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802.11ax 3600Mbps Outdoor AP

Qualcomm Solution



Main Features :

- Qualcomm IPQ8072 6-core enterprise with stable performance.
- Ethernet powerful with 2.5Gbps.
- Wireless data rate up to 3.6Gpbs
- Efficient 1024-QAM modulation
- High speed 160M bandwidth
- Support TWT (Target Wake-up Time)
- Support long OFDM symbol transmission
- Support Wave 2.0
- Seamless Roaming
- High speed WiFi 6 4*4 MIMO technology
- Support MU-MIMO and DL/UL-OFDMA
- Multiple users upload or download at the same time

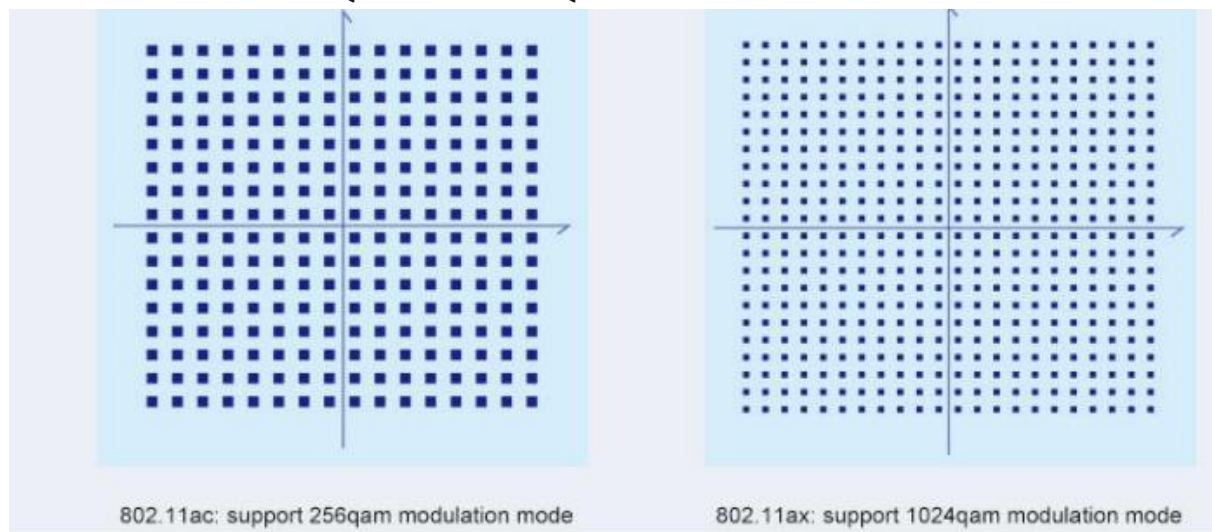


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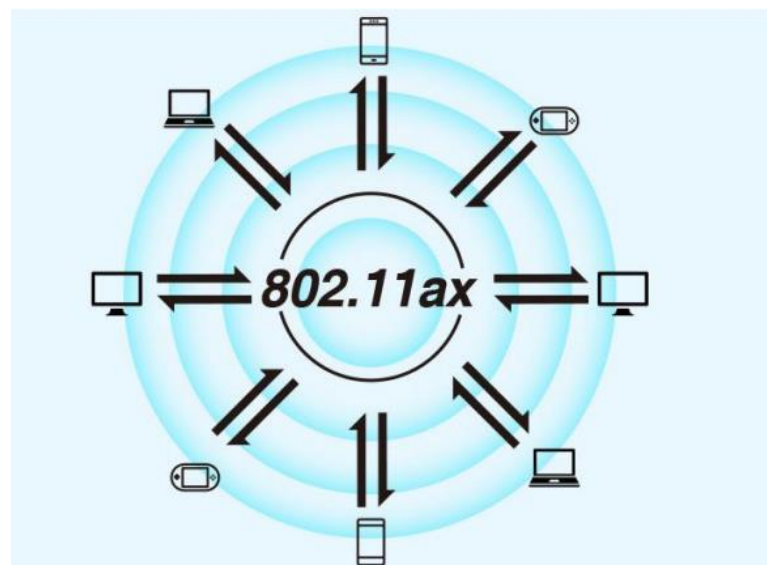
How is different 802.11ax vs 802.11ac?

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

How is different 256-QAM VS 1024-QAM?

