DATASHEET
AIR-AP530

Air Pro®
Simple | Secure | Trusted

11ax 3657Mbps Celling Wireless AP

PRODUCT OVERVIEW

AIR-AP530 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, support MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate and more users, multiple users can upload or download multiple packets at the same time, narrower subcarrier spacing and longer symbol time, improved stability and data processing efficiency, can be used in high density access environment such as university campus, concert venue, gymnasium, etc.

802.11ax new wi-fi6 wireless technology

Dual band

2.5Gbps

PoE/DC power available

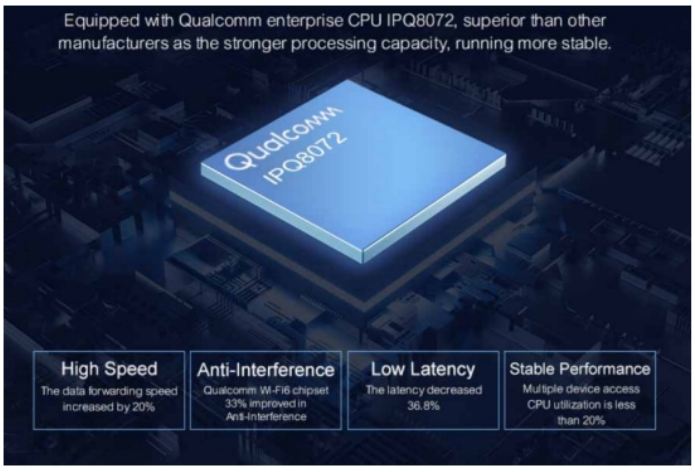
FAT/FIT

Fat and thin

Seamless roaming

KEY FEATURES AND HIGHLIGHTS

Qualcomm 4-core enterprise CPU with more stable performance

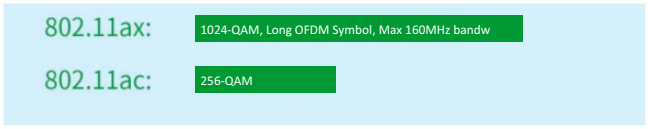


2.5G Ethernet port

Using 2.5Gbps Ethernet port, compared with Gigabit port, the speed is greatly improved, so wired interface is no longer a bottleneck of wireless transmission, and the wireless experience in high pedestrian density scenarios such as conference room, bar, office area, KTV is

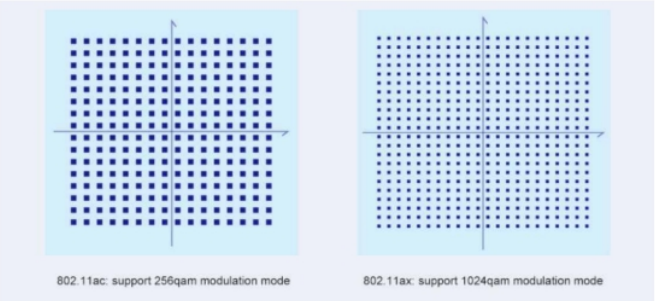
Wireless data rate up to 3.6Gbps

802.11ax supports 1024QAM, long OFDM symbol, 160M bandwidth and 11ax 4x4 MIMO technology, wireless data rate up to 3.6Gbps, meets with demand of high-speed applications such as VR/AR, 4K or 8K stream media.



