



The bridge to possible

Data sheet
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Cisco Catalyst 9105 Series Access Points

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The Cisco Catalyst 9105 Series Access Points are the most versatile next generation access point in enterprise grade. They are resilient, secure, and intelligent.

Extending Cisco's intent-based network and perfect for networks of all sizes, the Catalyst 9105 Access Points scale to meet the growing demands of IoT while fully supporting the latest innovations and new technologies. The Catalyst 9105 come in different mounting options: the Catalyst 9105i which can be mounted to the ceiling using a specifically designed mounting bracket or can be placed on the desk. The Catalyst 9105w is specifically designed to be mounted to the wall and is ideal for hospitality, residence halls and other multi-dwelling units.

With the emergence of many Wi-Fi compliant and IOT devices, most are connected over Wi-Fi. Since most apps are network dependent, bandwidth intensive and latency sensitive, we are more dependent on the wireless network than ever before. An increasing numbers of devices connect to the network every year, ranging from high-performance client devices to low-bandwidth IoT devices, which puts your current network at risk for slower speeds. The Catalyst 9105 Access Points provide a seamless experience anywhere for everyone, with high scaling and unmatched performance in diverse network deployments. Going beyond the Wi-Fi 6 (802.11 ax) standard, the Catalyst 9105 Access Points provides integrated security, resiliency, and operational flexibility as well as increased network intelligence.

With the Catalyst 9105 Access Points, you can secure remote workers or the micro-office. The Catalyst 9105 access point is perfect for teleworker deployment because of its small form factor and low power consumption. This easy-to-install teleworker access point provides secure wired and wireless access for organizations with employees who work from home. The Catalyst 9105 teleworker access points are bundled with necessary accessories for easy home deployment.

The Cisco Catalyst 9105 Series Access Points, paired with the Cisco Digital Network Architecture (Cisco DNA), are enterprise-class products that will address both your current and future needs. They are the first step in updating your network to take better advantage of all of the features and benefits that Wi-Fi 6 provides.

Cisco User Defined Network, allows IT to give end users control of their very own wireless network partition on a shared network. End users can then remotely and securely deploy their devices on this network. Perfect for university dormitories or extended hospital stays, Cisco User Defined Network grants both device security and control, allowing each user to choose who can connect to their network.

Table 1. Features and benefits

Feature	Benefits
Wi-Fi 6 (802.11ax)	The IEEE 802.11ax emerging standard, also known as High-Efficiency Wireless (HEW) or Wi-Fi 6, builds on 802.11ac. It delivers a better experience in typical environments with more predictable performance for advanced applications such as 4K or 8K video, high-density, high-definition collaboration apps, all-wireless offices, and IoT. Wi-Fi 6 is designed to use both the 2.4-GHz and 5-GHz bands, unlike the 802.11ac standard.
Uplink/downlink OFDMA	OFDMA-based scheduling splits the bandwidth into smaller frequency allocations called Resource Units (RUs), which can be assigned to individual clients in both the downlink and uplink directions to reduce overhead and latency.
Downlink MU-MIMO technology	Supporting two spatial streams, MU-MIMO enables access points to split spatial streams between client devices to maximize throughput.
BSS coloring	Spatial reuse (also known as Basic Service Set [BSS] coloring) allows the access points and their clients to differentiate between BSSs, thus permitting more simultaneous transmissions.
Target Wake Time	A new power-saving mode called Target Wake Time (TWT) allows the client to stay asleep and to wake up only at prescheduled (target) times to exchange data with the access point. This offers significant energy savings for battery-operated devices, up to 3x to 4x the savings achieved by 802.11n and 802.11ac.
Intelligent Capture	Intelligent Capture probes the network and provides Cisco DNA Center with deep analysis. The software can track more than 240 anomalies and instantaneously review all packets on demand, emulating the onsite network administrator. Intelligent Capture allows for more informed decisions on your wireless networks.
Application Hosting on Catalyst 9100 Access	Application Hosting on Catalyst 9100 Access Points helps future-proof and simplify IoT deployments by eliminating the need to install and manage overlay networks. Utilizing the USB interface, containerized applications and hardware modules can be deployed to reduce cost and complexity. Adding Cisco DNA Center provides workflows and deployment-wide application lifecycle management.
Bluetooth 5	Integrated Bluetooth Low Energy (BLE) 5 radio enables location-based use cases such as asset tracking, way finding or analytics.
Cisco Embedded Wireless Controller	The 9105AX Series Wi-Fi 6 access points is available with a built-in controller. The Cisco Embedded Wireless Controller on Catalyst 9100 Access Points provides an easy-to-deploy and manage option that does not require a physical appliance. The control resides on the access point so there is no added footprint or complexity. And, because it uses Cisco Catalyst 9800 Series code, it's easy to migrate your network as your needs grow.
Container support for applications	Container support enables edge computing capabilities for IoT applications on the host access point.
Apple features	<p>Apple and Cisco have partnered to create an optimal mobile experience for iOS devices on corporate networks based on Cisco technologies. Using new features in Apple iOS, in combination with the latest software and hardware from Cisco, businesses can now more effectively use their network infrastructure to deliver an enhanced user experience across all business applications.</p> <p>At the center of the collaboration is a unique handshake between the Cisco WLAN and Apple devices. This handshake enables the Cisco WLAN to provide an optimal Wi-Fi roaming experience to Apple devices. Additionally, the Cisco WLAN trusts Apple devices and gives priority treatment for business-critical applications specified by the Apple device. This feature is also known as Fast Lane.</p>

