

AIR-AP605C-AX-R2

Enterprise-Class Dual-Band Wi-Fi 6 Indoor Access Point

Delivering up to 3.57 Gbps High-Speed Wi-Fi 6 Connectivity
with 2.5GbE Uplink, Cloud Management, and Enterprise-Grade Security

KEY FEATURES

- IEEE 802.11ax/be with backward compatibility to Wi-Fi 6/5/4
- Aggregate wireless throughput up to 3.57 Gbps
- Dual-band 2x2 MIMO architecture (2.4 GHz + 5 GHz)
- 688 Mbps @ 2.4 GHz and 3 Gbps @ 5 GHz
- 240 MHz channel bandwidth and 4096-QAM for higher network efficiency
- OFDMA, MU-MIMO, Beamforming, and BSS Coloring for optimized wireless performance
- 2.5 Gigabit Ethernet uplink with IEEE 802.3af/at PoE
- IEEE 802.3az is the IEEE standard for Energy Efficient Ethernet (EEE).
- Standalone, Controller-Based (Fit), and Bridge operating modes
- Supports up to 256 concurrent users for high-density deployments
- Enterprise-grade security with WPA3, 802.1X authentication, ACLs, and WIDS/WIPS
- Ideal for enterprise, education, healthcare, hospitality, retail, government, and campus environments



PRODUCT OVERVIEW

The AirPro AIR-AP605C-AX-R2 is a next-generation enterprise-class dual-band Wi-Fi 6 indoor access point engineered to deliver high-speed, secure, and reliable wireless connectivity for modern enterprise environments. Built on the latest IEEE 802.11ax/be standard with backward compatibility for IEEE 802.11ax (Wi-Fi 6) and earlier wireless technologies, the access point provides an aggregate wireless throughput of up to 3.57 Gbps, making it ideal for bandwidth-intensive and high-density deployments.

The AIR-AP605C-AX-R2 features dual-radio architecture, operating simultaneously in the 2.4 GHz and 5 GHz frequency bands. It supports advanced Wi-Fi technologies including 4096-QAM modulation, 240 MHz channel bandwidth, OFDMA, MU-MIMO, Beamforming, BSS Coloring, and intelligent RF optimization to maximize network efficiency, increase capacity, and reduce latency in high-density wireless environments.

The 2.4 GHz radio delivers data rates of up to 688 Mbps, providing reliable coverage for legacy and IoT devices, while the 5 GHz radio supports speeds of up to 2.882 Gbps, enabling exceptional performance for real-time applications such as UHD video streaming, cloud collaboration, virtual desktops, voice communications, and AI-enabled enterprise applications.

Designed for seamless deployment and simplified network management, the AIR-AP605C-AX-R2 supports Standalone (Fat), Controller-Based (Fit), and Bridge operating modes, allowing organizations to deploy the access point in a wide range of enterprise network architectures. With support for 2.5 Gigabit Ethernet uplink, PoE (IEEE 802.3af/at), advanced enterprise security, centralized cloud management, and intelligent roaming, the AIR-AP605C-AX-R2 provides a scalable, future-ready wireless infrastructure for digital transformation initiatives.

The AIR-AP605C-AX-R2 is an ideal solution for enterprise campuses, corporate offices, educational institutions, healthcare facilities, hospitality, government organizations, retail environments, warehouses, and manufacturing facilities, where high-performance wireless connectivity, enterprise-grade security, and simplified management are essential.

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WIRELESS SPECIFICATIONS

Specification	AIR-AP605C-AX-R2
Wireless Standard	IEEE 802.11a/b/g/n/ac/ax/be
Frequency Bands	2.4 GHz + 5 GHz
Radio Architecture	Dual Radio, Dual Band
MIMO	2x2 2.4 GHz + 2x2 5 GHz
Maximum Data Rate	Up to 3.688 Gbps
2.4 GHz Throughput	Up to 688 Mbps
5 GHz Throughput	Up to 3000 Mbps
Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
Channel Width	Up to 240 MHz
Max. Concurrent Users	256
Virtual AP (SSID)	32

HARDWARE SPECIFICATIONS

Specification	AIR-AP605C-AX-R2
Ethernet Uplink	1 × 2.5G RJ45
Fiber Uplink	1 × 2.5G SFP
LAN Port	1 × Gigabit Ethernet
USB Interface	1 × USB 2.0
Console Port	RJ45 Console
Bluetooth	BLE Supported
Reset Button	Yes
LED Indicator	System Status LED
Power Supply	IEEE 802.3af/at PoE or 48V DC
Max. Power Consumption	<16 W
Antenna	Internal Dual-Band High-Gain Antennas
Mounting	Ceiling, Wall, T-Rail
Dimensions	260 × 160 × 32.5 mm
Protection Rating	IP41

RF PERFORMANCE

Specification	AIR-AP605C-AX-R2
Antenna Type	Internal Dual-Band
Antenna Gain	5 dBi
Transmit Power (2.4 GHz)	Up to 23 dBm
Transmit Power (5 GHz)	Up to 22 dBm
Power Adjustment	1 dBm Step
Dynamic Channel Assignment	Supported
Transmit Power Control	Supported
Beamforming	Supported
Maximum Ratio Combining (MRC)	Supported
STBC	Supported
LDPC	Supported

