

11ax 1800Mbps Outdoor Wireless AP

Model: AX810

**Description:**

AgniGate - AX810 is an 11ax Wi-Fi standard Outdoor Wireless AP with Qualcomm Chipset, it support MU- MIMO, Wave2.0, OFDMA and Seamless Roaming.

Combined 1800Mbps Wi-Fi speed over 2 radios 4*4 dBi: 2.4GHz(600Mbps 11ax 2*2)+5GHz(1200Mbps 2*2),equipped 1G WAN & LAN ports, 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 sub-carrier 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

What's more, with IP67 water-proof level, lightning protection, it can install at every place to work as a stable base station for more wireless range and more access users.

Main Features:

Qualcomm 4-core enterprise CPU with more stable performance.

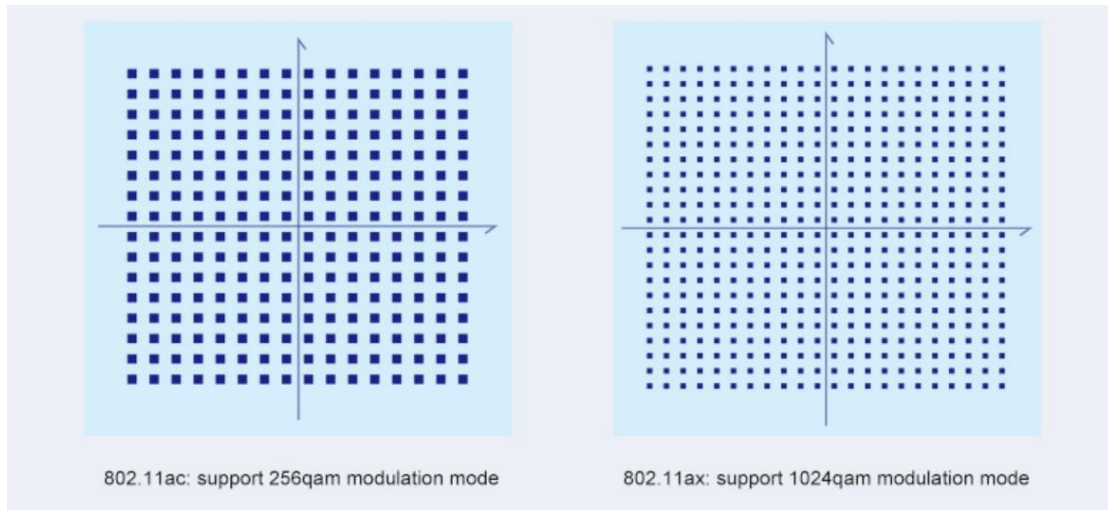
Equipped with Qualcomm enterprise CPU IPQ6000, superior than other manufacturers as the stronger processing capacity, running more stable.

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| High Speed The data forwarding speed increased by 20% | Anti-Interference Qualcomm Wi-Fi6 chipset 33% improved in Anti-Interference | Low Latency The latency decreased 36.8% | Stable Performance Multiple device access CPU utilization is less than 20% |
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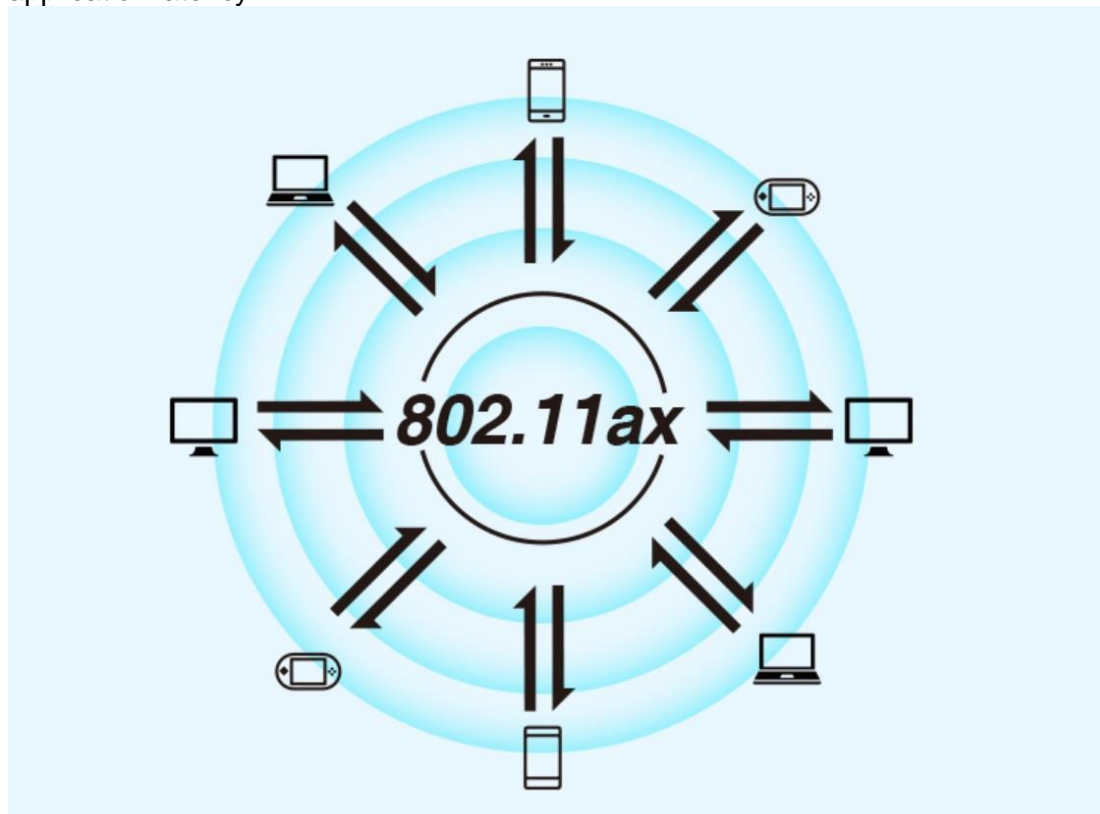
Wireless data rate up to 1.8Gbps. 802.11ax support 1024QAM, long OFDM symbol, 160M bandwidth and 11ax 2x2 MIMO technology, the wireless data rate up to 1.8Gbps, meet with demand of high-speed applications such as VR/ AR, 4K or 8K stream media.

