

WIS-EAP550

## 11AX 3657 Mbps Dual Band Wi-Fi6 Ceiling 4x4 MIMO Wireless AP

WIS-EAP550 is an 11ax Wi-Fi standard Qualcomm Chipset high power industrial Ceiling Wireless Access Point support MU-MIMO, Wave2.0, OFDMA, and Seamless Roaming. It complies with 802.11ax, 4\*4 MIMO technology, dual-band, up to 3657Mbps data rate; equipped with 2.5G WAN & LAN ports, supports MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate, and more users, then multiple users can upload or download multiple packets at the 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, concert venue, gymnasium, etc.



### FIT/FAT Operation Mode

WIS-EAP550 supports FIT/FAT operation mode; FIT AP, work with AC controller, plug and play, central management by AC controller, mostly for enterprise application. FAT AP, support AP, repeater, gateway, WISP operation mode, can be configured by GUI, suitable for home Use.

### Multiple Protection for Stable Performance

WIS-EAP550 with ABS fireproof material, white color, suitable for various decoration styles. And PCB board with watchdog design, can reboot automatically in case of failure. What's more, it support lightning protection and ESD protection, can install in various harsh environment.

### Four obvious advantages for Wi-Fi 6

Wi-Fi(802.11ax), new generation Wi-Fi standard, High speed, high capacity, low latency, less power consumption.

### 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

### Features

- Comply with IEEE 802.11ax/ac/b/g/n/a, 4\*4MU-MIMO, technology Dual band, 3657Mbps Data Rate.
- 11AX 4x4, 2\*2.5Gbps Ethernet. meet with different customer's request.
- Support active IEEE 802.3at 48V PoE standard.
- Support SSID broadcasting, Multi SSID up to 8
- 802.11ax support TWT & long OFDM symbol transmission .
- lightning & Surge protection.
- Remote management, WLAN Controller
- Cloud management System.



## Power over Ethernet

WIS-EAP550 has integrated IEEE802.3at Power over Ethernet (PoE), for easy installation and lower cost. So it can be installed in areas where power outlets are not available, eliminating the mess of altering existing network infrastructure.

## DL/UL MU-MIMO

802.11ax 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.

## 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 after wake-up, and save the device power.

## 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%.

## More Wi-Fi Coverage

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.

## Adjustable RF Power, Improve Wireless Quality

Adjustable RF Power, Improve Wireless Quality. The transmission RF power is adjustable based on environment, Cut down RF power in place with high density of people or wireless AP to reduce Wi-Fi interference; Increase RF power in large area to improve the signal strength.

## Seamless Roaming, no loss in Wi-Fi loss During Moving

When AP recognizes that the terminal user's signal is lower than the setted coverage threshold, it will automatically remove the terminal user to connect to the AP with strong signal to achieve seamless rooming.

## Watchdog design, No internet lose

The watchdog chip + circuit design make the equipment with selfinspection in network disconnection, link detection and network backup. When it found that device is disconnected, the watchdog circuit will restart the system automatically to ensure the reliability and safety.

## Improvement of Anti-Interference Ability

802.11ax support BSS color bit and dynamic CCA-SD (Clear Channel Assessment Signal Detection) threshold and power adjustment, effectively alleviates the channel interference in multi-users scenarios, improve the utilization of spectrum resources.

## 2.4G & 5.8G Dual-Band concurrent, The Wi-Fi speed up to 3657Mbps

2.4Ghz strong compatibility and long range ;5.8Ghz more channels and less Wi-Fi Interference, dual band concurrent rate up to 3657Mbps, Full meet the needs of wireless coverage in crowded places

## Three ways of WIS Controller Solution

All configuration and management is centrally and effectevly operated by the WIScloud controller.

## Cable /port hidden design, integrated into all kinds of decoration

Network port hidden structure, skillfully hidden the network cable, integrated into the exist decoration, keep it clean and unified scene. the working status at a glance.

