



NWA1123ACv3

802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point

Introducing the new hybrid access point

The Zyxel Hybrid series allows devices like the NWA1123ACv3 to be used in two modes by utilizing Zyxel's **NebulaFlex™**; you are able to easily switch between standalone and our license free Nebula cloud management platform, anytime, with a few simple clicks.

By allowing the two different modes, you are able to protect your investment in wireless technology by having the flexibility to benefit from the cloud in your own time, without the need to worry about additional ongoing licensing costs.

When used with Nebula you are able to centrally manage, access real-time network information and gain effortless control over the NWA1123ACv3 and other Hybrid and Nebula devices, all under a single intuitive platform without the need to install any software or add additional equipment like a controller.

Not ready for the cloud... Just yet?

For those of you who are not ready for the cloud, the NWA1123ACv3 offers a standalone mode, allowing you to setup each AP via its local user-friendly web interface and setup wizard. The wizard will quickly guide you through the initial setup and have your AP up and running in minutes. Additionally you can manage and monitor the AP via traditional SNMP methods that you may have already in place. The NWA1123ACv3 is also part of the Zyxel One Network. This means that you can use the complimentary Zyxel One Network Utility to help with repetitive operations during deployment.

NebulaFlex™ gives you the flexibility to switch between standalone and our License Free Nebula cloud management



Next generation beamforming technology delivers maximum coverage



802.11ac 2x2 Wave 2 — supporting combined data rate of up to 1.2 Gbps



Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks



Robust build quality including solid-state capacitors to ensure long life and operational reliability



What to benefit from Cloud central management?

When you're ready to join our Nebula cloud management solution, simply register your NWA1123ACv3 via Nebula Control Center and the device will automatically join, auto provision and begin to give real-time information. The intuitive platform allows you to group your access points together, control centrally, gain access to diagnostics tools and additional features like captive portal all under a single platform.

The Nebula platform has no limits to how many access points can be added, giving you an easy to use, scalable platform that you can access anytime, anywhere.

RF First – high performance and reliable connections through design

With Zyxel's innovative design and commitment to "RF First" for high performance and reliable connections through design, the NWA1123ACv3 delivers increased coverage and improved connection speeds for every client.

When designing an access point, every hardware design element including the layout and the antenna are all taken into account to ensure that we lead with user experience and gain not only in coverage but also in performance that maximizes the experience in the real world.



