AIR-AP660N-BE

Enterprise Wi-Fi 7

PRODUCT OVERVIEW

The AirPro AIR-AP660N-BE is designed on the latest IEEE 802.11be (Wi-Fi 7) standard, delivering next-generation wireless performance for high-density enterprise environments. With support for dual-band operation, Multi-User MIMO (MU-MIMO), OFDMA, 4096-QAM modulation, and intelligent RF optimization, the access point significantly increases network capacity while reducing latency and improving overall user experience.

The access point supports a combined wireless throughput of up to 3.57 Gbps, making it ideal for high-bandwidth applications such as UHD video streaming, cloud collaboration, AI-powered applications, virtual desktops, and large-scale enterprise mobility.



Wi-Fi 7 (IEEE 802.11be) Technology

The AIR-AP660N-BE incorporates the latest Wi-Fi 7 enhancements to deliver higher throughput, improved spectral efficiency, and lower latency compared to previous wireless generations.

Key Wi-Fi 7 Technologies

Technology	Benefit
IEEE 802.11be	Next-generation wireless standard
4096-QAM	20% higher throughput than Wi-Fi 6
OFDMA	Efficient channel utilization
MU-MIMO	Simultaneous communication with multiple clients
MLO	Multi-Link Operation
240 MHz Channel Width	Higher data transmission rates
Beamforming	Improved coverage and signal quality
Airtime Fairness	Equal wireless resource allocation
Intelligent Roaming	Seamless mobility between APs

These technologies enable the AP to provide exceptional wireless performance even in dense environments such as corporate offices, universities, hospitals, convention centers, and retail stores.

HIGH-DENSITY WIRELESS OPTIMIZATION

The AIR-AP660N-BE is engineered for environments with large numbers of concurrent wireless users.

Advanced client management capabilities include:

- Intelligent Client Steering
- Dynamic Channel Assignment (DCA)
- Automatic Transmit Power Control (TPC)
- Band Steering
- Airtime Fairness
- Client Load Balancing
- RF Environment Scanning
- Blind Spot Detection & Recovery
- Signal-Based Client Roaming
- Access Control Based on RSSI

These mechanisms automatically optimize client distribution across access points, reducing congestion while maintaining consistent application performance for all connected users.

ENTERPRISE-CLASS HARDWARE PLATFORM

The AIR-AP660N-BE is built on an enterprise-grade hardware platform designed to support future wireless applications.

HARDWARE SPECIFICATIONS

Specification	AIR-AP660N-BE
Wireless Standard	IEEE 802.11a/b/g/n/ac/ax/be
Frequency Bands	2.4 GHz + 5 GHz / 6GHz
Maximum Throughput	3.57 Gbps
Spatial Streams	2×2 2.4 GHz + 2×2 5 GHz/6GHz
Ethernet Uplink	1 × 2.5G RJ45
Fiber Uplink	1 × 2.5G SFP
Downlink Port	1 × Gigabit Ethernet
BLE	Bluetooth Low Energy
USB	USB 2.0
Console	RJ45 Console
Antenna	Integrated High-Gain Dual-Band Antennas
Power	IEEE 802.3af/at PoE or 48V DC
Power Consumption	<16 W
Mounting	Ceiling, Wall, T-Rail

The integrated 2.5 Gigabit Ethernet and 2.5G SFP uplink interfaces ensure the wired infrastructure does not become a bottleneck for Wi-Fi 7 performance.

ENTERPRISE SECURITY

Security is embedded throughout the wireless architecture to protect enterprise users and corporate data.

Supported enterprise security technologies include:

Authentication:

- IEEE 802.1X
- WPA3 Enterprise
- WPA2 Enterprise
- WPA-PSK
- Portal Authentication
- MAC Authentication
- LDAP Authentication
- PEAP Authentication

Network Protection:

- WIDS/WIPS
- Anti-DoS Protection
- Rogue AP detection
- Wireless SAVI
- Dynamic Blacklist
- Static Blacklist
- Access Control Lists (ACL)
- User Isolation
- SSID Isolation
- Secure AP Authentication
- Management Frame Protection (802.11w)

These capabilities provide secure access control while protecting the wireless network against unauthorized users and malicious attacks.

INTELLIGENT QUALITY OF SERVICE (QoS)

To ensure superior performance for real-time applications, the AIR-AP660N-BE incorporates advanced Quality of Service mechanisms.

QoS capabilities include:

- Wi-Fi Multimedia (WMM)
- IEEE 802.1p Priority Mapping
- Layer 2–Layer 4 Traffic Classification
- SSID-Based QoS Policies
- VLAN-Based QoS
- Application-Based Traffic Prioritization
- User-Based Bandwidth Limiting
- AP-Based Bandwidth Limiting
- Call Admission Control (CAC)

These features enable reliable delivery of voice, video conferencing, virtual desktop infrastructure, and cloud applications while minimizing latency and packet loss.

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WIRELESS CONTROLLER INTEGRATION

The AIR-AP660N-BE operates seamlessly with AirPro Wireless Controllers, providing centralized configuration, monitoring, policy enforcement, and firmware management.

Supported deployment modes include:

- Fit AP
- Fat AP
- Bridge Mode

Administrators can dynamically switch operating modes according to network requirements without replacing hardware.

INTELLIGENT NETWORK MANAGEMENT

The access point offers comprehensive management and maintenance features.

Management Features:

- Zero Touch Provisioning
- Centralized Controller Management
- Remote Firmware Upgrade
- Configuration Backup
- Local & Remote Maintenance
- Syslog
- SNMP
- Alarm Management
- Fault Detection
- Statistics Collection
- Remote Packet Analysis
- Automatic Recovery

These capabilities reduce operational costs while simplifying network deployment and maintenance.

ENTERPRISE APPLICATIONS

The AIR-AP660N-BE is suitable for a wide range of enterprise deployments, including:

- Corporate Offices
- Smart Campuses
- Universities
- Hospitals
- Hotels & Resorts
- Shopping Malls
- Government Institutions
- Manufacturing Plants
- Warehouses
- Airports
- Convention Centers
- Retail Chains
- Banking & Financial Institutions

Its high-density design and enterprise security make it well suited for mission-critical wireless environments.

KEY TECHNICAL ADVANTAGES

Specification	AIR-AP660N-BE
Wi-Fi Standard	Latest IEEE 802.11be (Wi-Fi 7)
Wireless Speed	Up to 3.57 Gbps
Client Capacity	Up to 256 Concurrent Users
Virtual APs	32 SSIDs
Uplink	2.5G RJ45 + 2.5G SFP
Power	802.3af/at PoE & 48V DC
Security	WPA(TKIP), WPA-PSK, WPA2(AES), WPA3, WEP(64/128 bits), WPA2/WPA3 802.1X Enterprise, WPA-PPSK
Management	Fit/Fat/Bridge Modes
QoS	Enterprise Layer 2–Layer 4 QoS
RF Optimization	DCA, TPC, Beamforming, Airtime Fairness
Deployment	Ceiling, Wall, T-Rail Mount

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