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## Overview

AIR-AP1852E-E-K9 is one of the Cisco Aironet 1850 Series Access Points. Cisco 1850 AP series is ideal for small and medium-sized networks. This series supports enterprise-class 4x4 MIMO, four-spatial-stream access points that support the IEEE’s new 802.11ac Wave 2 specification. The 1850 Series extends support to a new generation of Wi-Fi clients, such as smartphones, tablets, and high-performance laptops that have integrated 802.11ac Wave 2 support. The model AIR-AP1852E-E-K9 provides E Regulatory Domain and External antennas.

## Quick Specification

Table 1 shows the quick specs of AIR-AP1852E-E-K9.

Part Number	AIR-AP1852E-E-K9
Description	802.11ac Wave 2 Access Point, 4x4:4, External-Ant, E Regulatory Domain
Features	<ul style="list-style-type: none"> <li>-4x4 MIMO with four spatial streams, single-user MIMO</li> <li>-4x4 MIMO with three spatial streams, multiuser MIMO</li> <li>-MRC</li> <li>-802.11ac beamforming (transmit beamforming)</li> <li>-20-, 40-, and 80-MHz channels</li> <li>-PHY data rates up to 1.7 Gbps (80 MHz in 5 GHz)</li> <li>-Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>- 802.11 DFS</li> <li>CSD support</li> </ul>
Regulatory Domain	<p>E (E regulatory domain):</p> <ul style="list-style-type: none"> <li>-2.412 to 2.472 GHz; 3 channels</li> <li>-5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 8 channels</li> </ul>
Antenna	External Antenna
Interfaces	<ul style="list-style-type: none"> <li>--1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)</li> <li>-1 x 10/100/1000BASE-T autosensing (RJ-45), AUX (used for Link Aggregation)</li> <li>-Management console port (RJ-45)</li> <li>USB 2.0 (enabled via future software)</li> </ul>
Dimensions (W x L x H)	8.3 x 8.3 x 2 in. (210.8 x 210.8 x 50.8 mm)
Weight	3.12 lb (1.41 kg)

Figure 1 shows the appearance of the AIR-AP1852E-E-K9.



## Product Details

Figure 2 shows the AIR-AP1852E LED Indicator Position.



Note:

(1)	LED indicator position
(2)	External Antenna

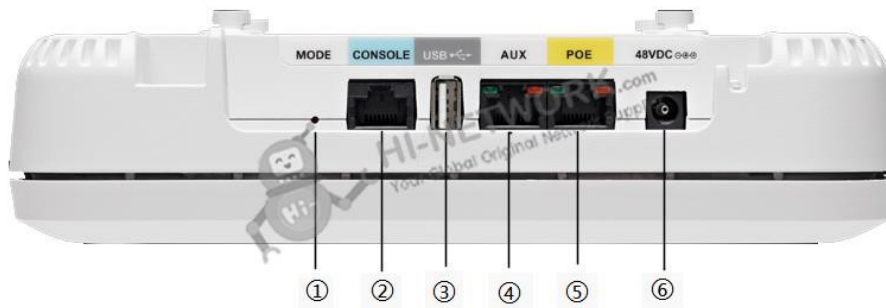
There are four external antennas installed with the AP.

Table 2 shows the AP LED indicators' descriptions.

Message Type	LED State	Message Meaning
Association status	Chirping Green	Normal operating condition, but no wireless client associated
	Green	Normal operating condition, at least one wireless client association
Boot loader status	Green	Executing boot loader
Boot loader error	Red	Boot loader signing verification failure

Access point regulatory domain priming status	Blinking Amber	AP priming to a new regulatory domain by Neighbor Discovery Protocol (NDP), in progress
	Cycling Red, Green and off	AP waiting to be primed
	Chirping Red	AP primed to a wrong regulatory domain
Operating status	Blinking amber	Software upgrade in progress
	Cycling through green, red, and amber	Discovery/join process in progress
	Rapidly cycling through red, green, amber, and off.	Access point location command invoked from controller web interface.
Access point operating system errors	Cycling through red, green, amber, and off	General warning; insufficient inline power

Figure 3 shows AIR-AP1852E Ports and Connections.



Note:

(1)	Mode button	(4)	AUX (Auxiliary) port.
(2)	RJ-45 console port	(5)	PoE-In port (Ethernet Uplink port)
(3)	USB 2.0 port	(6)	48 V DC input power port

AUX (Auxiliary) port appears in the wireless controller user interface as GigabitEthernet1. This port, along with the PoE-In port, is used for Link Aggregation. This port is disabled when using 802.3af (15.4W) power.

