROL HEADS

09

Compatible with APX 7500 and 6500 radios. Contains an extra large full-color display with intelligent lighting, integrated full-size DTMF keypad, large programmable one-touch buttons, dedicated siren controls, integrated response selector, and day/night mode capability.

07

Compatible with APX 7500 and 6500 radios. Contains large color display with intelligent lighting, multiple control head configurations with O2 and O7, motorcycle configuration available, multifunction volume/channel knob, day/night mode, and available with Lighting and Siren Controls or DTMF keypad.

05

Compatible with APX 7500 and 6500 radios. Provides tri-color display with intelligent lighting support, compatible with keypad microphone, can configure up to 4 05 control head configurations, and available in motorcycle configuration.

03

Compatible with APX 7500 and 6500 radios. Contains full integrated DTMF keypad, hand-held control head with intuitive user interface, and large color display with intelligent lighting. Compatible with Siren and Light Interface Module.

02

Compatible with APX 7500, 6500, 4500, and 1500 radios. Provides XE ergonomics controls, multiple control head configuration with O2 and O7, motorcycle availability, multifunction control knob, intelligent lighting, with a built-in 7.5 watt speaker.
**APX™ 8500 P25**  
**UNLIMITED MOBILITY. MAXIMUM CONNECTIVITY.**  
P25 Operation | All Band Operation | SECURE Wi-Fi | MISSION-CRITICAL GEOFENCE

The APX 8500 all-band mobile radio enables first responders to use a single mobile radio to exchange critical voice and data communications seamlessly with multiple agencies and jurisdictions operating on different radio bands.

The APX 8500 combines unlimited interoperability, secure Wi-Fi® connectivity and purpose-built design, enabling ease of installation and removal. It can easily connect to the VML750 LTE vehicle modem via micro USB interface and utilize the (4G/3G) commercial network to create an in-vehicle ecosystem for offloading data applications in the field increasing the safety and efficiency of public safety users in and around the vehicle.

**APX™ 6500 P25**  
**MISSION READY WHEN IT MATTERS MOST**  
P25 Operation | Single Band Operation | O2, O3, O5 and O7 Control Head Support | Dual Control Head Support

Motorola has put exceptional flexibility into an advanced mission-critical mobile radio that’s easy to operate and intuitive to use. The APX 6500 P25 mobile allows users to choose from 4 control heads, mid and high-power models and multiple installation configurations in an easy-to-install design. Innovative safety features such as GPS location tracking, intelligent lighting and one-touch controls help to keep first responders safer than ever before.

**APX™ 4500 P25**  
**BE BETTER EQUIPPED TO BE MISSION READY**  
P25 Operation | Single Band Operation | O2 Control Head Support | Affordable P25 Solution

A downed power line or the city transit system coming to a halt during rush hour. When the unexpected strikes, you must interoperate seamlessly and securely with other agencies and responders – often across multiple Project 25 (P25) systems. You need to instantly connect and be informed to make better decisions and respond effectively. While the advanced technology of APX™ radios expertly equips you for the unexpected, your organization may be challenged to improve operating expenses.

That’s where the APX 4500 P25 mobile radio fits the bill perfectly. It delivers all the benefits of TDMA technology in a compact P25 capable mobile. The APX 4500 brings together powerful technology in an easy-to-use radio that’s easy on your budget. It seamlessly unifies public works, utility, rural public safety and transportation users to first responders so they can communicate effectively in the moments that matter.

