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## Overview

AIR-AP2802E-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-AP2802E-E-K9 provides external antenna and E regulatory domain.

### Quick Specs

Table 1

<b>Product Code</b>	AIR-AP2802E-E-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)
<b>Antenna</b>	External Antenna
<b>Features</b>	<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>
<b>Interfaces</b>	<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>
<b>System memory</b>	<ul style="list-style-type: none"> <li>- 1024 MB DRAM</li> <li>- 256 MB flash</li> </ul>
<b>Dimensions (W x L x H)</b>	8.66 x 8.77 x 2.50 in.
<b>Net Weight</b>	4.6 lb (2.09 kg)

### Product Details

Figure 1 shows the face of AIR-AP2802E Model.



Notes:

(1)	Dual-band antenna connector A with antenna	(4)	Dual-band antenna connector C with antenna
(2)	Location of the Smart antenna connector port on the right side of the AP	(5)	Status LED
(3)	Dual-band antenna connector D with antenna	(6)	Dual-band antenna connector B with antenna

Figure 2 shows the Smart Antenna Connector and DART cable on the AIR-AP2802E model.

The 2802E model has a Smart antenna connector, which is connected directly to the flexible radio. Without a supported external antenna connected to the Smart Antenna connector, the flexible radio can stay only in 2.4 GHz mode. If an external antenna is connected, the flexible radio can be used in the full Flexible Radio Assignment mode, allowing dual 5 GHz and Wireless Security Monitoring modes.

To connect to any supported RP-TNC connector-type external antenna to the Smart antenna connector, use the DART cable connector AIR-CAB002-DART-R=, which is to be ordered separately.



## Compare to Similar Items

Table 2 shows the comparison between two AP.

Models	AIR-AP2802E-E-K9	AIR-AP2802E-F-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)	F (F regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.745 to 5.805 GHz; 4 channels
<b>Antenna</b>	External Antenna	External Antenna
<b>Features</b>	<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>

## Support & Resources

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

## Get more information

Do you have any question about the AIR-AP2802E-E-K9?

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## Specification

## AIR-AP2802E-E-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> <p>2x100/1000BASE-T autosensing (RJ-45)</p> <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</p> <p>3.53 lb (1.6 kg)</p> <p>Cisco Aironet 2802e</p> <p>4.6 lb (2.09 kg)</p>
<b>Input power requirements</b>	<p>802.3at PoE+, Cisco Universal PoE (Cisco UPOE®)</p> <p>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</p> <p>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)</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>
<b>System memory</b>	<p>1024 MB DRAM</p> <p>256 MB flash</p>
<b>Warranty</b>	<p>Limited lifetime hardware warranty</p>

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