ZyXEL

- Higher-bandwidth, higher density with full range of 802.11n Access Points (NWA5000-N Series)
- Comprehensive guest network management with auto guest account generator and Web authentication support
- Manage up to 240 APs with granular access control
- Centralized WLAN management on both configurations and data
- Flexibility supporting both distributed and tunneled data forwarding
- Strongest standard-based wireless security — WPA/WPA2 and AES encryption
- Built-in Firewall
- Built-in wireless intrusion detection, prevention and Anti-Virus

NXC5200/ NWA5000-N Series

Wireless LAN Controller/ 802.11 a/b/g/n Managed Access Point

Superior, Secure WLAN Experience for Distributed Enterprise and Campus

Today, businesses are facing continuous challenges providing wireless access to guests and mobile employees without compromising security. To fulfill this demand, ZyXEL develops an all-new Wireless LAN Controller Solution comprising of the NXC5200 WLAN Controller and NWA5000-N Series Managed Access Point (AP) in three models: the dual-band NWA5160N, the dual-radio NWA5560-N and, the dual-radio outdoor NWA5550-N. The solution is designed to deliver high-performance 11n Wireless to provide seamless mobility and security in medium- to large-scale campus and distributed enterprise environments.

The NXC5200 integrates ZyXEL's industry-leading ZyWALL Firewall features, such as Stateful Packet Inspection, to monitor data coming from mobile wireless users while the NWA5000-N Series works in conjunction with NXC5200 to deliver optimized performance and secure network services to remote branches or offices. The NXC5200 controller and NWA5000-N Series APs are ideally suited for advanced service delivery on wireless edge.

Benefits

Single-point management for scalable networks

This new, secure WLAN solution is based on the ZyXEL NXC5200 Wireless LAN Controller as well as the ZyXEL NWA5160N, NWA5560-N, and NWA5550-N Managed APs that scales up to 240 APs to provide comprehensive wireless coverage. Real-time functions such as data roaming, authentication and load balancing are performed on the NXC5200 while the NWA5160N, NWA5560-N, and NWA5550-N function strictly as signal converters. The major benefit is the centralized configuration independent of the number of available managed access points as long as there is an IP network available to the administrator.

Secure wireless edge to block threats from mobile users

Mobile users pose more critical threats to company networks than wired users. To address this, the NXC5200 comes with Firewall features such as stateful packet check to regulate data incoming from mobile users. In addition, the license-based Intrusion Detection and Prevention as well as Anti-Virus functions also allow the NXC5200 to act as a gatekeeper on the network edge to block potential threats.

ZyXEL keeps the best-of-breed technology and provides strong industry-standard WLAN security with WPA/WPA2-enterprise authentication and a variety of Extensible Authentication Protocol (EAP) supports. The NWA5000-N Series can relieve businesses from critical WLAN security concerns.

NXC5200/ NWA5000-N Series

Wireless LAN Controller/ 802.11 a/b/g/n Managed Access Point

Full performance without concerns

The prevalence of 11n wireless networks is putting the capacity of traditional controllers to the test. Fortunately, the NXC5200 is designed to relieve the concerns for IT staff – the high-performance system pumps data through each virtual AP, and it can be configured to bridge locally or enter the NXC5200 WLAN controller for better management. With this feature, the NXC5200 and the NWA5000-N Series can offload the network burden while allowing users to enjoy the 11n wireless performance.

