



# WS1000G2

## Carrier-grade Wireless LAN Controller



The WS1000G2 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.

The WS1000G2 is capable of controlling and managing 8192 access points and over 100K user endpoints, while the user service data traffic could be either centralized forwarding or locally breakout to internet. It is no doubt that WS1000G2 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.

<b>Hardware</b>	Chassis	2U	
	CPU	2 x Intel Xeon (14 Cores)	
	Memory	DDR4 128GB	
	Storage	SSD 64GB	
	Power Supply	100-240V AC Redundancy	
<b>Network</b>	Dimension	630 (L) x 438 (W) x 88 (H) mm	
	10/100/1000Base-TX	8 × RJ45	
	10G Base-SR	4 × SFP+	
	40G Base-SR	2 × QSFP	
	L2 Switch Capability	Supported	
<b>Features</b>	Connection Architecture	Openflow 1.3	
		Support Control/Data Plane Separation	
	Capacity	Thin APs	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	
	Performance	WPA/WPA2 Radius	
		Load Balance for UE Accessing & Traffic	
		QoS	
		DPDK for UE Traffic Centralized Forwarding	
		UE Bandwidth Control	
	Security	VLAN/SSID Bandwidth Control	
		Packets Limitation	
		Counter DoS Attack	
		ACL	
Rogue AP Detection			
RF Management	Firewall & WIPS		
	Interference Spectrum Analysis		
	RF Optimization		
	Auto TX Power Control		
Mesh and WDS	Auto Channel Selection		
	Supported		
Management	CLI		
	WEB UI		
	SNMP		
Reliability	N+1 Backup		