ZYXEL

NWA1302-AC

802.11ac Wall-Plate PoE Access Point

The Zyxel NWA1302-AC has been designed for per-room deployment scenarios. It turns a RJ45 outlet box into not only a wireless access point to provide WiFi services, but also a Gigabit switch with PoE to power smart TV or VoIP devices to establish the last-mile network services. Featuring **NebulaFlex™**, the NWA1302-AC can be managed through the Web GUI or license-free Nebula cloud management platform.

Benefits

Versatile mounting options

The low profile and versatile mounting design of the Zyxel NWA1302-AC make it a perfect choice for per-room deployments. It easily blends into tasteful decorations and can be mounted directly on the outlet box or any obscure locations – or simply on your desktop. For the best look, the Ethernet cable and coaxial cable can run out from the cable channel to keep NWA1302-AC slim and fit in a limited space.

Welcome your guest with high-speed WiFi

Designed for per-room deployments, NWA1302-AC features smart antenna and beamforming to dynamically change signal directions to provide superb performance for each individual client. Zyxel's smart antenna has been proved to be the best solution to mitigate interference from neighboring APs wherever it is mounted. The NWA1302-AC promises users with enjoyable, ubiquitous HD streaming experience on their mobile devices.

Provides wireless, wired and PoE connectivity with 802.11ac as well as a built-in Gigabit switch

Compact design with a unique cable channel makes it to fit into all mounting places and saves space

NebulaFlex™ gives the flexibility to switch between standalone and license-free Nebula cloud management

Equipped with smart antenna proven to mitigate interference from neighboring APs

Enterprise-class 2x2 802.11ac AP supporting combined data rates of up to 1.2 Gbps

Three downlink Gigabit Ethernet ports, including one with PoE to power VoIP phones or other devices

nebula

Zyxel**one** network
Redefining network integration

Extending modern in-room connectivity with a box

Nowadays, people demand wired switches to support smart TV, VoIP and high-speed Internet access in hotel rooms, meeting rooms and studios. As a result, rooms are filled with cables and switches that require more investment and are difficult to maintain. Let's keep the budget and cabling efforts to the minimum. More than just a WiFi AP, the Zyxel NWA1302-AC has three local Gigabit Ethernet ports to securely attach wired devices, in which a PoE port powers the attached devices without the need for electric outlets and power cables.
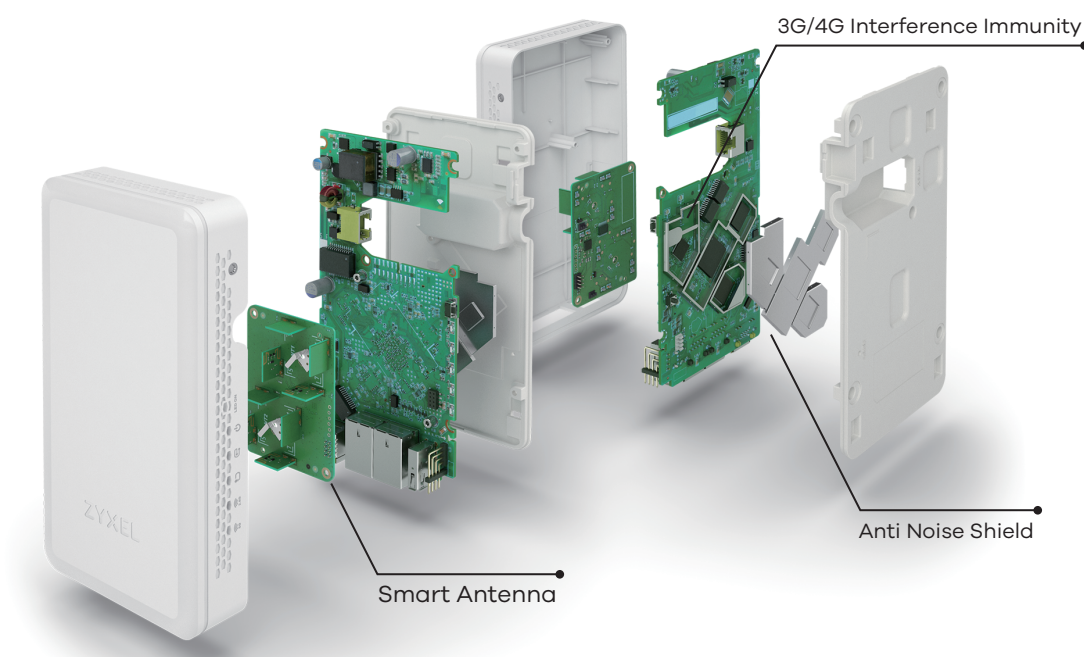
Manage it your way! – Switch easily between standalone and cloud management