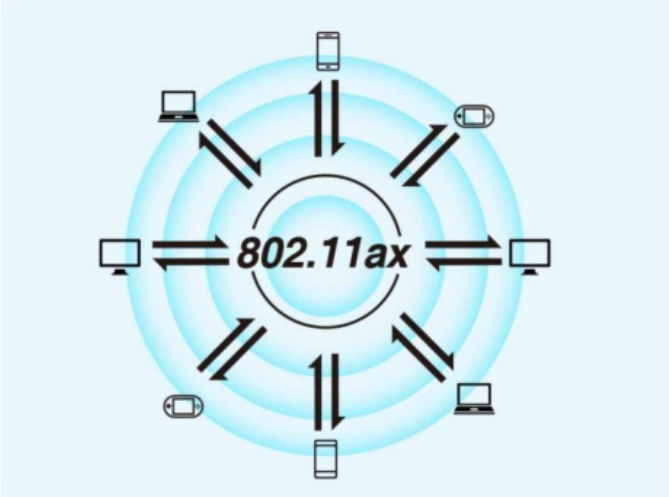
1024-QAM Modulation Mode

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



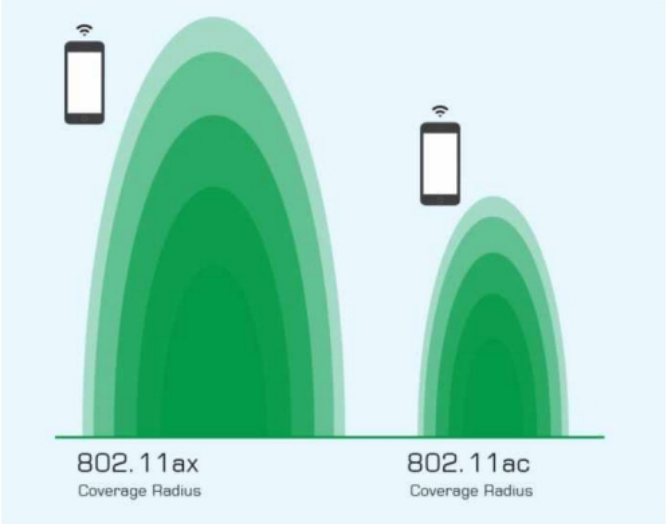
DL/UL MU-MIMO

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.



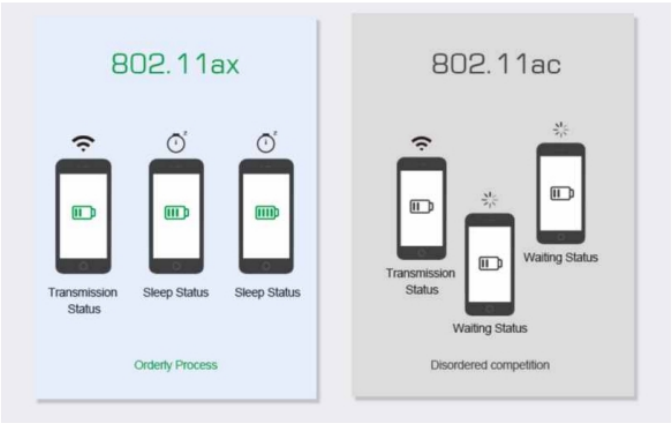
Coverage Improvement

802.11ax supports long OFDM symbol transmission mechanism and 2MHz narrowband transmission, effectively reduces the packet loss rate and noise interference, improves the reception sensitivity and increases the Wi-Fi coverage.



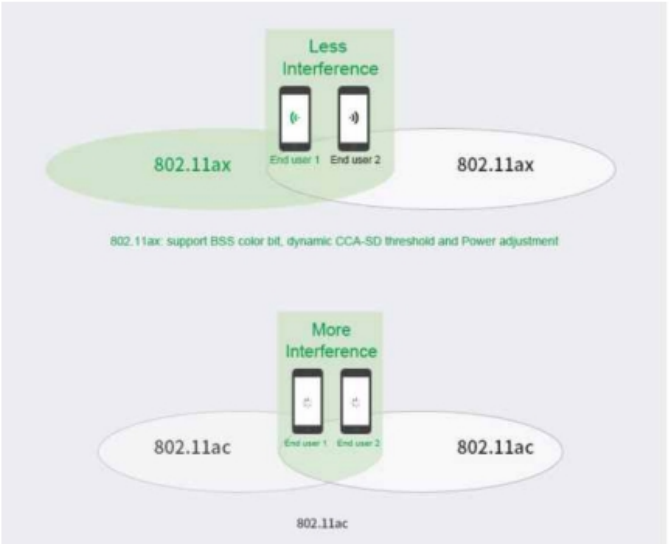
TWT (Target Wake-up Time)

802.11ax support TWT, allowing devices to negotiate when need to wake up, send and receive data. In addition, 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.



