



WAC5302D-Sv2

802.11ac Dual-Radio Unified Access Point

Today's business and leisure travelers expect to connect high-speed WiFi when stepping into a hotel and would consider internet connectivity the top amenity. Most travelers won't hesitate to report bad WiFi experience and bother to come back again. So do you want a breakout rating in TripAdvisor? The Zyxel WAC5302D-Sv2 802.11ac Dual-Radio Unified Access Point is an adaptive WiFi and Switch for hotels. It features smart antenna and beamforming to optimize RF as well as three downlink Gigabit Ethernet ports – one of which has PoE function to power up in-room services such as a VoIP phone. More importantly, the WAC5302D-Sv2 can be easily mounted on outlet boxes, wall, or desk without the need for any additional mounting kit.

Benefits

Versatile mounting options in hotel guest rooms

The Zyxel WAC5302D-Sv2' low profile and versatile mounting design make it a perfect choice for hotel guest rooms. It easily blends into tasteful decorations and can be mounted directly on an outlet box or any obscure locations, even simply on desktop. For the best aesthetics, the Ethernet cable and coaxial cable can run out from the cable channel that keeps WAC5302D-Sv2 slim and fit in a limited space.



Clever wired and wireless network solution for individual hotel guest rooms



The world's first wall-plate AP design that can be mounted on wall plates or directly in anywhere



Equipped with smart antenna which is proven able 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 for VoIP phones or other devices



Next generation beamforming technology delivers maximum coverage

Welcome your guest with high-speed WiFi

Greet every guest with easy log-in and flicker-free WiFi is as important as warm smiles. Designed for hotel guest rooms, the Zyxel WAC5302D-Sv2 features smart antenna and beamforming to dynamically change the signal direction to provide superb performance for each individual client. Zyxel smart antenna has been proven the best solution to mitigate interference from neighboring APs next door wherever it is mounted. The WAC5302D-Sv2 promises hotel guests with enjoyable, ubiquitous HD streaming experience on their mobile devices.

Extending modern in-room services with a box

Nowadays, hotels provide guests with a range of in-room services including smart TV, VoIP and network for home-like comfort. To achieve this, each room has many cables and switches that require more investment and are difficult to maintain. Let's keep the budget and cabling effort to the minimum. More than just a Wi-Fi AP serving high-speed networks, the Zyxel WAC5302D-Sv2 has three local Gigabit Ethernet ports to securely attach wired devices while one of these ports supplies PoE power to the attached devices without the need for electric outlets and power cables.

NebulaFlex Pro—simply manage it your way!

The NebulaFlex Pro provides extended flexibility, allowing users to easily switch among standalone, on-promises controller or our intuitive NCC (Nebula Control Center) modes any time according to your needs without additional cost while protecting wireless technology investments. The privilege of one-year professional pack you can get once upon registration on Nebula includes wireless health, site-wide topology, 365-day statistics on the devices and clients monitoring along with more upcoming advanced features on NCC and its App.

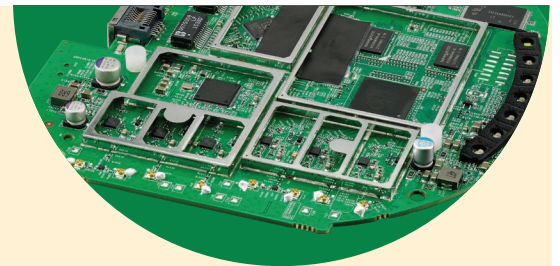
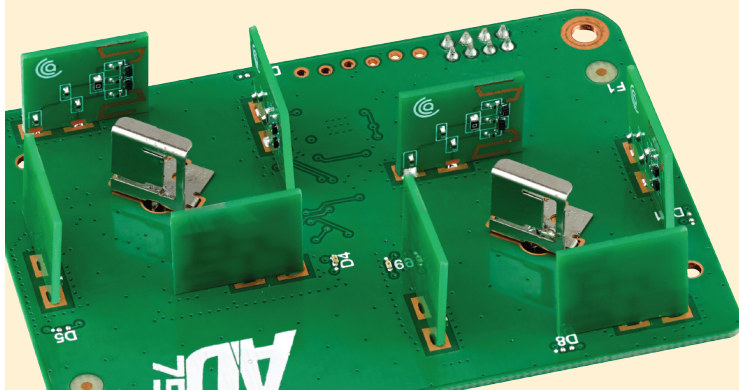
Zyxel one network experience