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| 802.11ax: | 1024-QAM, Long OFDM Symbol, Max 160MHz bandwidth |
| 802.11ac: | 256-QAM |

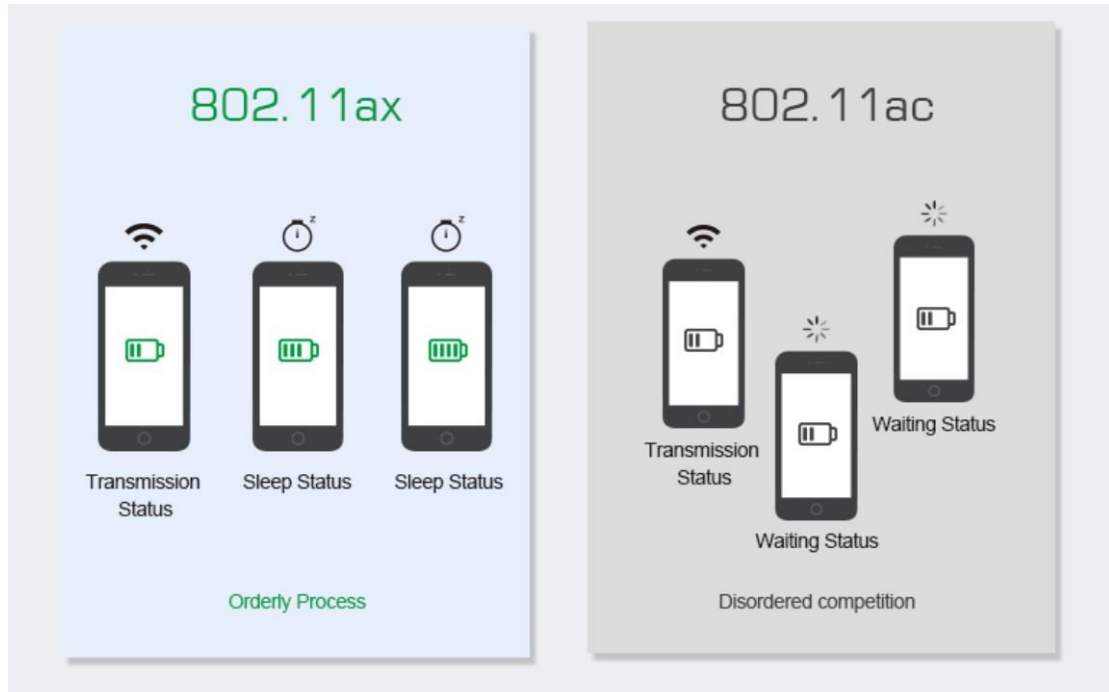
1024-QAM Modulation Mode. 802.11ax adopt 1024-QAM modulation, which is more efficient than 802.11ac modulation, the throughput of single spatial traffic is increased by 25%.



