

## Overview

The Cisco® Aironet 1840 Access Points delivers an ideal blend of predictable performance in a compact form factor. Packed with 802.11ac Wave 2 features and Bluetooth Low Energy (BLE) for location-based services, this platform is ideal for small to mid-size enterprise deployments.

### Product Details

Cisco AP AIR-AP1840I Series provides these features:

- 802.11ac Wave 1 and 2 capabilities
- Multiuser Multiple-Input Multiple-Output (MU-MIMO) technology
- Intelligent Capture
- Cisco Mobility Express
- Bluetooth 4.2

### Supported Platforms

Table 1 shows the supported platforms and software.

Supported wireless LAN controllers and Software	Recommended Model
Cisco 3500 Series Wireless Controllers	<a href="#">AIR-CT3504-K9</a>
Cisco 5520 Series Wireless Controllers	<a href="#">AIR-CT5520-K9</a>
Cisco 8540 Series Wireless Controllers	<a href="#">AIR-CT8540-K9</a> <a href="#">AIR-CT8540-1K-K9</a>
Cisco 9800 series Wireless Controllers	<a href="#">C9800-40-K9</a> <a href="#">C9800-80-K9</a>
Cisco Virtual Wireless Controller	/
Cisco Unified Wireless Network Software Release 8.8 MR2 or later	/
Cisco IOS® XE Software Release 16.11 or later	/

### Compare to Similar Items

Table 3 shows the comparison of Cisco AIR-AP1840I Series.

SKU	Description
<a href="#">AIR-AP1840I-A-K9</a>	Cisco Aironet AP1840I Series access point - A domain
<a href="#">AIR-AP1840I-B-K9</a>	Cisco Aironet AP1840I Series access point - B domain
<a href="#">AIR-AP1840I-D-K9</a>	Cisco Aironet AP1840I Series access point - D domain
<a href="#">AIR-AP1840I-E-K9</a>	Cisco Aironet AP1840I Series access point - E domain
<a href="#">AIR-AP1840I-F-K9</a>	Cisco Aironet AP1840I Series access point - F domain
<a href="#">AIR-AP1840I-G-K9</a>	Cisco Aironet AP1840I Series access point - G domain
<a href="#">AIR-AP1840I-H-K9</a>	Cisco Aironet AP1840I Series access point - H domain
<a href="#">AIR-AP1840I-I-K9</a>	Cisco Aironet AP1840I Series access point - I domain
<a href="#">AIR-AP1840I-K-K9</a>	Cisco Aironet AP1840I Series access point - K domain

<a href="#">AIR-AP1840I-N-K9</a>	Cisco Aironet AP1840I Series access point - N domain
<a href="#">AIR-AP1840I-S-K9</a>	Cisco Aironet AP1840I Series access point - S domain
AIR-AP1840I-T-K9	Cisco Aironet AP1840I Series access point - T domain
<a href="#">AIR-AP1840I-Z-K9</a>	Cisco Aironet AP1840I Series access point - Z domain

## Get More Information

Do you have any question about the AIR-AP1840I-T-K9?