Aiming for relieving our customers from repetitive operations of deploying and managing a network, Zyxel one network is designed to simplify the configuration, management, and troubleshooting, allowing our customers to focus on the business priorities. Zyxel one network presents an easy-to-use tool, Zyxel one network Utility (ZON Utility), to realize speed network setup. Zyxel Smart Connect allows Zyxel networking equipment to be aware and recognize each other and further facilitating the network maintenance via one-click remote functions such as factory reset or power cycling. Zyxel One Network redefines the network integration across multiple networking products from switch to WiFi AP and to Gateway.

Robust Hardware

Robust, reliable hardware

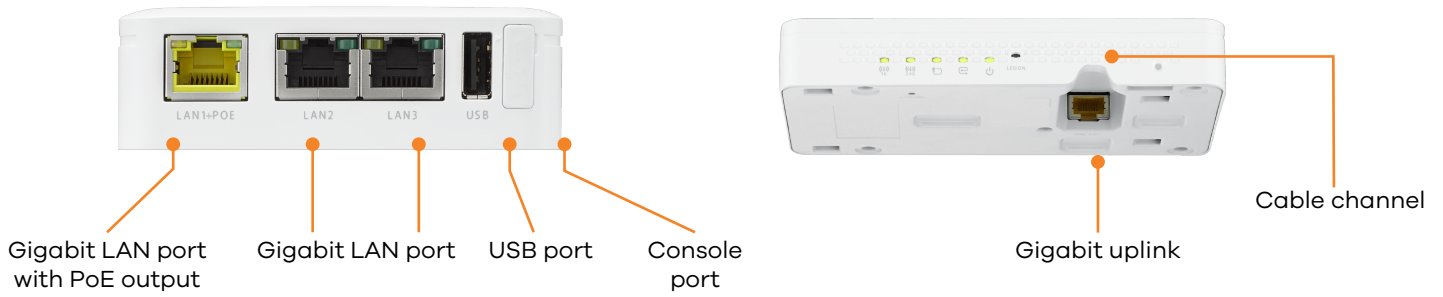
Ordered shielding frames prevent electromagnetic interference, while covers manage heat through thermal pads to mitigate overheating.



