DA880

11ax 3600Mbps High Power Outdoor Wireless AP

Product Overview

DA880 is an 11ax Wi-Fi standard Qualcomm Chipset high power industrial outdoor Wireless Access Point support MU-MIMO, Wave2.0, OFDMA and Seamless Roaming.

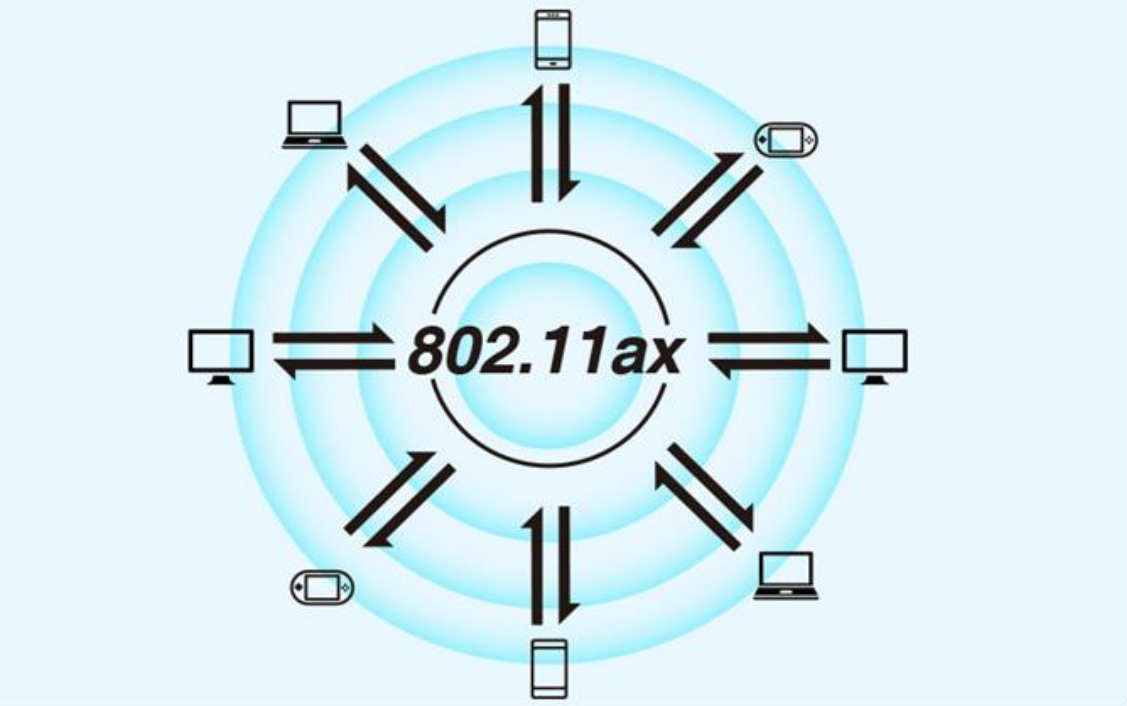
It comply with 802.11ax, 4*4 MIMO technology, dual band, up to 3657Mbps data rate; equipped with 2.5G WAN & LAN ports, support MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate and more users, then multiple users can upload or download multiple packets at same time, narrower subcarrier spacing and longer symbol time, improved the stability and data processing efficiency, publicly to be used in high density access environment,with IP67 proof ,it supports both external Omni Antenna and Sector Antenna which can be used in many different environments.