Taking advantage of **NebulaFlex™**, the NWA1302-AC can be managed as a traditional standalone AP or a Nebula cloud managed AP. You can switch easily between two management platforms for different application scenarios with only a few simple clicks–no need to pay any extra fee. With the remote and real-time management capability, Zyxel's Nebula cloud center allows you to configure devices before unboxing and even monitors networks in all branches conveniently in your own office.

RF First – high-performance, reliable connections through design

When the access point is being designed, every detail is taken into account to ensure the best user experience. With Zyxel's commitment to RF first for high-performance, reliable connection, the NWA1302-AC adopts optimized RF solutions, including noise shield and smart antenna, to provide great user experience even in challenging environments as hotel rooms.

3G/4G Interference Immunity

Anti Noise Shield

Smart Antenna

Specifications

Model	NWA1302-AC
Product name	802.11ac Wall-Plate PoE Access Point

Wireless

Standard		IEEE 802.11 ac/n/g/b/a
MIMO		SU-MIMO
Peak speed	**2.4 GHz**	300 Mbps
	5 GHz	866 Mbps
Frequency band	**2.4 GHz (IEEE 802.11 b/g/n)**	• USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 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
Bandwidth		20-, 40- and 80-MHz
Conducted typical transmit output power	**US (2.4 GHz/5 GHz)**	18/19 dBm
	EU (2.4 GHz/5 GHz)	17/19 dBm

RF Design

Antenna type		2x2 MIMO smart antenna
Antenna gain	**2.4 GHz**	5 dBi
	5 GHz	5 dBi
Minimum receive sensitivity		Min. Rx sensitivity up to -98 dBm

WLAN Features

Fast Roaming	Pre-authentication, PMK caching and 802.11 r/k/v
DCS (Dynamic Channel Selection)	Yes
Load Balancing	Yes

Security

Encryption	WEP/WPA/WPA2-PSK
Authentication	WPA/WPA2-Enterprise/EAP/IEEE 802.1X/RADIUS authentication
Access management	L2-isolation/MAC filtering

Networking

IPv6	Yes
VLANs	Yes
WMM	Yes

Management

Operating mode	Cloud managed/standalone

ZON Utility	• Discovery of Zyxel switches, APs and gateways
	• Centralized and batch configurations
	  ▪ IP configuration ▪ Firmware upgrade
	  ▪ IP renew ▪ Password configuration
	  ▪ Device reboot ▪ One-click quick association with
	  ▪ Device locating Zyxel AP Configurator (ZAC)
	  ▪ Web GUI access

ZAC	• Batch AP configuration • Batch AP firmware upgrade • Batch AP profile backup
Web UI/CLI	Yes
SNMP	Yes