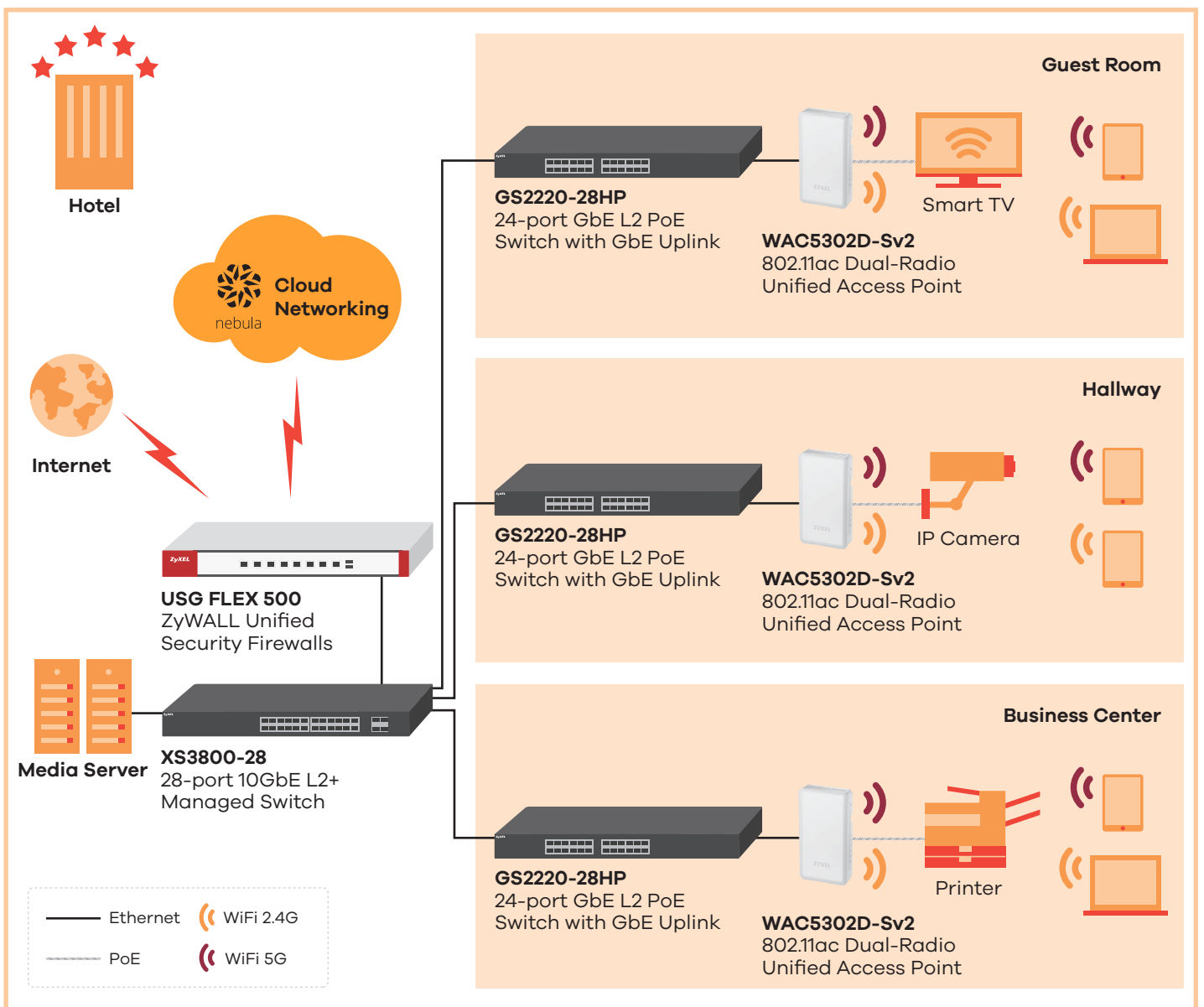
Zyxel Smart Antenna

With smart antenna and beamforming, WAC5302D-Sv2 is the best choice for an AP per room deployment. Zyxel smart antenna was proven an effective solution to fight co-channel interference and ensure flicker-free streaming experience to every user.

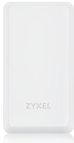
Ports and LED Indicators



Application Diagram



Specifications

Model	WAC5302D-Sv2	
Product name	802.11ac Dual-Radio Unified 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
Bandwidth	20-, 40- and 80-MHz	
Conducted typical transmit output power*1 (limited by local regulatory requirements)	US (2.4GHz/5GHz)	18/19dBm
	EU (2.4GHz/5GHz)	17/19dBm
RF Design		
Antenna type	2x2 MIMO Smart Antenna	
Antenna gain	2.4GHz	5 dBi
	5GHz	5 dBi
Minimum receive sensitivity	up to -98 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 Authentication	WEP/ WPA/WPA2-PSK/WPA/WPA2-Enterprise/ EAP/ IEEE 802.1X/ RADIUS authentication/	
Access management	L2-isolation/ MAC filtering/ Rogue AP detection	
Networking		
IPv6	Yes	
VLANs	Yes	
WMM	Yes	
U-APSD	Yes	
DiffServ marking	Yes	

*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		WAC5302D-Sv2
Management		
Operating mode	Nebula Cloud managed/controller-managed / standalone	
Access	<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"> • Wi-Fi AP planning • Wi-Fi coverage detection • Wireless health management 	
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 (g/lb.)	0.32 / 0.71
Packing	Dimensions (WxDxH)(mm/in.)	190 x 110 x 55/7.48 x 4.33 x 2.16
	Weight (g/lb.)	0.54 / 1.19
Included accessories	<ul style="list-style-type: none"> • Mount plate • Mounting screws 	
MTBF(hr)	809,263	
Physical Interfaces		
Ethernet port	1x 10/100/1000M uplink 3x 10/100/1000M downlink(including on PoE PSE)	
Power	<ul style="list-style-type: none"> • 802.3at (Full mode include 7W PoE PSE; power draw 20W) • 802.3af (Full mode but PoE PSE disabled; power draw 12W) 	
Environmental Specifications		
Operating	Temperature	0°C to 50°C/32°F to 122°F
	Humidity	10% to 90% (non-condensing)
Operating	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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