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EVERYTHING YOU NEED TO KNOW ABOUT MOTOTRBO™ TWO-WAY RADIO FOR EDUCATION



MOTOROLA
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Channel Partner



Communication is significant when it comes to education – it's even part of the curriculum. When you work in a school, you're in constant communication, from speaking with teachers and maintenance personnel to communicating with students and parents. Two-way radio provides people with convenient access to communications for day-to-day tasks; in a crisis they're a crucial part of keeping people safe.

Overall, over 16 million children are injured at school every year, which accounts for almost 30% of the school population. How will you respond when an emergency strikes? Whether you're dealing with a natural disaster, a health crisis or everyday life with children, your institution's response is critical to your ability to keep these people safe. Can you communicate with enough speed and reliability to deal with the problem?

Let's look at a few situations where your response makes all the difference:

A student falls from a playground, breaking an arm or leg or faces another medical emergency. Poor reception on the playground means staff must travel to get help, wasting time and leaving the injured student alone. Two-way radios allow your staff to access help with push-to-talk (PTT) for a quick response time. It gives you the tools to create a plan with every staff member playing a role.

If the unthinkable happens, and an armed intruder comes on campus, seconds matter. The ability to communicate quickly, reliably and discreetly with fellow staff and emergency responders can help save lives. Poor communication creates an impossible situation, and that's something every school wants to avoid.

Your campus may be built with reinforced concrete or metal that blocks radio signals, making communications difficult in certain areas. It's not efficient for parts of campus to be in a dead-zone and it could even be dangerous. Upgrading your system to digital radios with repeaters and distributed antenna systems fixes this, keeping your school connected.

[CLICK TO SCHEDULE
YOUR FREE DEMO](#)



OR CALL (888) 895-3148 TODAY
TO SCHEDULE AN ON-SITE VISIT.





HOW AEROWAVE CAN SOLVE YOUR PAIN POINTS

Multiple Stakeholders

In any school, there are many stakeholders with different priorities and data needs. The bus drivers need to know if there's a traffic jam on the highway. A teacher may want to find out if a student was in a previous class or has been gone all day. To coordinate between these stakeholders, you need an effective way for them to conveniently share information. A successful communications solution makes every stakeholder happy, with a variety of radio models to suit different needs.

Daily Operations

If your site has issues with communications, you're not alone. Dead spots are common in schools, whether due to distance, interference or the material structure. If your site has uneven terrain, you may have problems reaching other areas and older equipment can fail. The right radios mean all the difference in effective communication, and setting up the proper channels from the get-go means your radio system can be easily scaled as your needs change.

Critical Emergency Issues

Safety is top of mind, especially when it comes to schools. Whether tracking a suspicious person on campus, an incoming storm, or a gas leak, it's important to keep people up to date and get the word out quickly and easily to keep everything moving, especially when dealing with problems that impact staff or student safety. Radios, with PTT capabilities and the ability to send messages to one or multiple people, provide the fastest way to make this happen for your campus.



TECHNOLOGY OVERVIEW



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MOTOTRBO™ TECHNOLOGY OPPORTUNITIES

Motorola has a long history of being a top two-way radio manufacturer, and MOTOTRBO is no exception. This is a specific line of products designed to deliver solutions for a wide range of situations. From legacy systems to the cutting edge of digitization, these two-way radios, repeaters, system applications, accessories and other options help you find the right solution for your worst communication problems.

From compact radios tough enough for daily use by teachers to more durable models that work well for your maintenance staff, the MOTOTRBO system lets you add digital communications from the classroom to the school bus and everywhere else they're needed. Focused on superior digital performance, scalability, responsive safety and improved efficiency, this technology is the best available, creating a seamless integration across a wide range of helping technologies. You have the option to instantly communicate across your entire organization by pushing a single button.





MOTOTRBO RADIO AND ACCESSORY MODELS



Radio Systems

A radio system takes your portable radios, mobile radios, repeaters and other accessories and makes them work together as a single, cohesive unit. It's the infrastructure for your radio system. It ties together the right radio assets for your business or institution along with signal improvement technology and applications to improve communications across your campus.

