



WAC5302D-S

802.11ac Wall-Plate Unified Access Point

Today's business and leisure travelers expect to connect high-speed Wi-Fi when stepping into a hotel and would consider internet connectivity the top amenity. Most travelers won't hesitate to report bad Wi-Fi experience and bother to come back again. So do you want a breakout rating in TripAdvisor? The Zyxel WAC5302D-S 802.11ac Wall-Plate Unified Access Point is an adaptive Wi-Fi 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 smart TV and VoIP. More importantly, the WAC5302D-S 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-S' 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-S slim and fit in a limited space.

Welcome your guest with high-speed Wi-Fi

Greet every guest with easy log-in and flicker-free Wi-Fi is as important as warm smiles. Designed for hotel guest rooms, the Zyxel WAC5302D-S 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-S



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



Zyxel **one** network

Redefining network integration

promises hotel guests with enjoyable, ubiquitous HD streaming experience on their mobile devices.

Extending modern in-room services with a box

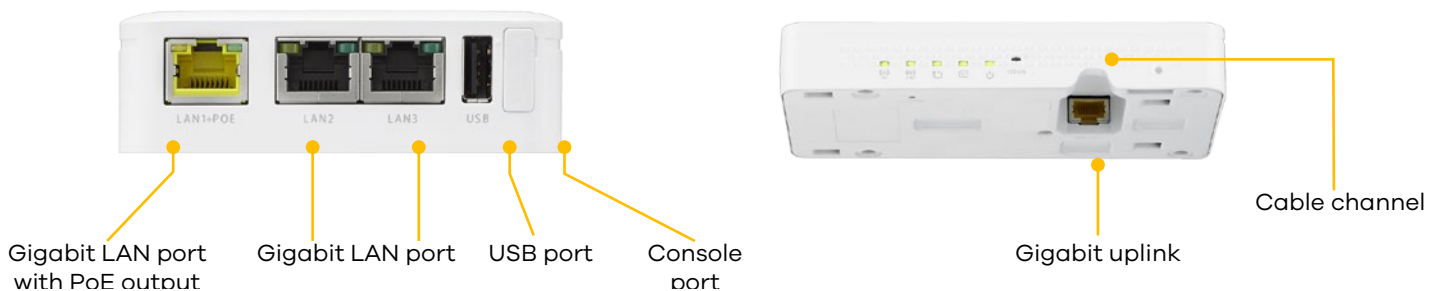
Nowadays, hotels provide guests with a range of in-room services including smart TV, VoIP and network for home-like comfort. To achieve this, each room has many cables and switches that require more investment and are difficult to maintain. Let's keep the budget and cabling effort to the minimum. More than just a Wi-Fi AP serving high-speed networks, the Zyxel WAC5302D-S 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.

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*1 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 Wi-Fi AP and to Gateway.

*1: Zyxel Smart Connect is supported on selected models. Please refer to the specifications for more details.

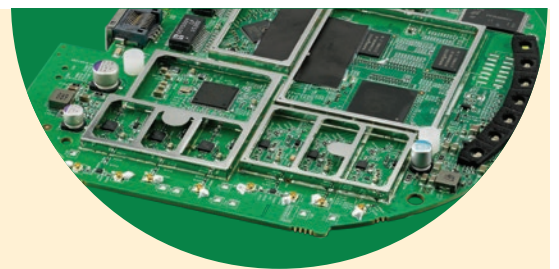
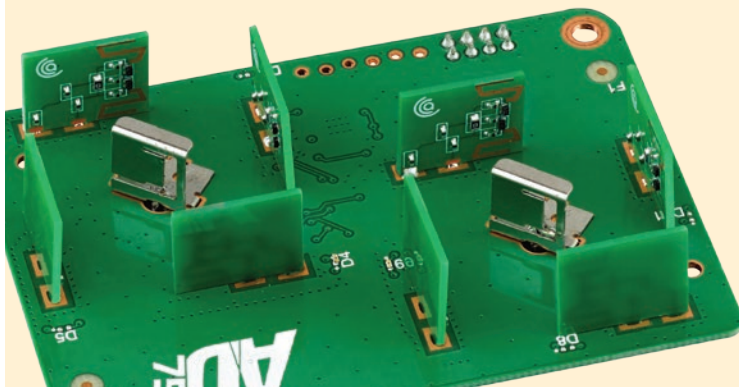
Ports and LED Indicators