## Compare to Similar Items

Table 3 shows the comparison between two AP.

Part Number	AIR-AP1852E-E-K9	AIR-AP1852E-E-K9C
Description	802.11ac Wave 2 Access Point, 4x4:4	802.11ac Wave 2 Access Point, 4x4:4 ★ Model number ending in C is, by default, factory-shipped with a Cisco Mobility Express software image.
External Antenna	Yes	Yes
Regulatory Domain	E (E regulatory domain): -2.412 to 2.472 GHz; 3 channels -5.180 to 5.320 GHz; 8 channels 5.500 to 5.700 GHz; 8 channels	E (E regulatory domain): -2.412 to 2.472 GHz; 3 channels -5.180 to 5.320 GHz; 8 channels 5.500 to 5.700 GHz; 8 channels

## Get More Information

Do you have any question about the AIR-AP1852E-E-K9?

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## Specification

AIR-AP1852E-E-K9 Specification	
Description	802.11ac Wave 2 Access Point, 4x4:4, External-Ant, E Regulatory Domain
Software	Cisco Unified Wireless Network Software Release with AireOS wireless controllers: 8.1 MR1 or later for the Cisco Aironet 1850 Series Access Points
Regulatory Domain	E (E regulatory domain): -2.412 to 2.472 GHz; 3 channels -5.180 to 5.320 GHz; 8 channels 5.500 to 5.700 GHz; 8 channels
Deployment modes	Centralized local, Standalone, Sniffer, Cisco FlexConnect™, Monitor, OfficeExtend, Mesh
Supported wireless LAN controllers	Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst®6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco 5760 Series Wireless Controllers, Cisco Catalyst 3650/3850 Series switch with integrated controller Cisco Mobility Express
802.11n version 2.0 (and related) capabilities	4x4 MIMO with four spatial streams Maximal ratio combining (MRC) 20- and 40-MHz channels PHY data rates up to 600 Mbps (40 MHz with 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 dynamic frequency selection (DFS) Cyclic shift diversity (CSD) support
802.11ac Wave 1 and 2 capabilities	4x4 MIMO with four spatial streams, single-user MIMO 4x4 MIMO with three spatial streams, multiuser MIMO MRC 802.11ac beamforming (transmit beamforming) 20-, 40-, and 80-MHz channels PHY data rates up to 1.7 Gbps (80 MHz in 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support Rogue device detection
Integrated antenna	2.4 GHz, gain 3 dBi, internal omni, horizontal beamwidth 360° 5 GHz, gain 5 dBi, internal omni, horizontal beamwidth 360°
External antenna (sold separately)	Certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios
Interfaces	1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) 1 x 10/100/1000BASE-T autosensing (RJ-45), AUX (used for Link Aggregation) Management console port (RJ-45) USB 2.0 (enabled via future software)
Indicators	Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors
Dimensions (W x L x H)	Access point (without mounting bracket): 8.3 x 8.3 x 2 in. (210.8 x 210.8 x 50.8 mm)
Weight	3.12 lb (1.41 kg)

Environmental	<p>Cisco Aironet 1850e</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)</p> <p>Nonoperating (storage) altitude test: 25°C, 15,000 ft.</p> <p>Operating temperature: -4° to 122°F (-20° to 50°C)</p> <p>Operating humidity: 10% to 90% (noncondensing)</p> <p>Operating altitude test: 40°C, 9843 ft.</p>
System memory	<p>1 GB DRAM</p> <p>256 MB flash</p>
Input power requirements	<p>AP1850: 44 to 57 VDC</p> <p>Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz</p>
Power draw	<p>20.9W</p> <p>Note: When deployed using a Power over Ethernet (PoE) specification, the power drawn from the power sourcing equipment will be higher by some amount, depending on the length of the interconnecting cable.</p>
Powering options	<p>802.3at</p> <p>Enhanced PoE</p> <p>Cisco power injector, AIR-PWRINJ4= Cisco local power supply, AIR-PWR-C=</p> <p>Cisco power injector, AIR-PWRINJ5= (Note: this injector supports 802.3af only) 802.3af</p> <p>Note: If 802.3af PoE is the source of power, (1) the 1852e 2.4-GHz radio will shift to 2x3 from 3x4, (2) The USB port and AUX Ethernet port are disabled on both the 1852i and 1852e.</p>
Warranty	<p>Limited lifetime hardware warranty</p>

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WhatsApp Business: +8618057156223

