

11ax 3000Mbps Ceiling Wireless AP

OVERVIEW

The AIR-AP530R2 is a high-power WiFi 6 (802.11ax) Ceiling Mount Wireless Access Point powered by a Qualcomm chipset. It is designed to support MU-MIMO, Wave 2.0, OFDMA, and Seamless Roaming, making it ideal for high-density environments such as university campuses, office buildings, and public venues.

With dual-band connectivity, the AP530 provides a combined 3000Mbps Wi-Fi speed over 2.4GHz (600Mbps) and 5GHz (2400Mbps). The inclusion of 2.5Gbps WAN & LAN ports ensures high-speed wired connectivity without bottlenecks.

Appearance	Description
CAir Pro -	 High-Speed Connectivity: Wireless data rate up to 3000Mbps 1024-QAM Modulation: Enables high-speed applications such as VR/AR and 8K streaming Target Wake-Up Time (TWT): Reduces device power consumption by scheduling transmissions Extended Wi-Fi Coverage: Supports long OFDM symbol transmission for improved signal reliability Enhanced Anti-Interference: BSS Color Bit & Dynamic CCA-SD for reducing congestion in multi-user environments

TECHNICAL SPECIFICATIONS

Hardware Specifications:

- Model: AIR-AP530-R2
- Wireless Standard: 802.11ax/ac/b/g/n
- Frequencies:
 - 2.4GHz: 802.11b/g/n/ax (2.4GHz 2.484GHz)
 - 5.8GHz: 802.11a/n/ac/ax (5150MHz 5850MHz)
- Interfaces:
 - 1 × 10/100/1000/2500Mbps RJ45 WAN Port
 - 1 × 10/100/1000Mbps RJ45 LAN Port
 - 1 × Reset Button
 - 1 × Blue-tooth (Optional)
 - 1 × DC Power Port
- Antenna: IPEX Connector, 4 × 4dBi Dual-Band Omni Antennas
- Max Supported Users: 200+
- RF Power:
 - 2.4GHz: ≤ 20dBm
 - 5.8GHz: ≤ 19dBm
- Power Input:
 - PoE (IEEE 802.3at+): 48V
 - DC Adapter: 12V/2A
- Max Power Consumption: ≤ 22W
- Device Dimensions: 198mm × 198mm × 41mm



TECHNICAL SPECIFICATIONS

Firmware & Management Features:

- Operating Modes: Gateway, AP
- SSID Management:
 - Multiple SSIDs (4 for 2.4GHz, 4 for 5GHz)
 - SSID Hiding & Seamless Roaming (802.11kvr standard)
- Security:
 - Open, WPA, WPA2-PSK (TKIP/AES), WPA2-EAP, 802.1x Authentication
 - MAC Filtering & Client Isolation
 - Wi-Fi Scheduling: Configure time-based activation for power saving
 - User Management: Max 64 users per band
- Networking:
 - VLAN Configuration
 - 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

Antenna Specifications:

- Frequency Range: 2.4GHz & 5.8GHz
- Impedance: 50 Ohms nominal
- Gain: 4dBi
- Radiation: Omni
- Polarization: Vertical

Package Contents:

- AIR-AP530-R2 11ax 3000Mbps Ceiling Wireless Access Point
- Ethernet Cable
- Quick Installation Guide
- Mounting Accessories

Environmental Conditions:

- Operating Temperature: -20°C to 45°C
- Storage Temperature: 0°C to 70°C
- Humidity: 5% 95% (non-condensing)

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