ZYXEL





NWA1123-ACv2

802.11ac Dual-Radio Ceiling Mount PoE Access Point

Introducing the new hybrid access point

The Zyxel Hybrid series allows devices like the NWA1123-ACv2 to be used in two modes by utilizing Zyxel's **NebulaFlexTM**; 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 NWA1123-ACv2 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 NWA1123-ACv2 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 you up running in minutes. Additionally you can manage and monitor the AP via traditional SNMP methods that you may have already in place. The NWA1123-ACv2 is also is 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



Nebula cloud management allows easy deployment, real-time configurations and access to all your access points anytime with



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



Compact ceiling-mount design with optimized RF performance



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 NWA1123-ACv2* 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.

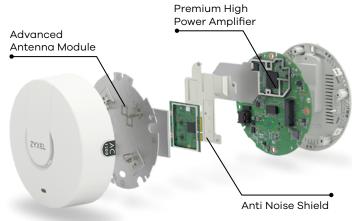
*: Requires 5.20 version of firmware



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 NWA1123-ACv2 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 NWA1123-ACv2 ensures an optimized wireless experience for users by combining wireless technologies like Dynamic Channel Selection (DCS), Load Balancing. 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. These advanced functions ensure that users can enjoy a smooth, consistent and uninterrupted wireless experience.

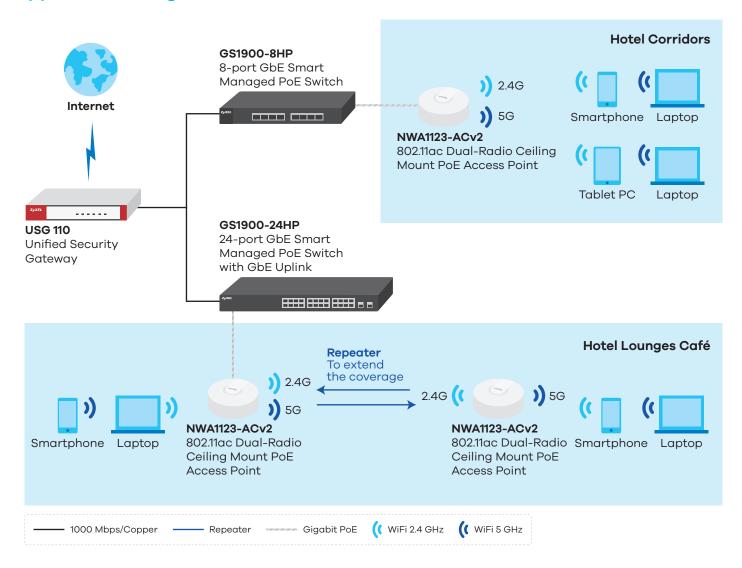
Flexible operating modes

The NWA1123-ACv2 not only offers two different styles of management via **NebulaFlexTM** (cloud or standalone). The NWA1123-ACv2 also offers the ability to use the AP as a repeater/root-AP*1 compatibility with Zyxel's Unified Pro Series and Unified Series APs*2. By taking advantage of these features, users can extend wireless connectivity to challenging locations by wirelessly bridging the devices together without the need to use cables.

^{*1:} Access point must be in standalone mode

^{*2:} For standalone series AP, NWA1123-ACv2 is only compatible with NWA1123-AC PRO.

Applications Diagram



Specifications

Product name 802.11ac Dual-Radio Ceiling Mount PoE Access Point	
TYPEL)	

		POVEL		
Main Design				
Wireless freque	ency	2.4 GHz & 5 GHz		
Radio		2		
RF Specification	ons			
Frequency 2.4 GHz		• 2.4 GHz (IEEE 802.11 b/g/n)		
band		• USA (FCC): 2.412 to 2.462 GHz		
		• Europe (ETSI): 2.412 to 2.472 GHz		
	5 GHz	• 5 GHz (IEEE 802.11 a/n/ac)	250 011	
		• USA (FCC): 5.15 to 5.35 GHz; 5.725 to 5.850 GHz		
00044		• Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to		
802.11 premium	reatures	 2x2 multiple-input multiple-output (MIMO) with two spatial streams 	 Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 	
		Maximal ratio combining (MRC)	Cyclic Delay diversity (CSD) support	
		• 20-, 40- and 80-MHz channels	Maximum Likelihood Demodulation (MLD)	
		PHY data rates total up to 300 Mbps	support	
		(11n) + 866 Mbps (11ac)	Low Density Parity Check (LDPC) support	
Conducted	US (FCC) 2.4 GHz	23 dBm, 2 antennas		
typical	US (FCC) 5 GHz	26 dBm, 2 antennas		
transmit	EU (ETSI) 2.4 GHz	20 dBm, 2 antennas		
output power*1	EU (ETSI) 5 GHz	26 dBm, 2 antennas		
Number of antenna		2T2R MIMO		
Antenna gain	2.4 GHz	3 dBi		
	5 GHz	4 dBi		
Support data rate		• 802.11a/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)		
		• 802.11ac:up to 866 Mbps in MCS9 (80 MHz; 2 spatial Streams; GI=400 ns)		
Receive sensiti	vity	2.4 GHz	5 GHz	
		• 802.11b/g, min. up to -99 dBm	• 802.11a, min. up to -95 dBm	
		• 802.11n/20 MHz, min93 dBm	• 802.11ac/n/20 MHz, min94 dBm	
		• 802.11n/40 MHz, min. up to -88 dBm	• 802.11ac/n/40 MHz, min92 dBm	
LAN			• 802.11ac/80 MHz, min89 dBm	
LAN	00/1000M LAN	1		
PoE	OU/ IOOOM LAN	Yes		
PoE power dra	•	9W		
WLAN Security		900		
WEP		Yes		
WPA/WPA2-PS	V	Yes		
WPA/WPA2-PS		Yes		
EAP type	terprise	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM		
WMM		WiFi compliant		
IEEE 802.1X		·		
Number of multiple SSID		Yes 16		
MAC filtering		Yes		
L2 Isolation		**		
RADIUS auther	ationtion	Yes, multiple profile		
KADIOS dutner	itication	Yes		

