



# MyPower WNC6600 Series Access Controller Datasheet

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V4.3

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# Overview

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MyPower WNC6600 series developed by Maipu is the new-generation wireless access controller. It can manage Fit AP and wireless clients in a centralized manner and provides rich service types. Based on the wired and wireless integrated design idea, WNC6600 has the advantages of high performance, full integration, high service-integration, high-reliability, and high-security. It meets the complete integration requirement of the wired & wireless network of various industry customers. The unified management feature of WNC6600 makes WLAN quite easy to be managed, operated and maintained, meeting the deployment requirement of various services.

The rich software features of WNC6600 can provide load balance, fault auto-recovery, intelligent RF management, and fast roaming for users. Network administrators can use English web interface to configure and do not need the traditional CLI operation. Just three minutes are needed to complete the configuration.

As the wired and wireless integrated smart management platform, WNC6600 access controller can cooperate with Maipu data communication products to provide the comprehensive network solutions for different industry users, widely applied in various wireless access scenarios.



# Key Features

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## **Wired and wireless integration design, meeting the deployment requirement of dual-network convergence**

Maipu WNC6600 wireless controller adopts the wired and wireless integration design. With the large-capacity interface of the switch device, it meets the access management of the large-capacity wireless AP and wireless terminal, and also can carry the large-capacity data forwarding of the wired network, having the strong L2 and L3 wired device functions.

## **High forwarding performance, meeting the 11ac AP deployment upgrade in the future**

With the features of the large switch capacity and strong forwarding performance, all wired Ethernet ports can realize the wire-speed forwarding and all cascaded APs also can realize the full wire-speed forwarding, meeting the high-speed access requirement of the 11ac network in the future; all security control functions are controlled by the independent hardware ASIC and it does not affect the device performance when overlaying the functions.

## **English WEB interface, easy management**

WNC6600 has the humanized English web configuration interface, helping the network administrator complete the configuration and maintenance work of the device with the highest efficiency.

## **Controller itself can realize BYOD function, identifying different terminal systems**

WNC6600 can realize the BYOD function without cooperating with any other devices. It can identify the terminal type (such as iPhone OS, Android, windows, Symbian, and BlackBerry OS) according to DHCP. For different types of terminals, it can set different security policies.

### **Smart AP management technology, AP zero-configuration plug-and-play**

In the Fit AP mode, zero-configuration Fit AP can discover and connect to the wireless controller automatically via the L2 or L3. The wireless controller can configure, manage, and maintain Fit AP. WNC6600 supports rich L2 and L3 functions and realizes the management and monitoring for Fit AP via the L2 and L3 network.

### **Smart auto roaming technology, no need of terminal re-authentication**

When the wireless user roams in the network, with the sharing of the user IP, authentication, and authorization and other information, the user can go cross the whole wireless network. Meanwhile, WNC6600 can efficiently ensure the mobility and security of the user, keeping the IP, authentication and authorization status unchanged, making the user enjoy the fast data-roaming service.

### **Smooth network upgrade, protecting user network investment**

WNC6600 can fully meet the networking requirements in various complicated network environments. With the large MAC address capacity and hardware route table capacity, it can meet any L2 and L3 deployment, as well as the local and remote networking requirements. The user does not need to change the existing wired network and can fast deploy the wireless network on any existing L2 and L3 network seamlessly and safely without interrupting the current network running, making the network easy to upgrade smoothly and juggling the previous investments. For the small network, it can directly serve as the core network of the wired network to provide the data forwarding service.

### **Smart configuration management, reducing the maintenance and management work of the user**

Based on the advanced smart management and control concept, WNC6600 can provide the auto software upgrade, auto configuration delivering, SNMP management based on the wireless controller as the center, and other functions for the monitored APs. This greatly reduces the cost and difficulty of the device deployment and network maintenance.

### **Completely support IPv4 L2 and L3 protocols**

WNC6600 supports complete L2 and L3 protocols; 802.1d/w/s spanning tree protocol; 802.1q, 802.1p, 802.3ad, 802.3x, GVRP, DHCP, SNTP protocols; RIPv1/2, OSPF, VRRP and other routing protocols. It is applicable to the complicated network environment.

### **Rich wireless functions, transiting to the 802.11ac network smoothly**

The system provides the more complete wireless services, such as channel auto distribution, auto adjusting of the AP transmitting power, load balance, fast roaming, and pre-authentication. Meanwhile, network administrator can configure the QoS policy flexibly according to different application scenarios, ensuring the best running of the network. The system supports traditional 802.11a/b/g/n/ac/ac wave 2 AP access, providing the higher bandwidth guarantee for the user.

