Multipurpose Access Point Tailor-made for Growing SMB Needs

- **Multipurpose 3-in-1 design with controller AP mode, managed AP mode and standalone AP mode**
- **Manages up to 24 APs in controller AP mode**
- **Complies with IEEE 802.11 a/b/g/n standards with data rates up to 300 Mbps**
- **Supports Power over Ethernet (PoE), auto-discovery and auto-provisioning**
- **Enterprise grade Wi-Fi security with WPA/WPA2-Enterprise**
- **Features built-in RADIUS server**
- **Built with Low Smoke Zero Halogen (LSOH) materials for UL 2043 compliance**

Mobility and BYOD (Bring Your Own Device) in the workplace are trends that businesses today need to address to stay competitive. Yet with fewer resources, small- and medium-sized businesses need to plan their wireless networks carefully to get the most out of their investments. Growing SMBs need a solution that is flexible enough to satisfy the wireless needs of today, but also prepare them for future expansion.

Featuring a special 3-in-1 design (standalone, managed and controller modes), the ZyXEL NWA3000-N Series Unified Pro Access Points provide ultra-high versatility and investment protection. They can function as a standalone AP when the company is small, and become a controller AP that manages up to 24 other APs when the company grows. The complete NWA3000-N range supports PoE, auto-discovery and auto-provisioning to make deployment effortless. They also provide high-speed, dual-band Wi-Fi for maximum wireless quality and performance.

Benefits

Low-cost WLAN expansion for growing businesses

The ZyXEL NWA3000-N Unified Pro Series is a highly versatile WLAN solution that offers optimal investment protection for growing businesses. NWA3000-N Series Unified Pro APs feature a 3-in-1 design that allows them to function as either a standalone AP, managed AP, or controller AP. Small businesses can initially use the NWA3000-N Series in standalone AP mode; and as the company grows and more APs are added to the network, they can be set to controller AP mode to offer centralized management of up to 24 other APs. This solution can be further expanded with a ZyXEL NXC5200 Wireless LAN Controller, which can manage up to 240 APs with granular access control.

Double the bandwidth, better performance

Mobility and the trend of BYOD have ushered in the need for more Wi-Fi bandwidth and higher Wi-Fi capacity in the workplace. Companies today need a faster, more reliable wireless network to satisfy the access needs of a growing amount of mobile Internet devices. Designed in compliance with IEEE 802.11 a/b/g/n standards, the ZyXEL NWA3000-N Series can provide dual-band Wi-Fi with data rates up to 300 Mbps to solve the network overloading and signal interference problems of crowded Wi-Fi environments. The NWA3160-N 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 NWA3560-N and NWA3550-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.

ZyXEL green

NWA3000-N Series

802.11 a/b/g/n Unified Pro Access Point

Energy Efficient Ethernet

Effortless deployment with PoE, auto-discovery and auto-provisioning

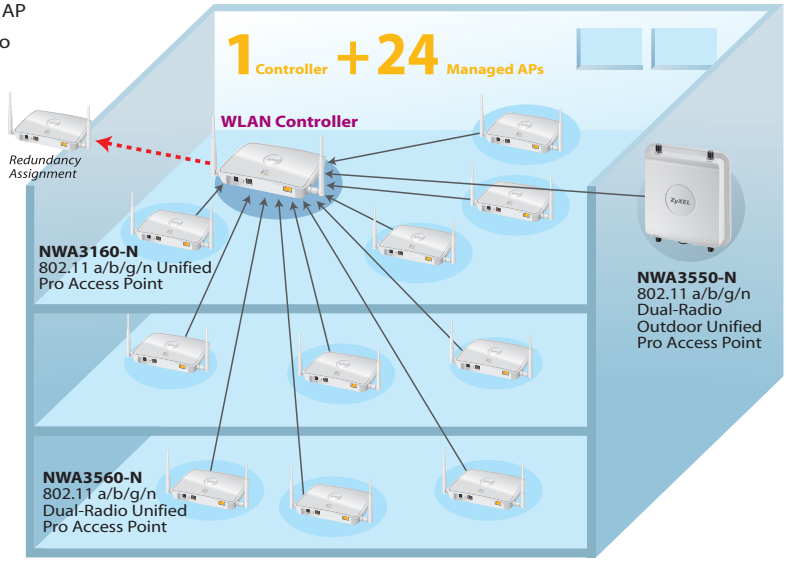
ZyXEL NWA3000-N Series Unified Pro APs provide a variety of features to make configuration and installation quick and effortless. With Power over Ethernet (PoE) support, all models in the NWA3000-N Series can be powered by PoE switches via Ethernet cable, which makes installation more flexible and eliminates the need to install electrical outlets near every access point. Once installed and powered up, NWA3000-N Series APs use the auto-discovery function to look for the controller and join the management group automatically. The auto-provisioning function enables secure, automatic provisioning to be established between the controller and the managed APs effortlessly.

