


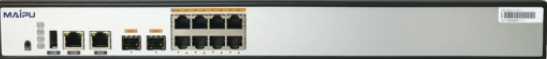


Maipu WNC6600 Series Access Controller Datasheet

Overview

WNC6600 series developed by Maipu is a new-generation wireless access controller that centrally manages Fit APs and wireless clients while offering a wide range of service options. By adopting a unified wired and wireless design approach, WNC6600 boasts high performance, seamless integration, extensive service capabilities, outstanding reliability, and robust security. This design caters to the comprehensive integration needs of wired and wireless networks for diverse industry clients. WNC6600's unified management feature simplifies WLAN management, operation, and maintenance, accommodating the deployment requirements of various services.

WNC6600 advanced software capabilities provide load balancing, automatic fault recovery, intelligent RF management, and L2&L3 roaming and 802.11k/v/r roaming for users. Network administrators can utilize the web interface for configuration. The configuration process takes just three minutes to complete. As a unified wireless smart management platform, WNC6600 access controller collaborates with Maipu's data communication products to deliver comprehensive network solutions tailored to various enterprise users. This makes it suitable for a wide range of campus network scenarios.

Model Name	Specification
 <p>WNC6600-2000-AC</p>	<ul style="list-style-type: none"> ● 12*100/1000M Base-T ● 12*1G Combo (SFP+RJ45) ● 2*10G SFP+ ● Dual Modular AC Power ● RJ45 Console/DC0 Port/USB2.0 Port/Micro-USB/SD Card Port
 <p>WNC6600-1000-AC</p>	<ul style="list-style-type: none"> ● 12*100/1000M Base-T ● 12*1G Combo (SFP+RJ45) ● 2*10G SFP+ ● Dual Modular AC Power ● RJ45 Console//DC0 Port USB2.0 Port/Micro-USB/SD Card Port
 <p>WNC6600-500-AC</p>	<ul style="list-style-type: none"> ● 12*100/1000M Base-T ● 12*1G Combo (SFP+RJ45) ● 2*10G SFP+ ● Dual Modular AC Power ● RJ45 Console//DC0 Port USB2.0 Port/Micro-USB/SD Card Port
 <p>WNC6600-200-AC</p>	<ul style="list-style-type: none"> ● 8*100/1000M Base-T (8*PoE Out) ● 2*1G SFP ● Fixed Single AC Power. ● RJ45 Console/DC0 Port /USB2.0 Port

Key Features

● Zero-Configuration Plug-and-Play

In Fit AP mode, zero-configuration Fit APs automatically discover and connect to the wireless controller via Layer 2 or Layer 3 network. WNC6600 wireless controller handles configuration, management, and maintenance of Fit APs. WNC6600 enables efficient management and monitoring of Fit APs across L2&L3 network.

● High Availability

Ensure uninterrupted network services with the WNC6600's HA support. It supports the 1+1 or 1:1 Backup configurations which can be guaranteed redundancy and uninterrupted connectivity, safeguarding your network's reliability.

● RF Optimization

Optimize your wireless network's performance by intelligently managing bandwidth, prioritizing 5G frequencies, and proactively disconnecting low-signal clients. The multicast to unicast conversion efficiently manages traffic, ensuring an excellent user experience.

● Seamless Roaming

Enhance user mobility within your network using robust Layer 2&3 roaming, and 802.11k/v/r roaming support. Users can move effortlessly, maintaining their connection without disruption as they traverse your wireless landscape.

● Unified Wired & Wireless Features

WNC6600 wireless controller possesses robust Layer 2 and Layer 3 wired device functionality. Equipped with high capacity switching interfaces, it accommodates the access management of numerous wireless APs and terminals, while also supporting substantial data forwarding in wired networks.

● BYOD Functionality

WNC6600 wireless controller independently achieves BYOD functionality without the need for collaboration with other devices. It can identify different terminal types based on DHCP-Feature. The WNC6600 enables the implementation of distinct security policies tailored to each terminal type.

● Smooth Network Upgrades

WNC6600 supports various complex network environments and enables seamless, secure wireless network deployment without disrupting existing wired networks. It also serves as the aggregation device for smaller wired networks, ensuring smooth network upgrades and maximizing return on investment.

