WIS-EAP530P-WALL

OVERVIEW

WIS-EAP530P-WALL is an 11ax Wi-Fi qualcomm Chipset in-wall Access Point support MU-MIMO, Wave2.0, OFDMA and Seamless Roaming.Combined 3000Mbps Wi-Fi speed over 2 radios: 2.4GHz (600Mbps 11ax 2*2) + 5GHz (3000Mbps 2*2), equipped Gigabit WAN port, support MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate and more users, then multiple users can upload or download multiple packets at same time,narrower subcarrier spacing and longer symbol time,improved the stability and data processing efficiency, publicly to be used in high density access environment such as university campus,Educational institute, hotel Industries etc.

FEATURES

- WiFi 6 standard, dual-band 3000Mbps wireless rate
- 2×2 (2.4GHz) + 2×2 (5GHz), a total of 4 streams
- Provides 1×Gigabit WAN port + 4×Gigabit LAN ports + 1×USB port
- 1 pair of network pass-through ports, support 1 to 1 network port transparent transmission, LAN1 port supports PoE output
- Support 48V standard PoE power supply, fat and thin in one
- Support cloud platform/APP operation and maintenance, easy to maintain

MU-MIMO, Wave2.0 Technology

Comply with Wave2.0 Technology,it adopt 256QAM modulation,support MU-MIMO (Multi-User Multiple-Input Multiple-Output) greatly to improved the communication efficiency.

Power over Ethernet

WIS-AP530P- Wall has integrated active Power over Ethernet (PoE), for easy installation and lower cost. So it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure. Pls note, the default is 48V IEEE 802.3af PoE.

WIS Solution

EDUCATION
High -Density WI-FI

OFFICE
Wireless & Wired Connection

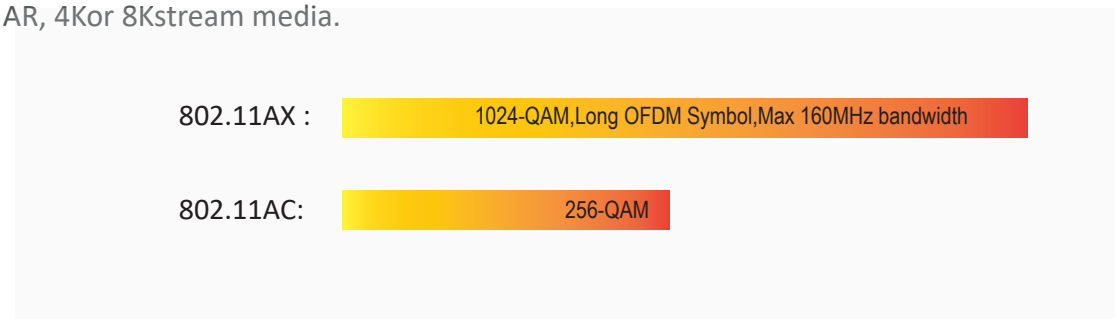
HOSPITALITY
High Quality and Full Coverage Wi-FI

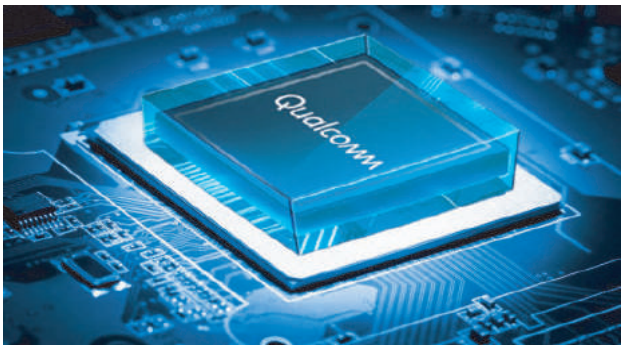
RETAIL
Soical Marketing

CATERING
Full Wi-Fi Coverage in High- Density Enviironment

Main Features

Wireless data rate up to 3Gbps. 802.11ax support 1024QAM, long OFDMsymbol, 160M bandwidth and 11ax 2x2 MIMO technology, the wireless data rate up to 2.4Gbps, meet with demand of high-speed applications such as VR/ AR, 4Kor 8Kstream media.





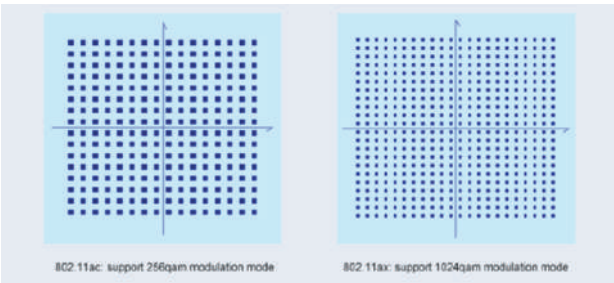
Superior performance guarantee

WIS-EAP530P-Wall with Qualcomm industrial chipset and adapt to intelligent channel analysis technology chosse the less Wi-Fi interference channel makes wireless transmission faster and more stable.

