

AIR-AP620C-AX
(Version-2)

Indoor Wi-Fi 7 Tri-Band Enterprise Access Point

KEY FEATURES

Ultra-High Wi-Fi 7 Performance

- Up to 9.33 Gbps aggregate wireless throughput
- Tri-band operation:
 - 2.4 GHz
 - 5 GHz
 - 6 GHz
- Supports IEEE 802.11a/b/g/n/ac/ax/be
- Advanced 4096-QAM modulation for higher transmission efficiency
- Optimized for high-density enterprise environments

Intelligent RF Optimization

Advanced RF management capabilities help maintain optimal wireless performance across dynamic enterprise environments.

Features include:

- Dynamic Channel Adjustment (DCA)
- Transmit Power Control (TPC)
- RF environment scanning
- Intelligent interference mitigation
- Airtime fairness optimization
- Smart client steering and roaming



PRODUCT OVERVIEW

The AIRPRO AIR-AP620C-AX (Version-2) is a next-generation enterprise Wi-Fi 7 indoor access point designed to deliver ultra-high-performance wireless connectivity for modern digital workplaces, campuses, hospitality environments, healthcare facilities, and high-density enterprise deployments.

Built on the IEEE 802.11be standard, the AIR-AP620C-AX (Version-2) provides tri-band operation across 2.4 GHz, 5 GHz, and 6 GHz with an aggregate wireless capacity of up to 9.33 Gbps. Advanced Wi-Fi 7 technologies including 4096-QAM, Multi-Link Operation (MLO), intelligent RF optimization, and high-speed multi-gigabit uplinks ensure exceptional throughput, lower latency, and enhanced user experiences in demanding wireless environments.

The AP supports flexible deployment modes including Fit, Fat, and Bridge operation, enabling seamless integration into enterprise wireless architectures.

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Enterprise-Grade Connectivity

Designed for modern enterprise networks with high-speed wired connectivity.

Uplink Interfaces

- 1 × 1/2.5G Ethernet Port
- 1 × 1/10G SFP+ Port

Additional Interfaces

- 1 × Gigabit Downlink Port
- USB 2.0
- RJ-45 Console Port
- BLE Support

Enhanced User Experience

The AIR-AP620C-AX (V2) incorporates advanced wireless technologies to improve coverage, reliability, and performance.

Advanced Wireless Technologies

- Multi-Link Operation (MLO)
- Transmit Beamforming (TxBF)
- Maximum Ratio Combining (MRC)
- Space-Time Block Coding (STBC)
- Low-Density Parity-Check (LDPC)
- A-MPDU / A-MSDU aggregation

Enterprise Security

Comprehensive enterprise-class security mechanisms protect users, devices, and wireless infrastructure.

Security Features

- WPA / WPA2 / WPA3
- 802.1X Authentication
- Portal Authentication
- WIDS / WIPS
- MAC Authentication
- AD/LDAP Authentication
- Dynamic & Static Blacklists
- Wireless User Isolation
- Management Frame Protection (802.11w)

Flexible Deployment Modes

Supports multiple deployment architectures for enterprise flexibility.

- Fit AP Mode
- Fat AP Mode
- Bridge Mode

Centralized management is supported through AIRPRO wireless controllers.

WI-FI 7 TECHNOLOGY ENHANCEMENTS

Features	
4096-QAM	Higher throughput and improved spectral efficiency
Multi-Link Operation (MLO)	Simultaneous multi-band transmission for lower latency
TxBF	Enhanced signal focusing for improved coverage
MRC	Improved receiver sensitivity
STBC	Increased transmission reliability
LDPC	Efficient forward error correction
Frame Aggregation	Improved transmission efficiency

HARDWARE SPECIFICATIONS

Specification	AIR-AP620C-AX (Version-2)
Dimensions	260 × 160 × 32.5 mm
Wireless Standard	IEEE 802.11a/b/g/n/ac/ax/be
Frequency Bands	2.4 GHz, 5 GHz, 6 GHz
Aggregate Throughput	Up to 9.33 Gbps
Spatial Streams	12 Streams
Antennas	Built-in 2.4G / 5G / 6G Antennas
Max Power Consumption	<25.5W
Power Supply	802.3af/at PoE or 48V DC
BLE	Supported
USB Port	1 × USB 2.0
Console Port	RJ-45
Protection Rating	IP41
Operating Temperature	0°C to 45°C
Storage Temperature	−40°C to +70°C

WIRELESS SPECIFICATIONS

Radio	Maximum Data Rate
2.4 GHz	688 Mbps
5 GHz	2882 Mbps
6 GHz	5760 Mbps

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WLAN FEATURES

Features	
Dynamic Channel Adjustment	Yes
Transmit Power Control	Yes
SSID Hiding	Yes
Airtime Fairness	Yes
Intelligent Roaming	Yes
High-Density Optimization	Yes
Mesh Networking	Yes
IPv6 Forwarding	Yes
Local Forwarding	Yes
QoS / WMM	Yes
Bandwidth Control	Yes
Load Balancing	Yes
Multicast Enhancement	Yes

QUALITY OF SERVICE (QOS)

Advanced QoS capabilities ensure optimized application delivery for voice, video, and mission-critical traffic.

Features include:

- WMM Support
- Priority Mapping
- SSID-based QoS Policies
- VLAN-based QoS Policies
- L2–L4 Packet Classification
- Bandwidth Limiting
- Call Admission Control (CAC)

MANAGEMENT & MAINTENANCE

The AIR-AP620C-AX (V2) supports centralized and simplified wireless network management.

Management Features:

- Centralized Controller Management
- Local & Remote Maintenance
- Syslog Support
- Alarm & Fault Detection
- Traffic Statistics
- Remote Probe Analysis
- Watchdog Protection

IDEAL DEPLOYMENT SCENARIOS

- Enterprise Offices
- Smart Campuses
- Hospitality & Hotels
- Healthcare Facilities
- Educational Institutions
- Large Retail Environments
- High-Density Public Venues

ORDERING INFORMATION

Product Model	Description
AIR-AP620C-AX (Version-2)	Indoor Wi-Fi 7 Tri-Band Enterprise Access Point with 10G SFP+ uplink, 2.5GE Ethernet, BLE, and centralized management support

SUMMARY

Delivering next-generation Wi-Fi 7 connectivity with intelligent performance optimization, enterprise-grade security, and scalable wireless architecture for modern digital enterprises.



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All specifications in this document are subject to change without notice. AirPro products are sold with a limited warranty described at: www.airpronetworks.com

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