**APX™ 1500 P25**  
**WORK SAFER WHEREVER THE MISSION TAKES YOU**  
P25 Operation | Compact | Two-Microphone Design | Sized Right For Your Budget

The APX 1500 P25 mobile radio is equipped with all the features you need at a price you can afford. It delivers all the benefits of TDMA technology in the most compact P25 capable mobile in the industry. The APX 1500 brings together powerful technology in an easy-to-use radio that’s easy on your budget. It seamlessly unifies public works, utility, rural public safety and transportation users to first responders so they can interoperate effectively in the moments that matter.
CONSOLES AND WORKSTATIONS

APX™ 7500 MULTIBAND CONSOLE

The APX™ 7500 Console is the ideal complement to your dispatch console. It’s the low cost, mid-power RF control station for the ASTRO® 25 system when you want a wireless dispatch solution. Plus, you can use it as an emergency backup station when infrastructure is off-line or for wireless access to different system types for increased interoperability between agencies. Equipped with leading edge P25 Phase 2 TDMA technology and multiband interoperability, the APX 7500 console is the first choice for public safety and federal users.

MIP 5000 VoIP RADIO CONSOLE
SEAMLESSLY DEPLOY. EASILY AFFORD.

A flexible and affordable VoIP radio console solution to transmit dispatch-quality voice over an existing multicast-enabled Ethernet network. With the ability to connect up to 100 remote users and flexible licensing with 1, 4, 8, 12 and 24 channel software options, the MIP 5000 VoIP Radio Console is designed to meet your requirements. You can connect up to 128 radio resources to the network and configure them in the Console System Database Manager (CSDM). You can also save configuration files on each operator position to allow a dispatcher to access and control different combinations of radio resources (up to 24 at a time). The console system consists of two parts – a graphical user interface (GUI) and a radio gateway or gateways.

MW810 MOBILE WORKSTATION
CONNECTED. POWERFUL. RUGGED.

More and more first responders and field personnel are using their vehicle as an office. Aided by wireless broadband and motivated by the need to keep up with information and their workload, they perform more tasks in the vehicle, from report writing to video surveillance. This requires more than fast wireless broadband and the latest software — they also need a connected, powerful, rugged and ergonomic workstation that is designed for the challenges of their workday and the rigors of their environment. For them, we build the MW810 Mobile Workstation.

MCC 7100 IP DISPATCH CONSOLE
FEEL RIGHT AT HOME IN A MOBILE WORLD

Take command of a response from virtually anywhere. Mobile dispatch functionality from the MCC 7100 IP Dispatch Console allows you to manage a response from a backup center, an on-site Emergency Operations Center or any other remote location with an Internet connection. As a permanent scalable solution or deployed on the fly, don’t sacrifice any of the functionality and capability you count on to coordinate and inform those in the field.

Integration capabilities allow dispatchers to reach across multiple applications and resources for enhanced response coordination. A highly intuitive interface increases ease of use for organizing resources, coordinating a response and communicating valuable information. Inherent reliability and security of your ASTRO® 25 system ensures dispatchers stay connected to those in the field with best-in-class audio quality. And flexible servicing and installation on a completely software-based platform makes deployment affordable.
**MOTOROLA MINITOR VI PAGER | Two-Tone Voice Pager**

Motorola Fire Pagers Provide Quick and Easy Communications with Volunteer and Career Firefighters

Whether it’s to dispatch emergency personnel or for employee business notification, Motorola pagers are the ideal solution for your organization’s safety and business personnel. Our impressive pager selection offers convenient and cost-effective communication and emergency notification solutions.

The Motorola MINITOR VI™ two-tone voice pager is ideal for fire departments and other organizations that need to react quickly in times of emergency. With up to 16 minutes of voice recording, customizable call alerts and improved receiver design, the MINITOR VI is flexible, rugged and reliable. It's built for the realities of first responders.

- Up to 16 minutes voice recording
- Message management: Next/Prev, FF/RWD, DEL, Lock/Unlock
- Customizable alert tones and memo announcements
- Programmable alerts and vibrate profiles
- Battery level voice announcements

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**Si500 VIDEO SPEAKER MICROPHONE**

**PURPOSE-BUILT TO PROTECT**

Motorola’s Si500 Video Speaker Microphone (VSM) is paving the way for convergence by reducing the number of devices that weigh down officers in the field today. Both body-worn camera and remote speaker microphone, the compact Si500 is the smart interface that extends the mission-critical performance of Motorola APX™ radios.

