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## Overview

AIR-AP2802I-E-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-E-K9 provides internal antenna and E regulatory domain.

## Quick Specification

Table 1 shows the quick specs of AIR-AP2802I-E-K9.

Part Number	AIR-AP2802I-E-K9
Frequency band and 20-MHz operating channels	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)
Antenna	Internal Antenna
Features	<ul style="list-style-type: none"> <li>- 4x4 MU-MIMO with three spatial streams</li> <li>- MRC</li> <li>- 802.11ac Beamforming</li> <li>- 20-, 40-, 80, 160-MHz channels</li> <li>- PHY data rates up to 5.2 Gbps</li> <li>- Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>- 802.11 DFS</li> <li>- CSD support</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>- 2 x 100/1000BASE-T autosensing (RJ-45)</li> <li>- Management console port (RJ-45)</li> <li>- USB 2.0 (enabled via future software)</li> </ul>
Dimensions (W x L x H)	8.66 x 8.68 x 2.17 in.
Weight	3.53 lb (1.6 kg)

Figure 1 shows the appearance of the AIR-AP2802I-E-K9.



## Product Details

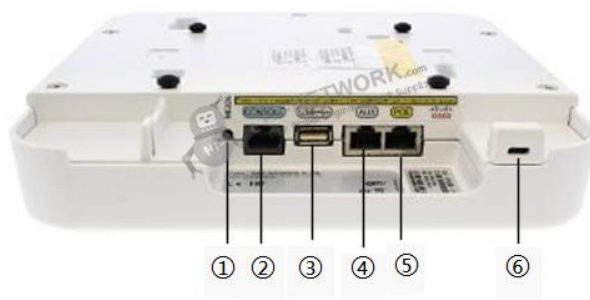
Figure 2 shows the face of AIR-AP2802I Model.



Note:

There is a LED in the face of this AP.

Figure 3 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.

Part Number	AIR-AP2802I-E-K9	AIR-AP2802I-F-K9s
Features	<ul style="list-style-type: none"> <li>- 4x4 MU-MIMO with three spatial streams</li> <li>- MRC</li> <li>- 802.11ac Beamforming</li> <li>- 20-, 40-, 80, 160-MHz channels</li> <li>- PHY data rates up to 5.2 Gbps</li> <li>- Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>- 802.11 DFS</li> <li>- CSD support</li> </ul>	<ul style="list-style-type: none"> <li>- 4x4 MU-MIMO with three spatial streams</li> <li>- MRC</li> <li>- 802.11ac Beamforming</li> <li>- 20-, 40-, 80, 160-MHz channels</li> <li>- PHY data rates up to 5.2 Gbps</li> <li>- Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>- 802.11 DFS</li> <li>- CSD support</li> </ul>
Antenna	Internal Antenna	Internal Antenna
Frequency band and 20-MHz operating channels	E (E regulatory domain): <ul style="list-style-type: none"> <li>- 2.412 to 2.472 GHz; 13 channels</li> <li>- 5.180 to 5.320 GHz; 8 channels</li> <li>- 5.500 to 5.700 GHz; 8 channels</li> </ul> (excludes 5.600 to 5.640 GHz)	F (F regulatory domain): <ul style="list-style-type: none"> <li>- 2.412 to 2.472 GHz; 13 channels</li> <li>- 5.745 to 5.805 GHz; 4 channels</li> </ul>

## Get More Information

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

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

## Specification

AIR-AP2802I-E-K9 Specification	
Software	Cisco Unified Wireless Network Software Release 8.2.111.0 or later Cisco IOS@XE Software Release 16.3
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 Virtual Wireless Controller Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches

# AIR-AP2802I-E-K9 Datasheet



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802.11n version 2.0 (and related) capabilities	<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>
802.11ac Wave 1 capabilities	<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 CSD support</p>
802.11ac Wave 2 capabilities	<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 CSD support</p>
Integrated antenna	<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° Dedicated 5-GHz radio</p> <p>5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth</p>
External antenna(sold separately)s	<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>
Smart antenna connector	<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 Required when running the flexible radio as either a second 5-GHz serving radio or Wireless Security Monitoring radio</p>
Interfaces	<p>2802I/E</p> <p>2x100/1000BASE-T autosensing (RJ-45)</p> <p>Management console port (RJ-45)</p> <p>USB 2.0 (enabled via future software)</p>
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 brackets): 2802I: 8.66" x 8.68" x 2.17" , 2802E: 8.66" x 8.77" x 2.50"
Weight	<p>Cisco Aironet 2802i</p> <p>3.53 lb (1.6 kg)</p> <p>Cisco Aironet 2802e</p> <p>4.6 lb (2.09 kg)</p>
Environmental	Cisco Aironet 2802i



	<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: 32° to 104°F (0° to 40°C)</p> <p>Operating humidity: 10% to 90% (noncondensing)</p> <p>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)</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>802.3at PoE+, Cisco Universal PoE (Cisco UPOE®)</p> <p>802.3at power injector (AIR-PWRINJ6=)</p>
Power draw	<p>26W at the PSE with all features enabled except for the USB 2.0 port</p> <p>30W at the PSE with the USB 2.0 port enabled</p>
Warranty	Limited lifetime hardware warranty

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