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 **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 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.

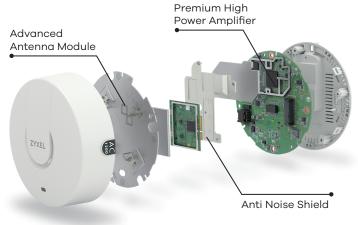
* Requires 5.20 version of firmware



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

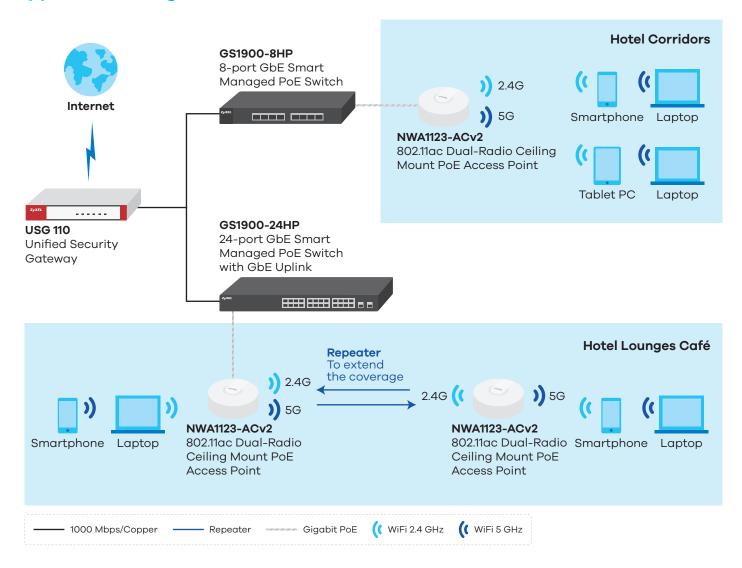
The NWA1123-ACv2 ensures an optimized wireless experience for users by combining wireless technologies like Dynamic Channel Selection (DCS), Load Balancing. DCS minimizes the interference of co-channel and overlapping channels, while Load Balancing enables administrators to easily set limits on the number 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 **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.*

* Compatible with all Zyxel access points, excluding Wave 2 AP, WAC5302D-S and NWA1302-AC.

Applications Diagram



Specifications

Model	NWA1123-ACv2
Product name	802.11ac Dual-Radio Ceiling Mount PoE Access Point
	(FOOL)

		•	
Main Design			
	nev	2.4 GHz & 5 GHz	
Wireless frequency Radio		2	
RF Specification	ne e		
	2.4 GHz	• 2.4 GHz (IEEE 802.11 b/g/n)	• Europe (ETSI): 2.412 to 2.472 GHz
Frequency band	2.4 GHZ	• USA (FCC): 2.412 to 2.462 GHz	·
	5 GHz	5 GHz (IEEE 802.11 a/n/ac)USA (FCC): 5.15 to 5.35 GHz;5.725 to 5.850 GHz	• Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz
802.11 premium	features	 2x2 multiple-input multiple-output (MIMO) with two spatial streams Maximal ratio combining (MRC) 20-, 40- and 80-MHz channels PHY data rates total up to 300 Mbps (11n) + 866 Mbps (11ac) 	 Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) Cyclic Delay diversity (CSD) support Maximum Likelihood Demodulation (MLD) support 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 ante		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 sensitivity		2.4 GHz • 802.11b/g, min. up to -99 dBm • 802.11n/20 MHz, min93 dBm • 802.11n/40 MHz, min. up to -88 dBm	5 GHz • 802.11a, min. up to -95 dBm • 802.11ac/n/20 MHz, min94 dBm • 802.11ac/n/40 MHz, min92 dBm • 802.11ac/80 MHz, min89 dBm
LAN			
Number of 10/10	0/1000M LAN	1	
PoE		Yes	
PoE power draw		9 W	
WLAN Features			
Smart mesh*2		Yes	
Mesh AP for mu	tiple SSID with VLAN*2	Yes	
Fast Roaming*2		Pre-authentication, PMK caching and 802.11 r/k/v	
DCS (Dynamic Channel Selection)		Yes	
Load Balancing		Yes	
WLAN Security			
WEP		Yes	
WPA/WPA2-PSK		Yes	
WPA/WPA2-Ente		Yes	
		EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	
EAP type		WiFi compliant	
*1. Maximum autout	power is limited by regional re	Yes	
	power is limited by regional re		

^{*1:} Maximum output power is limited by regional regulatory.
*2: Work in Nebula cloud management mode.

WLAN Security	V		
Number of mul		16	
MAC filtering	לוסט סוקה.	Yes	
L2 isolation		Yes, multiple profile	
RADIUS auther	ntication	Yes	
Network	itication		
IPv6 support		Yes	
VLANs		Yes	
DHCP client		Yes	
	work	res	
Zyxel One Network		Discovery of Zwel switches ADs and autoways	
ZON Utility		Discovery of Zyxel switches, APs and gateways	
		Centralized and batch configurations	
		IP configuration Web GUI access Firmware ungrade	
		 IP renew Pirmware upgrade Password configuration 	
		 Device repoot Password configuration One-click quick association with Zyxel AP 	
		Configurator (ZAC)	
Management			
ZAC*3		Batch AP configuration	
		Batch AP firmware upgrade	
		Batch AP profile backup	
Standalone AP	o mode	Yes	
CLI		Yes, SSH	
SNMP		Yes	
Others			
Plenum rating		Yes	
Power supply		• Input: AC 100 - 240 V - 50/60 Hz 0.3 A	
,		• Output: DC +12 V 1 A	
MTBF (hr)		1,241,824	
Standard Com	pliance		
Ethernet		IEEE 802.3, IEEE 802.3u, IEEE 802.11ac, IEEE 802.3az, IEEE 802.3af	
WLAN		• 802.11b: DBPSK, DQPSK, CCK	
		• 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 CNS13438	
Safety	<i>c</i> :	EN 60950-1, IEC 60950-1; BSMI CNS14336-1	
Physical Speci		100 100 517/510 510 017	
Item	Dimensions	130 x 130 x 54.7/5.12 x 5.12 x 2.17	
	(WxDxH)(mm/in.)	000/0.67	
Dealise	Weight (g/lb.)	300/0.67	
Packing	Dimensions	278 x 209 x 72/10.94 x 8.23 x 2.83	
	(WxDxH)(mm/in.)	700/154	
In almala di ere e co	Weight (g/lb.)	700/1.54	
Included acces	ssories	Power adapter Wall/Ceiling-mount plate	
Environmentel	Specifications	Wall/Ceiling-mount plate	
	Specifications	0°C +o F0°C/20°E +o 100°E	
Operating environment	Temperature	0°C to 50°C/32°F to 122°F	
	Humidity	10% to 90% (non-condensing)	
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	
environment	Humidity	10% to 90% (non-condensing)	

^{*3:} 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 weatherresistant 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, cloudmanaged 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

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



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

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