



CAMPUS SAFETY, CONNECTIVITY AND PRODUCTIVITY FOR A BETTER LEARNING ENVIRONMENT

Motorola Education Solutions



Imagine the future, here today

Imagine dorm rooms and offices protected by biometric scanners, so that a simple wave of the hand grants secure access while keeping potential stalkers and thieves out. Imagine an intranet grading system that allows professors and students to log in instantly and securely from access points across campus or around the world. Imagine a security force that utilizes video to help them coordinate and respond immediately when a crowd gets out of control at a football game. Imagine a research environment where information of all kinds is literally in the air. Imagine the future, here today.

Colleges and universities are places of imagination, and that's why they're often among the earliest adopters of wireless networks and other advanced communication technologies. Technology makes it possible to extend learning far beyond the classroom or library. Having the best technology available can boost everyday productivity for administrative and security personnel and help create the academic conditions that attract the best and brightest to your campus.



Motorola offers proven wireless solutions that allow colleges and universities to:

- Expand networks cost-effectively, without the cost and disruption of installing new wired or fiber-optic infrastructure
- Wirelessly connect satellite campuses across metro-wide areas
- Provide affordable remote learning opportunities
- Enable virtual knowledge sharing among students, faculty and the worldwide academic community
- Lower administrative and operational costs while improving staff productivity
- Strengthen campus security through video surveillance and pervasive two-way communications

With our extensive experience in providing integrated, wireless public safety, enterprise connectivity and mobile productivity solutions, Motorola is uniquely positioned to meet the challenges of the modern academy – across the extended campus and around the academic world.

Safer campuses through real-time secure information

College campuses pose many unique challenges when it comes to security. Whether there's a crime in progress, an uncontrolled crowd beginning to form or a natural disaster, security personnel need better ways to monitor the situation, respond in the first critical moments, and coordinate response with local law enforcement. More importantly, they need ways to better manage campus security in order to prevent incidents from happening in the first place. Motorola offers a variety of solutions that help you make the most of your security resources by providing accurate, real-time information for maintaining – and if necessary, restoring – order in any situation.

Command Center Solutions – The dispatch center serves as a vital link between the college community and the security personnel in matters relating to public safety and emergency assistance. Armed with the right tools, security centers can facilitate smarter, faster decisions by putting real-time information in the hands of responders and even connecting with local police forces to keep campuses more safe and secure.

Call Box Systems – Whether it's to request a late-night escort or to help catch the perpetrators of a crime in progress, call boxes can instantly alert authorities to emergencies in otherwise isolated areas around the campus.

By mounting call boxes with video surveillance cameras, you can see what's happening as it unfolds – as well as provide a visual deterrent to prevent crime in the first place. Call boxes can easily be integrated into your existing two-way radio system and wireless network, giving students the quickest possible way to communicate with security personnel.

Video Surveillance – From dormitories to sprawling student grounds there's a lot to look after. Our wireless, IP-based video surveillance solutions can provide visibility anywhere you need it. And there are few better deterrents to vandalism and other illegal activities than the visible presence of a camera. Wireless video surveillance can greatly expand your awareness, speed your response, and allow you to provide enhanced security services ensuring the safety of students, faculty, and facilities on campus.

Location Tracking – Keep track of campus security personnel by outfitting them with GPS Remote Speaker Microphones. Integrated with secure two-way communications, dispatchers can mobilize security tactically, based on which officers are closest to the incident.

Identification Systems – Biometrics can enhance security by identifying visitors, students, faculty, contractors and others – so you always know who is in your school. A safer environment is more conducive to learning, and helps keep parents from worrying about sending their children off to school. And you can leverage your investment through other applications such as student registration, library checkout, cashless catering, test-center identification and classroom attendance records.





“Education can take place only in an environment in which each student and employee feels safe and secure. The broadband wireless [network], video surveillance system and call box systems have had a positive impact on our campus security. The cameras placed in our dormitories have served not only as a deterrent to vandalism, but have helped our public safety and facilities departments in recovering lost, damaged and stolen property.”

– Richard Weldon, Vice President of Finance and Administration, Coastal Carolina University, Conway, South Carolina

Powerful productivity in the palm of your hand

Mobile devices enable anywhere, anytime access to critical information. Security personnel can see incidents, and manage and coordinate response from every corner of a school’s campus. Campus IT personnel can manage networks remotely. And students and professors can stay continuously connected to practically infinite sources of knowledge. It all adds up to greater productivity, more profitable operations and a safer campus.

Two-way Radio Communications – The highest priority for security personnel is to maintain order and enhance student safety. From routine patrols to emergency response, our vast portfolio of two-way radios help your staff focus on what must be done, not whether or not they can communicate. Two-way radios enable the quickest response to any situation, often preventing small problems from escalating into bigger ones.

Two-way radio communications provide unsurpassed encryption, interoperability, reliability, and durability – giving safety officers and local law enforcement exactly what they need to coordinate and work together as one.

Mobile Laptops and Handhelds – Our line of mobile computers extend from in-car laptops to rugged notebooks and are designed for remarkable flexibility, versatility and durability. High-resolution, back-lit and glare-free screens enable better viewing of data and video in both dark and sunny locations, enabling officers to make decisions more quickly.

