ZyXEL

- **Higher bandwidth and superior performance with 802.11n**
- **3-in-1 hybrid AP WLAN including AP controller mode, managed AP mode and standalone AP mode**
- **Brand new centralized graphic management interface for up to 24 WLAN APs**
- **Back-up redundancy supported to provide reliable connection service**
- **Secured tunnels for communication between controller and managed AP to prevent leaking of configurations**
- **Enterprise-class AP functionalities with comprehensive configuration interfaces**
- **Built with Low Smoke, Zero Halogen (LSOH) materials for plenum rating for UL 2043 support**

NWA3000-N Series
802.11a/b/g/n
Business Access Point

The N-Generation Access Point Tailor-made for Growing SMB Needs

Ratification of IEEE 802.11n allows the technology to achieve good growth in commercial environments as it helps businesses to cope with challenges from increasingly complicated and bandwidth-hungry applications. In addition to enhancing throughput and coverage, the IEEE 802.11n standard offers the following benefits: elimination of bandwidth contention, future-proof support as well as accommodation for more users and floor space.

To catch up the wave of 802.11n, ZyXEL introduced the enterprise-level NWA3000-N Series Access Point (AP) to meet the requirement of the new "n generation". The new range provides various AP portfolios from single radio to concurrent radio, as well as dual-frequency APs (dual-band NWA3160-N, dual-radio NWA3560-N, and dual-radio outdoor NWA3550-N). Designed to meet the requirements of SMB market segment, the NWA3000-N Series is ideally suited for advanced service delivery on mission-critical networks.

Benefits

Fast, reliable 11n technology for future-proof access networks

Undoubtedly, mobility is the key to improve employee productivity and efficiency in all modern businesses as more and more bandwidth-consuming Web applications and mobile devices are involved in daily operations today. Beyond mobility, the ratified 11n technology allows faster (up to 300 Mbps) data rates and better network reliability that supports more users to accommodate business needs. As performance of 11n Wireless LAN has exceeded the speed of basic wired Ethernet, it turns out to be a more cost-effective option for businesses building or expanding access networks over investing on a large number of wired LAN switches.

No extra cost converting standalone AP into management WLAN architecture

The ZyXEL NWA3000-N Series is a "hybrid" AP that acts as a standalone AP infrastructure or a centralized management structure with controller mode and managed AP. The hybrid feature has full flexibility to deploy secure and reliable WLAN networks. In the initial phase constructing a WLAN, the NWA3000-N Series can be configured as a fully functional standalone AP; with more APs installed, the NWA3000-N Series can be set to the WLAN controller mode to manage the rest of APs. The scalability is able to manage up to 24 APs and it is also suitable for companies with a staff of 300-500.

ZyXEL

NWA3000-N Series
802.11a/b/g/n Business Access Point

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

In order to eliminate complicated configuration and installation processes, the NWA3000-N Series AP provides a variety of features to allow quick network deployments. All ranges of NWA3000-N Series APs comes with standard 802.3af or 802.3at PoE support that enables the APs to utilize the existing cabling and receive power from PoE switches. Once installed and powered up, the NWA3000-N Series AP automatically discovers the controller AP and join the management group; and secure automatic provisioning is established between the controller AP and the managed APs effortlessly.

SMB networks with best security, resilience and effective features

Small and medium-sized businesses usually have tighter equipment budgets and limited IT staff. With the NWA3000-N Series, the SMBs can take advantage of the flexibility to meet growing needs while building a future-proof office network. More than just WPA/WPA2 personal and enterprise certification, the NWA3000-N Series also features an embedded RADIUS server that saves expense and maintenance efforts by eliminating standalone RADIUS servers; the NWA3000-N Series also supports device HA to provide stable and reliable connections for non-stop productivity. All indoor units of the NWA3000-N Series adopt LSOH material for plenum spaces; in case of fire, the material would produce the least amount of toxic or corrosive smoke to avoid harming people around. With all the considerate design along with business AP features such as multiple SSID, the NWA3000-N Series AP is the smart and pragmatic choice for growing SMBs.

Specifications

Model			NWA3160-N	NWA3560-N	NWA3550-N
Product Name			802.11a/b/g/n Business AP	802.11a/b/g/n Dual-Radio Business AP	802.11a/b/g/n Dual-Radio Outdoor Business AP
Main Design					
Radio			1	2	2
Number of Antenna			2 external dipole	4 external dipole	4 N-type connectors*
Frequency Band	2.4 GHz (11g/n)		USA: 2.412 to 2.462 GHz		
			ETSI: 2.412 to 2.472 GHz		
	5 GHz (11a/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		
Maximum Output Power					
11b/g	54 Mbps		18 dBm	18 dBm	18 dBm
	6 Mbps		18 dBm	18 dBm	18 dBm
11g/n	20 MHz		15 dBm	15 dBm	15 dBm
	40 MHz		15 dBm	15 dBm	15 dBm
11a	54 Mbps		16 dBm	16 dBm	16 dBm
	6 Mbps		18 dBm	18 dBm	18 dBm
11a/n	20 MHz		18 dBm	18 dBm	18 dBm
	40 MHz		16 dBm	16 dBm	16 dBm
Wired Data Rates			10/100/1000 Mbps Auto-sensing (full-duplex switch)		
LAN					
Number of 10/100M LAN/Switch			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

Model	NWA3160-N	NWA3560-N	NWA3550-N
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
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		IEEE 802.3at
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)		FCC Part 15B (Class A) EN 301 489-17 V1.2.1: 08-2002 (Class A) EN 301 489-1 V1.5.1: 11-2004 (Class A)
Safety	EN 60950-1 (Class B) EN 60601-1-2: 2002 (Medical Electrical Equipment)(Class B)		EN 60950-1 (Class A) EN 60601-1-2: 2002 (Medical Electrical Equipment) (Class A)
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 x51/ 10.12 x 10.12 x 2.01
Item 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
Packing weight (g/lb.)	1,164/2.57	1,227/2.71	3,600/7.95
Environmental Specifications			
Operating temperature	0°C to 40°C/32°F to 104°F		-40°C to 60°C/-40°F to 140°F
Operating humidity	10% to 90% (Non-condensing)		10% to 90% (Non-condensing)
Storage temperature	-30°C to 70°C/-22°F to 158°F		-40°C to 70°C/-40°F to 158°F
Storage humidity	10% to 90% (Non-condensing)		10% to 90% (Non-condensing)

* Separately sold