ZyXEL

The Ultimate WLAN Management and Security Solution for Large and Distributed Deployments

- Centralized WLAN management and auto provisioning
- Manages up to 240 APs with granular access control
- Advanced RF management for optimized Wi-Fi performance
- Secured wireless edge with IDP, anti-virus and firewall
- Flexible traffic forwarding with tunnel and distributed modes
- Comprehensive guest network management features
- User-centric management solution For BYOD trend

The ZyXEL NXC5200 Wireless LAN Controller is designed to provide quality Wi-Fi to a large and growing amount of mobile devices, make large WLAN deployments easily manageable, and solve the security issues that come with the trend of Bring Your Own Device (BYOD). This controller works with ZyXEL Unified, Unified Pro and Managed Series Access Points to form a high-performance and versatile controller-based WLAN solution that provides centralized management of up to 240 APs. Featuring advanced RF management functions, flexible tunnel and distributed traffic forwarding modes, and robust security for the wireless edge, the NXC5200 is truly the ultimate WLAN management and security solution for large and distributed deployments in enterprises, campuses and hotel chains.

Benefits

Manage up to 240 APs with ease

The ZyXEL NXC5200 Wireless LAN Controller is designed to work with ZyXEL Unified, Unified Pro and Managed Series Access Points to form a robust controller-based WLAN solution. This solution offers the convenience of centralized management of up to 240 APs, as well as auto AP provisioning over both LAN and WAN connections. After being installed and powered on, the APs automatically look for the NXC5200 and establish secured connections. Utilizing the CAPWAP protocol, connections can be established between the controller and APs without needing to change the existing LAN infrastructure, which enables users to expand WLAN deployments with ease. Licenses are also available to increase the number of manageable APs to up to 240, allowing enterprises, small- and medium-sized businesses, educational institutions, or hotels to scale up as Wi-Fi demand grows without needing to upgrade equipment.

High-quality Wi-Fi experience

The ZyXEL NXC5200 is equipped with a range of advanced RF management functions that can help administrators provide optimized Wi-Fi quality and performance with little effort. Its auto channel selection function can provide continuous and automated RF optimization, which relieves administrators from the need to worry about channel settings and optimization diagnostics after deployment. AP load-balancing parameters can also be set to distribute traffic and the number of served clients among multiple APs so as to provide better Wi-Fi quality for every user. The NXC5200 provided diagnostic functionality, IT administrators can detect and contain rogue APs, capture wireless packets to diagnose WLAN problems, and provide trouble-shooting services from remote locations.

NXC5200
Wireless LAN Controller

Secured wireless edge blocks threats from mobile devices

The ZyXEL NXC5200 Wireless LAN Controller and Managed APs can help enterprises and businesses address the wireless security issues that arise with BYOD. They can guard company networks and resources against incoming threats from mobile Internet devices with industry-standard WPA/WPA2-Enterprise authentication and a variety of Extensible Authentication Protocol (EAP) frameworks. The built-in firewall of the NXC5200 can perform Stateful Packet Inspection (SPI) of data streams to reject illegitimate packets coming from mobile Internet devices. With optional anti-virus and Intrusion Detection and Prevention (IDP) licenses, the NXC5200 can provide the most robust protection for the wireless network edge.

Flexible traffic forwarding with tunnel and distributed modes

The ZyXEL NXC5200 features both tunnel and distributed traffic forwarding modes, providing IT administrators the flexibility to tunnel wireless traffic between controller and AP, or bridge traffic among multiple APs locally.
• **Local bridge mode:** When there is no need to direct wireless traffic to the controller, IT administrators can distribute wireless Traffic among multiple APs locally to provide higher WLAN efficiency and low latency.
• **Tunnel mode:** The NXC5200 supports tunnel mode with Unified Pro and Managed Series APs, which allows IT administrators to easily scale up the wireless network, or extend it to remote locations, without needing to change the existing network infrastructure. The NXC5200 also provides superior wireless security in tunnel mode. All traffic tunneled to the controller can be scanned and decontaminated with anti-virus and IDP engines (licenses available).

Easy guest network management

The ZyXEL NXC5200 is the ideal solution for hotels, enterprises or other organizations that need to provide Internet services to large amounts of guests. The built-in account generator can also dynamically create user accounts for guests to easily access the Internet via the built-in or external Web authentication portal.

