

# BOOSTING COMMUNICATIONS SIGNALS IN SCHOOLS

## Wireless Coverage Enhancements for Educational Institutions

For decades, schools have relied upon analog two-way radios for in-building and on-campus communications. Today, digital technologies, like our Motorola two-way and smart radios, are leading the industry when it comes to instant communications — blending the best features of smartphones with the dependability and power of push-to-talk (PTT). Today, security officers, educators, administrators, and bus drivers can access features like texting, GPS, Wi-Fi, and more. Despite these expanded capabilities, schools are discovering dead spots across their facilities.

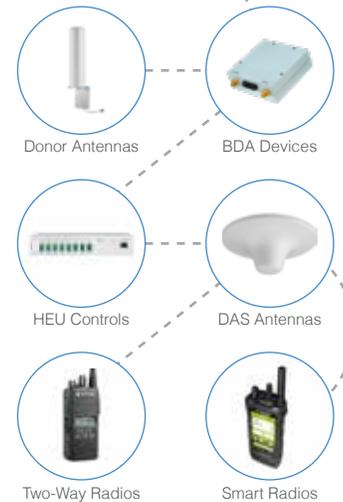


### Business Overview | School Building Communications Infrastructure

Whether schools are using analog radios, or newer digital and cellular ones, they need them to work reliably campus-wide. They use radios to coordinate bus pick ups, ensure campus safety, direct janitorial tasks, and more – during both standard and emergency operations. Depending upon when their facilities were built, and the materials used during construction, all their radios regardless of age or technological capability, may fail to work in a myriad of spots in and around their campuses. As the safety and security of students and faculty is of critical importance, any inability to communicate or coordinate activities is generally deemed to be unacceptable.

### Current Challenge | Inadequate In-Building Radio and Cellular Coverage

Despite all the advancements in handheld cellular technologies, devices like smartphones and tablets are generally limited to operation on public cellular networks. While reliable enough for standard communications, those networks and the cell towers they utilize to connect, can fail to support critical communications during major school emergencies. When such emergencies occur, cell tower overload can limit or otherwise prevent attempts to connect, making private radio and private cellular networks the preferred options for critical communications. However, even when private networks are deployed, typical construction materials like concrete cinder blocks can degrade or prevent RF and LTE signals from reaching users inside school buildings.



### Solution Overview | Coverage Enhancing DAS Solutions for School Buildings

Regardless of whether your school has deployed a private radio network or private LTE network like our Motorola Nitro™ solution, they may still need additional systems to distribute signals evenly across their facilities. Ideally, they need to install systems that utilize a single combined cabling infrastructure that minimize any redundant materials that may be obtrusive to school aesthetic design while also being scalable — allowing for rapid deployment of new RF and LTE technologies without necessarily having to completely replace existing systems.

When properly configured, installed, and tested within schools, Distributed Antenna Systems (DAS) enhance cellular and radio coverage across your entire building – especially in locations that commonly experience poor reception like maintenance areas and stairwells. DAS system components (like BDAs, HEUs, and Indoor/Outdoor Antennas) become vital parts of your schools' overall communications infrastructure, ensuring your analog, digital, and smart radios can broadcast and receive clear and concise signals no matter the situation that necessitates their use.

### Our Team | Solution Engineering, Installation, and Support

For over 30 years, the team at MCA has provided expertly tailored solutions to federal, state, and private prison systems in need of two-way radios and signal enhancement systems. We provide top-tier support for every aspect of your mission-critical communications projects. Our techs assess your needs, engineer customized solutions, and install hardware that fits your exacting organizations' requirements.



CONTACT US TO BOOST YOUR FACILITIES RADIO SIGNAL STRENGTH TODAY



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