● Comprehensive Security Policy

WNC6600 provides various authentication modes, access control, and inbuilt WIDS to detect and suppress potential threats. It also offers strict user access control policies, including PSK authentication, 802.1x authentication, MAC authentication, portal authentication, etc.

● Integrated PoE Power Supply

WNC6600-200-AC offers eight integrated PoE interfaces, eliminating the need for separate PoE switch for small network. This design simplifies network management and maintenance.

● Intelligent Management

WNC6600's advanced smart management capabilities include automatic software upgrades, configuration delivery, and SNMP management for monitored APs, significantly reducing deployment costs and network maintenance complexity.

Technical Specifications

Product Model	WNC6600-200-AC	WNC6600-500-AC	WNC6600-1000-AC	WNC6600-2000-AC
Version	V1	V1	V1	V1
Hardware Specification				
Hardware Interface	8*10/100/1000M Base-T 2*GE SFP interfaces.	12*10/100/1000M Base-T 12*GE Combo (SFP+RJ45). 2*10GE SFP+ interfaces.	12*10/100/1000M Base-T 12*GE Combo (SFP+RJ45). 2*10GE SFP+ interfaces.	12*10/100/1000M Base-T 12*GE Combo (SFP+RJ45). 2*10GE SFP+ interfaces.
Management Interface	1*RJ45 Console 1*RJ45 DC0 1* USB	1*RJ45 Console 1*RJ45 DC0 1*Micro-USB Console 1* USB	1*RJ45 Console 1*RJ45 DC0 1*Micro-USB Console 1* USB	1*RJ45 Console 1*RJ45 DC0 1*Micro-USB Console 1* USB
Default Managed APs	64	64	128	128
Maximum Managed APs	256	512	1024	2048
PoE Ports	8	N/A	N/A	N/A
Power Supply	AC:100~240V 50/60Hz	AC:100~240V 50/60Hz DC: -40~-57V	AC:100~240V 50/60Hz DC: -40~-57V	AC:100~240V 50/60Hz DC: -40~-57V
Power Redundant	N/A	Yes	Yes	Yes
Power Hot Swap	N/A	Yes	Yes	Yes
Power Consumption	≥30W	≥94W	≥94W	≥94W
PoE Power Consumption	125W	N/A	N/A	N/A
PoE Standard	IEEE 802.3af/at	N/A	N/A	N/A
Dimension (W*D*H) mm	442*320*44.3	442*420*44.3	442*420*44.3	442*420*44.3
Lightning Protection	Common-mode, differential-mode 6KV			
Work Humidity	5~85% (No-condensing)			
Work Temperature	0~45°C			
Software Specification				
L2 Protocol	LACP Link Aggregation, Port Isolation, VLAN, STP/RSTP/MSTP, Error-Disable			
L3 Protocol	Static Route v4/v6, RIP/RIPng, OSPF, OSPFv3, Routing Policy, DHCP Client, DHCP Server, DHCP Relay			
Network Security	Port Security, ISG (IP Source Guard), DAI (Dynamic ARP Inspection), DHCP Snooping, DHCP Option82, ACL, AAA, Radius, TACACS, 802.1X			
802.11 Protocol	Support IEEE 802.11a/b/g/n/ac/ax			
Network Reliability	VRRP, VRRPv3, Track, BFD			
Wireless Forwarding Mode	Local Forwarding, Centralized Forwarding			
Wireless Authentication	Open, WPA-PSK, WPA-802.1X, WPA2-PSK, WPA2-802.1X, WPA3-PSK, WPA3-802.1X, MAC Authentication, Portal Authentication, Portal URL Redirection, Portal Server Escape			
Wireless Security	WIDS, User Isolation, SSID Hidden, SAVI, Anti-Rogue, Service Status Control, Web Access Control, ARP Suppression Protection			

