



Cisco

AIR-CAP2702I-H-K9

Datasheet

Product Overview

- The Cisco Aironet 2700 Series brings industry-leading 802.11ac performance to dense indoor environments.
- Ideal for enterprise offices, educational campuses, and commercial buildings for enhancing Wi-Fi capacity.
- Supports 802.11ac Wave 1, offering speeds up to 1.3 Gbps, nearly triple the rate of high-end 802.11n APs.
- Features innovations like Cross-AP Noise Reduction and Optimized AP Roaming for superior connectivity.
- Simplifies deployment and management with Cisco Unified Wireless Network integration for scalability.
- Enhances user experience providing seamless, high-speed connections in high-density environments.

Product Highlights

- **High Density Experience:** Purpose-built chipset with best-in-class RF architecture for mission-critical applications.
- **Innovative 3x4 MIMO:** Sustained 1.3 Gbps rate over larger range delivers greater capacity and reliability.
- **Optimized Connectivity:** Cross-AP Noise Reduction and Optimized AP Roaming for superior signal quality.
- **Enhanced Device Support:** ClientLink 3.0 technology improves downlink performance and battery life.
- **Advanced Interference Management:** CleanAir technology combats wireless interference using 80MHz channel support.

Detailed Features



AIR-CAP2702I-H-K9

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Component	Specification
Model	AIR-CAP2702I-H-K9
Interfaces	10/100/1000BASE-T autosensing (RJ-45), Management console port (RJ-45)
System memory	512 MB DRAM, 64 MB flash
Power consumption	15 Watts
IEEE standards	802.11a/b/g, 802.11n, 802.11h, 802.11d, 802.11ac Draft 5



Innovative Chipset for High Density

The Cisco Aironet 2700 Series APs feature a custom chipset with advanced RF architecture. This ensures high-density performance, tailored for critical enterprise applications that require top-notch connectivity and capacity. Combined with 3x4 MIMO technology, these APs support up to three spatial streams, sustaining speeds up to 1.3 Gbps over greater ranges compared to other APs.

Cross-AP Noise Reduction

A unique feature by Cisco, Cross-AP Noise Reduction allows access points to work together to manage RF conditions actively. This collaboration ensures that user devices connect with optimal signal quality, minimizing disruptions and enhancing performance even in noisy environments.

ClientLink 3.0 Technology

Optimizing downlink performance, ClientLink 3.0 boosts data rates for all devices, including newer 802.11ac devices and legacy 802.11n/g devices. This technology not only improves signal strength but also extends battery life of mobile devices, ensuring a better user experience across all mobile devices.

CleanAir Technology

With CleanAir technology, the 2700 Series APs offer proactive spectrum intelligence. They can detect and mitigate interference across 20-, 40-, and 80-MHz channels, ensuring that performance issues due to wireless interference are minimized. This is crucial for maintaining stable and high-speed wireless connections.

Optimized AP Roaming

This feature ensures that client devices connect to the access point that offers the fastest available data rate. Its particularly useful in environments where seamless mobility and uninterrupted connectivity are essential, such as large enterprise campuses and office buildings.

Comprehensive Antenna Support

The 2700 Series supports a wide range of 802.11n and 802.11ac antennas, allowing for optimal coverage in various deployment scenarios. This flexibility ensures that no matter the environment, there's an antenna configuration that will maximize performance and reliability.

Scalability and Integration

As part of the Cisco Unified Wireless Network, the 2700 Series APs seamlessly integrate with existing networks. This system can scale to support up to 18,000 APs, providing full Layer-3 mobility across multiple locations. This high level of scalability ensures secure and consistent wireless access as your network grows.

Lower Total Cost of Ownership

Cisco's Unified Wireless Network offers investment protection by integrating smoothly with existing wired networks. This reduces the overall total cost of ownership by leveraging your current infrastructure while extending high-performance wireless capabilities, making it a cost-effective solution for enterprises of all sizes.

Technical Specifications

Product Specifications

Feature	Value
Model	AIR-CAP2702I-H-K9
Brand	Cisco
Product Description	Cisco Aironet 2700 Series Access Points with Internal antennas
Device Type	Wireless Access point
Regulatory Domain	H regulatory domain
Supported wireless LAN controllers	Cisco 2500 Series Wireless Controllers, Flex 7500 Series Wireless Controllers, and more
Software	Cisco Unified Wireless Network Software Release 7.6MR2 or later
Data Rates Supported	802.11a: up to 54 Mbps, 802.11g: up to 54 Mbps, 802.11n on 2.4 GHz: up to 216.7 Mbps, 802.11ac on 5 GHz: up to 1.3 Gbps



Feature	Value
Maximum Channels	5 GHz: 21 (20 MHz), 9 (40 MHz), 4 (80 MHz); 2.4 GHz: 3 (20 MHz)
Antenna	Certified for use with antenna gains up to 6 dBi
Interfaces	10/100/1000BASE-T autosensing (RJ-45), Management console port (RJ-45)
System Memory	512 MB DRAM, 64 MB flash
Power Consumption	15 Watts
IEEE Standards	802.11a/b/g, 802.11n, 802.11h, 802.11d, 802.11ac Draft 5
Security	802.11i, WPA2, WPA, 802.1X, AES, TKIP
EAP Types	EAP-TLS, EAP-Tunneled TLS, MSCHAPv2, PEAP v0/v1, EAP-FAST, EAP-SIM
Frequency Bands	2.412 to 2.472 GHz; 5.150 to 5.350 GHz; 5.745 to 5.825 GHz
Environmental	Storage Temp: -22°F to 158°F, Operating Temp: -4°F to 122°F

Product Comparison

Feature	AIR-CAP2702I-H-K9	QW972A	JW818A
Data Rate	Up to 1.3 Gbps	Up to 1.2 Gbps	Up to 867 Mbps
MIMO Technology	3x4 MIMO	2x2 MIMO	2x2 MIMO
Antenna Options	Internal antennas, various 802.11n/ac options	Internal antennas	Internal antennas
Power Consumption	15 Watts	14 Watts	12 Watts
Management	Cisco Unified Wireless Network	Standalone	Standalone
Security	802.11i, WPA2, AES encryption	802.11i, WPA2	802.11i, WPA2
Deployment Environment	Enterprise, high-density areas	Small to medium offices	Small to medium offices



Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	- SFP Transceiver - PoE Injector



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References

[1] Cisco Systems, Inc. (2023). Cisco Aironet 2700 Series Access Points Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-2700-series-access-point/datasheet-c78-730593.html>