

AIR-AP605C-X1(V2)

1800Mbps Indoor Wi-Fi 6 (11ax) Dual Band Enterprise AP

PRODUCT OVERVIEW

The AIR-AP605C-X1(V2) is an enterprise-grade dual-radio Wi-Fi 6 (IEEE 802.11ax) indoor access point engineered to deliver high-capacity, low-latency wireless connectivity for modern business environments. Designed for high-density deployments, it combines advanced RF technologies with Gigabit Ethernet connectivity to provide reliable performance for offices, educational institutions, hospitality, healthcare, retail, and other mission-critical wireless networks.

Featuring concurrent operation in the 2.4 GHz and 5 GHz frequency bands, the AIR-AP605C-X1(V2) delivers an aggregate wireless throughput of up to 1.775 Gbps. The 2.4 GHz radio supports data rates of up to 575 Mbps, while the 5 GHz radio provides up to 1,200 Mbps, ensuring optimal performance for both legacy and next-generation wireless clients.



Wi-Fi 6 (IEEE 802.11ax) Technology

Built on the Wi-Fi 6 architecture, the AIR-AP605C-X1(V2) incorporates technologies such as MU-MIMO, OFDMA, 1024-QAM, BSS Coloring, Target Wake Time (TWT), and advanced spatial multiplexing to improve network efficiency, increase client capacity, reduce airtime contention, and optimize power consumption for connected devices. These capabilities enable consistent user experience even in environments with a large number of simultaneously connected clients.

Centralized Management

The AIR-AP605C-X1(V2) is designed to support centralized cloud or controller-based management, enabling simplified deployment, configuration, monitoring, security policy enforcement, and lifecycle management across distributed enterprise wireless networks.

Key Features

Wi-Fi 6 (IEEE 802.11ax) Dual-Band 2x2 MIMO

Up to 1.775 Gbps aggregate wireless throughput

Supports 128 concurrent wireless clients

Intelligent RF optimization with Dynamic Channel Assignment (DCA)

Airtime Fairness and High-Density Client Optimization

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HARDWARE SPECIFICATIONS

Specification	AIR-AP605C-X1(V2)
Product Type	Indoor Enterprise Wi-Fi 6 (802.11ax) Access Point
Dimensions (W × D × H)	180 × 180 × 28.5 mm
Uplink Interface	1 × 10/100/1000Base-T Gigabit Ethernet (PoE)
Power Supply	IEEE 802.3at PoE or External DC Adapter (Input: 100–240 VAC, Output: 12 VDC / 1.5 A)
Maximum Power Consumption	< 13 W
LED Indicators	Power Status
Antenna	Integrated Dual-Band Omni-directional Antennas
Antenna Gain	2.4 GHz: 5 dBi 5 GHz: 5 dBi
Operating Frequency	2.4 GHz: 2.400–2.4835 GHz (802.11b/g/n/ax) 5 GHz: 5.150–5.350 GHz, 5.470–5.725 GHz, 5.725–5.850 GHz (802.11a/n/ac Wave 2/ax)
Supported Wireless Standards	IEEE 802.11a/b/g/n/ac Wave 2/ax
Modulation Technology	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: MIMO-OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac Wave 2: MIMO-OFDM (up to 256-QAM) 802.11ax: OFDMA & MIMO (up to 1024-QAM)
Maximum Transmit Power	2.4 GHz: Up to 23 dBm 5 GHz: Up to 22 dBm*
Transmit Power Adjustment	1 dBm Increment
Operating Temperature	–10°C to +50°C
Storage Temperature	–40°C to +70°C
Operating Humidity	5%–95% RH (Non-condensing)
Storage Humidity	5%–95% RH (Non-condensing)
Ingress Protection	IP41
Deployment	Ceiling or Wall Mount (Indoor)

Enterprise-Class Wi-Fi 6 Performance

The AIR-AP605C-X1(V2) is a dual-radio indoor wireless access point designed for enterprise and commercial deployments. Supporting IEEE 802.11ax technology with simultaneous operation in the 2.4 GHz and 5 GHz frequency bands, it delivers an aggregate wireless throughput of up to 1.775 Gbps while providing reliable connectivity for high-density client environments.

High-Density Client Connectivity

Optimized for modern enterprise wireless networks, the AIR-AP605C-X1(V2) supports up to 128 concurrent wireless clients, delivering consistent performance for business applications, voice, video, collaboration, and IoT connectivity.

Multi-SSID and Granular Access Control

The access point supports up to 8 independent wireless networks (SSIDs), enabling logical separation of users, devices, and services. Each SSID can be individually configured with dedicated security policies, VLAN assignments, user authentication, traffic isolation, bandwidth management, and access control based on user or device attributes.

Flexible Deployment Options

Designed for diverse installation environments, the AIR-AP605C-X1(V2) supports multiple mounting methods including ceiling, wall, and T-grid ceiling installations, allowing rapid deployment across offices, educational campuses, hospitality venues, healthcare facilities, and commercial buildings.

