



- Dual-band, dual-radio, indoor and outdoor AP portfolio
- Advanced IEEE 802.11 a/b/g/n technology
- Centralized management and high scalability
- Advanced RF management for optimized Wi-Fi performance
- Enterprise-grade security for the wireless network edge
- Flexible traffic forwarding with tunnel and distributed modes
- 3-in-1 hybrid AP WLAN including AP controller mode, managed AP mode and standalone AP mode

NWA5000-N Series

802.11 a/b/g/n Managed Access Point

Secure and Versatile WLAN Solution for Distributed and High-density Deployments

The ZyXEL NWA5000-N Series 802.11 a/b/g/n Managed Access Point is designed specifically to help large organizations like enterprises and educational institutions satisfy the heightened demand for WLAN connectivity, build distributed wireless networks, and solve the wireless security issues that come with the trend of Bring Your Own Device (BYOD). The NWA5000-N Series consists of the NWA5160N indoor dual-band AP, NWA5560-N indoor dual-radio AP and NWA5550-N outdoor dual-radio AP, which can form a robust controller-based WLAN solution with the NXC5200 Wireless LAN Controller. With advanced management features and enterprise-grade security, this versatile WLAN solution can provide superb wireless performance and safeguard the wireless network edge.

Benefits

High-density deployments indoors and outdoors

The ZyXEL NWA5000-N Series consists of dual-band, dual-radio, indoor and outdoor APs that can solve the network overloading and signal interference problems of a crowded 2.4 GHz Wi-Fi environment. The NWA5160N dual-band model allows users to set it to work in either the 2.4 or 5 GHz band for added deployment flexibility, while the NWA5560-N and NWA5550-N dual-radio models provide concurrent 2.4 and 5 GHz wireless connectivity. These solutions allow IT administrators to direct some of the wireless traffic to the 5 GHz band to balance network loading and provide better Wi-Fi quality for a larger amount of users.

Manage up to 500 APs with ease

The ZyXEL NWA5000-N Series managed APs are designed to work with the NXC5200 Wireless LAN Controller to form a robust controller-based WLAN solution. This solution offers the convenience of centralized management of up to 500 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 connections. The pre-defined configuration is then automatically applied to the APs to complete the deployment. 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 500, allowing enterprises and educational institutions to scale up as Wi-Fi demand grows without needing to upgrade equipment.

High-quality Wi-Fi experience

The ZyXEL NWA5000-N Series and NXC5200 solution 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 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. This solution also features monitoring mode, with which IT administrators can detect and contain rogue APs, capture wireless packets to diagnose WLAN problems, and provide trouble-shooting services from remote locations.

Enterprise-grade wireless security

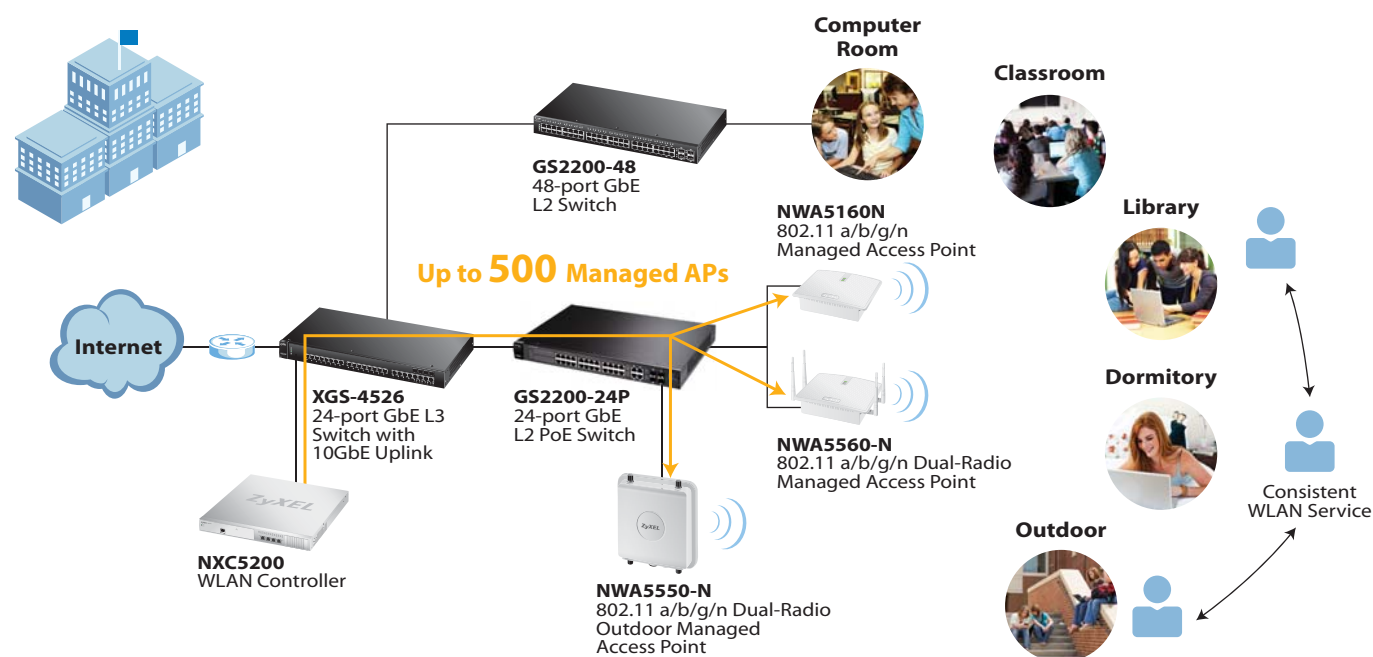
The ZyXEL NWA5000-N Series and the NXC5200 Wireless LAN Controller are designed to address the wireless security issues that arise with BYOD. They can guard networks and resources against incoming threats from mobile Internet devices with industry-standard WPA/WPA2-Enterprise authentication and a variety of Extensible Authentication Protocol (EAP) frameworks. The built-in firewall in 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, users get the most robust wireless security solution to safeguard their wireless network edge.