## Faster dual-Ethernet ports design

1\*10/1000/2500M LAN port, support 48V active PoE(Can be used as WAN)1\*10/1000M LAN port more convenient to use.

## Multiple Application Scene

WIS-EAP550 Gigabit ceiling mount wireless Ap can be used for indore environment where need wireless coverage like dormitory, Family Hotel, Hospital, Office, ktv Room.



## SPECIFICATION

Model	WIS-EAP550
Chipset	Qualcomm
Flash	SPI NOR 8MB
DDR3	512MB*2
Nand Flash	128MB
2.4G RF	QCN5024-2.4G external FEM: SKY85334-11
5.8G RF	QCN5054-5.8G external FEM: SKY85750-11
2.4G Frequency	2.4GHz – 2.484GHz
2.4G Protocol	802.11 b / g / n /ac /ax
5G Frequency	5.150GHz~5.850GHz
5G Protocol	802.11 a / n / ac /ax
Antenna	4*2.4G/5.8G dual band omin antennas: 3 dBi+
Data Rate	2.4G 1148 Mbps MIMO 4*4, 5G 2402Mbps MIMO 4*4
2.4G EVM	802.11b: ≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n: ≤-28dB ; 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*10/100/1000/2500M RJ45, support 48V PoE
LAN	1*10/100/1000/2500M RJ45
Reset	Reset to factory settings by pressing 6-10 seconds
Indicators	WAN, LAN, tricolor LED(sys-red, 2.4G-green, 5.8G-blue)
Power	DC2.0 12V- 2A, 48V PoE 802.3at
Max Power Consumption	< 22W
Dimension	198mm×198mm×41mm
Weight	0.9kg
Temperature	Working:-20°C to 45°C ; Storage:-40°C to 70°C ; Humidity: 5%~95%(Non-Condensing)
ESD	Air:±8K, Touch:±4K
Electrical Surge	Common Mode: 2K, Differential Mode: 1K
Working Mode	Gateway, AP
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
Device Management	Cloud access support in gateway mode 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



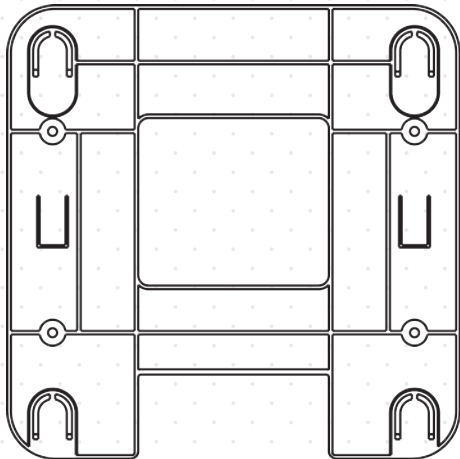
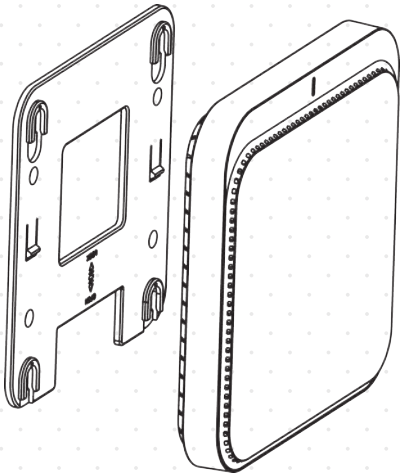
Antenna Specification

Frequency Range	2.4GHz & 5.8GHz
Impedance	50 Ohms nominal
Gain	5dBi
Radiation	Omni
Polarization	Vertical
S-Parameters	(2.4/ 5.8G #2 VSWR)

Packaging Information:

- 1\* WIS-EAP550
- 1\* Mounting Kit
- Quick Installation Guide
- Gift Box

DIMENSIONS



ORDERING INFORMATION

WIS-EAP550

11AX 3657Mbps DUAL Band Wi-Fi 6 Enterprises Access Point



\*Product specifications and availability are subject to change without notice