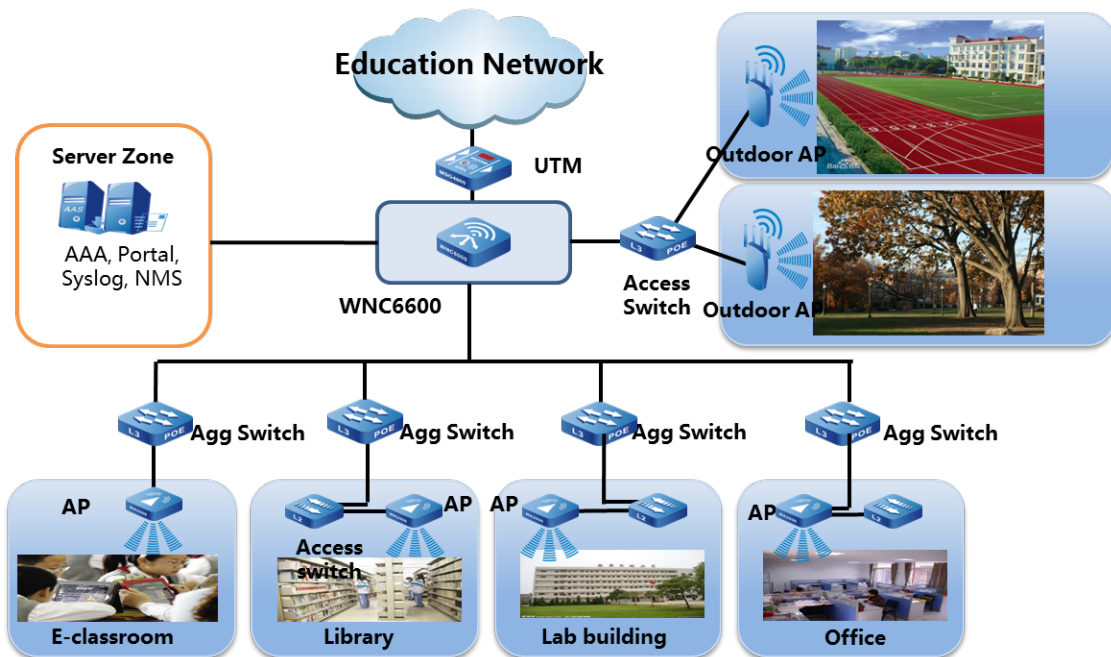
Wireless RF Management	RRM, Set Working Channel Manually, Set Transmit Power Manually, DCA (Dynamic Channel Adjustment), TPC (Transmit Power Control)
Wireless Roaming	L2 Roaming & L3 Roaming, 802.11k/v/r Fast Roaming
Wireless Control	WLAN ACL, BYOD, Timing AP Rebooting, Timing Radio Rebooting, Timing Open/Close SSID, STA Number Control, Load Balancing between RF/AP, 5G Priority, RSSI Threshold, Weak Signal Offline, STA Blacklist/Whitelist
Wireless QoS	WMM (Wi-Fi Multimedia, sub-set of 802.11e), WMF (Wireless Multicast Forwarding), AP bandwidth limitation, BSS total bandwidth limitation, BSS user bandwidth limitation
Wireless Reliability	1+1 Backup, 1:1 Backup, HAP (Hybrid Access Point, AP Escape), Uplink Detection, Configuration Synchronization
Advanced Wireless Features	RF Detection, Packet Air Capture
Network Management	SNMP v1/v2/v3, MIB, RMON, SYSLOG, WEB (HTTP/HTTPS), CLI (Telnet, SSH), Ping, Tracert, FTP/TFTP, Debug, Keep Alive Gateway, NTP, SPAN, RSPAN

Order Information

Model	Description
WNC6600 Series Access Controller	
WNC6600-200-AC	WNC6600-200-AC access controller, support 64 APs by default, max 256 APs. 1*Console port, 8*GE RJ45 ports (8 support PoE output) and 2*GE SFP ports. Fixed One AC power supply.
WNC6600-500-AC	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.
WNC6600-1000-AC	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.
WNC6600-2000-AC	WNC6600-2000-AC access controller, support 128 APs by default, max 2048 APs. 1*Console port, 12*GE RJ45 ports, 12*GE Combo ports and 2*10GE SFP+ ports. Dual power supply slots.
Power Module	
AD250-1S005E	250W power module, AC input 100~240V, Hot swap supported.
DD500-5D005E	500W power module, DC input -40~-57V, Hot swap supported.
License	
WNC6000-L-32	WNC6600-L-32 for 32 APs licenses
WNC6000-L-64	WNC6600-L-64 for 64 APs licenses
WNC6000-L-128	WNC6600-L-128 for 128 APs licenses

Application Scenario

Campus Wireless Network



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