



CARRIER-GRADE

Wireless LAN Controller



The WS200/500/1000G2 series is a wireless LAN controller which provides centralized control, centralized management and centralized configuration for access points in the large scale carrier-grade wireless network and also provides secure access for user endpoints.

As a carrier-grade edge gateway, it is deployed at the convergence layer between the access network and the core network to keep the core network from being illegally accessed. Supports various communications protocols and call flows which correspond to authentication such as, AAA, 802.1x, Captive Portal...etc.

Migrates the management functions that originally reside in each access point to the controller while the access point only retains its fundamental wireless access and security capabilities. Hence, the controller focuses on the configuration, user authentication, traffic forwarding, radio resource management, access control, QoS, and load balancing functions, while the access points focus on the underlying functions defined in the IEEE 802.11 specifications. For a complicated Wi-Fi system, this architecture is an ideal model that is controllable and manageable.

The WS200/500/1000G2 series is capable of controlling and managing over 2000 access points and over 60K user endpoints, while the user service data traffic could be either centralized forwarding or locally breakout to internet. It is no doubt that WS200/500/1000G2 series is a key network element in Wi-Fi system to achieve centralized management and system security.



Experience in Telecom

Abundant experience in telecom collaborations for integrating Wi-Fi into telecom service systems.



Centralized Management

Centralized management platform to optimize performance and efficiency.



Solid Product Design

Advanced hardware design embedded with flexible and reliable software.



Various Application Scenarios

A wide range of carrier-grade wireless access points for deployments in various environments.



Security

Call flows and various access security schemes will enhance security of the network.



**PRIVATE NETWORK
SMB /INDUSTRY**
Specifications

	WS200G2	WS500G2	WS1000G2
CPU	Model	Intel	Intel
	Quantity	1	2
Memory	DDR4 16GB	DDR4 32GB	DDR4 64GB
Management Ports	1GbE RJ45	8	8
	10GbE SFP+	4	4
	40GbE QSFP	-	2
Storage	SSD 64GB	SSD 64GB	SSD 128GB
Chassis	1U	1U	2U
L2 Switch Capability	Yes	Yes	Yes
Power Supply	220AC/650W	220AC/650W	220AC/800W
	Redundancy	Redundancy	Redundancy
AP Capacity	2048	4096	8192

HARDWARE	
Chassis	WS200G2: 1U WS500G2: 1U WS1000G2: 2U
CPU	WS200G2: Intel WS500G2: Intel WS1000G2: Intel
Memory	WS200G2: DDR4 16GB WS500G2: DDR4 32GB WS1000G2: DDR4 64GB
Storage	WS200G2: SSD 64GB WS500G2: SSD 64GB WS1000G2: SSD 128GB
IPMI	Yes
Power Supply	WS200G2: 220VAC Dual Redundancy WS500G2: 220VAC Dual Redundancy WS1000G2: Dual 800W AC PSU Redundancy
Dimension	WS200G2: 630 (L) x 438 (W) x 44 (H) mm WS500G2: 630 (L) x 438 (W) x 44 (H) mm WS1000G2: 630 (L) x 438 (W) x 88 (H) mm
NETWORK	
10/100/1000Base-TX	WS200G2: 8 RJ45 WS500G2: 8 RJ45 WS1000G2: 8 RJ45
10G Base-SX	WS200G2: 4 SFP+ WS500G2: 8 SFP+ WS1000G2: 4 SFP+
40G Base-SR	WS200G2: N/A WS500G2: N/A WS1000G2: 2 QSFP
L2 Switch Capability	Yes
Connection Architecture	OpenFlow 1.3 Support Control/Data Plane Separation



FEATURES	
Capacity	WS200G2: Thin AP: 2048 User Endpoints: 64K UE Data Traffic: 20Gbps WS500G2: Thin AP: 4096 User Endpoints: 127K UE Data Traffic: 40Gbps WS1000G2: Thin AP: 8192 User Endpoints: 127K UE Data Traffic: 60Gbps
AP Access & Configuration	DHCP Option43 for Discover WLC CAPWAP Tunnel Auto Downloading Configuration Templates
UE Authentication & Accounting	802.1x EAP SIM EAP Portal Radius WPA/WPA2 Radius
Performance	Load Balance for UE Accessing & Traffic QoS Traffic Centralized Forwarding by DPDK UE Uplink/Downlink Bandwidth Control VLAN/SSID Bandwidth Control
Security	Packets Limitation Counter DoS Attack ACL Rogue AP Detection Firewall & WIPS
RF Management	Interference Spectrum Analysis RF Optimization Auto TX Power Control Auto Channel Selection
Mesh and WDS	Yes
Reliability	WEB UI SNMP N+1 Backup