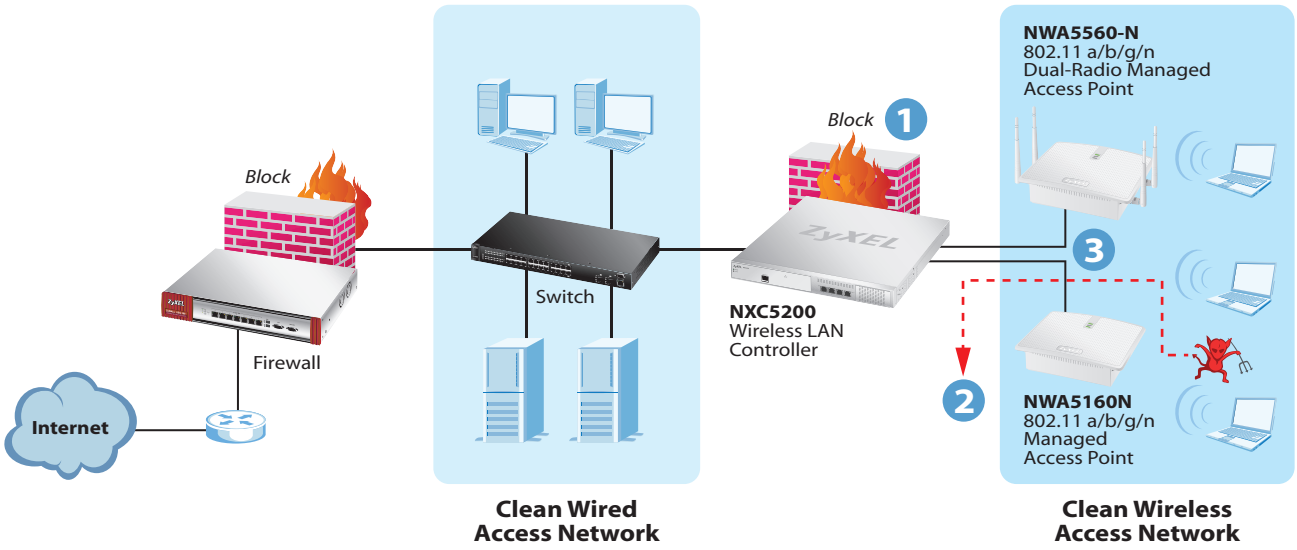
Zero-configuration construction for minimized provisioning efforts

Centralized administration simplifies planning significantly. The NXC5200 and the NWA5000-N Series are designed to enable easy deployment and instant provisioning. After carrying out a site survey, the user can place the NWA5000-N Series managed APs on the most suitable spots; the NWA5000-N Series will automatically look for the NXC5200 to establish connections, and then the pre-defined configuration will be applied to the NWA5000-N Series to complete the deployment. The NWA5000-N Series supports the 802.3af or 802.3at Power over Ethernet (PoE) standard to utilize the Ethernet cable for minimized cabling construction. The ZyXEL NXC5200 and the NWA5000-N Series can provide simplified installation in addition to better Wi-Fi experience.

Easy, comprehensive guest network management

To IT administrators, one of the major concerns is to deploy a WLAN infrastructures with flexible guess access while providing internal users a separated secure network at the same time. The NXC5200 and NWA5000-N Series feature end-to-end guest network solutions to provide a guest account generator and Web authentication functions. The guest account generator allows dynamic user accounts to be created as soon as the guests check into the front desk for minimized IT management efforts. The Web authentication function provides an easy way to identify guest users and it also works with the embedded firewall policies to segregate guest traffics from the internal users to maintain a clean, safe wireless infrastructure. The ZyXEL NXC5200 and NWA5000-N Series can eliminate concerns for IT administrators while providing the best Wi-Fi coverage at the same time. It is an ideal and secure choice for business Wi-Fi deployments.