Effective access management for the BYOD trend

The ZyXEL NXC5200 can help businesses and enterprisesmeet the challenges of BYOD. As more and more people bring their own devices to work, the workplace has gradually changed from one person, one device to one person, multiple devices.
The NXC5200 provides MAC authentication to add more network access convenience for mobile device users.
Capable of authenticating with AD, LDAP or a RADIUS server, the NXC5200 can turn the management polices from device-centric to user-centric to prepare businesses and enterprises for future trends. IT administrators can set access and data-forwarding policies according to group and user, allowing the same person to get the same access privilege, whether it is on a laptop computer, tablet, or smartphone.

Key Application
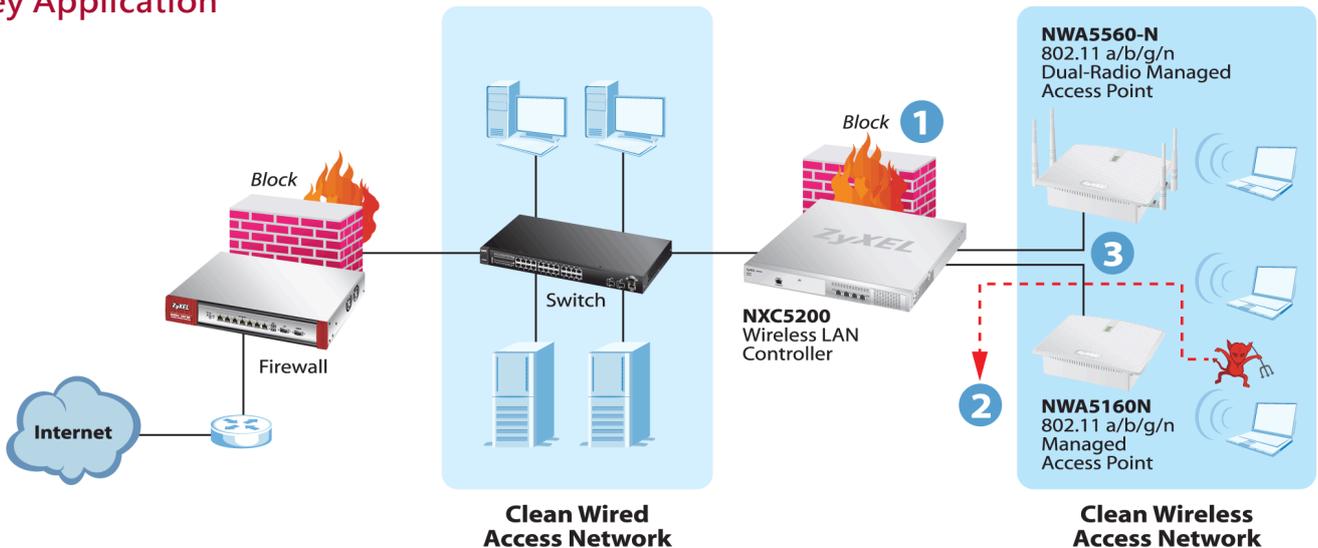
| 1 Build-in Firewall | 2 Build-in Wireless Anti-Virus, Intrusion Detection and Prevention | 3 Managed up to 240 APs with granular access control |

Specifications

Model	NXC5200
Product name	Wireless LAN Controller
Port Density	
10/100/1000 Mbps LAN ports	4 (8 with expansion slot)*
Performance	
Bridge throughput (Gbps)	3.7
Firewall throughput (Gbps)	3.2
AV & IDP throughput (Mbps)	700
Tunnel throughput (Gbps)	1
Max. managed APs	240
Tunneled APs	64**
WLAN Features	
WMM (Wi-Fi certified)	Yes
WEP	Yes
WPA/WPA2-PSK	Yes
WPA2 (Wi-Fi certified)	Yes
WPA/WPA2-Enterprise	Yes
Security Features	
IEEE 802.1X	Yes
Web authentication	Yes
MAC filtering	Yes
RADIUS authentication	Yes
RADIUS accounting	Yes
Microsoft AD authentication	Yes
LDAP authentication	Yes
Embedded RADIUS server	Yes
Rogue AP detection	Yes
Rogue AP containment	Yes
Intrusion detection & prevention	Yes
Anti-virus	Yes
Firewall	Yes
Network	
VLANs	Yes
DHCP client	Yes
DHCP relay, server	Yes
NAT	Yes
Static routing	Yes
Access Control	
Policy setting per user	Yes
Policy setting per SSID	Yes
Customizable web login portal	Yes
QoS	
WMM	Yes
WMM power saving	Yes
DiffServ marking	Yes
AP load balancing	Yes
Application patrol	Yes