Improvement of Anti-Interference Ability

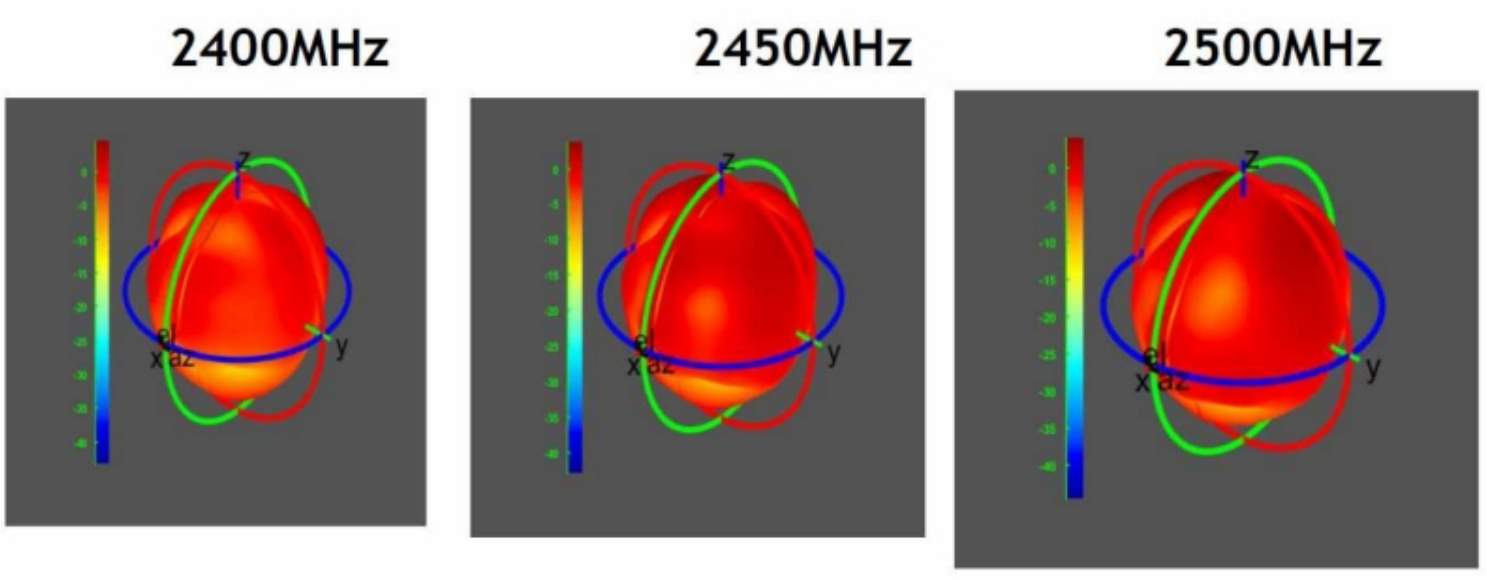
802.11ax supports BSS color bit and dynamic CCA-SD (Clear Channel Assessment Signal Detection) threshold and power adjustment, effectively alleviates the channel interference in multi-users scenarios, improves the utilization of spectrum resources.