This innovative, purpose-built wearable combines intelligent recording with the best-in-class audio of APX radios. It delivers the mission-critical sight, sound and security required to protect public safety personnel and citizens.

With an intuitive user interface that is easy to operate, your officers can focus on the mission, not the technology. The Si500 VSM evolves with your agency and enables a variety of future applications and capabilities.

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**REDEFINING BODY-WORN CAMERA SYSTEMS**

**THE UNIFIED, SIMPLIFIED, SMART DIGITAL EVIDENCE MANAGEMENT SOLUTION**

Powered By The Si Series & CommandCentral Vault Motorola’s Digital Evidence Management Solution is comprised of the Si Series Video Speaker Microphone and CommandCentral Vault Digital Evidence Management Software. Combined, they provide a unified, simplified, smart approach to capturing, storing, managing and sharing multimedia content for greater public transparency and accountability.

**COMMANDCENTRAL VAULT**

Capturing Video Is Not Hard, Managing It Shouldn’t Be Either

What you do with video evidence after capturing it is what can make the difference in addressing accountability concerns with the public and protecting officers and citizens alike. Take an innovative approach to content management with a complete workflow to store, manage and share your body-worn video from CommandCentral Vault.

CommandCentral Vault is a CJIS-capable cloud application, part of Digital Evidence Management Solution, designed to reduce administrative overhead; simplify digital storage challenges and maintain agency policy and compliance.
PUBLIC SAFETY PORTABLE RADIO ACCESSORIES

SAFETY DOESN’T END WITH THE RADIO
In an emergency, your radio is your lifeline and can mean the difference between survival and tragedy. Accessories are critical to that lifeline as well. Every Motorola battery, charger, audio accessory, carry case, mounting hardware, cable and antenna is best-in-class technology, designed and optimized specifically for the rugged connector on your ASTRO 25 portable and mobile radios.

ACCESSORIES FOR MOTOROLA’S APX™ PROJECT 25 PORTABLES
The APX P25 mission-critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right device into the hands of the right user. Every feature and function is designed with its users in mind – from the rugged, easy-to-operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers’ specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone, which has been designed specifically for harsh conditions on the fireground. And the APX Mission-Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

BATTERIES AND CHARGERS

IMPRES 2 BATTERIES
A NEW GENERATION. COMPLETELY RE-ENERGIZED.
Your radio is your lifeline. If your battery dies, it jeopardizes everything. That’s why we introduced the original IMPRES energy system. With automated power management, IMPRES chargers deliver accurate information on every IMPRES battery in your fleet, so you can be confident in your team’s ability to communicate no matter what they’re up against.

Now there’s IMPRES 2 designed for APX™ series radios. It’s a next-generation energy system that’s safer and smarter, while keeping you powered for even longer. With IMPRES 2 chargers, you can charge IMPRES 2 batteries up to 40% faster. Customize your charging to extend the life of batteries in storage. And manage power more intelligently with enhanced diagnostics, so you get the most from each battery.

IMPRES 2 batteries have been improved inside and out, so your team can tackle whatever the day brings. With higher capacity, you’ll get more talk time. With better water resistance, you’ll never think twice about submersion. And with the ability to charge up to 60% more times than standard Lithium Ion batteries, you’ll reduce costs.

KEY FEATURES
• Get up to 60% more charges than a standard Lithium Ion battery
• IP68 submersion (2 meters, 4 hours)
• Higher capacity in the same size
• 48-month workmanship warranty
• Extended talk time
• 24-month capacity warranty

AUDIO ACCESSORIES

ONLY MOTOROLA OFFERS A WEALTH OF EXCLUSIVE AUDIO FEATURES THAT ENSURE YOUR MESSAGE IS HEARD EVEN IN THE MOST DEMANDING WORK CONDITIONS
In addition to the standard audio accessory features, Motorola Solutions has developed exclusive audio capabilities for them as well. They offer a range of models to ensure optimal performance even in extreme noise or windy environments.