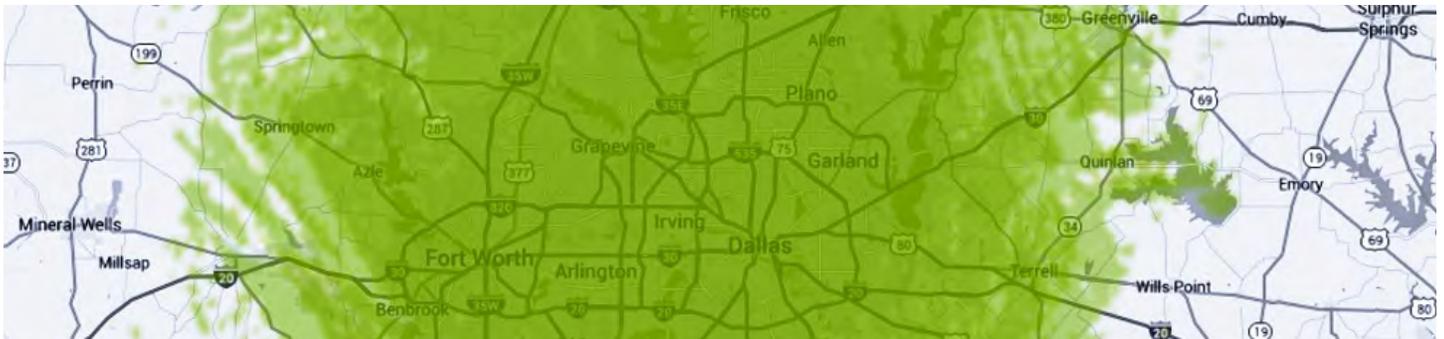
Capacity Plus

If you have a single site and need to quickly expand to up to 1,200 users, Capacity Plus is a solid solution. Rather than adding new frequencies, you can quickly upgrade your capabilities with a simple solution for your communication problems. It provides a much higher capacity than a comparable analog system, though you still may need to add frequencies and update FCC licenses to put it into effect. It gives you the opportunity to integrate data with your voice communications and the option to rapidly issue additional radios during a crisis – whether it's a sudden boost in student numbers or a major disaster approaching, and quickly integrate with your existing MOTOTRBO system.

Capacity Max

Working best with several locations, each with many users, Capacity Max delivers strong results for your institution with fast scalability. Managing up to 250 unique sites with up to 3,000 users per site, it can adapt to many different situations so it's a great option when you expect significant growth, but don't know exactly how it will impact your institution. It integrates Motorola's expertise with your exact needs, with high performance and seamless communication on a large-scale system. It uses a distributed architecture to prevent bottlenecks and can feed all your systems into a central network operations control for faster emergency response.





IP Site Connect

Is your institution spread out across a wide distance? IP Site Connect lets you use the internet to extend coverage to remote sites. Whether it's a lab across town, a campus across the state or a partner around the world, you'll have almost instant communications. This makes IP Site Connect an excellent choice when you have users who want to work with assets that would be difficult to use otherwise, or a transportation system with multiple hubs. It uses your existing or a new standard IP network to connect up to 15 sites. You don't need to buy a lot of infrastructure, avoiding the big investment of expanding communications. It provides voice or data communications to allow continued use as you digitize.

Aerowave Wide-Area Coverage

If you have assets across the Dallas-Fort Worth Metroplex area, Aerowave's Wide-Area Coverage is your solution. When your radio coverage just isn't enough to reach the entire area you need to cover, we can provide solid coverage from Gainesville to Corsicana and Springtown to Quinlan. Our all-digital, wide area coverage allows you to use our infrastructure for reliable connectivity across the entire metropolitan area for a low monthly fee.



PRODUCT & SERVICE SELECTION GUIDE



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TWO-WAY PORTABLE RADIOS

Two-Way Portable Radios, or walkie-talkies, are handheld radios that are used for high portability but have a more limited transmission range when compared to mobile radios and base stations.

XPR SERIES RADIOS

These ruggedized radios include solid waterproofing and IMPRES batteries which hold up better in tough conditions. They include a wide number of emergency and safety features.

XPR 7000e Series

If you need key safety issues taken care of on campus, the XPR 7000e series radios have a wide range of features that are designed to provide improved communication support when it's most needed. It includes an onboard accelerometer to detect falls and can provide an automatic call for help, moments after an accident takes place. It's also designed to meet military specifications for water resistance and overall durability, making it a great outdoor option for the playground.

This series also provides Bluetooth connectivity, integrated Wi-Fi for on-air software updates, and GPS location tracking for that one last radio that seems to have disappeared. It also has data capabilities that allow XPR series radios to support a wider range of applications than others on the market – a bonus when going through the digitization process.