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

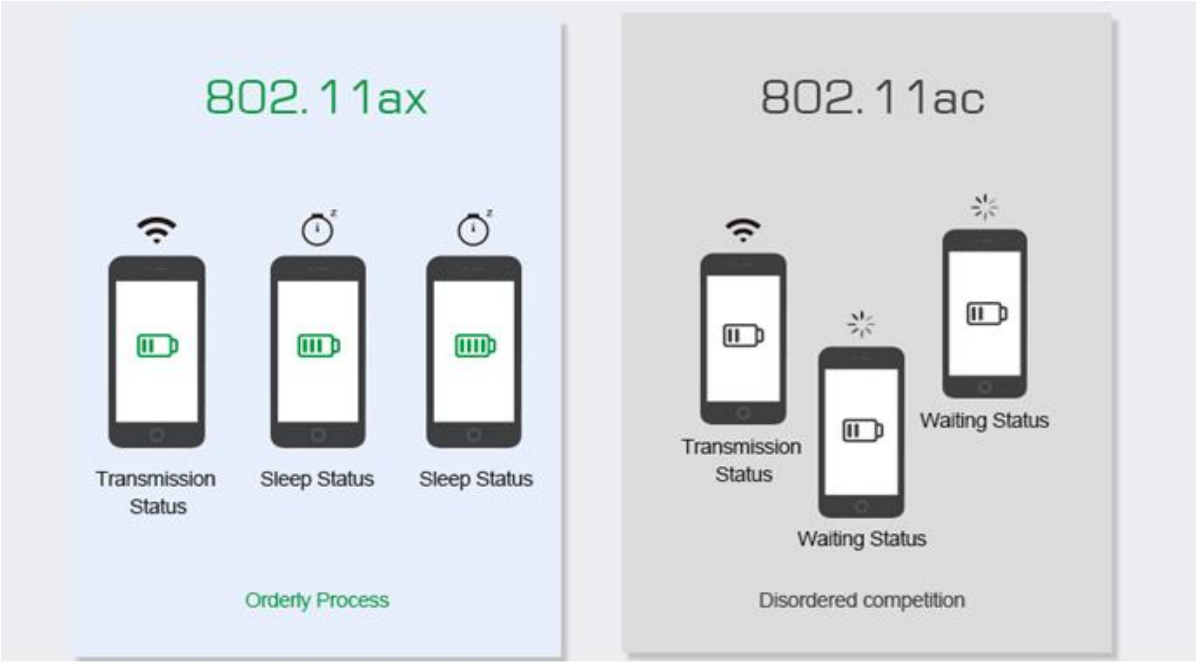
Main Features

- Qualcomm 6-core enterprise CPU with more stable performance.
- 2.5G Ethernet port. Using 2.5Gbps Ethernet port, compared with Gigabit port, the speed is greatly improved, so that the wired interface is no longer the bottleneck of wireless transmission
- Wireless data rate up to 3.6Gbps. 802.11ax support 1024QAM, long OFDM symbol, 160M bandwidth and 11ax 4x4 MIMO technology, the wireless data rate up to 3.6Gbps, meet with demand of high-speed applications such as VR/ AR, 4K or 8K stream media.
- 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.

