

# AIR-AP1852I-S-K9 Datasheet

Get a Quote

## Overview

AIR-AP1852I-S-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-AP1852I-S-K9 provides S Regulatory Domain and internal antennas.

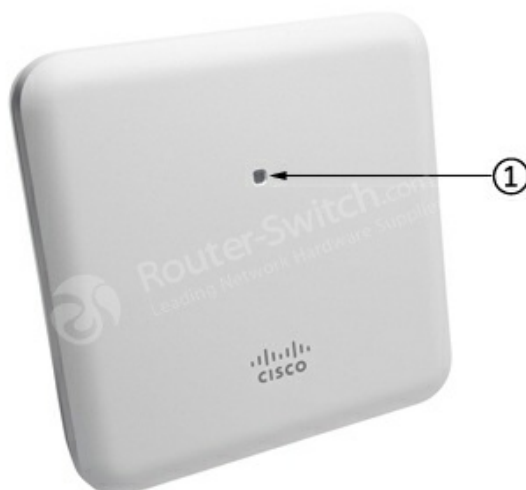
## Quick Specs

Table 1 shows the quick specs of AIR-AP1852I-S-K9.

|                        |  |
|------------------------|--|
| Part Number            | AIR-AP1852I-S-K9   |
| Description            | 802.11ac Wave 2 Access Point, 4x4:4, Internal-Ant, S 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>S (S 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; 11 channels</li><li>- 5.745 to 5.825 GHz; 5 channels</li></ul>   |
| Antenna                | Internal 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)  |

## Product Details

Figure 1 shows the AIR-AP1852I LED Indicator Position.

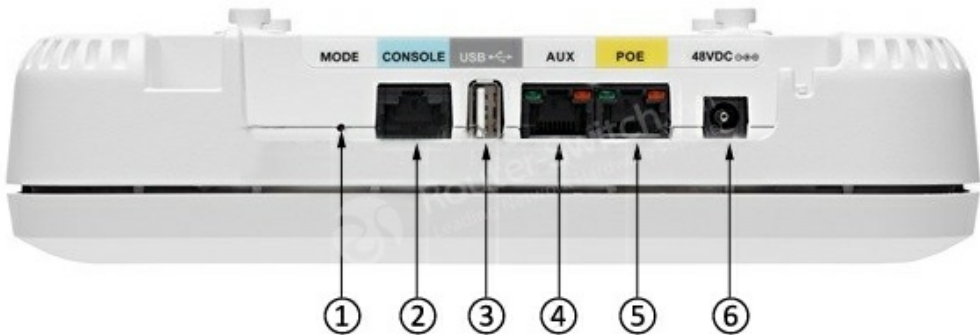


Note: (1) LED indicator position

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 2 shows AIR-AP1852I 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-AP1852I-S-K9 | <a href="#">AIR-AP1852I-S-K9C</a> |
|-------------|------------------|-----------------------------------|

|                          |  |  |
|--------------------------|--|--|
| <b>Description</b>       | 802.11ac Wave 2 Access Point, 4x4:4  | 802.11ac Wave 2 Access Point, 4x4:4<br>★ Model number ending in C is, by default, factory-shipped with a Cisco Mobility Express software image.                            |
| <b>Antenna</b>           | Internal Antennas  | Internal Antennas  |
| <b>Regulatory Domain</b> | S (S regulatory domain):<br>- 2.412 to 2.472 GHz; 3 channels<br>- 5.180 to 5.320 GHz; 8 channels<br>- 5.500 to 5.700 GHz;, 11 channels<br>- 5.745 to 5.825 GHz; 5 channels | S (S regulatory domain):<br>- 2.412 to 2.472 GHz; 3 channels<br>- 5.180 to 5.320 GHz; 8 channels<br>- 5.500 to 5.700 GHz;, 11 channels<br>- 5.745 to 5.825 GHz; 5 channels |

Support & Resources

 [\[PDF\] Cisco Indoor Access Points Comparison Chart](#)

Get more information

Do you have any question about the AIR-AP1852I-S-K9?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