WINDPORTING AUDIO
Communicate clearly in difficult weather. Wherever you work – in howling wind, driving rain or severe weather – Windporting helps you communicate effectively and listeners hear clearly.

Windporting technology eliminates the whining and howling sounds of wind blowing across your lapel/remote speaker microphone. It also prevents water from clogging the microphone for clearer transmissions.

NOISE-CANCELING AUDIO
Reduce the effect of background crowd and machinery noise so your messages are always heard clearly.
PUBLIC SAFETY PORTABLE RADIO ACCESSORIES

IMPRES™ AUDIO (MOTOROLA EXCLUSIVE)
Make sure every word is heard regardless of the level or direction you’re speaking into the accessory. Be clearly heard the first time and eliminate repeating yourself. Whether you need to talk loudly or quietly, into or away from the accessory, IMPRES Audio lowers the loud talker level and raises the soft talker level automatically so listeners do not have to adjust the volume depending on who is talking.

Policing a busy airport, fixing equipment on a noisy production floor or assisting guests in a quiet hotel, IMPRES Audio promises a high quality communication experience.

How does IMPRES™ improve audio performance?
IMPRES enhances the clarity and audio quality of Motorola accessories by reducing ambient noise and improving voice intelligibility.

If you speak quietly or normally, but not directly into a microphone, IMPRES Audio detects changes in your voice and automatically adjusts the transmitted volume so your listener won’t have to adjust volume up and down.

INTELLIGENT AUDIO (MOTOROLA EXCLUSIVE)
Focus on your job instead of your radio volume. Make adjusting your radio volume based on background noise a thing of the past. Intelligent Audio listens to sounds in the background and automatically raises or lowers your radio volume so you can always hear. If you’re heading from a noisy area to a quiet place, you won’t disturb others because you forgot to adjust the volume.

Intelligent Audio when complemented with IMPRES Audio takes your communications to a new level.

APX REMOTE SPEAKER MICROPHONES AND PUBLIC SAFETY MICROPHONES

UNMISTAKABLE AUDIO PERFORMANCE WHEN IT MATTERS MOST
The APX™ Series is the mission-critical advantage for responders in mission-critical environments. Motorola designed the APX P25 radios and remote speaker microphones (RSMs) for the absolute rigors of these situations.

CRISP AND CLEAR. EVERY WORD, EVERY MISSION.
All APX™ Remote Speaker Microphones (RSMs) deliver audio that is clearer, easier to understand and up to 50% louder than XTS-Series RSMs. That’s because they contain the same speaker technology found in Motorola’s APX 7000 and APX 7000XE portable radios for the best-in-class accessory audio available.

Even with the din of traffic or the commotion of pumper trucks, you can carry on a conversation clearly with an APX RSM clipped to your turnout gear. Motorola’s leading-edge, smart IMPRES technology communicates directly with the APX radio to suppress background noise, improve speech clarity and amplify loudness, no matter the weather or workplace.

MISSION-CRITICAL WIRELESS BLUETOOTH® ACCESSORIES

MAKE EVERY WORD SECURE AND EVERY SHIFT SAFER WITH BLUETOOTH ACCESSORIES
Your officers and detectives need wireless accessories that are remarkably fast, secure, robust and easy to use. Yet off-the-shelf Bluetooth products lack the performance, security and comfort they require. That’s why Motorola developed enhanced Bluetooth accessory solutions for APX portable radios. Motorola’s portfolio is the choice of first responders in the moments that matter most.

ONLY MOTOROLA’S MISSION-CRITICAL WIRELESS IS DESIGNED TO MEET THE CRITICAL CRITERIA THAT FIRST RESPONDERS DEMAND FOR SECURE AND RELIABLE WIRELESS COMMUNICATIONS

• EASY, SECURE PAIRING
• LOUD, CLEAR AUDIO
• RELIABLE, ENCRYPTED VOICE COMMUNICATION
• ALL-DAY COMFORT
PEARLINES

PELLET STYLE EARPIECES
Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

ULTRA-LITE EARPIECE
Small and lightweight, the earpiece clips comfortably to the ear. Features boom microphone and in-line Push-to-Talk.