Model	NXC5200
Management Features	
CLI with SSH	Yes
Web UI with SSL	Yes
SNMP	Yes
Multi-level administration roles	Yes
Administrator authentication via RADIUS server	Yes
Managed AP number (default/max.)	48/240
Backup controller mode:	Single profile mode: Up to 1000 AP***
Maximum AP number	Multiple profile mode: 500 AP***
Others	
Dynamic channel selection	Yes
Device HA	Yes
System diagnostic tool	Yes
Standard Compliance	
Ethernet	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3az
Certification	
EMC	FCC Part 15B, EN 301 489-17 V1.2.1: 08-2002 (Class B) EN 301 489-1 V1.5.1: 11-2004 (Class B)
Safety	EN 60950-1 (Class B), EN 60601-1-2: 2002 (Medical Electrical Equipment) (Class B)
Power Requirement	
Power supply	100 - 240 V AC, 50/60 Hz
Physical Specifications	
Item — Dimensions (WxDxH)(mm/in.)	431 x 520 x 44/16.96 x 20.47 x 1.73
Item — Weight (kg/lb.)	12/26.46
Packing — Dimensions (WxDxH)(mm/in.)	644 x 561 x 183/25.35 x 22.09 x 7.20
Packing — Weight (kg/lb.)	14/30.86
Environmental Specifications	
Operating environment — Temperature	0°C to 40°C/32°F to 104°F
Operating environment — Humidity	10% to 90% (non-condensing)
Storage environment — Temperature	-30°C to 70°C/-22°F to 158°F
Storage environment — Humidity	10% to 90% (non-condensing)
MTBF (hr)	46,632

* 4-port RJ-45 GbE and 4-port SFP GbE LAN expansion modules available
** Suggested value for quality and performance
*** Backup controller mode is NXC5200 can act as backup controller for multiple NXC controllers. The maximum number of AP supported is 1000 units in the case of single profile mode, and 500 units in the case of multiple profile mode.

Access Point Compatibility List

Series	NWA3000-N Series Unified Pro Access Point	NWA5000 Series Managed Access Point	NWA5120 Series Unified Access Point
Models	NWA3160-N NWA3560-N NWA3550-N	NWA5160N NWA5560-N NWA5550-N	NWA5121-NI NWA5121-N NWA5123-NI
Functions			
Auto provisioning over WAN & LAN	Yes	Yes	Yes
CAPWAP	Yes	Yes	Yes
Auto channel selection	Yes	Yes	Yes
AP load-balancing	Yes	Yes	Yes
Monitoring mode	Yes	Yes	No
Rogue AP	Detection and containm	Detection and containm	Detection (Standalone m
Packet capture	Yes	Yes	No
Data forwarding	Local bridge and tunnel mode	Local bridge and tunnel mode	Local bridge

Note: The NXC5200 does not support NWA3000-N Series APs by default. Purchase of a "Managed AP Scalability" license is required to manage NWA3000-N Series APs.

Ordering Information

Licenses	
Item	Description
Managed AP Scalability	The NXC5200 Managed AP License increases the number of APs that can be managed by the NXC5200 WLAN controller. NXC5200 WLAN controller. The maximum number of APs supported is 240.
Intrusion Detection and Prevention (IDP)	The NXC5200 Intrusion Detection and Prevention service is an easy-to-manage, signature-based feature that mitigates threats from ever-evolving attacks and exploits.
Anti-Virus (AV)	The NXC5200 Anti-Virus service is an easy-to-manage, signature-based feature that stops virus/spyware from entering your network.

LAN modules		
Item	WEM104	WEM104F
Photo		
Description	4-port RJ-45 GbE LAN Module	4-port SFP GbE LAN Module

Other

Item	Rack mount kit for the NXC5200	
Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	559 x 9.6 x 35.3/22 x 0.38 x 1.39
	Weight (kg/lb.)	2.5/5.51
Packing	Dimensions (WxDxH)(mm/in.)	717 x 376 x 173/28.22 x 14.8 x 6.81
	Weight (kg/lb.)	14.6/32.19