Physical Specifications

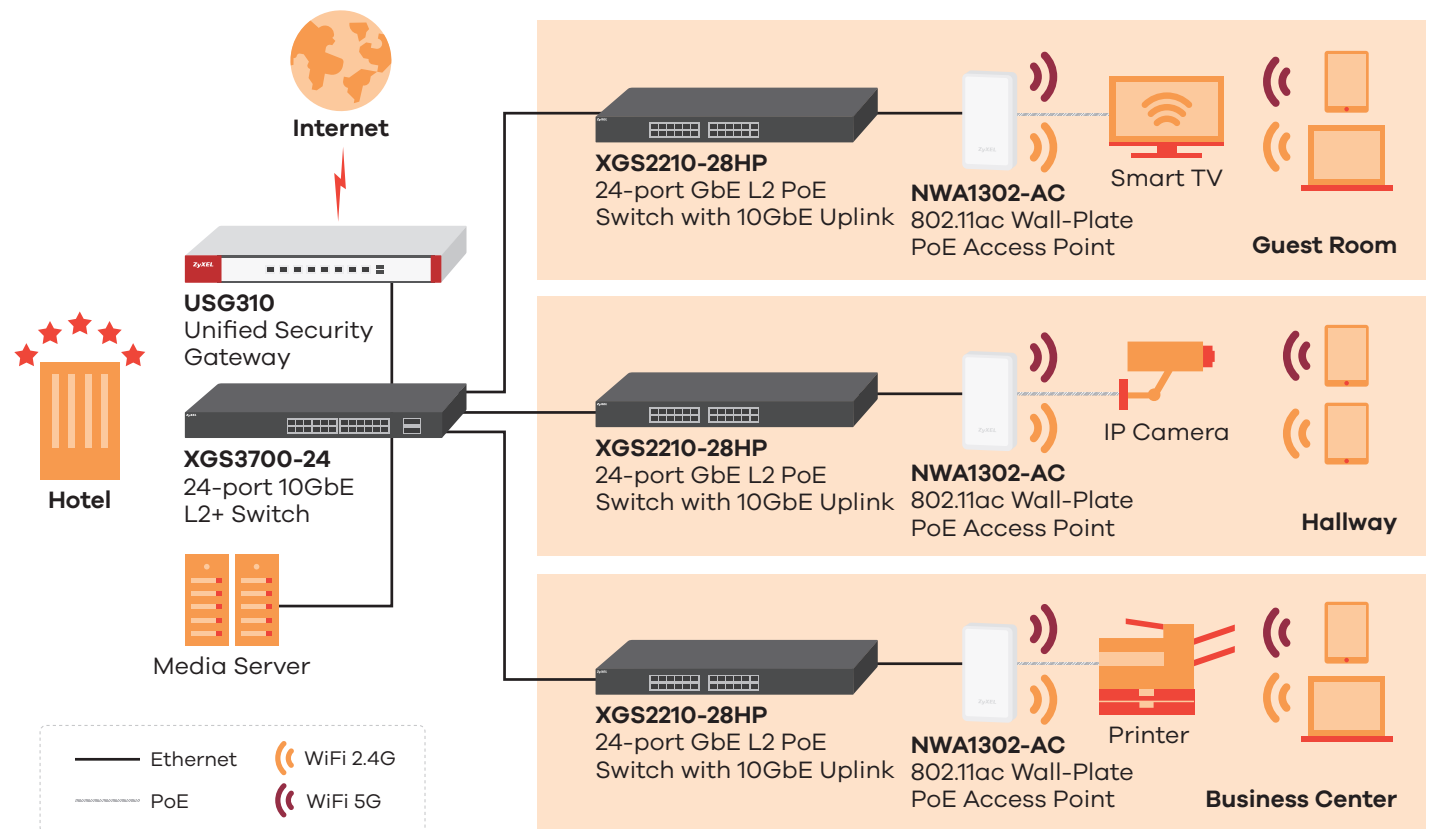| Item	Dimensions (WxDxH)(mm/in.)	90 x 170 x 29/3.54 x 6.69 x 1.14
	Weight (kg/lb.)	0.32/0.71
Packing	Dimensions (WxDxH)(mm/in.)	190 x 110 x 55/7.48 x 4.33 x 2.16
	Weight (kg/lb.)	0.54/1.19
Included accessories		Multi-purpose mounting bracket with screws
MTBF (hr)		809,263
Ethernet port		1 x 10/100/1000M uplink 3 x 10/100/1000M downlink (including on PoE PSE)
Power		• 802.3at PoE: 20 W (include 7 W for PoE PSE) • 802.3af PoE: 12 W (PoE PSE disabled)

Environmental Specifications

Operating environment	Temperature	0°C to 50°C/32°F to 122°F
	Humidity	10% to 95% (non-condensing)
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)

Certifications

Radio	ETSI EN 300 328, FCC Part 15C, LP0002, EN 60601-1-2
EMC	EN 301 489-1, EN 301 489-17, EN55022, EN55024, EN61000-3-2/-3, FCC Part B, BSMI CNS13438
Safety	EN 60950-1, IEC 60950-1, BSMI CNS14336-1

Application Diagram

Internet

USG310
Unified Security Gateway

Hotel

XGS3700-24
24-port 10GbE
L2+ Switch

Media Server

XGS2210-28HP
24-port GbE L2 PoE
Switch with 10GbE Uplink

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Smart TV

Guest Room

XGS2210-28HP
24-port GbE L2 PoE
Switch with 10GbE Uplink

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IP Camera

Hallway

XGS2210-28HP
24-port GbE L2 PoE
Switch with 10GbE Uplink

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Printer

Business Center

— Ethernet ((WiFi 2.4G
··· PoE ((WiFi 5G

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Datasheet NWA1302-AC