

Z-COM Campus Wireless Network



A key component to a success smart campus is an always-on, reliable, ubiquitous wireless network, that not only provides a foundation for digital service, but also enables to integrate the surveillance system for campus safety. A fast, stable Wi-Fi network not only allows staff and student to roam securely throughout the campus, but enables a new digital learning experience. When planning a campus wireless network, you may have the following questions:



- How to select a proper access point (AP) to build a reliable wireless network in campus?
- How do you maintain the network if the school does not have any trained staff?
- How do you secure the network connection to avoid information leakage by staff or students?
- How do you manage user experience in different applications?
- How do you provide surveillance to the dead space in campus?

* The product images for reference only. Actual product may vary.

Stable network connection

The Z-COM APs utilizes the IEEE802.11ac Wave2 standard to provide:

- Support for up to 512 simultaneous users
- Provide the data rate reach up to 2333 Mbps
- Band steering
- Internal antennas capable of high Effective Isotropic Radiated Power (EIRP), to provide connection distance reaching 150m (2.4GHz=32dBm, 5GHz=29dBm)



Z-COM has been dedicated to hardware and software R&D and the manufacture of wireless networking equipment for decades. Specializing in RF (Radio Frequency) R&D and network integration software, Z-COM has worked with international telecoms companies to successfully deploy millions of APs worldwide.

Wireless Lan Controller to manage AP

Centralized Management System

The Z-COM WLC can manage multiple APs in AP groups, allowing the same instructions to be sent to multiple APs simultaneously and providing user management, AP status and traffic flow information from one interface.

Flexible Wi-Fi Deployment

Provide flexible software license without limitation and customized Wi-Fi network deployment.

Remote Management

With APs geographically dispersed, the WLC can be used to manage APs centrally, removing the need for on-site technical staff. All data is processed locally, but monitoring, configuration and management are all done remotely, simplifying management.

1+1 Backup

The Z-COM WLC uses 1+1 backup. When the main WLC becomes unavailable, the slave WLC will take over to ensure no service disruption.

Roaming with security

The Z-COM WLC can integrate with existing Authentication, Authorization and Accounting (AAA) services such as RADIUS, allowing the same credential to be used throughout the network, but also seamless roaming within the coverage area. Each AP can support multiple virtual APs, which when combined with VLANs, provide separate physical and wireless networks. Access to network resources can be limited to specific groups, improving security and reducing the risk of information leakage.



With the increased demands of the Internet of Things (IoT) and to satisfy the wireless needs of enterprise users, the Z-COM AP+WLC solution combines industrial-grade product design, centralized management of APs and multiple integration options to provide a flexible solution for many deployment scenarios.

Optimize user experience



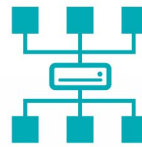
Quality of Service

Prioritize delay-sensitive traffic, such as Voice over IP (VoIP) and video streaming, making the most efficient use of bandwidth and improving the user experience.



Band Steering

Distribute users over the 2.4GHz and 5GHz bands, reducing congestion and increasing performance for connected clients.



Bandwidth Control

Manage the maximum throughput of clients, distributing bandwidth fairly and creating a minimum transmission speed for each user.

Combine with IP-CAM for security monitoring

Z-COM APs provide an integrated PoE out port, allowing the APs to provide power to IP cameras for on-site monitoring to prevent dead space in the campus and improve campus security.

SP230-S5 is recommended to use in outdoor area, such as basketball courts, swimming pools etc.



- LAN Port PoE out supply power design, can supply IP-CAM power and data transmission, make network distribution simpler
- Waterproof and dust proof design, compliant with the Ingress Protection (IP) 67 standard
- Tolerance of a wide range of temperatures from -40 to +70 degrees
- Salt spray resistance and wind speed protection up to 43.8m / sec

Wireless LAN Controller to manage AP

1

Wireless LAN Controller (WLC)



WS5G2 / WS7G2 / WS10G2

2

Access Point (AP)



AS420

AS220V2

SP230-S5

3

IP-CAM

Provides mainstream cameras for network integration



SUR-110



SUR-121



SUR-122

Wireless LAN Controller



	WS5G2	WS7G2	WS10G2
CPU	Intel Celeron	Intel Atom(4 Cores)	Intel Atom(8 Cores)
Memory	DDR3 8G	DDR4 16G	DDR4 32G
Storage	SSD 64G	SSD 64G	SSD 64G
1GbE RJ45	4 Ports	6 Ports	6 Ports
10GbE SFP+	-	2 Ports	4 Ports
40GbE QSFP	-	-	-
Chassis / Dimension	1U (44 x 232 x 152)	1U (44 x 231 x 197)	1U (44 x 231 x 197)
Power Supply	12V/5A DC Adapter	12V/5A DC Adapter	12V/7A DC Adapter
AP Capacity	128	256	512