Secure infrastructure

Trustworthy systems built with Cisco Trust Anchor Technologies provide a highly secure foundation for Cisco products. With the Cisco Catalyst 9100 Access Points, these technologies enable assurance of hardware and software authenticity for supply chain trust and strong defense against man-in-the-middle attacks that compromise software and firmware. Trust Anchor capabilities include:

- **Image signing**
- **Secure Boot**
- **Cisco Trust Anchor module**

Cisco DNA Software support

Pairing the Cisco Catalyst 9105 Series Access Points with Cisco DNA Software allows for a total network transformation. Cisco DNA Software allows you to truly understand your network with real-time analytics, quickly detect and contain security threats, and easily provide networkwide consistency through automation and virtualization. The Cisco Catalyst 9105 Series Access Points support SD-Access, Cisco's leading enterprise architecture.

Working together, the Cisco Catalyst 9105 Series and Cisco DNA Software offer such features as:

- Cisco DNA Spaces
- Cisco Identity Services Engine
- Cisco DNA Analytics and Assurance

The result? Your network stays relevant, becomes digital ready, and is the lifeblood of your organization.

Note: For information about Cisco DNA Software , refer to www.skywardtel.com

Product specifications

Item	Specification
Part numbers	<p>Cisco Catalyst 9105AX Access Point: Indoor environments, with internal antennas</p> <ul style="list-style-type: none">• C9105AXI-x: Cisco Catalyst 9105 Series <p>Cisco Catalyst 9105AX Access Point: Wall Plate, with internal antennas</p> <ul style="list-style-type: none">• C9105AXW-x: Cisco Catalyst 9105 Series <p>Cisco Catalyst 9105AX Teleworker Access Point: Indoor environments, with internal antennas</p> <ul style="list-style-type: none">• C9105AXIT-x: Cisco Catalyst 9105 Series <p>(Shipped along with Infrastructure kit - Power Injector and Ethernet Cables)</p> <p>Cisco Catalyst 9105AX Teleworker Access Point: Wall Plate, with internal antennas</p> <ul style="list-style-type: none">• C9105AXWT-x: Cisco Catalyst 9105 Series <p>(Shipped along with Wall Plate kit - Cradle and Ethernet Cables)</p> <p>Cisco Catalyst 9105AX Access Point: Indoor environments, with internal antennas, with embedded wireless controller</p>