

11ax 1800Mbps Ceiling Wireless AP

PRODUCT OVERVIEW

AP520 is an 11ax Wi-Fi standard MTK Chipset high power industrial Ceiling Wireless Access Point. It supports MU-MIMO, Wave2.0, OFDMA and Seamless Roaming.

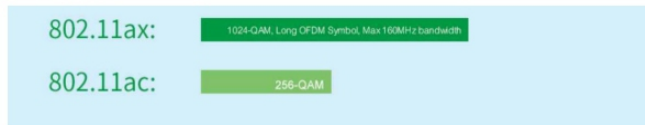
Combined 1800Mbps Wi-Fi speed over 2 radios: 2.4GHz (600Mbps 11ax 2*2) and 5GHz (1200Mbps 2*2), equipped with Gigabit WAN & LAN ports, supports MU-MIMO and DL/UL- OFDMA modulation, faster Ethernet data rate and more users, multiple users can upload or download multiple packets at same time, narrower subcarrier spacing and longer symbol time, improved the stability and data processing efficiency, can be used in high density access environment such as university campus, concert venue, gymnasium, etc.



KEY FEATURES AND HIGHLIGHTS

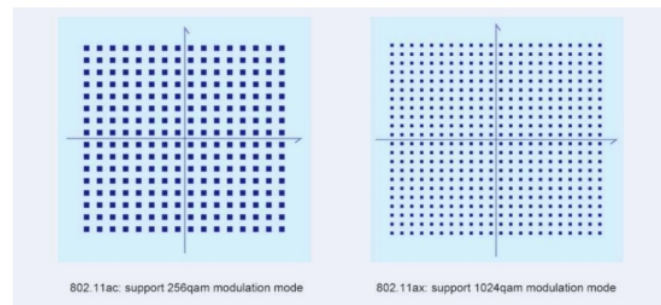
Wireless data rate up to 1.8Gbps

802.11ax supports 1024QAM, long OFDM symbol, 160M bandwidth and 11ax 2x2 MIMO technology, wireless data rate up to 1.8Gbps, 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%.



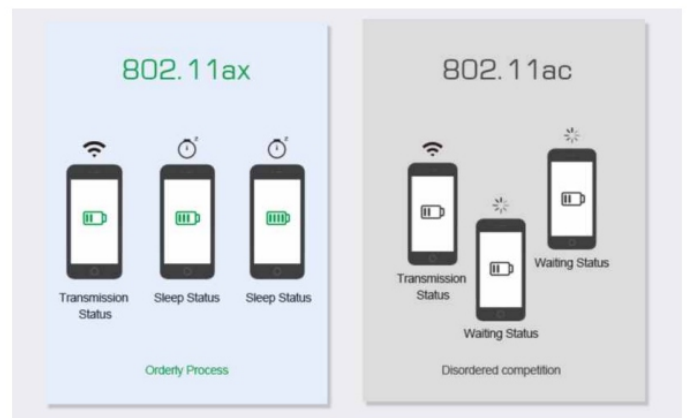
DL/UL MU-MIMO

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.



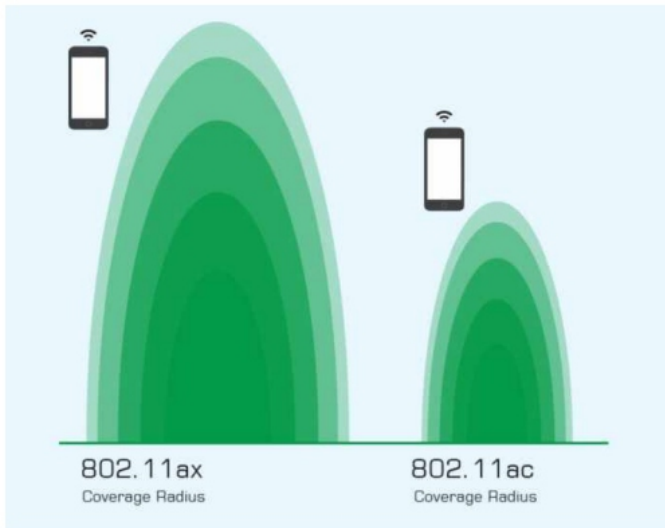
TWT (Target Wake-up Time)

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.



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.



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

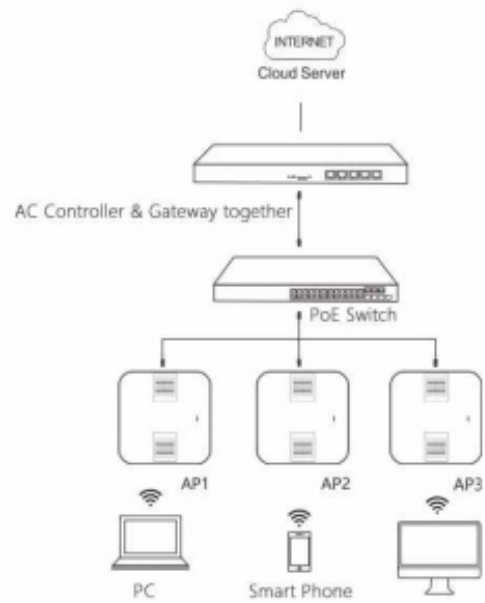
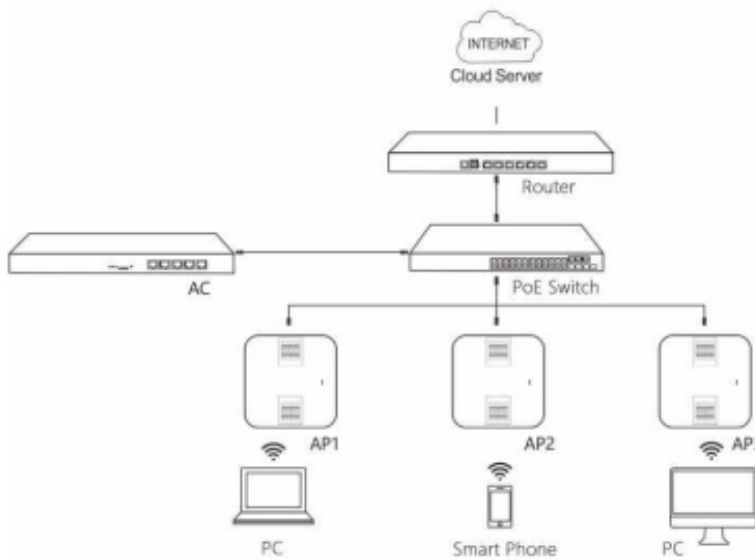
Hardware Specifications

Item	AIR-AP520
Hardware	
Chipset	MT7621AT+MT7905N+MT7975DN
Standard	802.11ax/ac/b/g/n
Flash	SPI NOR 16MB
Memory	256MB
2.4G Frequency	2.4GHz-2.484GHz
2.4G Wi-Fi standard	802.11b/g/n/ac/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*10/100/1000 RJ45 LAN Port 1* Reset button, press 10 seconds to revert to default setting
Antenna	Build in 4dBi MIMO Antenna
Data Rate	1800Mbps
End Users	120+
RF Power	<20dBm
DC	12V---1.5A
PoE	48V (IEEE 802.3af/at)
LED light	Sys and Wi-Fi, WAN, LAN
Power Consumption	≤ 15W
Size	168mmX168mmX32mm

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 and cloud management
Protocols	Ipv4

AirPro Wi-fi Solution



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