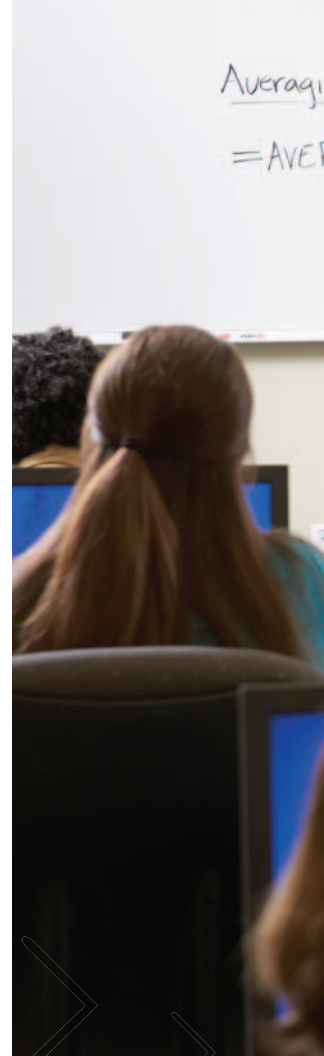
Motorola also offers a variety of devices that combine the power of a mobile phone, notebook, camera and barcode scanner, putting inventory and other business-critical information at the fingertips of administrative personnel anywhere, in real time.

“The features that appeal most to Arizona State University in the system would be reliability, interoperability with other agencies, the emergency button that the officers can now access, and encryption to protect our broadcast.”

*– Karon Zimpfer, Program Manager,
Arizona State University Police Department*



***FROM LAB TO DORM ROOM,
MOTOROLA OFFERS BROADBAND
SOLUTIONS TO COVER EVERY
FACET OF CAMPUS LIFE.***



Connecting students, faculty, administration and security across campus

Wireless broadband networks are a critical component for today's colleges and universities. Students expect high-speed wireless connectivity and many use this to evaluate their choices for higher education. Faculty relies on Internet connectivity for faster, more comprehensive access to educational research, online repositories, course management systems and student-faculty communications. Campus administrators and security personnel face the need to heighten property, personal and public security. High-speed networks enable the use of state-of-the-art, IP-based video surveillance capabilities, and also provide a primary and redundant communication system for students, faculty, government agencies and first responders.

Fixed Solutions

Point-to-Point Solutions – Motorola's Point-to-Point solutions provide scalable and cost-effective licensed and unlicensed connectivity between remote sites, transmitting data with maximum reliability even in non line-of-sight environments and under difficult conditions such as high interference, rough terrain and water barriers. Point-to-Point solutions help educational users interconnect on-and-off campus facilities, including new construction where fiber is unavailable.

Point-to-Multipoint Solutions – With the ability to operate in licensed or unlicensed frequencies, our Point-to-Multipoint solutions create reliable, cost-effective connectivity between multiple facilities and locations. These systems deliver

virtually ubiquitous information access, data, equipment and facilities monitoring and the implementation of highly efficient work flow systems. They also provide exceptional interference resistance in dense, noisy environments. And they give you the ability to monitor remote locations, facilities and equipment, and streamline data transmission between multiple points.

Indoor Solutions

WLAN Solutions – Wireless Local Area Networks provide secure access and connectivity at the point of activity. Whether or not you currently have a fast T1 or T3 connection, a WLAN can help you minimize telecom fees while giving



"We have been extremely impressed with the high performance, ease of installation and reliability of the Motorola point-to-point products. Before, connections between our schools were slow and expensive to maintain, and carrier-provided options to increase the bandwidth were too costly over the long-term. Now, our school district is able to take advantage of 10 times the bandwidth of our previous system."

– Mark Lindstone, Chief Information Officer, Aurora Public Schools, Denver, Colorado

students all the benefits of high-speed Internet access. A WLAN can also enable crucial campus-wide applications including asset management, real-time video surveillance, and ubiquitous connectivity in lecture halls, libraries, dorms, student unions, parking lots and more.

BPL Solutions – Broadband over Power Line technology delivers high-speed connectivity over a building's existing electrical wiring. It's perfect for delivering high-speed Internet access to multi-unit dorms, classrooms and office buildings – especially in older and architecturally protected buildings where installing new network wiring would be expensive and impractical. BPL supports all the network

applications a college or university might require – virtual LAN, kiosk communications, alarm systems and voice-over IP to name just a few.

MESH Networks

By allowing data to "multi-hop" from one device to another, our mesh technology enables instant formation of highly available, self-forming and self-healing networks. On campus, the ultra-reliable and efficient technology is ideal for crowd management, incident response and other situations that call for fast, flexible IP coverage without the need for extensive fixed infrastructure.

Your partner from the beginning

Motorola offers tailored service solutions that enable institutions to fully realize the benefits of their wireless technology investments. Motorola's analysis of your campus environment helps you plan, design, deploy and maintain the most efficient and cost-effective solution for your needs. We provide complete network analysis and optimization, training and documentation, as well as turnkey Managed Network Services. Our Total Network Care services ensure that your network consistently operates at peak performance and availability.

Why is Motorola such a trusted resource for universities and colleges around the world?

With more than 75 years of wireless leadership, Motorola is one of the world's most trusted and proven providers of wireless broadband and interoperable communication technologies. We supply secure, rugged and reliable solutions for higher learning environments of all types and all sizes. Motorola is the only company that knows wireless inside and out.

Our solutions deliver the connectivity, productivity and security that colleges and universities need to compete effectively in today's highly competitive education marketplace. They deliver the performance and reliability to keep everyone connected to the information they need – in offices, dorms and classrooms, on campus grounds, off-campus and on the move. They offer impenetrable security that protects your confidential academic and administrative data, networks, equipment and devices. And they provide scalability to position you for simple, cost-efficient growth.

Motorola's higher education customers gain a differentiating competitive advantage through the ability to expand and extend the mobile edge to reach students, faculty and administrators wherever and whenever they work, study or live. With Motorola, the classroom isn't just a place with four walls – it's an entire world of connected learning.



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