

# Airspan for Education and Training

## Next Generation Technology for the Future

**Airspan delivers wireless broadband connectivity and mobility that underpins education and training in the 21<sup>st</sup> century**

Education and Training in the 21st Century is based on the assumption that all students have access to broadband connectivity from the classroom, to the campus and into the local community. Universities, colleges and schools need to deliver this connectivity through convenient and modern technology while improving efficiency and cost effectiveness. Wireless access to broadband services is now fundamental to the way educators connect and interact with their students, faculty and research staff.

A large number of educational projects require broadband connectivity that allows for large bandwidth demanding services. Access to the Internet and email alone is no longer sufficient. Instead, real-time connectivity that allows a diverse number of applications is now required, including:

- Distance based training
- On-Line education
- Webinar based lectures
- VoIP and Video
- Video / Media Libraries
- Wi-Fi Hotspots (multiple device clients)

Covering an entire campus with WIRELESS broadband infrastructure that allows students and staff to access the Internet, class schedules, materials and school databases from anywhere on school grounds is a huge benefit that can truly differentiate a school. Additionally, in the United States universities and colleges have access to 2.5 GHz spectrum licenses, which, if not used by 2011, will be lost. This spectrum allocation is one of the most popular spectrum bands for WiMAX equipment and services.

In emerging markets, where terrestrial infrastructure is often lacking or non-existent, WiMAX broadband wireless access may be the only solution to bridge the digital divide and provide high speed mobile broadband data services on campus and in the wider communities.

Schools are under constant pressure to stay competitive and provide access for their students and staff to the burgeoning technologies of modern times. WiMAX enables schools to maintain a competitive edge with a campus-wide deployment that grants every student and employee always-on mobile connectivity to the Internet.

Further, WiMAX technology can also simply link off-site campuses to the main network, seamlessly inter-linking campuses



and allowing mobile connectivity for students and faculty on any campus visited. The Internet was developed by and between universities and government for just this purpose – enabling a persistent broadband link to the Internet is a natural next step.

### Addressing Education Communications Needs

Airspan's advanced technology enables schools to quickly and cost-effectively build out wireless, mobile, WiMAX networks.

Airspan makes high-speed data and quality voice available to enterprises through reliable, robust and field-proven technology. Increased connectivity allows for bandwidth-intensive applications such as video streaming or distance learning all on secure and reliable links.



In addition, establishing a direct, wireless, private network link often obviates the need for very expensive carrier connection packages that become more expensive as bandwidth demands grow.

Airspan's wireless solutions can offer long-term cost savings while enabling quick and easy connection of additional future sites.

### The Airspan Solution:

Airspan provides Wireless broadband infrastructure that is standards-compliant (WiMAX and Wi-Fi) for Fixed and Mobile support for classroom connectivity, campus-wide connectivity and wide-area neighbor wireless broadband services. In addition, the products support roaming and handover to nationwide 4G carriers and Wi-Fi providers. The infrastructure is simple to maintain and operate, but is also sophisticated enough to meet the demands of 21<sup>st</sup> century educational organizations.

### Solution Benefits:

- Delivers Mobile multi-megabit broadband services over wireless
- Supports High quality VoIP and Video-over-IP real-time chat and phone service
- Optimized Classroom, Campus-wide and Local Neighborhood-wide connectivity
- Low cost of ownership
- Pay as you grow
- Based on next generation 4G technology standards

## Airspan WiMAX Equipment



ProST  
Outdoor CPE  
(16d)



EasyST  
Indoor CPE  
(16d)



MiMAX  
USB (16e)



MiMAX Easy  
Indoor CPE  
(16e)



MiMAX Pro  
Outdoor CPE  
(16e)



MicroMAX  
Micro Base  
Station (16d)



HiperMAX  
Macro  
Base Stations  
(16d/16e)



MacroMAX  
All Outdoor  
Macro Base  
Station (16e)

WiMAX connectivity delivered to classroom, Wi-Fi connectivity within classroom



Mobile device handover to 3rd party 4G network such as Clearwire



Campus-wide nomadic/mobile connectivity with WiMAX USB device



Community served by school WiMAX network

