

AIR-AP2802I-E-K9 Datasheet



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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-on 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 Spec

Table 2 shows the recommended hardware.

Product Code	AIR-AP2802I-E-K9
Frequency band and 20-MHz operating channels	E (E regulatory domain): <ul style="list-style-type: none">- 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">- 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
Interfaces	<ul style="list-style-type: none">- 2 x 100/1000BASE-T autosensing (RJ-45)- Management console port (RJ-45)- USB 2.0 (enabled via future software)
System memory	<ul style="list-style-type: none">- 1024 MB DRAM- 256 MB flash
Dimensions (W x L x H)	8.66 x 8.68 x 2.17 in.
Net Weight	3.53 lb (1.6 kg)



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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 Cisco Mobility Express
802.11n version 2.0 (and related) capabilities	4x4 MIMO with three spatial streams Maximal ratio combining (MRC) 802.11n and 802.11a/g beamforming 20- and 40-MHz channels PHY data rates up to 450 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 capabilities	4x4 MIMO with three spatial streams MRC 802.11ac beamforming 20-, 40-, and 80-MHz channels PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support
802.11ac Wave 2 capabilities	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
Integrated antenna	Flexible radio (either 2.4 GHz or 5 GHz) 2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth 5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90° Dedicated 5-GHz radio 5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth
External antenna (sold separately)	2802e Series access points are 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
Smart antenna connector	Available on the 2802e Series access points only 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
Interfaces	2802I/E - 2x100/1000BASE-T autosensing (RJ-45) Management console port (RJ-45) USB 2.0 (enabled via future software)



C9300X-24Y-A Datasheet



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AIR-AP2802I-E-K9 Specification	
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	Cisco Aironet 2802i 3.53 lb (1.6 kg) Cisco Aironet 2802e 4.6 lb (2.09 kg)
Input power requirements	802.3at PoE+, Cisco Universal PoE (Cisco UPOE®) 802.3at power injector (AIR-PWRINJ6=)
Power draw	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
Environmental	Cisco Aironet 2802i 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. Cisco Aironet 2802e 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.
System memory	1024 MB DRAM 256 MB flash
Warranty	Limited lifetime hardware warranty

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