Flexible traffic forwarding with tunnel and distributed modes




The ZyXEL NWA5000-N Series and NXC5200 solution 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.

- **Distributed mode:** When there is no need to direct wireless traffic to the controller, IT administrators can bridge wireless traffic among multiple APs locally to provide higher WLAN efficiency and prevent unnecessary loading on the controller.
- **Tunnel mode:** With tunnel mode, IT administrators can easily scale up the wireless network, or extend it to remote locations, without needing to change the existing network infrastructure. The controller can also scan and decontaminate all tunneled traffic with anti-virus and IDP engines (licenses available) to provide a cleaner and safer wireless network.

Key Application



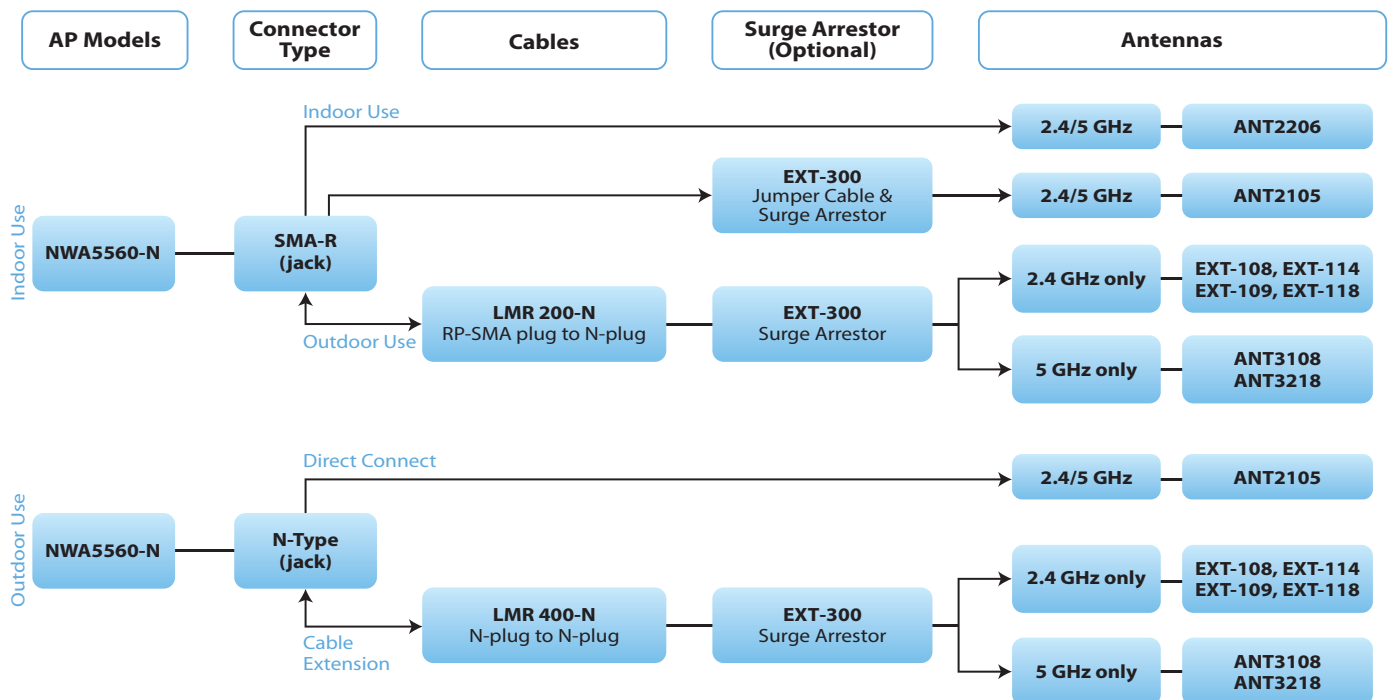
Specifications

Model		NWA5160N	NWA5560-N	NWA5550-N
Product name		802.11 a/b/g/n Single-Radio Access Point 	802.11 a/b/g/n Dual-Radio Access Point 	802.11 a/b/g/n Dual-Radio Outdoor Access Point 
Basic Features				
Radio		1	2	2
Antenna		Embedded 3 x 3 MIMO antenna	4 external dipole	4 N-type connectors*
Concurrent Wireless Client		128	256	256
Supported data rates		802.11 a/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)		
Frequency band	2.4 GHz (11 g/n)	USA (FCC): 2.412 to 2.462 GHz; Europe (ETSI): 2.412 to 2.472 GHz		
	5 GHz (11 a/n)	USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725; 5.725 to 5.850 GHz ETSI: 5.15 to 5.35 GHz; 5.470 to 5.725 GHz		
Maximum Conducted Output Power (without Antenna)				
FCC	11 b/g	23 dBm	28 dBm	28 dBm
	11 g/n	26 dBm	27 dBm	27 dBm
	11 a	28 dBm	25 dBm	25 dBm
	11 a/n	27 dBm	25 dBm	25 dBm
ETSI	11 b/g	14 dBm	17 dBm	17 dBm
	11 g/n	15 dBm	17 dBm	17 dBm
	11 a	11 dBm	17 dBm	17 dBm
	11 a/n	15 dBm	17 dBm	17 dBm
LAN				
Number of 10/100/1000 Mbps LAN ports		1	1	1
PoE (IEEE 802.3af)		Yes	Yes	Yes
PoE power draw		12 W	14 W	28 W