Robust Hardware

Robust, reliable hardware

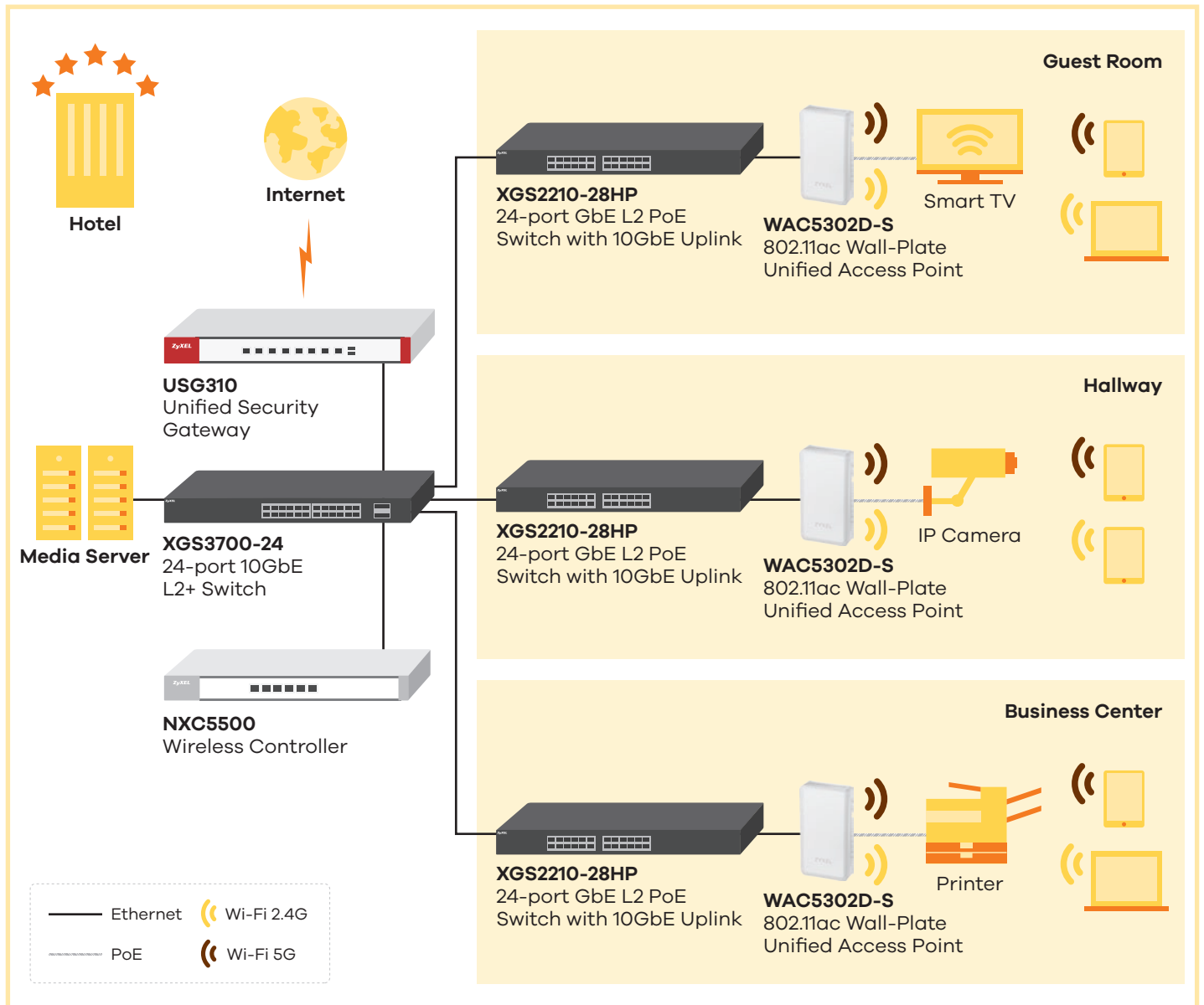
Ordered shielding frames prevent electromagnetic interference, while covers manage heat through thermal pads to mitigate overheating.




