

AIR-WAP655

Wi-Fi 5 Indoor Access Point

Reliable Enterprise Wi-Fi for Small and Medium Businesses

The AIR-WAP655 is a high-performance indoor Wi-Fi 5 access point designed for enterprise and SMB wireless deployments. Supporting dual-band 802.11ac Wave 2 connectivity, the AP delivers aggregate wireless throughput up to 1.316 Gbps while enabling stable and secure wireless access for up to 128 concurrent users.

With enterprise-grade wireless optimization, flexible deployment modes, cloud management capabilities, and simplified PoE deployment, the AIR-WAP655 provides a cost-effective wireless solution for offices, educational institutions, retail environments, and hospitality applications.

KEY FEATURES

High-Performance Wi-Fi 5 Connectivity

- Dual-radio 802.11ac Wave 2 access point
- Aggregate wireless throughput up to 1.316 Gbps
- Dual-band operation across 2.4 GHz and 5 GHz
- 2x2 MIMO support on both radios
- Optimized for medium-density enterprise environments

Enterprise Wireless Optimization

- Supports up to 128 concurrent wireless clients
- Up to 16 virtual APs (BSSID)
- Dynamic RF optimization including:
 - Dynamic Channel Assignment (DCA)
 - Transmit Power Control (TPC)
 - Airtime Fairness
 - Load Balancing
 - Intelligent Roaming
- High-density deployment optimization

Flexible Deployment and Management

- Cloud-managed wireless architecture
- Centralized controller-based management
- Support for both Fit AP and Fat AP operating modes
- Seamless mode switching for deployment flexibility

Simplified Installation

- Compact low-profile design
- 802.3af PoE support
- Optional DC power adapter support
- Integrated omnidirectional antennas



PRODUCT OVERVIEW

The AIR-WAP655 is an enterprise-class indoor wireless access point engineered to provide stable and secure Wi-Fi connectivity for modern business environments. Built on the 802.11ac Wave 2 standard, the AP supports simultaneous dual-band wireless operation with optimized RF performance and intelligent client management.

The platform delivers:

- Up to 300 Mbps on the 2.4 GHz radio
- Up to 1016 Mbps on the 5 GHz radio
- Combined wireless throughput up to 1.316 Gbps

The AIR-WAP655 integrates advanced wireless technologies including:

- Beamforming (TxBF)
- LDPC
- STBC
- MRC
- A-MPDU frame aggregation
- Airtime Fairness

HARDWARE SPECIFICATIONS

Specification	AIR-WAP655
Dimensions	186 × 42.5 mm
Ethernet Interfaces	1 × 10/100/1000Base-T
Power Options	PoE 802.3af or DC 12V/1A
Maximum Power Consumption	<12W
Antennas	Integrated 2.4 GHz 4 dBi and 5 GHz 4 dBi antennas
Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% non-condensing
Protection Rating	IP31

WIRELESS SPECIFICATIONS

Specification	AIR-WAP655
Wireless Standards	802.11a/b/g/n/ac Wave 2
Frequency Bands	2.4 GHz and 5 GHz
Maximum Throughput	1.316 Gbps
Spatial Streams	2 × 2 (2.4 GHz), 2 × 2 (5 GHz)
Maximum Concurrent Clients	128
Virtual APs (BSSID)	16
Beamforming	Yes
Airtime Fairness	Yes
Dynamic Channel Assignment	Yes
RF Optimization	Yes
Fast Roaming	Yes
WDS	Yes

SECURITY FEATURES

The AIR-WAP655 provides enterprise-grade wireless security and user access control mechanisms.

Authentication and Encryption:

- WPA2/WPA3 security
- 802.1X authentication
- Portal authentication
- MAC authentication
- AD/LDAP authentication
- PEAP authentication
- WAPI support
- CCMP encryption

Wireless Security Protection:

- WIDS/WIPS support
- Wireless client isolation
- Dynamic and static blacklist support
- Anti-DoS protection
- 802.11w management frame protection
- ACL filtering for MAC, IPv4, and IPv6 traffic

QUALITY OF SERVICE (QoS)

Advanced QoS capabilities help prioritize business-critical traffic and improve user experience.

QoS Features:

- WMM support
- SSID-to-QoS mapping

- VLAN-based QoS policies
- Layer 2–Layer 4 traffic classification
- User-based and traffic-based load balancing
- Frequency band steering
- Per-user and per-SSID bandwidth control
- Multicast-to-unicast optimization

Management and Operations

Centralized Wireless Management:

- Controller-based centralized management
- Cloud platform integration
- Local and remote maintenance
- Syslog and local log export
- Alarm and fault monitoring
- Real-time statistics and troubleshooting

Operational Flexibility:

- Fit AP mode
- Fat AP mode
- Seamless operating mode switching
- Automatic AC discovery and provisioning
- Remote diagnostics and watchdog monitoring

Typical Deployment Scenarios

The AIR-WAP655 is ideal for:

- Small and medium offices
- Educational classrooms
- Retail stores
- Hospitality environments
- Clinics and healthcare facilities
- SMB wireless deployments

ORDERING INFORMATION

Product Model	Description
AIR-WAP655	Dual-band Wi-Fi 5 indoor access point with 2×2 MIMO, Gigabit Ethernet uplink, cloud and controller-based management, and 802.3af PoE support

TECHNICAL SUMMARY

Specification	AIR-WAP655
Wi-Fi Standard	Wi-Fi 5 (802.11ac Wave 2)
Radio Configuration	Dual-radio
Maximum Data Rate	1.316 Gbps
Deployment Type	Indoor
Power	PoE 802.3af or DC
Maximum Users	128
Management	Controller-based and cloud-managed
Mounting	Indoor ceiling or wall deployment

Designed for Modern SMB Wireless Networks

The AIR-WAP655 combines reliable Wi-Fi 5 performance, enterprise-grade wireless security, intelligent RF optimization, and cloud-based management into a compact indoor access point platform. It delivers secure and cost-effective wireless connectivity for growing business environments.



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