### **Complete security management, ensuring the system communication security**

WNC6600 series provides various encryption modes and access control. Network administrator can configure the WEP, WPA, WPA2 and 802.1x encryption mode via the software system to ensure the security of the user data between the terminals. The inbuilt WIDS function can perceive and suppress the potential threats of the AD Hoc host and invalid AP around. WNC6600 provides the strict user access control policy, such as WEB authentication, PPPOE authentication, bandwidth control, and ACL. It can support forming the logs according to the key events such as AP online, offline, Client authentication, association, de-association, Client roaming, so as to manage the wireless network more intuitively.

### **Green design**

WNC6600 adopts the high-efficiency temperature control speed fan, supporting stepless speed regulation. The system can automatically collect the device temperature, calculate the fan speed regulating curve according to the device actual status, and deliver the speed regulating command to the fan frame. The system supports monitoring the fan status and administrator can regulate the speed according to the environment temperature, reducing the device power consumption and running noise, reducing the environment noise and prolonging the fan life.

### **Directly provide POE power supply (WNC6600-100-AC only)**

With the wired and wireless integration feature, WNC6600-100-AC can directly provide eight POE power supply interfaces. When a small number of APs are used in the scenario

with 300-500 users, network administrator does not need to deploy the POE switch or POE power supply module, reducing the network complexity, convenient for management and maintenance.