Specification

| AIR-AP1852I-S-K9 Specifications                       |   |
|---|---|
| <b>Description</b>                                    | 802.11ac Wave 2 Access Point, 4x4:4, Internal-Ant, S Regulatory Domain  |
| <b>Software</b>                                       | Cisco Unified Wireless Network Software Release with AireOS wireless controllers: 8.1 MR1 or later for the Cisco Aironet 1850 Series Access Points  |
| <b>Regulatory Domain</b>                              | S (S regulatory domain):<br>- 2.412 to 2.472 GHz; 3 channels<br>- 5.180 to 5.320 GHz; 8 channels<br>- 5.500 to 5.700 GHz;, 11 channels<br>- 5.745 to 5.825 GHz; 5 channels  |
| <b>Deployment modes</b>                               | Centralized local, Standalone, Sniffer, Cisco FlexConnect, Monitor, OfficeExtend, Mesh  |
| <b>Supported wireless LAN controllers</b>             | 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<br>Cisco Mobility Express |
| <b>802.11n version 2.0 (and related) capabilities</b> | 4x4 MIMO with four spatial streams<br>Maximal ratio combining (MRC)<br>20- and 40-MHz channels<br>PHY data rates up to 600 Mbps (40 MHz with 5 GHz)<br>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>802.11 dynamic frequency selection (DFS)<br>Cyclic shift diversity (CSD) support   |
| <b>802.11ac Wave 1 and 2 capabilities</b>             | 4x4 MIMO with four spatial streams, single-user MIMO<br>4x4 MIMO with three spatial streams, multiuser MIMO<br>MRC<br>802.11ac beamforming (transmit beamforming)<br>20-, 40-, and 80-MHz channels<br>PHY data rates up to 1.7 Gbps (80 MHz in 5 GHz)<br>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>802.11 DFS<br>CSD support<br>Rogue device detection  |

|                                 |   |
|---------------------------------|---|
| <b>Integrated antenna</b>       | 2.4 GHz, gain 3 dBi, internal omni, horizontal beamwidth 360°<br>5 GHz, gain 5 dBi, internal omni, horizontal beamwidth 360°  |
| <b>Interfaces</b>               | 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)<br>1 x 10/100/1000BASE-T autosensing (RJ-45), AUX (used for Link Aggregation)<br>Management console port (RJ-45)<br>USB 2.0 (enabled via future software)  |
| <b>Indicators</b>               | Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors   |
| <b>Dimensions (W x L x H)</b>   | Access point (without mounting bracket): 8.3 x 8.3 x 2 in. (210.8 x 210.8 x 50.8 mm)  |
| <b>Weight</b>                   | 3.12 lb (1.41 kg)   |
| <b>Environmental</b>            | Cisco Aironet 1850i<br>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)<br>Nonoperating (storage) altitude test: 25°C, 15,000 ft.<br>Operating temperature: 32° to 104°F (0° to 40°C)<br>Operating humidity: 10% to 90% (noncondensing)<br>Operating altitude test: 40°C, 9843 ft.  |
| <b>System memory</b>            | 1 GB DRAM<br>256 MB flash   |
| <b>Input power requirements</b> | AP1850: 44 to 57 VDC<br>Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz  |
| <b>Power draw</b>               | 20.9W<br>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.  |
| <b>Powering options</b>         | 802.3at<br>Enhanced PoE<br>Cisco power injector, AIR-PWRINJ4=<br>Cisco local power supply, AIR-PWR-C=<br>Cisco power injector, AIR-PWRINJ5= (Note: this injector supports 802.3af only)<br>802.3af<br>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. |
| <b>Warranty</b>                 | Limited lifetime hardware warranty  |

## Want to Buy

[Order Now](#)
[Get a Quote](#)

## Why Router-switch.com

As a leading network hardware supplier, Router-switch.com focuses on original new ICT equipment of [Cisco](#), [Huawei](#), [HPE](#), [Dell](#), [Hikvision](#), [Juniper](#), [Fortinet](#), etc.



200+

Countries we Sold



18,000+

Customers Trusted



\$20,000,000

Inventory Available



50%-98%

Off Global List Price



100%

Safe Online Shopping

## Contact Us

● Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166

● Fax: +852-3050-1066 (Hong Kong)

● Email: [sales@router-switch.com](mailto:sales@router-switch.com)