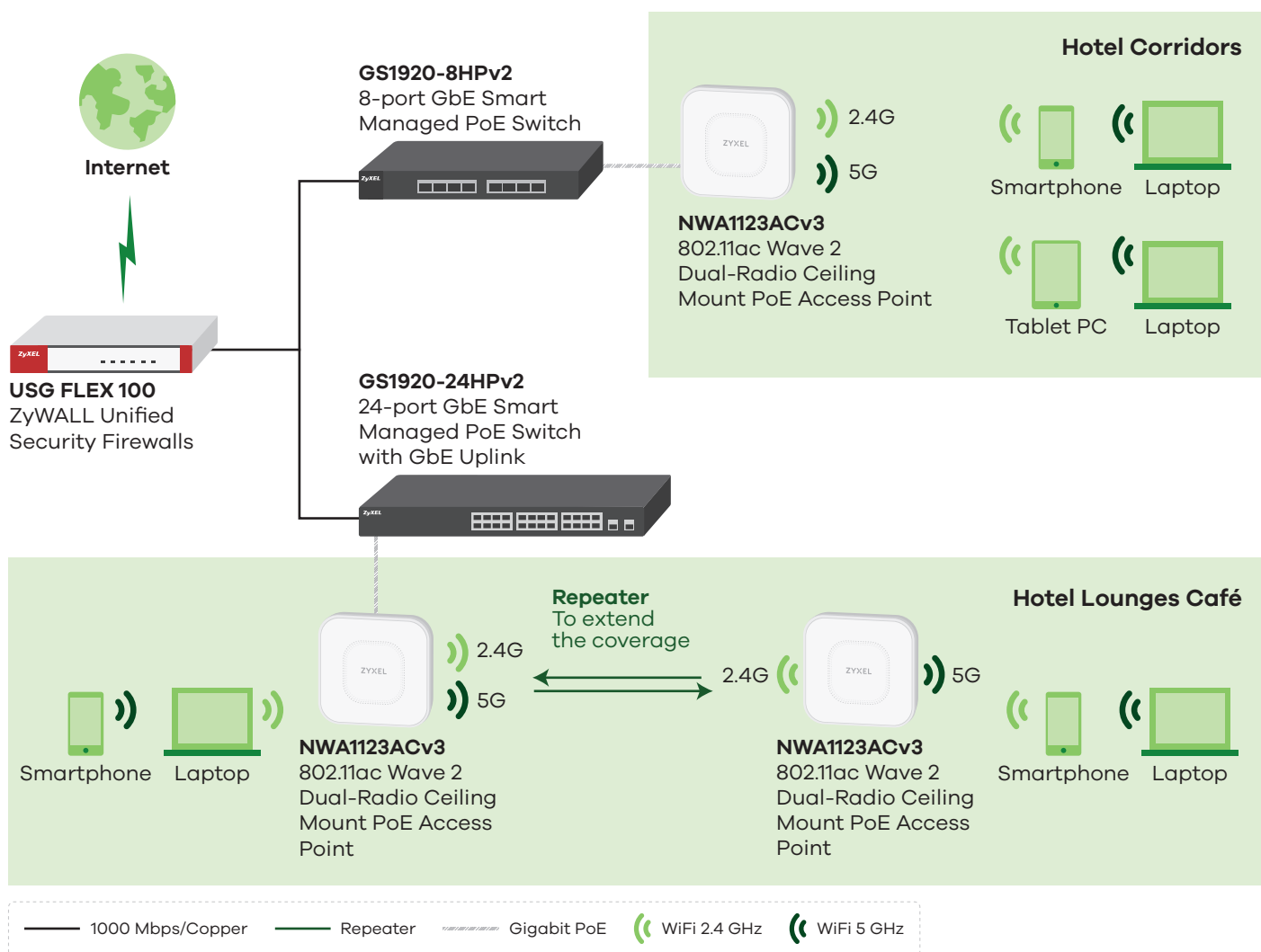
Wireless built for user experience

The NWA1123ACv3 ensures an optimized wireless experience for users by combining wireless technologies like Dynamic Channel Selection (DCS), Load Balancing, beamforming technology. DCS minimizes the interference of co-channel and overlapping channels, while Load Balancing enables administrators to easily set limits on the number of clients associated with each AP. The second generation transmit beamforming technology incorporating Low End Sensitivity Improvements and Time Domain Channel Smoothing allowing data rates to increase for not only MU-MIMO clients, but for all existing ones as well. These advanced functions ensure that users can enjoy a smooth, consistent and uninterrupted wireless experience.

Flexible operating modes

The NWA1123ACv3 not only offers two different styles of management via **NebulaFlex™** (cloud or standalone), but also offers the ability of smart mesh in cloud and WDS in standalone to extend wireless connectivity in challenging locations by wirelessly bridging the devices together without the need to use cables.

Applications Diagram



Specifications

Model		NWA1123ACv3
Product name		802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point
		
Wireless		
Standard		IEEE802.11 ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4 GHz	300Mbps
	5 GHz	866Mbps
Frequency band	2.4 GHz	<ul style="list-style-type: none"> USA (FCC): 2.412 to 2.462 GHz Europe (ETSI): 2.412 to 2.472 GHz
	5 GHz	<ul style="list-style-type: none"> USA (FCC): 5.15 to 5.25 GHz; 5.725 to 5.850 GHz European (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz

Model		NWA1123ACv3
Wireless		
Bandwidth		20-, 40- and 80-MHz
Conducted typical transmit output power*1 (limited by local regulatory requirements)	US (2.4GHz/5GHz)	23/23dBm
	EU (2.4GHz/5GHz)	19/23dBm
RF Design		
Antenna type		2x2 MIMO Embedded Antenna
Antenna gain	2.4 GHz	3 dBi
	5 GHz	4 dBi
Minimum receive sensitivity		up to -99 dBm
WLAN feature		
Band Steering		Yes
WDS/ Mesh*2		Yes
Fast roaming		Pre-authentication, PMK caching and 802.11r/k/v
DCS		Yes
Load balancing		Yes
Security		
encryption		WEP/ WPA/WPA2-PSK/WPA3
authentication		WPA/WPA2-Enterprise/ EAP/ IEEE 802.1X/ RADIUS authentication
Access management		L2-isolation/ MAC filtering
Networking		
IPv6		Yes
VLANs		Yes
WMM		Yes
U-APSD		Yes
DiffServ marking		Yes
Management		
Operating mode		Cloud managed / standalone
ZON Utility		<ul style="list-style-type: none"> • Discovery of Zyxel switches, APs and gateways • Centralized and batch configurations <ul style="list-style-type: none"> ▪ IP configuration ▪ IP renew ▪ Device reboot ▪ Device locating ▪ Web GUI access ▪ Firmware upgrade ▪ Password configuration
Zyxel Wireless Optimizer		<ul style="list-style-type: none"> • WiFi AP planning • WiFi coverage detection • Wireless health management
Web UI/ CLI		Yes
SNMP		Yes
Physical Specifications		
Item	Dimensions (WxDxH) (mm/in.)	140 x 140 x 37.5 / 5.51 x 5.51 x 1.48
	Weight (kg/lb.)	249/0.55
Packing	Dimensions (WxDxH) (mm/in.)	240 x 155 x 60 / 9.45 x 6.10 x 2.36
	Weight (kg/lb.)	560 / 1.23
Included accessories		<ul style="list-style-type: none"> • Power adapter • Ceiling-mount plate
MTBF(hr)		630,794

*1: Conducted typical transmit output power excludes antenna gain. For total (EIRP) transmit power, add antenna gain.

*2: WDS, ZyMesh, Smart Mesh and Industry's Open Mesh, Easy Mesh are different mesh systems that do not work with one another.

Model		NWA1123ACv3
Physical Interfaces		
Ethernet port	1x 10/100/1000M LAN	
Power	<ul style="list-style-type: none"> • Input: AC 100 - 240V - 50/60 Hz 0.3A; Output: DC +12V 1A • PoE (802.3af): power draw 11 W 	
Environmental Specifications		
Operating	Temperature	0°C to 50°C/32°F to 122°F
	Humidity	10% to 90% (non-condensing)
Storage	Temperature	-40°C to 70°C/-40°F to 158°F
	Humidity	10% to 90% (non-condensing)
Certifications		
Radio	FCC Part 15C, FCC Part 15E; ETSI EN 300 328, EN 301 893; LP0002, EN 60601-1-2	
EMC	FCC Part 15B, EN 301 489-1; EN 301 489-17, EN55022, EN55024, EN61000-3-2/-3, BSMI CNS13438	
Safety	EN 60950-1, IEC 60950-1; BSMI CNS14336-1	

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