Standards-Based Power over Ethernet

The AIR-AP605C-X1(V2) supports IEEE 802.3af and IEEE 802.3at Power over Ethernet (PoE), allowing both power and data transmission over a single Ethernet cable. This simplifies installation, minimizes cabling requirements, and ensures compatibility with standards-compliant enterprise switching infrastructure.

Flexible Operating Modes

To accommodate different deployment scenarios, the AIR-AP605C-X1(V2) supports multiple operating modes including Controller-Managed (Fit AP), Standalone (Fat AP), and Bridge Mode. Administrators can select the most appropriate operating mode based on network architecture, scalability requirements, and operational preferences.

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SOFTWARE SPECIFICATIONS

Specification	AIR-AP605C-X1(V2)
Product Positioning	Indoor Dual-Band Enterprise Access Point
Operating Frequency	2.4 GHz & 5 GHz
Maximum Wireless Throughput	Up to 1.775 Gbps
Virtual APs (BSSID)	Up to 8 (4 per radio)
Maximum Concurrent Clients	128
Spatial Streams	2×2 MIMO (2.4 GHz), 2×2 MIMO (5 GHz)
Dynamic Channel Assignment (DCA)	Supported
Hidden SSID	Supported
RTS/CTS Protection	Supported
RF Environment Scanning	Supported
Hybrid Access Mode	Supported
Client Access Control	Maximum user limit per AP
Link Integrity Detection	Supported
Client Admission Control	Signal strength-based client access
Smart Roaming	Signal strength-based client steering
Airtime Fairness	Supported
High-Density Optimization	Supported

IEEE 802.11AX (WI-FI 6) ENHANCEMENTS

Specification	AIR-AP605C-X1(V2)
Spatial Streams	2×2 MIMO (2.4 GHz & 5 GHz)
Dual-Band Operation	Simultaneous 2.4 GHz + 5 GHz
80 MHz Channel Bandwidth	Supported
PHY Data Rate	Up to 1,200 Mbps (5 GHz Radio)
A-MPDU Frame Aggregation	Supported
A-MSDU Frame Aggregation	Supported
Maximum Likelihood Demodulation (MLD)	Supported

Transmit Beamforming (TxBF)	Supported
Maximum Ratio Combining (MRC)	Supported
Space-Time Block Coding (STBC)	Supported
Low-Density Parity Check (LDPC)	Supported

SECURITY FEATURES

Specification	AIR-AP605C-X1(V2)
Wireless Encryption	64/128-bit WEP, WPA2, WPA3, WPA2 Enterprise, WPA3 Enterprise, TKIP, AES-CCMP
IEEE 802.11i	Supported
Captive Portal Authentication	Supported
MAC Authentication	Supported
LDAP Authentication	Supported
PEAP Authentication	Supported
Secure AP Authentication	MAC Authentication, Password Authentication, Digital Certificate Authentication
Protected Management Frames (802.11w)	Supported
Frame Filtering	Supported
MAC Whitelist	Supported
Static & Dynamic Blacklist	Supported
Client Isolation	Supported
Scheduled SSID Enable/Disable	Supported
Free Resource Access Control	Supported
Access Control Lists (ACL)	MAC, IPv4 & IPv6 ACLs

FORWARDING & ROAMING

Specification	AIR-AP605C-X1(V2)
IP Address Assignment	Static IP or DHCP
IPv6 Support	Native IPv6 Forwarding

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IPv6 Portal Authentication	Supported
Local Forwarding	Supported
Multicast Optimization	IGMP Snooping
Layer-2/Layer-3 Roaming	Supported
Intelligent Roaming Decision	Based on RSSI, Signal Strength, BER, SNR, AP Health & Neighbor Information

QUALITY OF SERVICE (QOS)

Specification	AIR-AP605C-X1(V2)
Wi-Fi Multimedia (WMM)	Supported
IEEE 802.1p Priority Mapping	Supported
Wireless-to-Wired QoS Mapping	Supported
SSID/VLAN QoS Policies	Supported
Layer 2-Layer 4 Traffic Classification	MAC, IPv4 & IPv6
Load Balancing	Based on Client Count, Traffic Load & Frequency Band
Bandwidth Control	Per AP, SSID, Client & Application Flow
Power Saving Mode	Supported
Automatic AP Self-Recovery	Supported

Intelligent Client Identification	Supported
Multicast Optimization	Multicast-to-Unicast Conversion

MANAGEMENT

Specification	AIR-AP605C-X1(V2)
Network Management	Centralized Management via Wireless Access Controller (AC); Supports Fit & Fat Modes
Mesh Networking	Central AP Managed Wireless Mesh
Maintenance	Local & Remote Management
Logging	Local Logs, Syslog & Log Export
Alarm Management	Supported
Fault Detection	Supported
Performance Statistics	Supported
Operating Modes	Fit, Fat (Standalone) & Bridge Mode
Mode Switching	Remote switching between Fit/Fat/Bridge modes through AC, Web GUI or Telnet

APPLICATION ENVIRONMENT

- Hotels and resorts
- Healthcare facilities
- Auditoriums



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