

# Cisco Aironet 701e Access Point (India only)\*

Entry-level 802.11n access point with high-power external antenna meets service provider requirements for indoor installations at customer sites. Available in India only.

## Product Overview

The Cisco® Aironet® 701e wireless LAN access point (Figure 1) offers the performance of 802.11n at an entry-level price. Service providers in India can use it to deploy 2.4-GHz solutions in their customers' sites.

As part of the [Cisco Unified Wireless Network](#), the Aironet 701e cost-effectively addresses the range of WLAN issues facing you and your enterprise customers. It seamlessly integrates into existing wired LANs for low total cost of ownership (TCO), investment protection, and easy management from a Cisco wireless LAN controller. Building on the Cisco Aironet heritage of RF excellence, the Aironet 701e delivers highly secure and reliable wireless connections. Enterprise-class chipsets and an optimized radio deliver a robust mobility experience at up to 500 mW transmit power.

**Figure 1.** Cisco Aironet 701e Access Point



## Features and Benefits

- **Performance:** 500-mW transmit power capability
- **Investment protection:** Backward compatible with 802.11b/g clients
- **Easy installation and power efficient:** Compatible with existing Power over Ethernet (PoE) switches
- **Pleasing aesthetics:** Sleek, sturdy design blends into a variety of indoor environments
- **Secure interoperability:** 802.11n compliant
- **Simplified network management:** Cisco WLAN controller allows common management of multiple access points
- **Secure mounting:** Locking options for theft protection and optional mounting brackets

## Platform Support

**Hardware:** WLAN controller models: Cisco 2500 Series Wireless Controllers, Cisco Wireless Services Module 2 (WiSM2) for Cisco Catalyst® 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller

**Software:** Cisco Unified Wireless Software Release 8.0 or later

## Product Specifications

Table 1 lists the product specifications for the Cisco Aironet 701e Access Point.

**Table 1.** Product Specifications

Item	Specification																													
<b>Part numbers</b>	<p><b>The Cisco Aironet 701e Access Point: Controller-based Indoor environments, with external antenna</b></p> <ul style="list-style-type: none"> <li>AIR-CAP701E-A-K9 - Single-band, 1x1 500 mW with external antenna connector (India only). Single unit.</li> <li>AIR-CAP701E-AK910 - Eco-pack (single-band controller-based 802.11b/g/n) 10 quantity access points.</li> </ul> <p><b>Cisco SMARTnet® Service for the Cisco Aironet 701e Access Point with external antenna</b></p> <ul style="list-style-type: none"> <li>CON-SNT-AIRAK91E</li> </ul> <p><b>Cisco Wireless LAN Services</b></p> <ul style="list-style-type: none"> <li>AS-WLAN-CNSLT - Cisco Wireless LAN Network Planning and Design Service</li> <li>AS-WLAN-CNSLT - Cisco Wireless LAN 802.11n Migration Service</li> <li>AS-WLAN-CNSLT - Cisco Wireless LAN Performance and Security Assessment Service</li> </ul>																													
<b>Software</b>	Cisco Unified Wireless Network Software (Release 8.0 or later)																													
<b>802.11n</b>	1x1 with one spatial stream 20-MHz channels PHY data rates up to 72 Mbps Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx) Cyclic shift diversity (CSD) support																													
<b>Data rates supported</b>	<p><b>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps</b></p> <p><b>802.11n data rates (2.4 GHz)</b></p> <table border="1"> <thead> <tr> <th rowspan="2">MCS index<sup>1</sup></th> <th>GI<sup>2</sup> = 800 ns</th> <th>GI = 400 ns</th> </tr> <tr> <th>20-MHz rate (Mbps)</th> <th>20-MHz rate (Mbps)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>6.5</td> <td>7.2</td> </tr> <tr> <td>1</td> <td>13</td> <td>14.4</td> </tr> <tr> <td>2</td> <td>19.5</td> <td>21.7</td> </tr> <tr> <td>3</td> <td>26</td> <td>28.9</td> </tr> <tr> <td>4</td> <td>39</td> <td>43.3</td> </tr> <tr> <td>5</td> <td>52</td> <td>57.8</td> </tr> <tr> <td>6</td> <td>58.5</td> <td>65</td> </tr> <tr> <td>7</td> <td>65</td> <td>72.2</td> </tr> </tbody> </table>	MCS index <sup>1</sup>	GI <sup>2</sup> = 800 ns	GI = 400 ns	20-MHz rate (Mbps)	20-MHz rate (Mbps)	0	6.5	7.2	1	13	14.4	2	19.5	21.7	3	26	28.9	4	39	43.3	5	52	57.8	6	58.5	65	7	65	72.2
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<b>Frequency band and 20-MHz operating channels</b>	<p><b>A Regulatory Domain:</b></p> <ul style="list-style-type: none"> <li>2412 to 2462, 11 channels</li> </ul>																													
<b>Note:</b> This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.																														

