

EION BYTES

Smart Campus WiFi Coverage Solution Designed for Students to Succeed

WiFi-enabled campuses are becoming common place which allows students and teachers to access a wealth of information over the Internet. It also allows them easily collaborate with each other and automate the traditional learning methods.



Next Generation WiFi Technologies

**Gigabit
Speeds**

**Dual/Triple
Bands**
(2.4 MHz, 5 GHz, 60
GHz)

**Massive
MIMO**

**MU-
MIMO**

**Beamform
ing**

**Gigabit
Speeds**

**Smart
Antennas**



Target Locations in the University

The important locations are distributed between outdoor and indoor to cover a large percentage of the university. Typical locations are:



- Classrooms
- Sports Arena - Basketball and Volly Ball Games
- Library
- Residence Halls
- Administrative and academic offices

Challenges

High-Density Location

The campus is considered to be a High-density location requires a Wi-Fi design strategy for large deployments to provide pervasive connectivity to clients when a high number of clients are expected to connect to Access Points within a small space

Security Concerns

A Wi-Fi solution for education must guarantee information security, especially that of students, staff, and the educational institution

Resource-Demanding Applications

A Wi-Fi solution for education must be capable of keeping hundreds of end devices connected simultaneously.

Challenges(cont.)

Universal Coverage

A Wi-Fi solution for education must provide reliable connectivity throughout the entire campus.

Budget Constraints

A Wi-Fi solution for education must have an optimal price-to-performance ratio to meet budgetary needs.

Supporting BYOD

Bring Your Own Device is not a new concept, however, the challenge is still the same. How do you safely manage devices you don't own?

Cloud/Local Access Controllers

Powerful Wi-Fi access control is necessary for schools to protect critical network resources, have complete visibility over all users and devices, and quickly respond to any potential network issues.

**Enterprise Access
Points :** Enterprise-grade access points for wide coverage and reliable connectivity

Switches

**Management
Software**

The Solution Components

Design Consideration

- Universities Add More APs to Increase Network Density
- Optimizing Wi-Fi Performance for High Density
- Traffic Prioritization for Reliable E-Learning
- Schedule & Role-based User Access Control

Recommended Products



**EION Enterprise E-Link
Rapid 6 WiFi AP**



**EION E-Link Gateway
Controller 1000**



EION PoE Switches

Visit our website