XPR 3000e Series

Taking radios offline for software updates is tough in an active institution. That makes the XPR 3000e series' over-the-air updates convenient. It also provides enhanced audio for easier hearing on busy playgrounds or gymnasiums, improved expandability for fast mobilization and a superior battery life lasting up to 28 hours. The radios have been developed to meet IP67 waterproofing standards, a boon around the pool area, while they feature an 8% increase in range to cover some of those tough spots on campus.

This series works well with both digital and legacy systems, allowing you to upgrade without losing your current functionality. It allows you to replace a few handsets at a time, reducing the impact on both your budget as well as your radio training process. Overall, these radios deliver superior performance at an achievable price point.

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SL SERIES RADIOS

Need a radio that's easy to carry and pocket when it's not needed? The SL series delivers slim, compact options that will work well for almost everyone in your institution while delivering solid durability and performance.

SL 7000e Series

The last thing you want when you have a crowd on campus is an emergency. Whether it's a game, school play or conference, the SL 7000e series of radios gives you superior audio in loud environments, improving communications and response time. It includes an accelerometer for after-hours man-down situations, providing an automatic call for help after a fall. It also features a wider-wavelength UHF transmitter power which allows the radio to transmit across longer distances than similar models.

It has over-the-air software updates, reducing the need to cycle radios out for updating on a regular basis. Using the Bluetooth 4.0 standard, it will remain compatible with new equipment for many years. The slim, lightweight design allows it to easily slide out of the way when it's not needed, providing protection against damage.

SL 3500e Series

For the best possible portability and performance, the SL 3500e series radios is a perfect fit. With a slender, lightweight design, they have quick access to keys while the advanced Bluetooth capability creates a perfect match for discrete headsets and earbuds. This makes it easy for your security team to blend in seamlessly, unobtrusively and appearing as nothing more than a subtle part of your institution's environment.

These radios have WiFi connectivity for easy over-the-air updates and their use on a trunking system creates seamless use of data and voice communications. With a virtual keypad and display, it's much easier to keep the focus on campus visitors instead of the radio's bulk. Available to use on a single site or with other Motorola options for expanded capability, this radio series makes coordination simple.

SL 300 Series

For solid communications that provides great functionality, the SL 300 series of two-way portable radios delivers. It features an intuitive design with a basic power switch, channel selector, volume control and an easy-to-find push-to-talk button on the side. That doesn't mean you're getting limited functionality. It includes an optional ActiveView Display for channel, radio and volume information on an LED screen that is otherwise protected and hidden.

Another feature is the two-slot TDMA DMR standard, allows you to double the capability of your radio without a repeater. Like others in the series, it has a slim design and capability across both analog and digital channels, while incorporating a Range Max receiver's unique antenna design that improves battery life and reception.





TWO-WAY MOBILE RADIOS

A Two-Way Mobile Radio is typically mounted in a vehicle, equipment or mobile platform. It has a separate microphone attached through a cable to the main radio unit. Mobile units have more power available and a higher range of transmission compared to portable radios.

XPR 5000e Series

If you need to be able to incorporate data with your mobile radio, the XPR 5000e series provides strong capabilities to keep going. You can use it for indoor location tracking to find that missing piece of grounds equipment or discover where your security vehicle is exactly. Over-the-air updates with the integrated Wi-Fi makes it easier for your IT department or radio provider to quickly update all the radios at once.

Data allows you to add work order tracking and text messaging capabilities to your campus' radio system. Available with a desktop microphone, they're a great option as a base station for smaller institutions, allowing you to reach further than a portable radio without the power demands of a base station. The transmission interrupt feature makes them a great option for security to get the information across when it's needed most.

XPR 2500 Series

When your institution is experiencing growth that requires the addition of mobile radios, but you don't want to blow your budget, the XPR 2500 is a great choice. It still delivers strong features and performance at a budget-friendly price, whether you need to connect a shuttle driver to a central office or a maintenance truck to dispatch. It has good scalability options if you're expecting a rapid growth spurt.

It has a transmit interrupt capability, so users can break into conversations to report an emergency. The system can be used with a range of different systems, allowing you to grow your system as your needs demand, while built-in scrambling provides improved privacy. Intelligent audio settings allow the radio to automatically adjust the volume to adapt for changing background noise levels.





TWO-WAY RADIO REPEATERS



Does your campus have areas with poor reception? A repeater is a great solution that takes an incoming signal and repeats it to improve range and reception. It's used in areas with weak signal from structural obstructions or an odd site layout.

SLR 8000 Series

If it's time to take your communications to the next level, the SLR 8000 series of repeaters lets you improve communications for your institution's needs. It's a top-of-the-line repeater with superior performance across several metrics. Using data available from Motorola customers, the company has developed a premium repeater designed to exceed expectations at every opportunity.