## Specification

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<b>AIR-AP1840I-T-K9 Specification</b>	
<b>Description</b>	Cisco Aironet AP1840I Series access point - T domain
<b>Software</b>	<ul style="list-style-type: none"> <li>• Cisco Unified Wireless Network Software Release 8.8 MR2 or later</li> <li>• Cisco IOS ® XE Software Release 16.12 or later</li> </ul>
<b>Supported wireless LAN controllers</b>	<ul style="list-style-type: none"> <li>• Cisco Catalyst 9800 Wireless Controllers</li> <li>• Cisco 3500, 5520 and 8540 Series Wireless Controllers, Cisco Virtual Wireless Controller</li> <li>• Cisco Mobility Express</li> </ul>
<b>802.11n version 2.0 (and related) capabilities</b>	<ul style="list-style-type: none"> <li>• 5 GHz, 4x4 MIMO with four spatial streams</li> <li>• 2.4 GHz, 2x2 MIMO with two spatial streams</li> <li>• Maximal Ratio Combining (MRC)</li> <li>• 802.11n and 802.11a/g beamforming</li> <li>• 20 and 40 MHz channels</li> <li>• PHY data rates up to 744 Mbps (40 MHz with 5 GHz and 20MHz with 2.4GHz)</li> <li>• Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>• 802.11 Dynamic Frequency Selection (DFS)</li> <li>• Cyclic Shift Diversity (CSD) support</li> </ul>
<b>802.11ac</b>	<ul style="list-style-type: none"> <li>• 4x4 downlink MU-MIMO with four spatial streams</li> <li>• MRC</li> <li>• 802.11ac beamforming</li> <li>• 20, 40, 80 MHz channels</li> <li>• PHY data rates up to 1733 Mbps (80MHz with 5 GHz)</li> <li>• Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>• 802.11 DFS</li> <li>• CSD support</li> </ul>
<b>Integrated antenna</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth</li> <li>• 5 GHz, peak gain 5 dBi, internal antenna, omnidirectional in azimuth</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 2 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)</li> <li>• Management console port (RJ-45)</li> <li>• USB 2.0 (enabled via future software)</li> </ul>
<b>Indicators</b>	<ul style="list-style-type: none"> <li>• Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors</li> </ul>
<b>Dimensions (W x L x H)</b>	<ul style="list-style-type: none"> <li>• Access point (without mounting brackets): AIR-AP1840I: 7 x 7 x 1.5 in</li> </ul>
<b>Input power requirements</b>	<ul style="list-style-type: none"> <li>• 802.3at PoE+, Cisco Universal PoE (Cisco UPOE®)</li> <li>• Cisco power injector, AIR-PWRINJ6=</li> <li>• 802.3af PoE</li> <li>• Cisco power injector, AIR-PWRINJ5= (note: this injector only supports 802.3af)</li> <li>Note: When 802.3af PoE is the source of power, then USB port will be off</li> </ul>
<b>Power draw</b>	Cisco AIR-AP1840I <ul style="list-style-type: none"> <li>• 13.2W at the PSE (12.1W at the PD) with all features enabled except for the USB port</li> <li>• 17.8W at the PSE (16.0W at the PD) with the USB port enabled</li> </ul>

<b>Environmental</b>	<p>Cisco AIR-AP1840I</p> <ul style="list-style-type: none"> <li>•Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)</li> <li>•Nonoperating (storage) altitude test: 25°C, 15,000 ft.</li> <li>•Operating temperature: 32° to 122°F (0° to 50°C)</li> <li>•Operating humidity: 10% to 90% (noncondensing)</li> <li>•Operating altitude test: 40°C, 9843 ft.</li> </ul> <p>Note: when ambient operating temperature exceeds 40°C, then the radio transmit duty cycle may be limited to not greater than 50%.</p>
<b>System memory</b>	<ul style="list-style-type: none"> <li>•1GB MB DRAM</li> <li>•256 MB flash</li> </ul>
<b>Available transmit power settings</b>	<p>2.4 GHz</p> <ul style="list-style-type: none"> <li>•20 dBm (100 mW)</li> <li>•17 dBm (50 mW)</li> <li>•14 dBm (25 mW)</li> <li>•11 dBm (12.5 mW)</li> <li>•8 dBm (6.25 mW)</li> <li>•5 dBm (3.13 mW)</li> <li>•2 dBm (1.56 mW)</li> <li>• -1 dBm (0.79 mW)</li> </ul> <p>5 GHz</p> <ul style="list-style-type: none"> <li>•23 dBm (200 mW)</li> <li>•20 dBm (100 mW)</li> <li>•17 dBm (50 mW)</li> <li>•14 dBm (25 mW)</li> <li>•11 dBm (12.5 mW)</li> <li>•8 dBm (6.25 mW)</li> <li>•5 dBm (3.13 mW)</li> <li>•2 dBm (1.56 mW)</li> </ul>
<b>Frequency band and 20-MHz operating channels</b>	<p>T (T regulatory domain):</p> <ul style="list-style-type: none"> <li>•2.412 to 2.462 GHz; 11 channels</li> <li>•5.180 to 5.320 GHz; 3 channels</li> <li>•5.500 to 5.700 GHz; 12 channels</li> <li>•5.745 to 5.825 GHz; 5 channels</li> </ul>

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