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

NXC5200/ NWA5000-N Series

Wireless LAN Controller/ 802.11 a/b/g/n Managed Access Point

Specifications

Model		NWA5160N	NWA5560-N	NWA5550-N	NXC5200
Product Name		802.11 a/b/g/n Managed Access Point	802.11 a/b/g/n Dual-Radio Managed Access Point	802.11 a/b/g/n Dual-Radio Outdoor Managed Access Point	Wireless LAN Controller
Main Design					
Radio		1	2	2	-
Number of Antenna		Embedded antenna	4 external dipole	4 N-type connectors*1	-
Frequency Band	2.4 GHz (11g/n)	USA (FCC): 2.412 to 2.462 GHz; Europe (ETSI): 2.412 to 2.472 GHz			-
	5 GHz (11a/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 Output Power					
11b/g	54 Mbps	17 dBm	17 dBm	17 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 10/100/1000M LAN		1	1	1	Default: 4, Expansion: 4*2
PoE		Yes	Yes	Yes	-
PoE Power Draw		12 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	Yes
WEP		Yes	Yes	Yes	Yes
WPA/WPA2-PSK		Yes	Yes	Yes	Yes
WPA2 (Wi-Fi Certified)		Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise		Yes	Yes	Yes	Yes
Security Features					
IEEE 802.1x		-	-	-	Yes
Web Authentication		-	-	-	Yes
MAC Filtering		-	-	-	Yes
RADIUS Authentication		-	-	-	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

Model	NWA5160N	NWA5560-N	NWA5550-N	NXC5200
Network				
VLANs	Yes	Yes	Yes	Yes
DHCP Client	Yes	Yes	Yes	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 page	-	-	-	Yes
QoS				
WMM	Yes	Yes	Yes	Yes
WMM Power Save	Yes	Yes	Yes	Yes
DiffServ Marking	-	-	-	Yes
AP Load Balancing	-	-	-	Yes
Application Patrol	-	-	-	Yes
Management Features				
CLI with SSH	Yes	Yes	Yes	Yes
Web UI with SSL	-	-	-	Yes
SNMP	-	-	-	Yes
Multi-level administration roles	-	-	-	Yes
Administrator authentication via RADIUS server	-	-	-	Yes
Others				
Plenum Rating	Yes	Yes	-	-
Kensington Lock Support	Yes	Yes	-	-
Packet captured on Wired and Wireless	-	-	-	Yes
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			
PoE	IEEE 802.3af, IEEE 802.3at		Proprietary	-
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 (Class B) EN 300 328 V1.7.1, EN 301 893 V1.2.3:08-2003, DGT LP0002 (Class B)			-
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)			

Model		NWA5160N	NWA5560-N	NWA5550-N	NXC5200
Power Requirement					
Power supply		12 VDC @1.5 Amp Maximum	12 VDC @1.5 Amp Maximum	PoE only	100 - 240 VAC, 50/60 Hz
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	431 x 520 x 44/ 16.96 x 20.47 x 1.73
	Weight (kg/lb.)	0.766/1.69	0.805/1.77	1.360/3.01	12/26.46
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	644 x 561 x 183/ 25.35 x 22.09 x 7.20
	Weight (kg/lb.)	1.56/3.44	1.586/3.50	3.6/7.95	14/30.86
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	0°C to 40°C/ 32°F to 104°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		-40°C to 70°C/ -40°F to 158°F	-30°C to 70°C/ -22°F to 158°F
	Humidity	10% to 90% (Non-condensing)		10% to 90% (Non-condensing)	10% to 90% (Non-condensing)

**1: Separated sold*
**2: Default: 4-port RJ-45 GbE with expansion slot for 4-port RJ-45/SFP GbE*

Ordering Information

License

Feature	Please Order
Managed AP Scalability The NXC5200 Managed AP License is a service that enables the flexibility to increase the number of 5000 Series WLAN APs in service.The maximum number of managed APs supported is 240.	E-iCard 12 AP NXC5200 E-iCard 48 AP NXC5200
Intrusion Detection and Prevention (IDP) The NXC5200 Intrusion Detection/Prevention service is an easy-to-manage, signature-based feature that mitigates threats from the ever-evolving attacks and exploits.	E-iCard 1 YR IDP NXC5200 E-iCard 2 YR IDP NXC5200
Anti-Virus (AV) The NXC5200 Anti-Virus service is an easy-to-manage, signature-based feature that stops virus/spyware from entering your network.	E-iCard 1YR ZyXEL AV NXC5200 E-iCard 2YR ZyXEL AV NXC5200 E-iCard 1YR Kaspersky AV NXC5200 E-iCard 2YR Kaspersky AV NXC5200

Accessory

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

For more product information, visit us on the web at www.ZyXEL.com

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