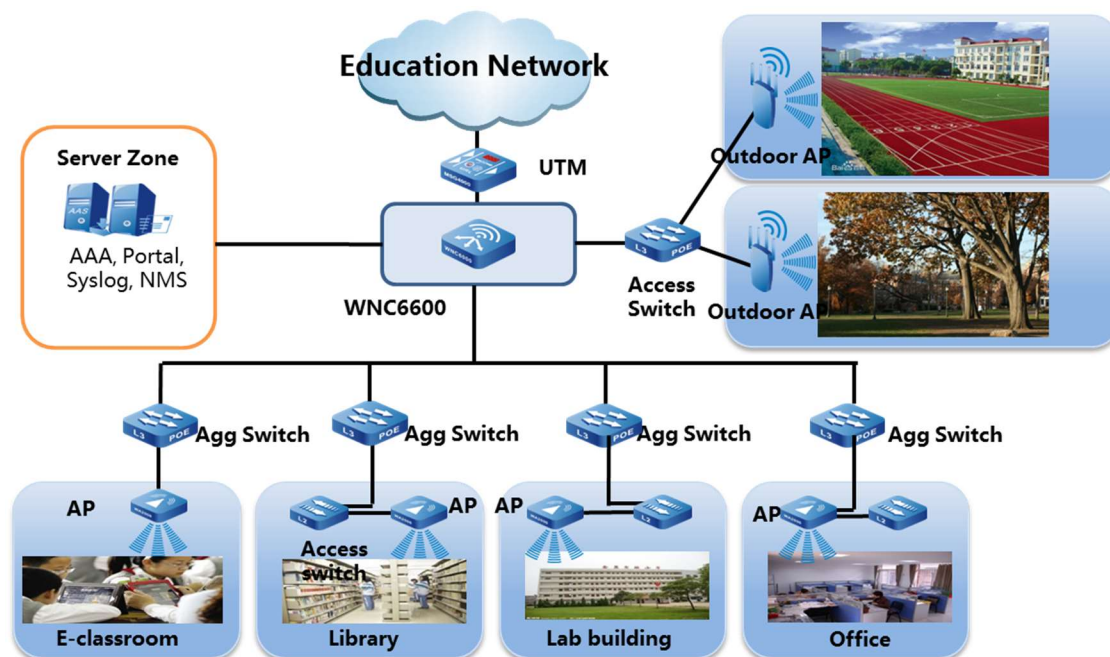
# Specifications

Model	WNC6600-100-AC	WNC6600-200-AC	WNC6600-500-AC	WNC6600-1000-AC	WNC6600-2000-AC
<b>Hardware interface</b>	2*GE Combo 24*FET 1*Console 1*DC0	2*GE SFP+ 8*GE Combo 1*Console 1*DC0	12*GET 12*GE Combo 2*GE SFP+ 1*Console 1*DC0	12*GET 12*GE Combo 2*GE SFP+ 1*Console 1*DC0	24*GE Combo 2*GE SFP+ 1*Console 1*DC0
<b>Default managed APs</b>	32	32	64	128	No
<b>Maximum managed APs</b>	128	256	512	1024	2048
<b>POE ports</b>	8	N/A	N/A	N/A	N/A
<b>Software features</b>					
<b>Supported protocols</b>	TCP/IP, IPX, NetBEUI, IEEE802.3/u 10/100Base-Tx RJ-45, IEEE 802.3z 1000BaseX , 802.1d, 802.1p, 802.1q, 802.1x, 802.11, 802.11b, 802.11a, 802.11g, 802.11h, 802.11i, 802.11e, 802.11n,802.11ac, 802.11ac wave 2, CAPWAP, DHCP Server, DHCP Client, DHCP Relay, DNS Client, NTP (Server and Client), VRRP and so on				
<b>Routing protocol</b>	RIPv1/v2, OSPF, Static route, etc.				
<b>AP discovery mode</b>	Static IP discovery, DHCP discovery, DNS discovery and so on				
<b>Roaming</b>	Support roaming in AC, support L2/L3 roaming				
<b>Network service</b>	DHCP Server, FTP, DNS, NTP				
<b>BYOD</b>	Terminal system identifying: iPhone OS, Android, windows, Symbian, BlackBerry OS				
<b>RF management</b>	Radio switch, wireless mode selecting (802.11a/b/g/n/ac), manual or auto channel selecting, manual or auto power regulation, auto rate selecting, support WMM, support Multi BSSID				
<b>Security features</b>	WEP(WEP64/WEP128/WEP152), WPA-PSK, WPA2-PSK, WPA, WPA2, WAPI, 802.1X authentication, Web authentication, Anti-DoS attack, ARP suppression, ACL control (supporting the access control based on MAC address and IP address), wireless user isolation, static blacklist, whitelist, broadcast storm control, MAC address access control (ACL)				
<b>Backup function</b>	1+1 backup, 1:1 backup				

<b>Device management</b>	Web, SNMP (v1/v2c/v3), Telnet, SSH and so on				
<b>Physical index</b>					
<b>Power</b>	AC:100~240V 50/60Hz	AC:100~240V 50/60Hz	AC:100-240V 50/60Hz	AC:100-240V 50/60Hz	AC:100-240V 50/60Hz
<b>Power redundant</b>	No	No	Yes	Yes	Yes
<b>Power hot swap</b>	No	No	Yes	Yes	Yes
<b>Power consumption</b>	≥200W (140W PoE)	≥94W	≥94W	≥94W	≥120W
<b>Dimension (W*D*H mm)</b>	442×380×44.3	442×420×44.3	442×420×44.3	442×420×44.3	442×420×44.3
<b>Power lightning protection index</b>	Common-mode, differential-mode 6KV				
<b>Fan</b>	Temperature control speed fan				
<b>Environment parameters</b>					
<b>Work humidity (no-condensing)</b>	5-85% (no-condensing)				
<b>Work temperature</b>	0-45℃				

# Application Scenario

- Campus Wireless Coverage



# Order Information

<b>Model</b>	<b>Description</b>
WNC6600-100-AC	Maipu MyPower WNC6600-100-AC access controller, support 32 APs by default, max 128 APs. 1*Console port, 2*GE Combo ports and 24*FE RJ45 ports (8 support PoE output). AC power supply.
WNC6600-200-AC	Maipu MyPower WNC6600-200-AC access controller, support 32 APs by default, max 256 APs. 1*Console port, 8*GE Combo ports and 2*10GE SFP+ ports. AC power supply.
WNC6600-500-AC	Maipu MyPower WNC6600-500-AC access controller, support 64 APs by default, max 512 APs. 1*Console port, 12*GE RJ45 ports, 12*GE Combo ports and 2*10GE SFP+ ports. Dual power supply slots. Support hot swap power supply.
WNC6600-1000-AC	Maipu MyPower WNC6600-1000-AC access controller, support 128 APs by default, max 1024 APs. 1*Console port, 12*GE RJ45 ports, 12*GE Combo ports and 2*10GE SFP+ ports. Dual power supply slots. Support hot swap power supply.
WNC6600-2000-AC	Maipu MyPower WNC6600-2000-AC access controller, support max 2048 APs. 1*Console port, 12*GE RJ45 ports, 12* GE Combo ports and 2*10GE SFP+ ports. Dual power supply slots. Support hot swap power supply.
AD250-1S005E	AC power supply module for WNC6600-500-AC, WNC6600-1000-AC, WNC6600-2000-AC
WNC6000-L-32	Maipu MyPower WNC6600-L-32 for 32 APs licenses
WNC6000-L-64	Maipu MyPower WNC6600-L-64 for 64 APs licenses
WNC6000-L-128	Maipu MyPower WNC6600-L-128 for 128 APs licenses