ENTERPRISE WIRELESS FEATURES

Specification	AIR-AP605C-AX-R2
Dynamic Channel Assignment (DCA)	Yes
Transmit Power Control (TPC)	Yes
Band Steering	Yes
Airtime Fairness	Yes
Intelligent Roaming	Yes
Client Load Balancing	Yes
RF Environment Scanning	Yes
Blind Spot Detection	Yes
Hybrid Access	Yes
SSID Hiding	Yes
RTS/CTS	Yes
High Density Optimization	Yes
Client Steering	Yes

Wi-Fi 6/7 ENHANCEMENTS

Specification	AIR-AP605C-AX-R2
IEEE 802.11be	Yes
4096-QAM	Yes
MU-MIMO	Yes
OFDMA	Yes
A-MPDU	Yes
A-MSDU	Yes
Multi-Link Operation (MLO)*	Supported (if available)
Beamforming	Yes
BSS Coloring	Yes
Spatial Streams	2x2 + 2x2

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SECURITY FEATURES

Specification	AIR-AP605C-AX-R2
WPA3 Enterprise	Yes
WPA2 Enterprise	Yes
WPA2/WPA3 PSK	Yes
IEEE 802.1X	Yes
Portal Authentication	Yes
LDAP Authentication	Yes
PEAP Authentication	Yes
MAC Authentication	Yes
ACL	Yes
Wireless SAVI	Yes
WIDS / WIPS	Yes
Anti-DoS Protection	Yes
User Isolation	Yes
Management Frame Protection (802.11w)	Yes

QOS FEATURES

Specification	AIR-AP605C-AX-R2
WMM	Yes
802.1p Priority	Yes
DSCP Mapping	Yes
Layer 2–Layer 4 Classification	Yes
Traffic Prioritization	Yes
Bandwidth Control	Per AP / SSID / User
Call Admission Control	Yes
Load Balancing	User / Traffic / Band Based

NETWORK SERVICES

Specification	AIR-AP605C-AX-R2
IPv4	Yes
IPv6	Yes
DHCP Client	Yes
Static IP	Yes
Local Forwarding	Yes
Centralized Forwarding	Yes
IGMP Snooping	Yes
Roaming	Yes
WDS	Yes
Mesh Networking	Yes

MANAGEMENT

Specification	AIR-AP605C-AX-R2
Controller Managed	Yes
Standalone Mode	Yes
Fit AP	Yes
Fat AP	Yes
Bridge Mode	Yes
Zero Touch Provisioning	Yes
Remote Upgrade	Yes
SNMP	Yes
Syslog	Yes
Alarm	Yes
Watchdog	Yes
Remote Maintenance	Yes
Statistics	Yes
Remote Packet Analysis	Yes

ENVIRONMENTAL SPECIFICATIONS

Specification	AIR-AP605C-AX-R2
Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5%–95% Non-Condensing
Storage Humidity	5%–95% Non-Condensing
Protection Rating	IP41

CERTIFICATIONS

Specification	AIR-AP605C-AX-R2
Wi-Fi 6	Supported
CE	Compliant
ITSAR	Compliant
TEC	Compliant
ETA WPC	Compliant



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Canada Office

AIRPRO NETWORKS
North York, Toronto, Canada, M2J1M6
E-mail: sales@airpronetworks.com
www.airpronetworks.com

Vietnam Office

4th Floor, No. 97, Street 37,
Van Phuc Urban Area,
Hiep Binh Ward, Ho Chi Minh City, Vietnam
Email: sales@airpronetworks.com.vn
Phone: +84931329911
www.airpronetworks.com

India Office

AIRPRO TECHNOLOGY (I) PVT. LTD.
C-53, 3rd floor, Pravasi Industrial Estate, Off Aarey Road,
Vishweshwar Nagar Road, Goregaon East, Mumbai 400 063
E-mail: sales@airpronetworks.com
www.airpronetworks.com

Singapore Office

AIRPRO TECHNOLOGY PTE. LTD. (202444757D)
628 JURONG WEST STREET
65, #16-398, SINGAPORE (640628)
E-mail: sales@airpronetworks.com.sg

Thailand Office

425/1 Enco Terminal Building B, 4th Floor,
Kamphaeng Phet 6 Road, Don Mueang District,
Don Mueang Subdistrict,
Bangkok Thailand 10210



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UAE Office

Ras Al Khaimah:

AIRPRO FZ-LLC,
CWEP0213, Compass Building, Al Shohada Road,
AL Hamra Industrial Zone-FZ, Ras Al Khaimah,
United Arab Emirates
E-mail: sales@airpro.ae
www.airpro.ae

Dubai:

#205 Al Jahra Building,
Khalid Bin Al Waleed Rd -
Bur Dubai - Dubai,
United Arab Emirates

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