High Speed | An Interference | Low Latency | Stable Performance

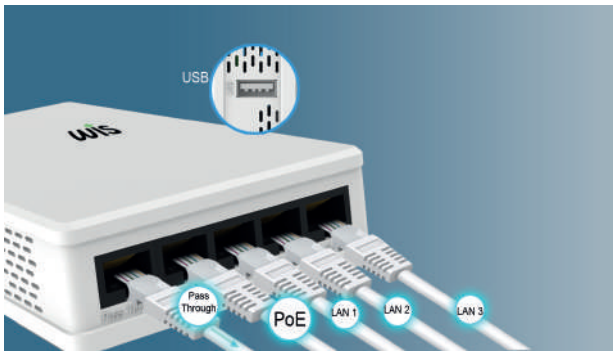
1024-QAM Modulation Mode

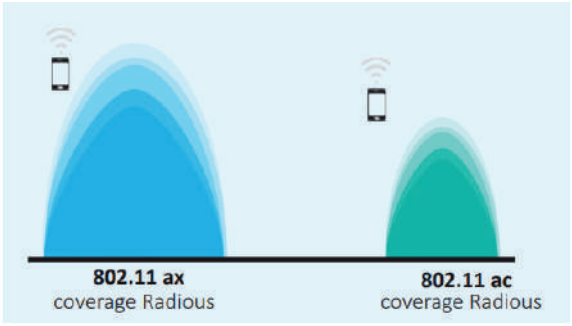
802.11ax adopt 1024-QAM modulation, which is more efficient than 802.11ac modulation, the throughput of single spatial traffic is increased by 25%.



Full Gigab it Ports to Bridge Network

Equipped with four Gigabit data ports (1*uplink + 3*downlink), one downlink port offering PoE pass-through, to connect multiple devices to your gigabit network. Wired devices like VoIP phones can be powered with no need for extra electrical cables.



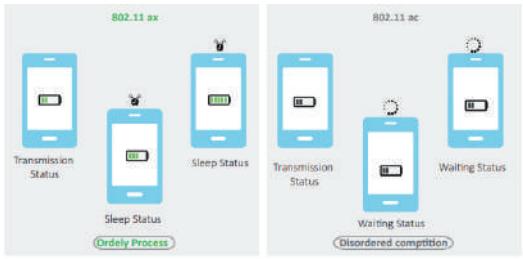


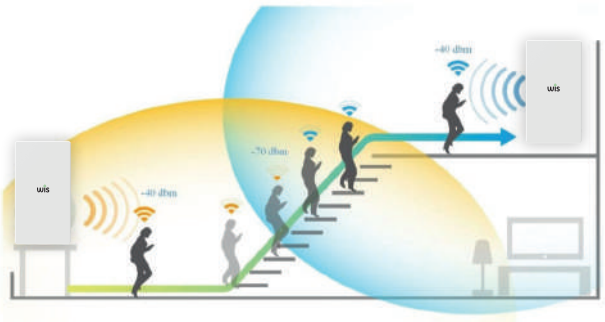
Coverage Improvement

802.11ax support long OFDM symbol transmission mechanism and 2MHz narrowband transmission, effectively reduced the packet loss rate and noise interference, improve the receive sensitivity and increase the WiFi coverage.

TWT(Target Wake-up Time)

802.11ax support TWT, allowing devices to negotiate when need to wake up, send and receive data. In additional, wireless AP can group the device into different TWT cycles, increase sleep time, reduce the device competing atier wake-up, and save the device power.





Seamless Roaming, No Wi-Fi Lose During Moving

Support 802.11kvr seamless roaming ,autometically switch to the stronger wireless singal in satble performance,realize the seamless connection and continuous network.

DL/ UL MU-MIMO

11ax support both downlink MU-MIMO and uplink MU-MIMO. It can communicate with multiple end users at the same time, greatly improving the user's uplink transmission rate and the system's uplink and downlink capacity, improving the efficiency of multi-user concurrent scenarios, reducing the terminal application latency.