Conveniently designed for SMB deployments

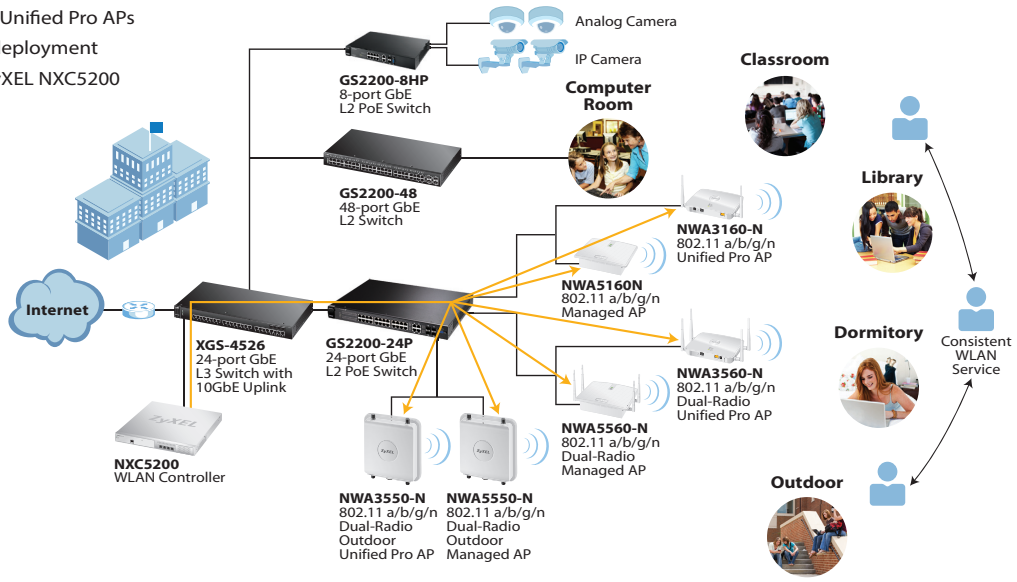
ZyXEL NWA3000-N Series Unified Pro APs provide enterprise-grade security for SMBs with WPA/WPA2-Enterprise authentication. NWA3000-N Series Unified Pro APs are also conveniently designed with embedded RADIUS servers that help SMBs save the expenses and maintenance effort on using standalone RADIUS servers. Additionally, all indoor models of the NWA3000-N Series adopt LSOH material and comply with the UL 2043 standard. These plenum-rated APs can be conveniently installed in plenum spaces, and would produce the least amount of toxic or corrosive smoke should a fire occur.

Application Diagram

An NWA3000-N Series Unified Pro AP in controller mode managing up to 24 NWA3000-N Series APs in managed mode.



NWA3000-N Series Unified Pro APs in a large campus deployment managed by the ZyXEL NXC5200 WLAN Controller.



