

# Air AP2802I H K9 Wireless Access Point Datasheet

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## Overview

AIR-AP2802I-D-K9 is one of the Cisco Aironet 2800 Series Access Points. This 2800 series, delivering new 802.11ac Wave 2 standard, is ideal for large enterprise organizations that rely on Wi-Fi to engage with customers. The Series is a hands-off product that's intelligent enough to make decisions based on end-device activities and usage. AIR-AP2802I-D-K9 provides internal antenna and D regulatory domain.

## Quick Specs

Table 1

<b>Product Code</b>	AIR-AP2802I-D-K9
<b>Frequency band and 20-MHz operating channels</b>	D (D regulatory domain): - 2.412 to 2.462 GHz; 11 channels - 5.180 to 5.320 GHz; 8 channels - 5.745 to 5.825 GHz; 5 channels
<b>Antenna</b>	Internal Antenna
<b>Features</b>	- 4x4 MU-MIMO with three spatial streams - MRC - 802.11ac Beamforming - 20-, 40-, 80, 160-MHz channels - PHY data rates up to 5.2 Gbps - Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) - 802.11 DFS - CSD support
<b>Interfaces</b>	- 2 x 100/1000BASE-T autosensing (RJ-45) - Management console port (RJ-45) - USB 2.0 (enabled via future software)
<b>System memory</b>	- 1024 MB DRAM - 256 MB flash
<b>Dimensions (W x L x H)</b>	8.66 x 8.68 x 2.17 in.
<b>Net Weight</b>	3.53 lb (1.6 kg)

## Product Details

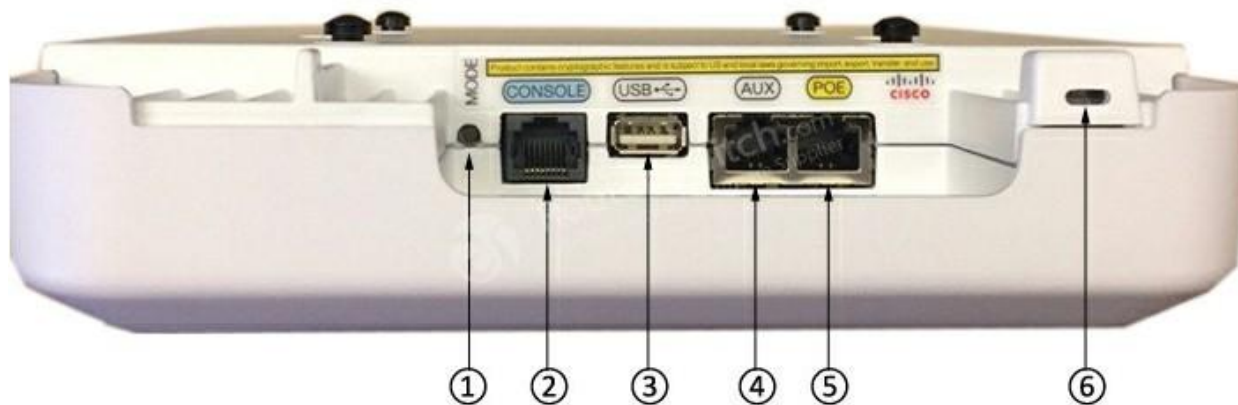
Figure 1 shows the face of AIR-AP2802I Model.



Notes:

There is a LED in the face of this AP.

Figure 2 shows Ports and Connectors on the Head of the 2802I Model.



Note#

(1)	Mode button	(4)	Gigabit Ethernet port
(2)	Console port	(5)	Gigabit Ethernet port
(3)	USB port	(6)	Kensington lock slot

### Compare to Similar Items

Table 2 shows the comparison between two AP.

Models	AIR-AP2802I-E-K9	AIR-AP2802I-D-K9
<b>Frequency band and 20-MHz operating channels</b>	E (E regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.180 to 5.320 GHz; 8 channels - 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)	D (D regulatory domain): - 2.412 to 2.462 GHz; 11 channels - 5.180 to 5.320 GHz; 8 channels - 5.745 to 5.825 GHz; 5 channels
<b>Antenna</b>	Internal Antenna	Internal Antenna
<b>Features</b>	- 4x4 MU-MIMO with three spatial streams - MRC - 802.11ac Beamforming - 20-, 40-, 80, 160-MHz channels - PHY data rates up to 5.2 Gbps - Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) - 802.11 DFS - CSD support	- 4x4 MU-MIMO with three spatial streams - MRC - 802.11ac Beamforming - 20-, 40-, 80, 160-MHz channels - PHY data rates up to 5.2 Gbps - Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) - 802.11 DFS - CSD support

### Get more information

Do you have any question about the AIR-AP2802I-D-K9?