FLEXIBLE EAR RECEIVER
This receive-only earpiece contains a flexible earloop and speaker that rests external to the ear. It plugs directly into adapter or the earjack on speaker microphones.

SURVEILLANCE KITS

BLEND IN WITH THE CROWD, BUT STAY CONNECTED WITH THE TEAM.
Motorola's Mission-Critical Wireless Covert Solutions for APX™ and XTS™ radios take your surveillance operations to the next level. Consumer grade in appearance but mission-critical in performance, their portfolio delivers exceptional flexibility, the high security of Mission-Critical Wireless technology, superior audio performance, and a new dimension of freedom from your radio. Motorola's secure wireless solutions let you carry your radio like never before – whether in a backpack or purse, you are no longer constrained by wires.

HEADSETS

MOTOROLA HEAVY-DUTY HEADSET
Designed for rugged use in noisy environments where hearing protection is required. This dual-muff headset includes flexible noise-canceling boom microphone with a push-to-talk switch located on the earcup. This can be worn with or without a helmet.

MEDIUM WEIGHT HEADSETS
Medium weight headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.

MOTOROLA LIGHTWEIGHT HEADSET
Provides high-clarity, hands-free discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. This single-muff adjustable headset comes with rotating boom microphone for left or right positioning. Includes an in-line push-to-talk button.

CARRY SOLUTIONS

You’ll be amazed at how much time you’ll save when your radio is always in the same place. Motorola’s versatile portfolio includes leather and nylon carry cases to protect your radio in tough places, while ensuring it’s easy to find and use.

BELT CLIPS
For Motorola’s belt clips, they specify only polycarbonate plastic for optimal protection and performance. Motorola’s belt clips are strong, robust and designed to “bend and flex” when dropped.

CARRY CASES
Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments. A variety of carrying accessories are available for comfort and convenience and are available in sizes designed to fit radios with a battery and permit audio to be heard clearly. Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware.

CHEST PACKS
Motorola Original Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.
PUBLIC SAFETY PORTABLE RADIO ACCESSORIES

ANTENNAS

GET THE BEST POSSIBLE RECEPTION WHEREVER YOU OPERATE
Motorola antennas are sturdy and dependable for years of fail-safe communication.

SINGLE-BAND ANTENNAS
Optimum length designed for higher gain to maximize range. This rugged capless design provides maximum flexibility. Also provides built-in GPS capability.

FLEXIBLE WHIP
Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when radio is worn on the belt.

HELICAL
Helical antennas are sturdy and dependable. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements. The connector is made of plated brass material for long life.

DIPOLE
Dipole antennas are injection molded in lasting polyurethane. The wide skirt at the bottom of the connector protects against damaging environmental elements. The dipole antenna is ideal when strong and solid signal clarity is demanded.

SINGLE-BAND STUBBY ANTENNAS
These antennas also provide built-in GPS capability.

DUAL-BAND ANTENNAS
Maximize interoperability with a dual band antenna. These whip antennas have one-piece finish, steel core and spiral wound conductor for optimal radiation characteristics. Also provides built-in GPS capability. These antennas are compatible with APX 7000 and APX 7000XE.

WIDEBAND
Widoband antennas are ideal when the radio is used in different frequencies since one antenna will cover all ranges.

GPS ANTENNA
This antenna is used when a Public Safety Microphone is attached to the radio and the radio still requires GPS capability. This antenna attaches to the APX radio directly and is only used when the radio is operating in a single band.