Specifications

Model		NWA3160-N	NWA3560-N	NWA3550-N
Product name		802.11 a/b/g/n Unified Pro Access Point 	802.11 a/b/g/n Dual-Radio Unified Pro Access Point 	802.11 a/b/g/n Dual-Radio Outdoor Unified Pro Access Point 
Main Design				
Wireless frequency		2.4 GHz or 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz
Radio		1	2	2
Antenna		2 external dipole	4 external dipole	4 N-type connectors*
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)		
RF Specifications				
Frequency band	2.4 GHz (11 g/n)	USA: 2.412 to 2.462 GHz		
		ETSI: 2.412 to 2.472 GHz		
	5 GHz (11 a/n)	USA: 5.150 to 5.250 GHz; 5.725 to 5.850 GHz		
		ETSI: 5.15 to 5.35 GHz; 5.470 to 5.725 GHz		
Typical Transmit Output Power (Conducted)				
FCC	11 b/g	24 dBm	24 dBm	24 dBm
	11 g/n	21 dBm	21 dBm	21 dBm
	11a	21 dBm	21 dBm	21 dBm
	11 a/n	21 dBm	21 dBm	21 dBm
EU	11 b/g	17 dBm	17 dBm	17 dBm
	11 g/n	17 dBm	17 dBm	17 dBm
	11a	21 dBm	21 dBm	21 dBm
	11 a/n	21 dBm	21 dBm	21 dBm
LAN				
Number of 10/100/1000 Mbps LAN ports		1	1	1
PoE		Yes	Yes	Yes
PoE power draw		11 W	14 W	28 W
WLAN Features				
Maximum throughput		Up to 120 Mbps	Up to 140 Mbps	Up to 140 Mbps
WMM (Wi-Fi certified)		Yes	Yes	Yes
WEP		Yes	Yes	Yes
WPA/WPA2-PSK		Yes	Yes	Yes
WPA2 (Wi-Fi certified)		Yes	Yes	Yes
WPA/WPA2-Enterprise		Yes	Yes	Yes
EAP-TLS, TTLS, PEAP, SIM		Yes	Yes	Yes
Network				
VLANs		Yes	Yes	Yes
DHCP client		Yes	Yes	Yes
Security				
IEEE 802.1X		Yes	Yes	Yes
MAC filtering		Yes	Yes	Yes
RADIUS authentication		Yes	Yes	Yes
Embedded RADIUS server		Yes	Yes	Yes
EAP-type		EAP-TLS, EAP-TTLS, PEAP, SIM, FAST, AKA		
Rogue AP detection		Yes	Yes	Yes
Rogue AP containment		Yes	Yes	Yes
WLAN Management				
Controller mode		Yes	Yes	Yes
Standalone AP mode		Yes	Yes	Yes
Managed AP mode		Yes	Yes	Yes
CLI with SSH		Yes	Yes	Yes
Web UI with SSL		Yes	Yes	Yes
SNMP		Yes	Yes	Yes

ZyXEL

NWA3000-N Series

802.11 a/b/g/n Unified Pro Access Point

Model		NWA3160-N	NWA3560-N	NWA3550-N
Others				
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		
PoE		IEEE 802.3af, IEEE 802.3at		Propriatery
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		
Certification				
Radio		FCC Part 15C 15.247, FCC Part 15E, ETSI EN 300 328 V1.7.1 ETSI EN 301 893 V1.2.3: 08-2003, DGT LP0002		
EMC		FCC Part 15B (Class B) 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		PoE only
Physical Specifications				
Item	**Dimensions (WxDxH)(mm/in.)**	198 x 138 x 45/ 7.80 x 5.43 x 1.77	198 x 138 x 45/ 7.80 x 5.43 x 1.77	257 x 257 x 51/ 10.12 x 10.12 x 2.01
	Weight (g/lb.)	439/0.97	462/1.02	1,360/3.01
Packing	**Dimensions (WxDxH)(mm/in.)**	295 x 192 x 93/ 11.61 x 7.56 x 3.66	295 x 192 x 93/ 11.61 x 7.56 x 3.66	382 x 415 x 154/ 15.04 x 16.34 x 6.06
	Weight (g/lb.)	1,164/2.57	1,227/2.71	3,600/7.96
Environmental Specifications				
Operating environment	**Temperature**	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)
Storage environment	**Temperature**	-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)
MTBF (hr)		189,393	173,386	155,600

** Antennas separately sold*

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