


11ax 1800Mbps Ceiling Wireless AP

OVERVIEW

The AIR-AP520 is an advanced high-power Ceiling Wireless Access Point that complies with the 802.11ax Wi-Fi standard. Powered by an MTK chipset, it supports MU-MIMO, Wave 2.0, OFDMA, and Seamless Roaming. With a combined 1800Mbps Wi-Fi speed over 2.4GHz (600Mbps 2x2) and 5GHz (1200Mbps 2x2), the device is equipped with Gigabit WAN & LAN ports, making it ideal for high-density access environments such as campuses, Hotel, and Office.

Appearance	Description
	<ul style="list-style-type: none">• High-Speed Connectivity: Wireless data rates up to 1.8Gbps• Advanced 1024-QAM Modulation: Increased efficiency and 25% higher throughput• Dual-Band MU-MIMO Support: Improved multi-user uplink & downlink performance• OFDMA Modulation: Efficiently manages simultaneous multiple data packets• TWT (Target Wake-Up Time): Reduces power consumption for connected devices• Expanded Wi-Fi Coverage: Enhanced packet loss prevention and noise interference reduction• Improved Anti-Interference: BSS color bit and dynamic CCA-SD mechanism

TECHNICAL SPECIFICATIONS

Hardware Specifications:

- Wireless Standard: 802.11ax/ac/b/g/n
- Memory: 256MB
- Flash Storage: SPI NOR 16MB
- Interfaces:
 - 1 x 10/100/1000Mbps RJ45 WAN Port
 - 1 x 10/100/1000Mbps RJ45 LAN Port
 - 1 x Reset Button (Press 10s for factory reset)
- Antenna: Built-in 4dBi MIMO Antenna
- Power Consumption: $\leq 15W$
- Dimensions: 168mm x 168mm x 32mm

RF Data:

- Frequency Bands:
 - 2.4GHz: 802.11b/g/n/ac/ax (2.4GHz–2.484GHz)
 - 5.8GHz: 802.11a/n/ac/ax (5150MHz–5850MHz)
- RF Power: $<20dBm$
- Max Supported Users: 100
- PoE Support: IEEE 802.3af/at (48V)
- DC Power Input: 12V–1.5A

TECHNICAL SPECIFICATIONS

Firmware & Management Features:

- Operating Modes: Gateway, AP
- SSID Management:
 - Supports Multiple SSIDs (4 for 2.4GHz, 4 for 5.8GHz)
 - SSID Hiding & Seamless Roaming (802.11kvr standard)
- Security:
 - Open, WPA, WPA2-PSK (TKIP/AES), WPA2-EAP, 802.1x
 - MAC filtering & client isolation
 - RF power adjustability
- User Management: Max 64 users per band
- Networking:
 - VLAN Configuration based on SSID
 - Backup & Restore Configuration
 - Factory Reset Support
- Device Management:
 - Remote & Controller Management
 - Admin Password Modification
 - Scheduled or Manual Reboot
 - GUI-based Web Management & AC Controller Support

Package Contents:

- AIR-AP520 11ax 1800Mbps Ceiling Wireless Access Point
- Ethernet Cable
- Quick Installation Guide
- Mounting Accessories

Environmental Conditions:

- Operating Temperature: -10°C to 50°C
- Storage Temperature: -40°C to 70°C
- Humidity: 5% - 95% non-condensing