PUBLIC SAFETY MICROPHONE ANTENNA
Stubby antenna designed to attach to the Public Safety Microphone.
ACCESSORIES FOR MOTOROLA’S APX™ PROJECT 25 MOBILES

TURN UP SAFETY AND EASE

Whether you use your radio in your vehicle, on your motorcycle or at your desk, you need to know that every word is communicated and every message is heard. Every APX mobile accessory has been designed and thoroughly tested to provide the same high level of performance you expect from your radio. Many accessories from Motorola XTL radios that use O5 and O3 control heads can be reused – maximizing your investment while you maintain the latest technology.

Unique accessories such as the IMPRES™ visor microphone allow hands-free communication, while IMPRES technology helps ensure your voice is heard regardless of how closely you are speaking into the microphone or how much wind or road noise is in the background.

Our accessories deliver maximum flexibility without compromising voice and data performance.

The complete line includes: Microphones, Speakers, Sirens And Public Address Kits, Control Station Accessories, Remote Mount Cables and Antennas.

MICROPHONES AND AUDIO

MICROPHONES

SAY GOODBYE TO DISTRACTING NOISE WITH INTELLIGENT AUDIO

Do road noise, rush-hour traffic, heavy equipment, diesel engines and other loud sounds compete with your communication? The Intelligent Audio feature makes adjusting your radio volume to handle external noise a thing of the past.

Intelligent Audio listens to sounds in the background and automatically raises or lowers your radio volume so you can always hear clearly. If you’re driving an empty bus that quickly fills with chattering children – you will still be able to hear important communication without taking your hands off the wheel to adjust the radio volume.
PUBLIC SAFETY MOBILE RADIO ACCESSORIES

Find the right microphone for the way you work – whether you’re delivering packages around town or transporting children to school.

Choose from four different styles:

**PALM MICROPHONE**
Sturdy and durable microphone that provides basic push-to-talk functionality for dependable communications.

**KEYPAD MICROPHONE**
Access critical features directly on the microphone. Navigational buttons and a full keypad allow users to navigate radio menus, dial phone numbers and send text messages. Three programmable buttons are available for additional customization.

**HEAVY-DUTY MICROPHONES**
Heavy-Duty Microphone for users who want more durability, also ideal for those who need a larger microphone that is easier to handle when wearing gloves.

**TELEPHONE-STYLE HANDSET**
Ideal for users wanting to conduct private conversations. Ergonomically-designed, easy to hold. Includes cup and hardware.

**VEHICLE SOLUTIONS**

**KEEP YOUR EYES ON THE ROAD AND YOUR HANDS ON THE WHEEL**

**IMPRES VISOR MICROPHONE**
IMPRES technology optimizes audio communication despite the vehicle background noise. This small microphone mounts to vehicle’s visor for convenient hands-free radio operation and safety while in a vehicle.

**INSTALLATION AND MOUNTING ACCESSORIES**

**CONTROL STATIONS, TRUNIONS, ALARMS, SWITCHES & CABLES**

**EXTERNAL ALARM ACCESSORIES**
These accessories enable additional switching power when external accessories are attached.

**EMERGENCY SWITCHES**
Enables user to send emergency messages to desktop consoles where signaling unit ID number is displayed, and alarm is sounded.

**ADAPTER CABLES**
Allows mobile radio users to convert existing ASTRO Digital SPECTRA and ASTRO Digital SPECTRA Plus accessory cables for use with the XTL 5000 (ASTRO Control Heads).

**EXTENSION CABLES**
Allows user to extend microphone cord length.

Mobile radios are often installed on the dash of a vehicle, and run off its power source. These accessories are available for mounting Motorola mobile two-way radios in vehicles.
Mount your radio in your vehicle without compromising safety. Trunnion kits give you the flexibility to mount the radio under your dash, in your dash, between the seats or on the floor. Remote mount kits allow the radio be mounted in the trunk when dash space is limited.

**LOW-PERFORMANCE MOUNTING BRACKET**
Keeps radio tucked up under the dash, can also be positioned for floor mount.

**HIGH-PERFORMANCE MOUNTING BRACKET**
Keeps radio tucked up under the dash, with extra clearance so radio can be tilted for a better view. It can also be positioned for floor mounting.