Taking up just two units of rack space, its strong, 100-watt transmitter can cover huge amounts of territory while automatically switching to a low-power mode when not in use. It has widely adaptable options that allow your service provider to customize the perfect repeater for your institution. It's been extensively tested to ensure it meets the highest reliability and performance levels.

SLR 5000 Series

For powerful two-way radio communications, the SLR 5000 series delivers. Featuring a sleek form that easily fits in your existing space, it delivers superior performance with lower power usage – making it a great match for remote sites with limited power. The SLR 5000 represents a great improvement in integrated technology compared to previous options.

This repeater works with conventional and trunked systems, making it functional for current and future needs. It provides strong performance and reliability – a must for any institution investing in a communications infrastructure.

SLR 1000 Series

When there's just one area that doesn't perform, the SLR 1000 provides strong, rugged performance in a wide range of conditions. The IP65 rating makes it perfect for dusty or wet conditions while the compact design and size make it much easier to place exactly where it's needed. It features a fan-less, low-power design, making it a wonderful choice for difficult installation conditions.

It provides cost-effective coverage that allows you to quickly improve communications without compromising budget or quality. The repeater may be pole mounted for fast deployment in an emergency, and it works with both conventional and trunked radio systems, so you can keep using it while your entire system grows.





RADIO COMMUNICATIONS APPLICATIONS

WAVE™ | Push-To-Talk (PTT) Technology

Imagine the convenience of push-to-talk for every staff member, whether they're using a cell phone or radio? The Wave Push-to-Talk system makes PTT available for smartphones using an app for iOS and Android. The app allows you to connect to a number of Motorola radio systems with a Capacity Plus or Capacity Max system.

This system allows up to five groups of ten users to talk, providing options when you're just starting with a new communication system. It allows a wide range of data to be shared within the group, which includes photo, video, text and voice options. It uses cloud-based technology for fast setup, but may not work if you lose network connectivity, requiring the use of a standby system if an emergency takes out your internet.

AeroBOX | Emergency Alert System

You can't hand a radio to every student, so when you need to get the word out quickly, AeroBOX delivers strong communications. It uses a strobe and speaker to instantly speak to many people across your entire institution. This allows you to inform them of the need for an evacuation, safety problem or other issues that must be quickly, succinctly communicated. It also has a battery backup for situations where power supply is an issue.

AeroWave's business is radios, so we make it simple for you to access your AeroBOX system with a handset, so you can stay mobile in an emergency while broadcasting the needed information to your institution. You can remotely monitor AeroBOX, and their strong, sturdy construction is excellent for indoor or outdoor locations. The internal hardware is easy to access for the upgrade process.

AeroLINK | PC-Based Client-Server Messaging System

This PC-based system allows you to track GPS data from assets in the field, while sending text messages and emails to your two-way radio devices. The GPS capability allows you to remotely manage route changes, develops speeding and idling reports for your shuttles and other assets, making it easier to track not only where your assets are but also how they are being used.

This messaging option gives you more capabilities than are available in a number of other commercial radio systems. It can be configured for multiple systems, letting you use it across your entire organization without a lot of extra work. It works well to bridge the gap between your existing communications system and your two-way radio systems. It also allows you to create a radio-based workflow to improve productivity.





GOING THE EXTRA MILE TO KEEP YOU CONNECTED.

Aerowave is a Woman-Owned, HUB Certified, authorized two-way radio dealer providing comprehensive analog and digital communications solutions. We are a one-stop partner who can personalize a solution to address both your current needs, as well as future growth opportunities.

If your institution requires quality radio communications throughout the Dallas Fort Worth Metroplex, Aerowave is ready to help. We can provide you with extensive coverage using a range of additional products and services to ensure you're getting the right solutions. We have the experience and expertise to ensure you'll have the right communications in place.

Completely stopping school violence, accidents and medical emergencies is an utterly impossible task. However, your institution's response to those situations and good communications makes all the difference. Effective communications not only improve your response to safety situations on campus, they let your people work more effectively to accomplish daily tasks, reduce risk, and make it easier for your institution to quickly respond to changes, whether due to an emergency, a simple accident, or an everyday request.

If you are ready to improve communications in your institution, Aerowave is always happy to help. We're experienced in building communications systems to solve the everyday problems schools face. Reach out to us today and we can get started.

Call us at (888) 895-3148 with any questions or to schedule a demo.



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