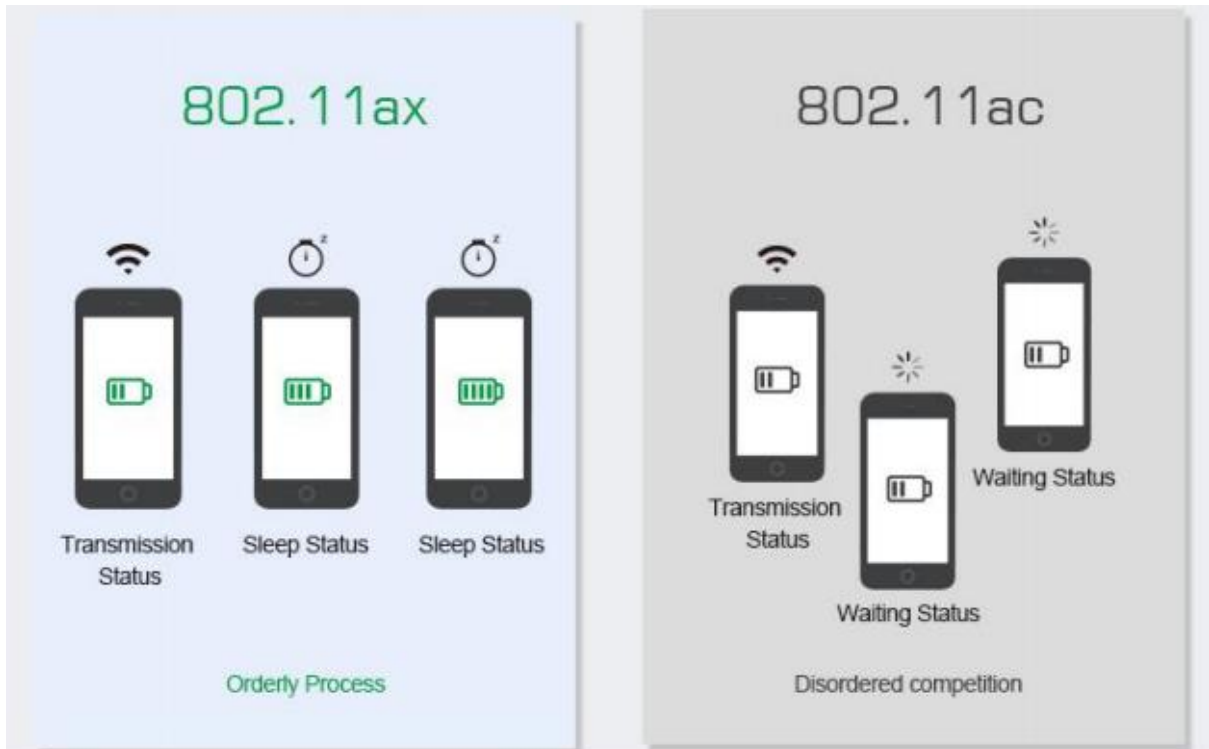


What is DL / UL MU-MIMO 802.11ax? It can communicate with multiple end users at the same time, greatly improving the user's uplink transmission rate and the system's uplink and downlink capacity, improving the efficiency of multi-user concurrent scenarios, reducing the terminal application latency.



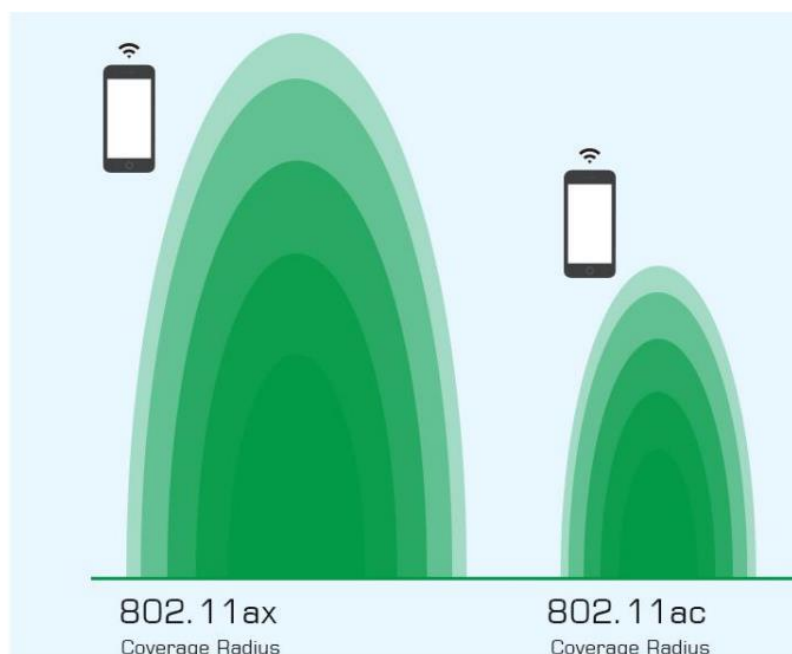


What is TWT (Target Wake-up Time). 802.11ax support TWT, allowing devices to negotiate when need to wake up, sending and receiving data. In additional, wireless AP can be group the device into different TWT cycles, increase sleep time, reduce the device competing after wake-up, and save the device power.



How is 802.11ax long OFDM?

Coverage improvement transmission mechanism and 2 MHz narrowband transmission, effectively reduced the packet loss rate and noise interference, improve the receive sensitivity and increase the WiFi coverage.





What is less interference and more interference between?



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.

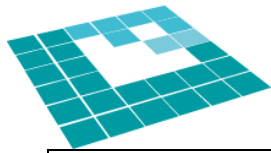
Specifications:

Hardware:	
Chipset	Qualcomm IPQ8072A +QCN5054+QCN5024+QCA8081*2
Standard	802.11ax/ac/b/g/n, MIMO technology
DDR	512MB (16 bit)*2=1GB max up to 2GB
Flash	NOR-8MB + 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	802.11 a/n/ac/ax
Interface	1 * 10/100 /1000/2500Mbps RJ45 WAN Port
	1 * 10/100 / 1000/2500Mbps RJ45 LAN Port
	1 * Reset button, press 10 seconds to revert to default setting
	1 * DC Port
	Optional 1 * Bluetooth
Antenna	IPEX Connector, 4*4dBi dual band omni antennas



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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; LA
Surge	Different Mode: ±2KV, Common Mode: ±4KV
ESD	±4KV
Max Power Consumption	≤ 22W
Size	198mm * 198mm * 41.02mm
Working Temperature	-20°C to 55°
Storage Temperature	0°C to 70°C
Humidity	5%~95% (non-condensing)
Weight	Net weight: 786.7g
Firmware Features:	
Operation mode	Wireless AP: Plug and Play. Gateway: Dynamic IP/Static IP/PPPoE Wi-Fi Repeater: Bridge exist wireless signal, then extend to more range. WISP: For WLAN ISP, bridge ISP's exist wireless signal, then dial-up to obtain Ethernet and extend more wireless range.
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



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	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