Item	Specification																											
<b>Maximum number of nonoverlapping channels</b>	<b>2.4 GHz</b> <ul style="list-style-type: none"> <li>802.11b/g/n: <ul style="list-style-type: none"> <li>20 MHz: 3</li> </ul> </li> </ul>																											
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<b>Receive sensitivity (combined sensitivity)</b>	<table border="1"> <thead> <tr> <th>802.11b</th> <th>802.11g</th> <th>802.11n (HT20)</th> </tr> </thead> <tbody> <tr> <td>-99 dBm @ 1 Mb/s</td> <td>-95 dBm @ 6 Mb/s</td> <td>-94 dBm @ MCS0</td> </tr> <tr> <td>-96 dBm @ 2 Mb/s</td> <td>-93 dBm @ 9 Mb/s</td> <td>-91 dBm @ MCS1</td> </tr> <tr> <td>-94 dBm @ 5.5 Mb/s</td> <td>-91 dBm @ 12 Mb/s</td> <td>-89 dBm @ MCS2</td> </tr> <tr> <td>-92 dBm @ 11 Mb/s</td> <td>-90 dBm @ 18 Mb/s</td> <td>-86 dBm @ MCS3</td> </tr> <tr> <td></td> <td>-87 dBm @ 24 Mb/s</td> <td>-82 dBm @ MCS4</td> </tr> <tr> <td></td> <td>-83 dBm @ 36 Mb/s</td> <td>-78 dBm @ MCS5</td> </tr> <tr> <td></td> <td>-79 dBm @ 48 Mb/s</td> <td>-76 dBm @ MCS6</td> </tr> <tr> <td></td> <td>-77 dBm @ 54 Mb/s</td> <td>-75 dBm @ MCS7</td> </tr> </tbody> </table>	802.11b	802.11g	802.11n (HT20)	-99 dBm @ 1 Mb/s	-95 dBm @ 6 Mb/s	-94 dBm @ MCS0	-96 dBm @ 2 Mb/s	-93 dBm @ 9 Mb/s	-91 dBm @ MCS1	-94 dBm @ 5.5 Mb/s	-91 dBm @ 12 Mb/s	-89 dBm @ MCS2	-92 dBm @ 11 Mb/s	-90 dBm @ 18 Mb/s	-86 dBm @ MCS3		-87 dBm @ 24 Mb/s	-82 dBm @ MCS4		-83 dBm @ 36 Mb/s	-78 dBm @ MCS5		-79 dBm @ 48 Mb/s	-76 dBm @ MCS6		-77 dBm @ 54 Mb/s	-75 dBm @ MCS7
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<b>Maximum transmit power</b>	<b>2.4 GHz</b> <ul style="list-style-type: none"> <li>802.11b/g/n <ul style="list-style-type: none"> <li>27 dBm with one antenna</li> </ul> </li> </ul>																											
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<b>Available transmit power settings</b>	<b>2.4 GHz</b> <ul style="list-style-type: none"> <li>27 dBm (500 mW)</li> <li>24 dBm (250 mW)</li> <li>21 dBm (125 mW)</li> <li>18 dBm (62.5 mW)</li> <li>15 dBm (31.3 mW)</li> <li>12 dBm (15.6 mW)</li> <li>9 dBm (7.8 mW)</li> <li>6 dBm (3.9 mW)</li> </ul>																											
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<b>External antennas</b>	<ul style="list-style-type: none"> <li>1x RP-SMA type external connector</li> </ul>																											
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>10/100/1000BASE-T autosensing (RJ-45)</li> <li>Management console port (RJ-45)</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 bracket): 5.9 x 5.9 x 2.5 inches (150 x 150 x 63.5 mm)</li> </ul>																											
<b>Weight</b>	<ul style="list-style-type: none"> <li>1.85 lb (0.84 kg)</li> </ul>																											
<b>Environmental</b>	<b>Cisco Aironet 701e</b> <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, 4,572 meters. (77°F, 15,000 ft.)</li> <li>Operating temperature: 32° to 104°F (0° to 40°C)</li> <li>Operating humidity: 10° to 90% (noncondensing)</li> <li>Operating altitude test 40°C, 3,000 meters (104°F, 9843 ft.)</li> </ul>																											
<b>System memory</b>	<ul style="list-style-type: none"> <li>128 MB DRAM</li> <li>128 MB flash</li> </ul>																											
<b>Input power requirements</b>	<ul style="list-style-type: none"> <li>44 to 57 VDC</li> <li>Power injector: 100 to 240 VAC; 50 to 60 Hz</li> </ul>																											
<b>Powering options</b>	<ul style="list-style-type: none"> <li>802.3af Ethernet switch</li> <li>Cisco Power Injector AIR-PWRINJ5=</li> <li>802.3af compliant power injector</li> </ul>																											

Item	Specification
<b>Power draw</b>	<ul style="list-style-type: none"> <li>• 9.7W</li> </ul> <p><b>Note:</b> When deployed using PoE, the power drawn from the power sourcing equipment will be higher by some amount dependent on the length of the interconnecting cable. This additional power may be as high as 1.4W, bringing the total system power draw (access point + cabling) to 11.1W.</p>
<b>Warranty</b>	Limited Lifetime Hardware Warranty

<sup>1</sup> MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.

<sup>2</sup> GI: A Guard Interval (GI) between symbols helps receivers overcome the effects of multipath delays.

## Ordering Information

Part Numbers	Description
<b>AIR-CAP701E-A-K9</b>	<ul style="list-style-type: none"> <li>• Aironet 701e access point, controller-based, single-band, 1x1 500 mW with external antenna connector (India only)</li> </ul>
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## Limited Lifetime Hardware Warranty

The Cisco Aironet 701e Access Point comes with a limited lifetime warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and ensures that software media is defect-free for 90 days. For more details, visit: <http://www.cisco.com/go/warranty>.

## Cisco Wireless LAN Services

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco and our partners. Backed by deep networking expertise and a broad ecosystem of partners, Cisco Wireless LAN Services enable you to deploy a sound, scalable mobility network that enables rich media collaboration while improving the operational efficiency gained from a converged wired and wireless network infrastructure based on the Cisco Unified Wireless Network. Together with partners, we offer expert plan, build, and run services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed. For more details, visit: <http://www.cisco.com/go/wirelesslanservices>.

## Next Steps

For more information on the Cisco Aironet 701e Access Point, visit <http://www.cisco.com/go/wireless> or contact your local account representative.

<sup>†</sup> Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis. This information is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this document.




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