



The All-in-One, Intelligent WLAN Controller

- Centralized management for up to 64* APs
- ZyMESH mitigates complex, inconvenient cabling Wi-Fi deployments

- Client steering enhances efficiency of wireless spectrum utilization
- Auto healing maximizes Wi-Fi service availability
- Seamless integration with external AD, LDAP, RADIUS authentication
- Best investment protection with built-in RADIUS server

Delivering a good wireless LAN service that stands up to the demands of connecting users to the rapid evolution application is not easy. The latest BYOD (Bring Your Own Device), mobility and smart handheld technology all present scalability, manageability and functionality challenges to business Wi-Fi installations. To enable businesses to addressing these challenges ZyXEL has developed the NXC2500, an all-in-one, intelligent Wireless LAN Controller. The ZyXEL NXC2500 is designed to provide resellers and businesses with a solution that works as an AP planning, deployment, monitoring and maintenance solution while offering management, authentication and guest access within an all-in-one device.

The ZyXEL NXC2500 Wireless LAN Controller supports the management of the ZyXEL Unified, Unified Pro and NWA5000 Managed Series of Access Points to provide complete wireless LAN functions for the business. As standard the ZyXEL NXC2500 supports the initial management of 8 APs and provides scalability with a maximum supported total up to 64* APs, the "pay-as-yougrow" principle provides reassurance and future proofing for small and medium-sized businesses, hotels and educational institutes to implement secured, centralized wireless LAN networks.

Benefits

Adaptive and resilient Wi-Fi deployments with ZyMESH technology

Surpassing the mesh networking technology, ZyMESH creates wireless mesh links with easy configuration, better management and enhanced reliability. ZyMESH eases extending Wi-Fi coverage to places where cabling is difficult. In addition, each repeater APs can have multiple route selections to provide high resilience achieving non-stop Wi-Fi service. In the past, administrators had to assign channel and MAC addresses in each AP while setting up a WDS link to extend Wi-Fi service; now they can make initial provision and centralized management with ZyMESH and ZyXEL NXC2500 controller to manage and deploy networks easily.

Enhanced RF management and WLAN optimization

All wireless networks face a major challenge: ensuring Wi-Fi clients get service levels they'd need. The difficulty to resolve is that different kinds of Wi-Fi clients exist on the network, and these users tend to make their own connectivity and roaming decision.

* Management of 64 APs is supported with firmware version V4.10 or above



NXC2500 Wireless LAN Controller

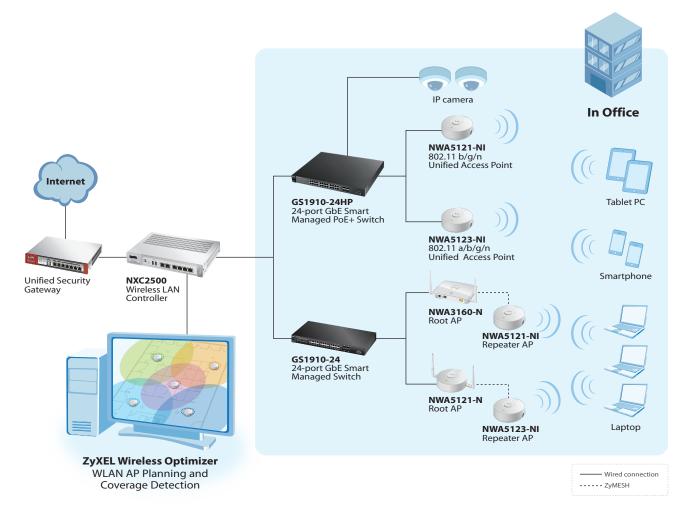


The ZyXEL NXC2500 features with advanced WLAN optimization technologies that help administrators monitoring and maintaining health of the wireless network easily. Client steering utilizes functions of band select and client signal threshold to match every Wi-Fi client to the best radio of the best AP. Band select sets 5 GHz as the first priority to optimize network connectivity for dual-band clients. Client signal threshold ensures all clients connect to the APs with stronger signal. Auto healing is another WLAN optimization function that deployed APs detect status of nearby APs and adjust power automatically while failure occurred in neighboring AP. Auto healing provides reliable and always-on wireless coverage. The ZyXEL NXC2500 also features dynamic channel selection to optimize Wi-Fi quality and performance while minimizing administration efforts by auto, instant channel selection.