Specification

Model	WIS-EAP530P-WALL				
CPU	IPQ5018+QCN6102+QCA8337				
Flash	SPI NOR 8MB				
DDR3L	512MB*1				
NAND	128MB				
2.4G Antenna	Internal IPA				
2.4G Frequency	Built-in：1.7dB				
5.8G RF	External FEM: SKY85791-11				
5.8G Antenna	Built-in：2.9dB				
2.4G Frequency	2.4GHz ~ 2.484GHz				
2.4G WIFI protocol	802.11 b / g / n /ax				
5G Frequency	5.150GHz ~ 5.850GHz				
5G WIFI protocol	802.11 a / n / ac /ax				
Data Rate	5G:2400Mbps 2.4G:600Mbps				
2.4G TX Power	802.11b	11M	20±2dBm	1M	20±2dBm
	802.11g	54M	17±2dBm	6M	20±2dBm
	802.11n HT20	MCS7	16±2dBm	MCS0	19±2dBm
	802.11n HT40	MCS7	16±2dBm	MCS0	19±2dBm
	802.11ax HT20	MCS11	14±2dBm	MCS0	19±2dBm
	802.11ax HT40	MCS11	14±2dBm	MCS0	19±2dBm
5G TX Power	802.11a	54M	17±2dBm	6M	20±2dBm
	802.11n HT20	MCS7	17±2dBm	MCS0	20±2dBm
	802.11n HT40	MCS7	16±2dBm	MCS0	20±2dBm
	802.11ac HT20	MCS7	16±2dBm	MCS0	20±2dBm
	802.11ac HT40	MCS7	16±2dBm	MCS0	20±2dBm
	802.11ac HT80	MCS9	16±2dBm	MCS0	20±2dBm
	802.11ax HT20	MCS11	14±2dBm	MCS0	17±2dBm
	802.11ax HT40	MCS11	14±2dBm	MCS0	17±2dBm
	802.11ax HT80	MCS11	14±2dBm	MCS0	17±2dBm
	802.11ax HT160	MCS11	14±2dBm	MCS0	17±2dBm

2.4G Receiving Sensitivity	802.11b	11M	-80dBm	1M	-87dBm
	802.11g	54M	-67dBm	6M	-87dBm
	802.11n HT20	MCS7	-67dBm	MCS0	-87dBm
	802.11n HT40	MCS7	-64dBm	MCS0	-87dBm
	802.11ax HT20	MCS11	-55dBm	MCS0	-87dBm
	802.11ax HT40	MCS11	-50dBm	MCS0	-84dBm
5G Receiving Sensitivity	802.11a	54M	-69dBm	6M	-87dBm
	802.11n HT20	MCS7	-68dBm	MCS0	-87dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-85dBm
	802.11ac HT20	MCS7	-64dBm	MCS0	-87dBm
	802.11ac HT40	MCS7	-59dBm	MCS0	-84dBm
	802.11ac HT80	MCS9	-55dBm	MCS0	-84dBm
	802.11ax HT20	MCS11	-56dBm	MCS0	-87dBm
	802.11ax HT40	MCS11	-52dBm	MCS0	-83dBm
	802.11ax HT80	MCS11	-50dBm	MCS0	-81dBm
	802.11ax HT160	MCS11	-47dBm	MCS0	

2.4G EVM	802.11b: ≤-10 dB; 802.11g: ≤-25 dB; 802.11n: ≤-28dB; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB
5G EVM	802.11a: ≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB
ppm	±20ppm
WAN	1*10/100/1000/ WAN, support POE 48V power;
LAN	4*10/100/1000/ LAN (LAN1 port supports PoE out, comply with IEEE802.3af)
USB	1×USB 2.0
RJ45 throughput port	1:1 Ethernet port
Console port	Support
Reset	reset (preess for 6-10 seconds to do factory reset)

Firmware Specification

Working Mode	Gateway, AP
Centralized Management	Software cloud Controller
	Hardware Controller
	APP
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz:4.
	Support SSID hidden
	Support seamless roaming, 802.11kvr standard.
	Support 5G Prior for a faster Ethernet.
	Wireless Security: Open, WPA, WPA2PSK_TKIPAES, WAP2_EAP, 802.1x
	Support MAC filter
	Support Wi-Fi time on/off to save energy
	Support client isolation to improve the wireless stability
	Support RF power adjustable, adjust the RF power based on environment.
	Support user quantity limited, Max 64 users to access each band.
Networking Function	VLAN settings
	Cloud access support in gateway mode
Device Management	Back-up the configuration
	Restore the configuration
	Reset to factory default
	Reboot the device: including time reboot or reboot immediately
	Admin management password modify
	Firmware upgrade
	System log
	Support firmware GUI web management, AC controller management, remote management and cloud management

General

Power	PoE 802.3at 、DC12V 2A
Max Power Consumption	< 24W
Indicators	SYS，2.4G WIFI，5.8G WIFI，WAN，LAN*4
Dimension	160mm*86mm*29mm
Weight	0.26kg
Temperature	Working: -20°C to 40°C；Storage: -40°C to 70°C；Humidity: 5%～95%(Non-Condensing)
ESD	Air:±8K, Touch:±4K
Electrical Surge	VCommon Mode: 1K, Differential Mode: 0.5K