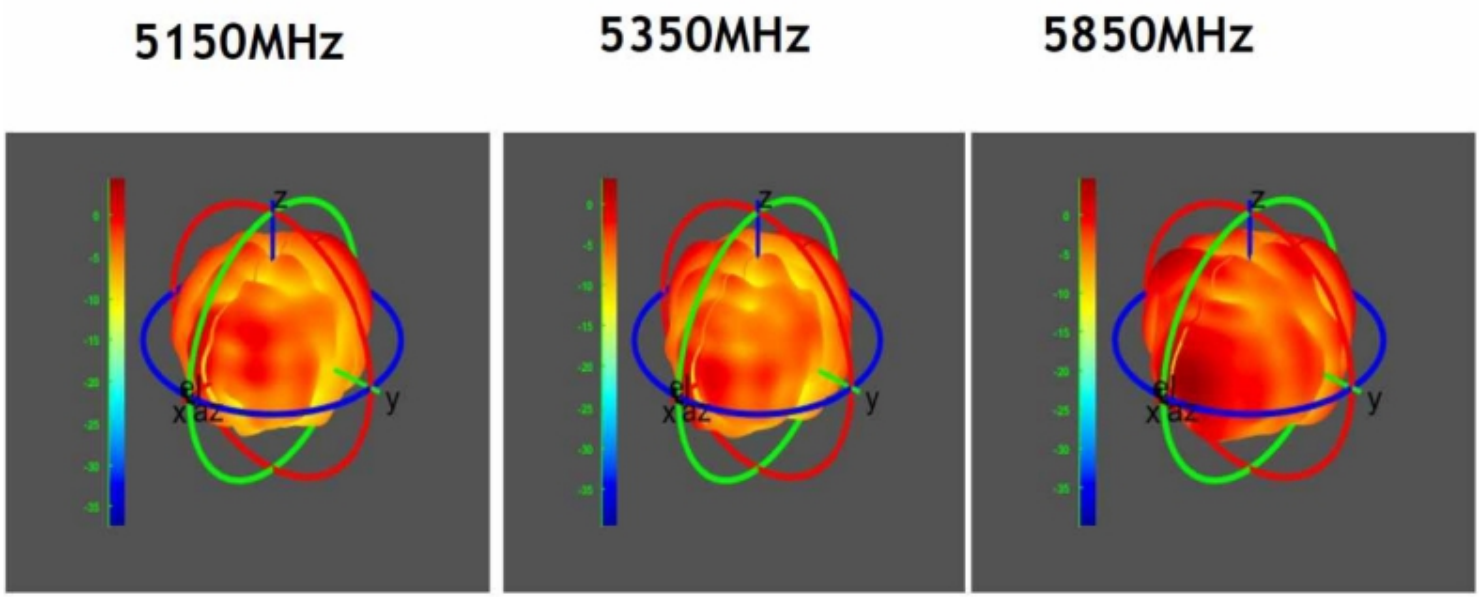
PRODUCT SPECIFICATIONS

Hardware Specifications

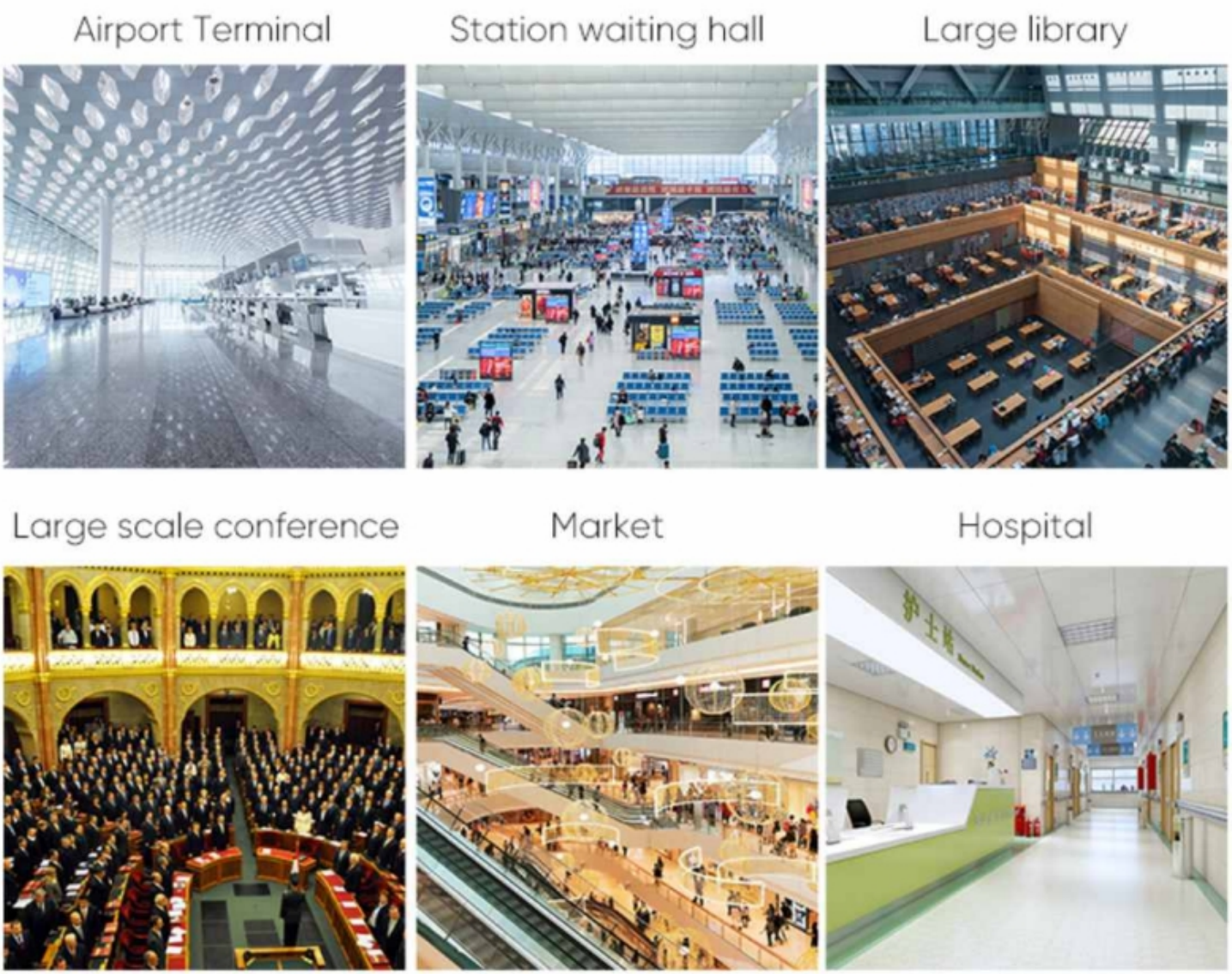
Item	*AIR-AP530*
Hardware	
Chipset	*IPQ8072A +QCN5054+QCN5024+QCA8081*2*
Standard	*802.11ax/ac/b/g/n*
DDR	*512MB (16 bit) *2=1GB, max up to 2GB*
Flash	*NOR-8MB AND NAND-128MB*
2.4G Frequency	*2.4GHz-2.484GHz*
2.4G Wi-Fi standard	*802.11b/g/n/ax*
5.8G Frequency	*5150-5850MHz*
5.8G Wi-Fi Standard	*802.11 a/n/ac/ax*
Interface	*1*10/100/1000/2500Mbps RJ45 WAN Port* *1*10/100/1000/2500Mbps RJ45 LAN Port* *1*Reset* *1*Bluetooth (optional)* *1*DC Port*
Antenna	*IPEX 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 Wi-Fi; 2.4G Wi-Fi; WAN; LAN*
Max Power Consumption	*≤ 22W*
Size	*198mm* 198mm* 41. mm*
Working Temperature	*-20°C to 45°C*
Storage Temperature	*0°C to 70°C*
Humidity	*5%~95% (non-condensing)*
Firmware Specification	
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	*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*
Protocols	*Ipv4*



Radiation patterns- 3D (5.8G#2)



Application



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