Authentication with simplified management

The ZyXEL NXC2500 uses comprehensive authentication methods to manage Wi-Fi accessibility for devices with AD, LDAP or RADIUS authentication servers. The NXC2500 also provides a built-in RADIUS server, a captive portal server and a DHCP server to facilitate small and medium businesses deploying secured employee and guest access services without any additional server. The user-friendly guest account generator can dynamically create user accounts for guests at reception or equally easy by office administrators. The NXC2500 also supports applying external customized portal pages which largely benefit the access authentication in hospitality venues like hotels. Also, with IETF standard-based CAPWAP, secured communication can be established between the NXC controller and access points without changing the existing LAN infrastructure. The NXC2500 can offer a secured Wi-Fi network with easy installation for your business.

Application Diagram





Specifications

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NAT Yes Static routing 256	DHCP client			
Static routing 256	DHCP relay, server	Yes		
	NAT			
	Static routing	256		
Policy routing 256	Policy routing	256		

* Management of 64 APs is supported with firmware version V4.10 or above



NXC2500 Wireless LAN Controller

Model		NXC2500		
Access Cont	trol			
MAC filter li	ist	Yes		
MAC auther	ntication	Internal and external RADIUS		
Guest account generator		Yes (512 user)		
Customizab	ole web login portal	Yes		
QoS				
WMM/powe	er save	Yes		
DiffServ ma	arking	Yes		
AP load bal	ancing	Yes		
Manageme	nt Features			
CLI with SSI	н	Yes		
Web UI with	1 SSL	Yes		
SNMP		v1, v2c, v3		
Multi-level	administration roles	Admin, guest operator		
User/Applic	ation Management			
Authenticat	tion	RADIUS/Microsoft AD/LDAP/Local		
Local user d	latabase	Yes (512)		
User/group	policy	Yes		
Captive portal		Yes		
External portal page		Yes		
Page upload		Yes		
Other				
System diagnostic tool		Yes		
ZyXEL Wireless Optimizer		Supported		
Certificatio	n			
ЕМС		• FCC Part 15B • CE EN55022, EN55024 • ERP Lot 6 • C-tick AS/NZSCISPR22 • BSMI CNS13438		
Safety		• LVD EN60950-1: A12 • BSMI CNS14336		
Power Requ	lirements			
Power supp	•	12 VDC, 100 - 240 VAC		
Physical Specifications				
Item	Dimensions (WxDxH)(mm/in.)	242.0 x 175.39 x 35.5/9.53 x 6.9 x 1.4		
	Weight (kg/lb.)	1.254/2.76		
Packing	Dimensions (WxDxH)(mm/in.)	395 x 238 x 101/15.55 x 9.37 x 3.98		
Weight (kg/lb.)		2.49/5.49		
Environmer	nvironmental Specifications			
Operating	Temperature	0°C to 40°C/32°F to 104°F		
	Humidity	5% to 95% (non-condensing)		
Storage	Temperature	-20°C to 70°C/-4°F to 158°F		
Humidity		5% to 95%		
MTBF (hr)		815,464		



Access Point Compatibility List

C with a	NWA3000-N Series	NWA5000 Series	NWA5120 Series		
Series	Unified Pro Access Point	Managed Access Point	Unified Access Point		
Model	NWA3160-N NWA3560-N NWA3550-N	NWA5160N NWA5560-N NWA5550-N	NWA5121-NI NWA5121-N NWA5123-NI NWA5301-NJ		
Functions					
Auto provisioning over WAN & LAN	Yes	Yes	Yes		
САРЖАР	Yes	Yes	Yes		
Auto channel selection	Yes	Yes	Yes		
AP load-balancing	Yes	Yes	Yes		
Monitoring mode	Yes	Yes	Yes		
Rogue AP detection	Yes	Yes	Yes		
Rogue AP containment	Yes	Yes	Yes		
Packet capture	Yes	Yes	Yes		
Data forwarding	Local bridge/Data tunnel	Local bridge/Data tunnel	Local bridge		
ZyMESH	Yes	Yes	Yes		

Other Information

License

Item	Description	
Managed AP scalability	The NXC2500 Managed AP License increases the number of APs that can be managed by the NXC2500 WLAN controller by increments of 8 APs at a time. The maximum number of APs supported is 64*.	
ZyMESH	This license enables the ZyMESH function on the NXC2500, supporting for root wireless mesh deployments.	

* Management of 64 APs is supported with firmware version V4.10 or above





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5-100-00714009 05/14