WIS-EAP560

11AX 5400 Mbps Dual Band Wi-Fi6 Ceiling 4x4 MIMO Wireless AP

WIS-EAP560 is an11ax 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 5400Mbps 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-EAP560 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 Enterprise Use.

Multiple Protection for Stable Performance

WIS-EAP560 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 generattion Wi-Fi standrad,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,5400Mbps Data Rate.
- 11AX 4x4, 1*2.5Gbps Ethernet.
  meet with different coustmer'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 protecion.
- Remote management,WLAN Controller
- Cloud management System.

Power over Ethernet

WIS-EAP560 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 802.11ax modulation, the throughput of single spatial traffic is increased by 25%.

More Wi-Fi Coverage

More Wi-Fi Coverage. PCB board adopt Skyworks POWER Amplifier and Low Noise Amplifier design improved the wireless coverage and reduced the noise interference.

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 then the setted coverage threshold, it will automatically remove the terminaluser 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.

2.4G & 5.8G Dual-Band concurrent,The Wi-FIspeed up to 5400Mbps

2.4Ghz strong compatibility and long range ;5.8Ghz more channels and less Wi-Fi Interference,dual band concurrent rate up to 5400Mbps,Full meet the needs of wireless coverage in crowded places

Three ways of WIS Controller Solution

All configruation and management is centrally and effectevely operated by the WIScloud controller.

Cloud Controller | App Based Controller | Hardware 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 and console 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.

WIS-EAP560 access point provides high-speed wireless connectivity and can be a part of various solutions in different environments. Here are a few potential solutions where WIS-EAP560 access point can be used:

Enterprise Wireless Networks: In large organizations or enterprises, WIS-EAP560 access point can be deployed to provide high-speed wireless connectivity to support concurrent Users upto 250+ at high density . It ensures reliable and fast wireless access for employees, guests, and IoT devices within the organization.

Hospitality Wi-Fi: Hotels, resorts, and hospitality venues often require fast and reliable Wi-Fi for their guests. WIS-EAP560 access point can provide high-speed internet access in rooms, lobbies, conference halls, and other guest areas, ensuring a smooth and enjoyable internet experience.

High-Density Events: Access points with high data transfer rates are suitable for high-density events like conferences, trade shows, or concerts. They can handle a large number of concurrent connections and provide reliable connectivity for attendees, exhibitors, and organizers.

Smart City Initiatives: In smart city deployments, where various IoT devices and sensors are interconnected WIS-EAP560 access point can serve as a high-speed backbone for data transmission. It enables efficient communication among different smart city components, such as surveillance cameras, environmental sensors, smart streetlights, and other connected devices.

Industrial Wireless Networks: Industries and manufacturing facilities often require reliable and high-speed wireless connectivity for automation, monitoring, and control purposes. WIS-EAP560 access point can support wireless communication within industrial environments, facilitating real-time data exchange and improving operational efficiency.

Multi-Gigabit Home Networks: With the increasing adoption of high-bandwidth applications and multiple connected devices in homes, WIS-EAP560 access point can be used to create a multi-gigabit home network. It provides fast and stable wireless connectivity for streaming, gaming, smart home devices, and other bandwidth-intensive applications.

SPECIFICATION

Model	WIS-EAP560
Chipset	Qualcomm
Standard	802.11ax/ac/b/g/n/a
DDR3	512MB *1
Flash	NOR-8MB AND NAND-128MB
2.4G Frequency	2.4GHz- 2.484GHz
2.4G Wi-Fi standard	802.11b/g/n/ax
5.8G Frequency	5.150 GHz~5.850GHz
5.8G Wi-Fi Standard	802.11 a/n/ac/ax
2.4G Antenna	2.2.4GHz/5.8GHz Dual band antenna:4dBi
5G Antenna	2*5.8G antenna: 4dBi
Interface	1 * 10/100 /1000/2500Mbps RJ45 WAN Port 1 * 10/100 / 1000Mbps RJ45 Console Port 1 * Reset 1* Bluetooth(optional) 1 * DC Port
Data Rate	2.4G-574Mbps 5.8G: 4800Mbps (11ax 4x4))
ppm	±20ppm
LAN	1*10/100/1000/2500M WAN, support POE 48V
Reset	Reset to factory setting by pressing 6-10 seconds
End Users	250+
RF Power	2.4G ≤ 22dBm 5.8G ≤ 22dBm
DC	12V/2A
Power	PoE 802.3at, DC2.0 12V/2A
LED light	Sys; 5.8G wifi; 2.4G wifi; WAN; LAN
Max Power Consumption	≤ 22W
Firmware Specification	
Working Mode	Gateway, AP
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4. Support SSID hidden Support seamless roaming Support 5G Prior for a faster Ethernet. Wireless Security: Open, WPA, WPA2PSK_TKIPAES, WAP2_EAP, WPA3 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

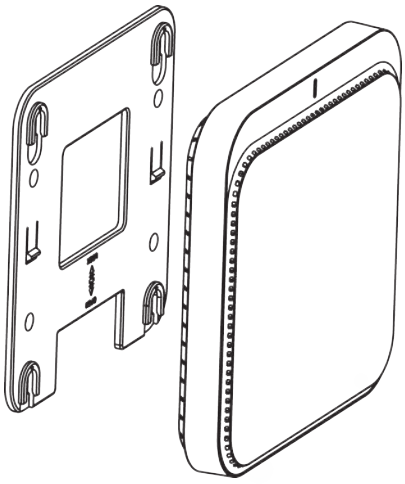
Antenna Specification

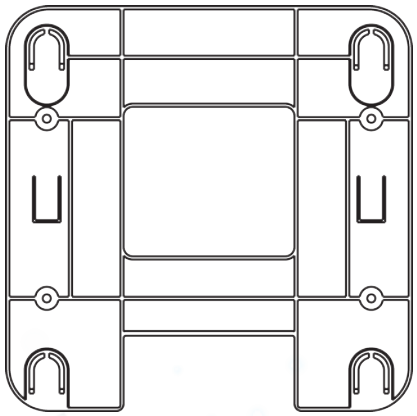
Frequency Range	2.4GHz & 5.8GHz
Impedance	50 Ohms nominal
Gain	4dBi
Radiation	Omni
Polarization	Vertical
Size	198mm X 198mm X 42.5 mm
Working Temperature	-10°C to 55°C
Storage Temperature	-40°C to 70°C
Humidity	5%～95% (non-condensing)

Packaging Information:

1* WIS-EAP560
1* Mounting Kit
Quick Installation Guide
Gift Box

DIMENSIONS





ORDERING INFORMATION

WIS-EAP560	11AX 5400Mbps DUAL Band Wi-Fi 6 Enterprises Access Point