^{*1:} Maximum output power is limited by regional regulatory.

Network				
IPv6 support		Yes		
VLANs		Yes		
DHCP client		Yes		
Zyxel One Net	work			
ZON Utility		 Discovery of Zyxel switche 	s, APs and gateways	
		Centralized and batch cor		
		 IP configuration 	• Web GUI access	
		■ IP renew	Firmware upgrade	
		Device reboot	Password configuration	
		Device locating	One-click quick association with Zyxel AP	
			Configurator (ZAC)	
Management				
ZAC*2		Batch AP configuration		
		Batch AP firmware upgrad	de	
Standalone AF	Danada	Batch AP profile backup		
	- moae	Yes		
CLI		Yes, SSH		
SNMP		Yes		
Others		· ·		
Plenum rating		Yes	2011 004	
Power supply		• Input: AC 100 - 240V - 50/60 Hz 0.3A		
MTBF (hr)		• Output: DC +12V 1A 1,241,824		
Standard Com	apliance	1,241,024		
Ethernet	ipilatice	IEEE 802 3 IEEE 802 311 IEEE	590211ac IEEE 9023az IEEE 9023af	
WLAN		IEEE 802.3, IEEE 802.3u, IEEE802.11ac, IEEE 802.3az, IEEE 802.3af • 802.11b: DBPSK, DQPSK, CCK		
WLAN		• 802.11g: BPSK, QPSK, 16-QAM, 64-QAM		
		• 802.11a: BPSK, QPSK, 16-QAM, 64-QAM		
		• 802.11n: BPSK, QPSK, 16-QAM, 64-QAM		
		• 802.11ac: BPSK, QPSK, 64-	QAM, 256-QAM	
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 CNS1	3438	
Safety		EN 60950-1, IEC 60950-1; BS	SMI CNS14336-1	
Physical Spec				
Item	Dimensions	130 x 130 x 54.7/5.12 x 5.12 x 2	.17	
	(WxDxH)(mm/in.)			
	Weight (g/lb.)	300/0.67		
Packing	Dimensions	278 x 209 x 72/10.94 x 8.23 x	2.83	
	(WxDxH)(mm/in.)	700/454		
Weight (g/lb.) Included accessories		700/1.54		
		Power adapterWall/Ceiling-mount plate		
Environmente	l Specifications	• wan/cening-mount plate		
Operating	Temperature	0°C to 50°C/32°F to 122°F		
environment	Humidity		(a)	
		10% to 90% (non-condensing -30°C to 70°C/-22°F to 158°F	-	
Storage environment	Temperature			
	Humidity	10% to 90% (non-condensir	97	

 $^{^*}$ 2: Support from ZAC Utility V1.1.3 or above; only support in standalone mode.

Weather-Proof Mounting Option

Outdoor Enclosure

People like to enjoy the combination of great view, fresh air and WiFi service when they're outdoors. This weather-resistant enclosure brings the Zyxel indoor AP outdoors to make deployments in places such as parks, campus, poolside or camping yard convenient and affordable. This enclosure allows the AP to be easily mounted on any wall or pole. The durable enclosure is designed to withstand a wide range of temperature from 50°C to -20°C, waterproof the APs with IPX5 rating certified and extend lifespan with the UV stabilized plastic, which makes it the most reliable weatherproof enclosure.

Features

- Compatible with various APs including unified, cloud-managed and standalone units
- Wide operating temperature range from 50°C to -20°C
- Compact size easily blends into any environment seamlessly
- UV stabilized plastic extends enclosure lifetime
- Flexible mount design for wall mount, or pole mount installation with pole mount kit (sold separately)
- IPX5 rating makes Zyxel indoor AP weatherproof





Wall mount installation

Pole mount installation

Specifications

Model	Enclosure
Dimensions (WxDxH)(mm/in.)	238.54 x 249.72 x 86.97/9.39 x 9.83 x 3.42
Weight (kg/lb.)	0.64/1.4
Mounting options Wall, pole (pole mount kit is sold separately)	
Certified	IPX5
Adjustability	Swivel +/-40°; Tilt +/-15°



Compatibility List

Model

- NWA1123-ACv2
- NWA5121-NI
- NWA5123-AC
- NAP102
- NWA1123-AC PRO
- WAC6103D-I
- NAP203

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