**KEY LOCK MOUNT**
Key lock helps provide extra protection from theft. Lock/unlock radio from position in the mounting bracket.

**SPEAKERS & SIRENS**

**SIRENS/DIRECT ENTRY KEYPADS**
Direct Entry Keypads give users the ability to transmit short messages or operate mode functions such as opening a door or activating a siren via the mobile radio.

Siren/Public Address Kit with Direct Entry Keypad – 8 Button. This siren/public address kit provides controlled tones for hi/low, yelp and airhorn through supplemental housing. This kit works with the O5 Control Head only. This siren/public address kit provides controlled tones for hi/low, yelp and airhorn through supplemental housing.

This kit works with the O5 Control Head only.

**CONTROL STATION ACCESSORIES**

A Control Station converts a mobile two-way radio into a convenient base station.

The radio mounts into the lightweight, portable chassis, containing a full range of front panel control buttons plus an internal microphone, speaker and power supply. A front connector allows for a range of external audio accessories, including a desk microphone, tone or DC remote adapter and telephone interconnect.

Not compatible with all mobile radios.

**ANTENNAS**

**MOBILE RADIOS**
A communication system is only as good as the mobile antenna used to transmit and receive - so whenever lives are on the line Motorola Original accessories should be the go-to choice.

A variety of antennas ensure the best possible reception wherever you operate. Choose from antennas with integrated GPS to standalone RF antennas.

**FREQUENCY BAND:** Most antennas only cover a portion of a frequency band. Motorola’s wideband UHF and VHF antennas offer coverage across the entire band, enhancing your communication flexibility.

**GPS ANTENNAS**
A separate GPS antenna is required in addition to the mobile RF antenna if GPS capability is required.

**LOW PROFILE ANTENNAS**
Compact design is a key feature of low profile antennas.
**ENTER THE NOW GENERATION WITH NEXT-GENERATION MOTOTRBO - ENDS DECEMBER 31, 2018**

With Next-Generation MOTOTRBO, you get double the capacity, outstanding audio clarity, twice the battery life and greater coverage. It's the essential foundation for a future powered by instant communications where teams can stay connected anytime, anywhere.

You'll see the difference MOTOTRBO makes to your communications immediately. Risk is reduced, productivity can improve, customers can be delighted with great service, and in the moments that matter most, Next-Generation MOTOTRBO delivers. If you’ve been meaning to upgrade to the latest digital radio equipment, then there’s never been a better time.

Move up to digital with savings on Team communications solutions. From October 1 through December 31, 2018, you can take advantage of sizeable trade-in discounts on the Next-Generation MOTOTRBO™ XPR 7000e radio, the SL7000e radio, and the XPR 5000e radio, along with special financing.

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**TRADE-IN OPTIONS**

**SAVE $1200**

BUY 10 FULLY-FEATURED XPR 7000e SERIES OR 10 ULTRA-THIN SL 7000e SERIES PORTABLES AND TRADE IN YOUR OLD RADIOS.

**SAVE $300**

BUY 10 MOTOTRBO XPR 5000e SERIES MOBILE RADIOS AND TRADE IN YOUR OLD RADIOS.

**FINANCING OPTIONS**

TAKE ADVANTAGE OF FINANCING OFFERS TO MEET YOUR BUSINESS NEEDS. GET 0% FINANCING FOR 12 MONTHS. OR 3.1% FINANCING FOR 36 MONTHS.

**REBATE OPTIONS**

K-12 SCHOOL SAFETY COMMUNICATIONS PROMOTION

IN ADDITION, K-12 SCHOOLS CAN RECEIVE A REBATE OF UP TO $15 PER QUALIFYING RADIO.

XPR 7000e SERIES
SL 7000e SERIES
XPR 5000e SERIES

*Terms and conditions apply, selected models only.*