AIR-AP1832I-E-K9 Datasheet

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Overview

AIR-AP1832I-E-K9 is one of the Cisco Aironet 1830 Series Access Points. Cisco 1830 AP series is ideal for small and medium-sized networks. This series supports the latest Wi-Fi standard, the 802.11ac Wave 2 standard. The 1830 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 1 or Wave 2 support. The model AIR-AP1832I-E-K9 provides E Regulatory Domain and internal antennas.

Quick Specs

Table 1 shows the quick specs of AIR-AP1832I-E-K9.

Part Number	AIR-AP1832I-E-K9
Description	802.11ac Wave 2 AP, 3x3:2, Internal Antenna, E Regulatory Domain
Features	- 3x3 MIMO with two spatial streams, single-user or multiuser MIMO - MRC - 802.11ac beamforming (transmit beamforming) - 20-, 40-, and 80-MHz channels - PHY data rates up to 867 Mbps (80 MHz in 5 GHz) - Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) - 802.11 DFS - CSD support
Regulatory Domain	E (E regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.180 to 5.320 GHz; 8 channels - 500 to 5.700 GHz; 8 channels
Integrated antenna	- 2.4 GHz, gain 3 dBi, internal omni, horizontal beamwidth 360° - 5 GHz, gain 5 dBi, internal omni, horizontal beamwidth 360°
Interfaces	- 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) - Management console port (RJ-45) - USB 2.0 (enabled via future software)
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

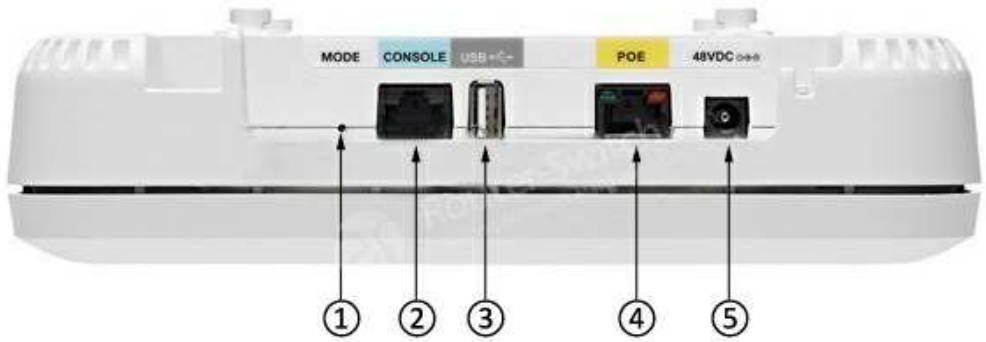
Figure 1 shows the AIR-AP1832I LED Indicator Position.

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-AP1832I Ports and Connections.



Note:

(1)	Mode button	(4)	PoE-In port (Ethernet Uplink port)
(2)	RJ-45 console port	(5)	48 V DC input power port
(3)	USB 2.0 port		

Compare to Similar Items

Table 3 shows the comparison between two AP.

Part Number	AIR-AP1832I-E-K9	AIR-AP1832I-E-K9C
Description	802.11ac Wave 2 AP, 3x3:2	802.11ac Wave 2 AP, 3x3:2 ★ Model number ending in C is, by default, factory-shipped with a Cisco Mobility Express software image.

Integrated antenna	Yes	Yes
Regulatory Domain	E (E regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.180 to 5.320 GHz; 8 channels - 500 to 5.700 GHz; 8 channels	E (E regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.180 to 5.320 GHz; 8 channels - 500 to 5.700 GHz; 8 channels

Support & Resources

[PDF] Cisco Indoor Access Points Comparison Chart

Specification

AIR-AP1832I-E-K9 Specifications	
Description	802.11ac Wave 2 AP, 3x3:2, Internal Antenna, E Regulatory Domain
Software	Cisco Unified Wireless Network Software Release with AireOS wireless controllers: 8.1.121.0 or later for the Cisco Aironet 1830 Series Access Points
Deployment modes	Centralized, standalone, sniffer, Cisco FlexConnect™, monitor, OfficeExtend, mesh
Supported wireless LAN controllers	Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Cisco Catalyst®6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco 5520 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco 8540 Series Wireless Controllers, Cisco 5760 Wireless LAN Controller, Cisco Catalyst 3650 and 3850 Series Switches with integrated controller Cisco Mobility Express
802.11n version 2.0 (and related) capabilities	3x3 MIMO with two spatial streams Maximal ratio combining (MRC) 20- and 40-MHz channels PHY data rates up to 300 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 and 2 capabilities	3x3 MIMO with two spatial streams, single-user or multiuser MIMO MRC 802.11ac beamforming (transmit beamforming) 20-, 40-, and 80-MHz channels PHY data rates up to 867 Mbps (80 MHz in 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support
Regulatory Domain	E (E regulatory domain): - 2.412 to 2.472 GHz; 13 channels - 5.180 to 5.320 GHz; 8 channels - 500 to 5.700 GHz; 8 channels
Integrated antenna	2.4 GHz, gain 3 dBi, internal omni, horizontal beamwidth 360° 5 GHz, gain 5 dBi, internal omni, horizontal beamwidth 360°

Interfaces	1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) Management console port (RJ-45) USB 2.0 (enabled via future software)
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 bracket): 8.3 x 8.3 x 2 in. (210.8 x 210.8 x 50.8 mm)
Weight	3.12 lb (1.41 kg)
Environmental	Cisco Aironet 1830i 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.
System memory	1 GB DRAM 256 MB flash
Input power requirements	AP1830: 44 to 57 VDC Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz
Power draw	15.4W Note: When deployed using a PoE specification, the power drawn from the power sourcing equipment will be higher by some amount, depending on the length of the interconnecting cable.
Powering options	802.3af/802.3at Enhanced PoE Cisco local power supply, AIR-PWR-C= Cisco power injector, AIR-PWRINJ5= (Note:This injector supports 802.3af only), AIR-PWRINJ6= Note: If 802.3af PoE is the source of power, the USB port is disabled.
Warranty	Limited lifetime hardware warranty