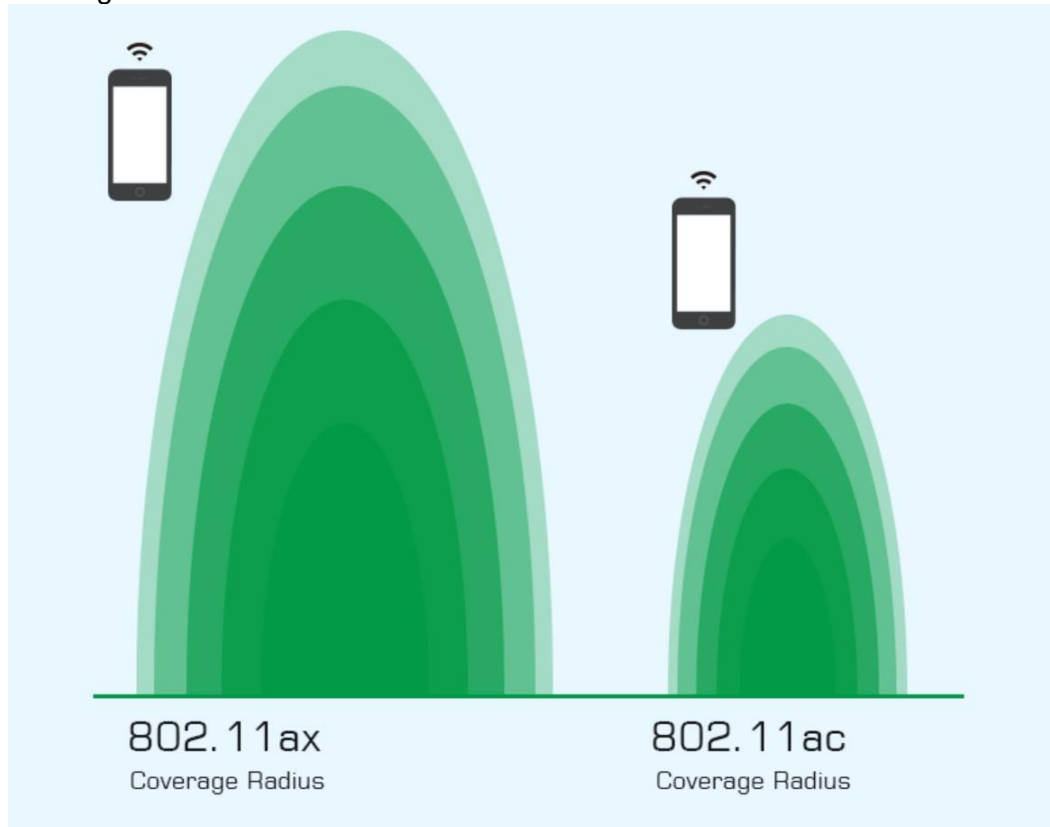
DL/ UL MU-MIMO. 802.11ax support both downlink MU-MIMO and uplink MU-MIMO. It can communicate with multiple end users at the same time, greatly improving the user's uplink transmission rate and the system's uplink and downlink capacity, improving the efficiency of multi-user concurrent scenarios, reducing the terminal application latency.



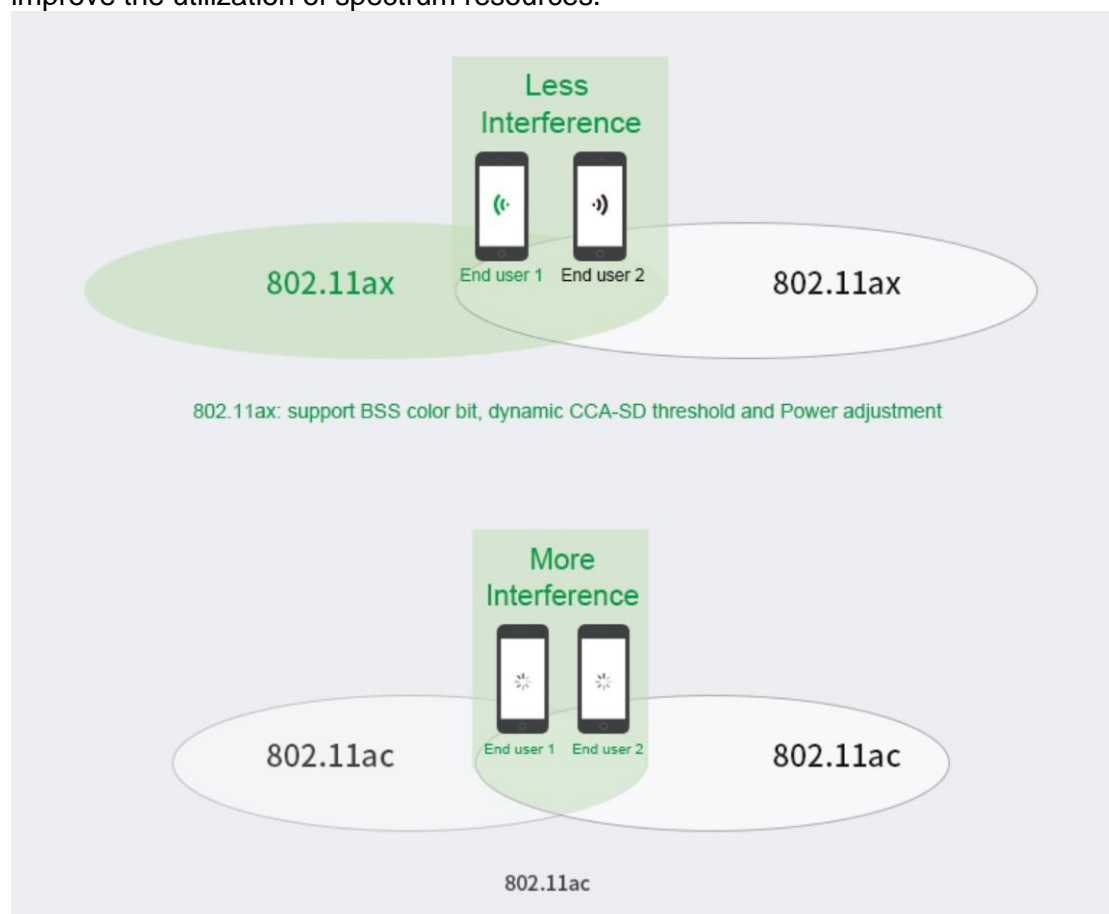
TWT (Target Wake-up Time). 802.11ax support TWT, allowing devices to negotiate when need to wake up, send and receive data. In additional, wireless AP can group the device into different TWT cycles, increase sleep time, reduce the device competing after wake-up, and save the device power.



