# ZYXEL





# 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 nook out of sight, 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 any nook or cranny



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



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 homelike 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<sup>\*1</sup> 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**

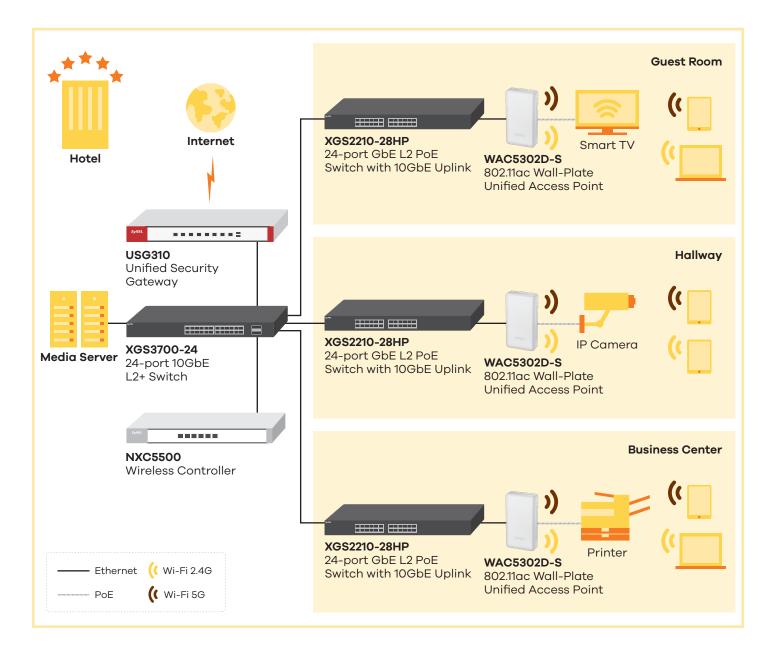
# Robust, reliable hardware Ordered shielding frames prevent electromagnetic interference, while covers manage heat through thermal pads to mitigate overheating. . . . . **Zyxel Smart Antenna** smart antenna was proven an effective solution to fight streaming experience to every user.

With smart antenna and beamforming, WAC5302D-S is the best choice for an AP per room deployment. Zyxel

co-channel interference and ensure flicker-free

Datasheet WAC5302D-S

### **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			
<b>RF Specificatio</b>	ons				
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> <li>2x2 Multiple-Input Multiple-Output (MIMO) with two spatial streams</li> <li>Maximal Ratio Combining (MRC)</li> <li>20-, 40- and 80-MHz channels</li> <li>PHY data rates up to 300 + 866 Mbps</li> <li>Transmit Beamforming (TxBF) support</li> <li>Pracket aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>Cyclic Delay Diversity (CSD) support</li> </ul>			
Conducted	US (FCC) 2.4 GHz	18 dBm, 2 antennas			
typical transmit	US (FCC) 5 GHz	19 dBm, 2 antennas			
	EU (ETSI) 2.4 GHz	17 dBm, 2 antennas			
output power	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	Uplink	1 x 100/1000 Mbps POE port (PD)			
LAN ports	Downlink	3 x 100/1000 Mbps RJ-45 (including one PoE PSE)			
PoE Yes		Yes			
PoE power draw		• 802.3at PoE: 20W (include 7W for PoE • 802.3af PoE: 12W (PoE PSE disabled) PSE)			
WLAN Features	S				
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			

Model		WAC5302D-S				
WLAN Featu	ires					
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 N	etwork					
ZON Utility		<ul><li>Discovery of Zyxel switches, APs and gateways</li><li>Centralized and batch configurations</li></ul>				
		<ul> <li>IP configuration</li> <li>IP renew</li> <li>Device reboot</li> <li>Device locating</li> </ul>	<ul> <li>Web GUI access</li> <li>Firmware upgrade</li> <li>Password configuration</li> </ul>	<ul> <li>One-click quick association with Zyxel AP Configurator (ZAC)</li> </ul>		
Smart Connect		<ul> <li>Discover neighboring devices</li> <li>One-click remote management access to the neighboring Zyxel devices</li> </ul>				
Managemer	nt					
ZAC*		<ul> <li>Batch AP configuration</li> <li>Batch AP firmware upgrade</li> <li>Batch AP profile backup</li> </ul>				
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-conder	nsing)			
MTBF (hr)		809,263				

\* Work with ZAC v.1.1.2 or later



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

Copyright © 2017 Zyxel Communications Corp. All rights reserved. Zyxel, Zyxel logo are registered trademarks of Zyxel Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.



