


11ax 3000Mbps Ceiling Wireless AP

OVERVIEW

The AIR-AP530 is a high-power WiFi 6 (802.11ax) Ceiling Mount Wireless Access Point powered by a Qualcomm chipset. Designed for high-density access environments, it supports MU-MIMO, Wave 2.0, OFDMA, and Seamless Roaming to ensure optimal performance in enterprise and public spaces such as university campuses, concert venues, and office buildings.

With dual-band connectivity, the AP530 provides a combined 3000Mbps Wi-Fi speed over 2.4GHz (600Mbps) and 5GHz (2400Mbps). It also features 1Gbps WAN & LAN ports, ensuring high-speed wired connectivity with minimal bottlenecks.

Appearance	Description
	<ul style="list-style-type: none">• High-Speed Connectivity: Wireless data rates up to 3000Mbps• Advanced 1024-QAM Modulation: Increases efficiency and supports 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
- **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 x 10/100/1000Mbps RJ45 WAN Port
 - 1 x 10/100/1000Mbps RJ45 LAN Port
 - 1 x Reset Button
 - 1 x Blue-tooth (Optional)
 - 1 x DC Power Port
- **Antenna:** IPEX Connector, 4 x 5dBi Dual-Band Omni Antennas
- **Max Supported Users:** Up to 200 simultaneous connections
- **RF Power:**
 - 2.4GHz: ≤ 23dBm
 - 5.8GHz: ≤ 22dBm
- **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

Package Contents:

- AIR-AP530 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)