Zyxel Smart Antenna

With smart antenna and beamforming, WAC5302D-S 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.

Application Diagram



Specifications

Model	WAC5302D-S	
Product name	802.11ac Wall-Plate Unified Access Point	
		
Main Design		
Wireless frequency	2.4 GHz & 5 GHz	
Radio	2	
Antenna	Embedded 2x2	
RF Specifications		
Frequency band	2.4 GHz (11 g/n)	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 (11 a/n/ac)	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 • Taiwan (TW): 5.15 to 5.35 GHz; 5.725 to 5.850 GHz
802.11n/ac premium features	<ul style="list-style-type: none"> • 2x2 Multiple-Input Multiple-Output (MIMO) with two spatial streams • Maximal Ratio Combining (MRC) • 20-, 40- and 80-MHz channels • PHY data rates up to 300 + 866 Mbps 	<ul style="list-style-type: none"> • Transmit Beamforming (TxBF) support • Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) • Cyclic Delay Diversity (CSD) support
Conducted typical transmit output power	US (FCC) 2.4 GHz	18 dBm, 2 antennas
	US (FCC) 5 GHz	19 dBm, 2 antennas
	EU (ETSI) 2.4 GHz	17 dBm, 2 antennas
	EU (ETSI) 5 GHz	19 dBm, 2 antennas
Antenna gain	5 dBi/5 dBi	
Support data rate	802.11 a/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	Min. Rx sensitivity to -98 dBm	
LAN		
Number of LAN ports	Uplink	1 x 100/1000 Mbps POE port (PD)
	Downlink	3 x 100/1000 Mbps RJ-45 (including one PoE PSE)
PoE	Yes	
PoE power draw	• 802.3at PoE: 20W (include 7W for PoE PSE)	• 802.3af PoE: 12W (PoE PSE disabled)
WLAN Features		
WEP	Yes	
WPA/WPA2-PSK	Yes	
WPA2	Yes	
WPA/WPA2-Enterprise	Yes	
Fast roaming	Pre-authentication and PMK caching	
EAP types	TLS, TTLS, PEAP, FAST, AKA and SIM	
Number of multiple SSID	16	
IEEE 802.1x	Yes	
MAC filtering	Yes	
WDS/Mesh	Yes	

* Work with ZAC v.1.1.2 or later

Model	WAC5302D-S	
WLAN Feature2		
Layer-2 isolation	Yes, multiple profiles	
RADIUS authentication	Yes	
Network		
VLANs	Yes	
DHCP client	Yes	
QoS		
WMM	Yes	
WMM power saving	Yes	
Heat dissipation (BTU/hr)	81.9	
Zyxel One Network		
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 ▪ One-click quick association with Zyxel AP Configurator (ZAC) 	
Smart Connect	<ul style="list-style-type: none"> • Discover neighboring devices • One-click remote management access to the neighboring Zyxel devices 	
Management		
ZAC*	<ul style="list-style-type: none"> • Batch AP configuration • Batch AP firmware upgrade • Batch AP profile backup 	
Standalone AP Mode	Yes	
Managed AP Mode	Yes	
CLI	Yes	
Web GUI	Yes	
SNMP	Yes	
Certification		
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	
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	
Environmental Specifications		
Operating	Temperature	0°C to 50°C/32°F to 122°F
	Humidity	10% to 95% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)
MTBF (hr)	809,263	

*: Work with ZAC v.1.1.2 or later

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Your Networking Ally

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

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Datasheet [WAC5302D-S](#)



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