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.



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.



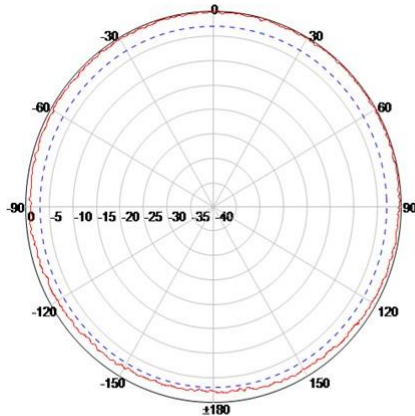
Hardware Specification:

| Hardware: | |
|---------------------|---|
| Chipset | IPQ6000 |
| Standard | 802.11ax/ac/b/g/n |
| Flash | SPI NOR 8MB (1.8v) + NAND 128MB |
| DDR3L | 512MB |
| 2.4G Frequency | 2.4GHz - 2.484GHz |
| 2.4G Wi-Fi standard | 802.11b/g/n/ax |
| 5.8G Frequency | 5150~5850MHz |
| 5.8G Wi-Fi Standard | 802.11 a/n/ac/ax |
| Interface | 1 * 10/100 /1000 RJ45 WAN Port |
| | 1 * Reset button, press 10 seconds to revert to default setting |
| | 1 * SFP port (available if need) |
| | 1 * 10/100 /1000 RJ45 LAN Port |
| Antenna | N type antenna connector |
| Data Rate | 1800Mbps (5G: 1200Mbps 2.4G:600Mbps) |
| End Users | 250+ |

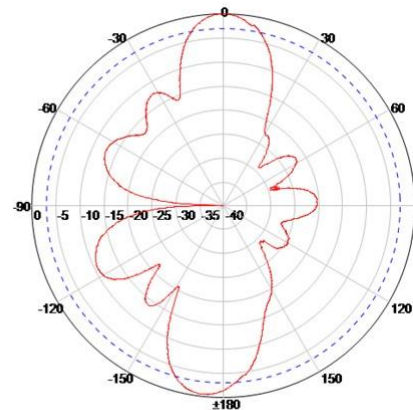
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|-------------------|--|
| 2.4G RF Power | ≤ 23dBm |
| 5.8G RF Power | ≤ 23dBm |
| DC | 12V----1.5A |
| PoE | 48V (IEEE 802.3at) |
| LED light | Sys, WAN, LAN |
| Surge protection | Different mode : ±4KV |
| Power Consumption | ≤ 14W |
| Size | 295*231*80MM |
| Weight | 3.5KG |
| Others: | |
| Environment | Operating Temperature: -20~55 Limit working temperature: -30~70 Storage Temperature: 0~70 Humidity: 5%~95% non-condensing |

Antenna Specification (Optional)

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|-----------------|-----------------|
| Frequency Range | 2.4GHz & 5.8GHz |
| Impedance | 50 Ohms nominal |
| Radiation | Omni |
| Polarization | Vertical |
| Connector | N-J |
| MM Dimension | ϕ20*350mm |



H-Plane



E-Plane