Contact us now via or [admin@skywardtel.com](mailto:admin@skywardtel.com).

## Specification

### AIR-AP2802I-D-K9 Specification

<b>Software</b>	<p>Cisco Unified Wireless Network Software Release 8.2.111.0 or later</p> <p>Cisco IOS<sup>®</sup>XE Software Release 16.3</p>
<b>Supported wireless LAN controllers</b>	<p>Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst<sup>®</sup>6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex<sup>®</sup> 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller</p> <p>Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches</p> <p>Cisco Mobility Express</p>
<b>802.11n version 2.0 (and related) capabilities</b>	<p>4x4 MIMO with three spatial streams</p> <p>Maximal ratio combining (MRC)</p> <p>802.11n and 802.11a/g beamforming</p> <p>20- and 40-MHz channels</p> <p>PHY data rates up to 450 Mbps (40 MHz with 5 GHz)</p> <p>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</p> <p>802.11 dynamic frequency selection (DFS)</p> <p>Cyclic shift diversity (CSD) support</p>
<b>802.11ac Wave 1 capabilities</b>	<p>4x4 MIMO with three spatial streams</p> <p>MRC</p> <p>802.11ac beamforming</p> <p>20-, 40-, and 80-MHz channels</p> <p>PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz)</p> <p>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</p> <p>802.11 DFS</p> <p>CSD support</p>
<b>802.11ac Wave 2 capabilities</b>	<p>4x4 MU-MIMO with three spatial streams</p> <p>MRC</p> <p>802.11ac beamforming</p> <p>20-, 40-, 80, 160-MHz channels</p> <p>PHY data rates up to 5.2 Gbps</p> <p>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</p> <p>802.11 DFS</p> <p>CSD support</p>
<b>Integrated antenna</b>	<p>Flexible radio (either 2.4 GHz or 5 GHz)</p> <p>2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth</p> <p>5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90°</p> <p>Dedicated 5-GHz radio</p> <p>5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth</p>
<b>External antenna (sold separately)</b>	<p>2802e Series access points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz)</p> <p>Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios</p>
<b>Smart antenna connector</b>	<p>Available on the 2802e Series access points only</p> <p>Requires the AIR-CAB002-DART-R= 2 ft smart antenna connector to RP-TNC connectors to connect a second antenna to the access point</p> <p>Required when running the flexible radio as either a second 5-GHz serving radio or Wireless Security Monitoring radio</p>
<b>Interfaces</b>	<p>2802I/E</p> <ul style="list-style-type: none"> <li>◦ 2x100/1000BASE-T autosensing (RJ-45)</li> </ul> <p>Management console port (RJ-45)</p> <p>USB 2.0 (enabled via future software)</p>
<b>Indicators</b>	<p>Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors</p>
<b>Dimensions (W x L x H)</b>	<p>Access point (without mounting brackets): 2802I: 8.66" x 8.68" x 2.17", 2802E: 8.66" x 8.77" x 2.50"</p>

<b>Weight</b>	<p>Cisco Aironet 2802i 3.53 lb (1.6 kg)</p> <p>Cisco Aironet 2802e 4.6 lb (2.09 kg)</p>
<b>Input power requirements</b>	<p>802.3at PoE+, Cisco Universal PoE (Cisco UPOE®) 802.3at power injector (AIR-PWRINJ6=)</p>
<b>Power draw</b>	<p>26W at the PSE with all features enabled except for the USB 2.0 port 30W at the PSE with the USB 2.0 port enabled</p>
<b>Environmental</b>	<p>Cisco Aironet 2802i</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: 32° to 104°F (0° to 40°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.</p> <p>Cisco Aironet 2802e</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -4° to 122°F (-20° to 50°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.</p>
<b>System memory</b>	<p>1024 MB DRAM 256 MB flash</p>
<b>Warranty</b>	<p>Limited lifetime hardware warranty</p>