WLAN Features				
OFDM Modulation		Yes	Yes	Yes
Aggregation		Yes	Yes	Yes
Spatial Multiplexing		Yes	Yes	Yes
Channel Spectrum Width		20/40MHz	20/40MHz	20/40MHz
WDS/Bridge/Repeater		Yes	Yes	Yes
WEP		Yes	Yes	Yes
WPA/WPA2-PSK		Yes	Yes	Yes
WPA/WPA2-Enterprise		Yes	Yes	Yes
Network				
VLAN (IEEE 802.1Q)		Yes	Yes	Yes
DHCP client with option 138		Yes	Yes	Yes
Management Features				
CLI with SSH/TELNET		Yes	Yes	Yes
Firmware Upgrade		WWW/FTP	WWW/FTP	WWW/FTP
Other				
Plenum rating		Yes	Yes	-
Kensington lock support		Yes	Yes	-
Standard Compliance				
Ethernet		IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3az, IEEE 802.11e, IEEE 802.11h		
Radio modulation		IEEE 802.11a: BPSK, QPSK, 16-QAM, 64-QAM; IEEE 802.11b: DBPSK, DQPSK, CCK IEEE 802.11g: BPSK, QPSK, 16-QAM, 64-QAM; IEEE 802.11n: BPSK, QPSK, 16-QAM, 64-QAM		

* Antennas separately sold

Model		NWA5160N	NWA5560-N	NWA5550-N
Certification				
Radio		FCC Part 15C 15.247, FCC Part 15E (Class B) EN 300 328 V1.7.1, EN 301 893 V1.2.3: 08-2003, DGT LP0002 (Class B), WiFi Alliance		
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		12 V DC, 1.5 A maximum	12 V DC, 1.5 A maximum	PoE only
Physical Specifications				
Item	Dimensions (WxDxH)(mm/in.)	218 x 174 x 54/ 8.58 x 6.85 x 2.12	218 x 174 x 54/ 8.58 x 6.85 x 2.12	257 x 257 x 51/ 10.12 x 10.12 x 2.01
	Weight (kg/lb.)	0.766/1.69	0.805/1.77	1.360/3.01
Packing	Dimensions (WxDxH)(mm/in.)	326 x 184 x 91/ 12.83 x 7.24 x 3.58	326 x 184 x 91/ 12.83 x 7.24 x 3.58	382 x 415 x 154/ 15.04 x 16.34 x 6.06
	Weight (kg/lb.)	1.56/3.44	1.586/3.50	3.6/7.95
Environmental Specifications				
Operating environment	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	-40°C to 60°C/-40°F to 140°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-40°C to 70°C/-40°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hrs)		184442	173386	155600

Antenna & Cable Compatibility



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