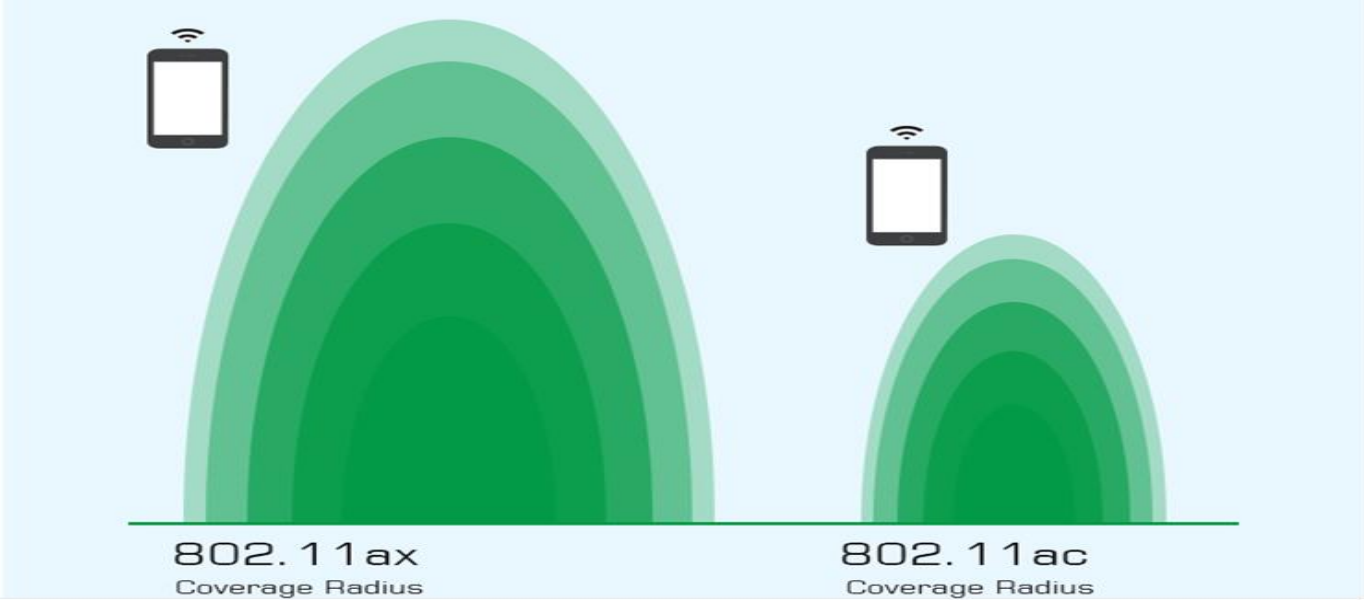


TWT (Target Wake-up Time). 802.11ax support TWT, allowing devices to negotiate when need to wake up, send and receive data. In additional, wireless AP can group the device into different TWT cycles, increase sleep time, reduce the device competing after wake-up, and save the device power.

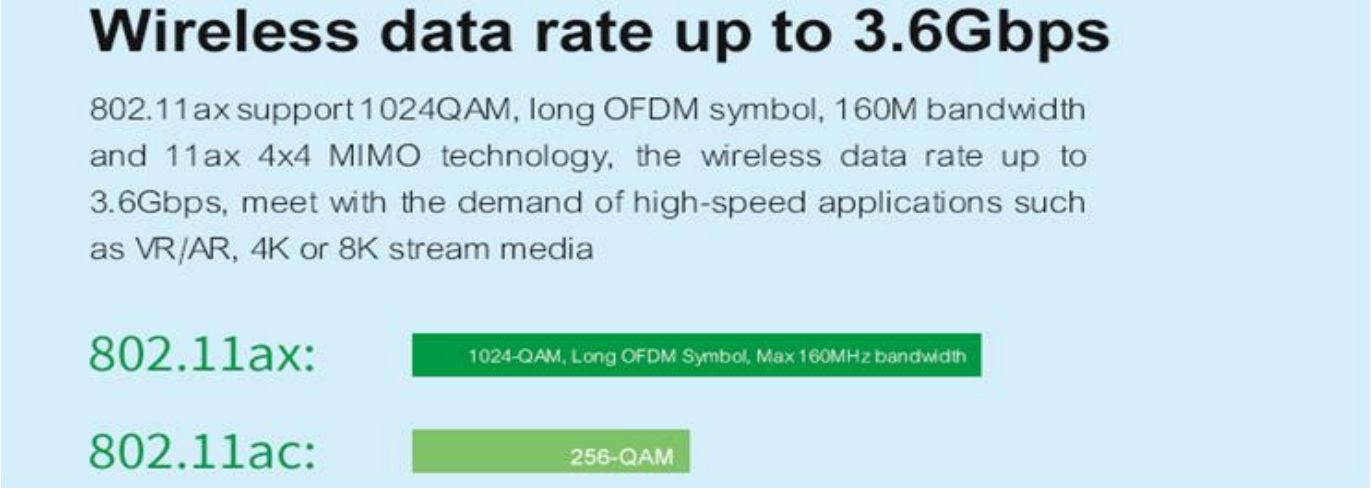


SPECIFICATIONS

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.



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HARDWARE SPECIFICATIONS

Chipset	IPQ8072A +QCN5054+QCN5024+QCA8081*2
Standard	802.11ax/ac/b/g/n
DDR	512MB (16 bit) *2=1GB, max up to 2GB
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	5150~5850MHz
5.8G Wi-Fi Standard	802.11a/n/ac/ax
Interface	1 * 10/100/1000/2500Mbps RJ45 WAN Port
	1 * Reset
	1* Bluetooth(optional)
Antenna	N type Connector, 4*4dBi dual band omni antennas
Data Rate	3657Mbps （ 2.4G: 1182Mbps (11ax 4x4); 5.8G: 2475Mbps (11ax 4x4)）
End Users	300+
RF Power	2.4G ≤ 20dBm 5.8G ≤ 19dBm
DC	12V----2A
PoE	48V (IEEE 802.3at+)
LED light	Sys; 5.8G wifi; 2.4G wifi; WAN; LAN
Max Power Consumption	≤ 22W
Working Temperature	-20°C to 45°C
Storage Temperature	0°C to 70°C
Humidity	5%～95% (non-condensing)
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
	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
Protocols	IPv4