## Cisco Aironet 2700 Series Access Points

### Dual-band 2.4 GHz and 5 GHz access points (APs) with 802.11ac Wave 1 support on the integrated 5-GHz radio

**Cisco Aironet 2702i Access Point**
- Sleek design with internal antennas
- Ideal for office environments
- Classify over 20 different types of interference, including non-Wi-Fi interference, within 5 to 30 seconds
- Automatic remedial action and less manual intervention
- UL 2043 plenum-rated for above-ceiling installation or for suspending from drop ceilings

**Cisco Aironet 2702e Access Points**
- Rugged metal housing and extended operating temperature
- Ideal for factories, warehouses, and other indoor industrial environments
- Versatile RF coverage with external antennas
- UL 2043 plenum-rated for above-ceiling installation or for suspending from drop ceilings
- Classification of over 20 different types of interference, including non-Wi-Fi interference, within 5 to 30 seconds
- Automatic remedial action and less manual intervention

### Troubleshooting Forensics for Faster Interference Resolution and Proactive Action
- Historic interference information for back-in-time analysis and faster problem solving
- 24x7 monitoring with remote access for reduced travel and speedier resolution
- Air quality index in Cisco CleanAir® technology provides a snapshot of network performance and the impact of interference

### Robust Security and Policy Enforcement
- Industry’s first AP with non-Wi-Fi detection for off-channel rogues
- Supports rogue AP detection and detection of denial-of-service attacks
- Management frame protection detects malicious users and alerts network administrators
- Enables policies to prohibit devices that interfere with the Wi-Fi network or jeopardize network security

### Secure Interoperability
- Controller-based deployment and standalone deployments

The Cisco® Aironet® 2700 Series of Wi-Fi access points (APs) delivers industry-leading 802.11ac performance at a price point ideal for plugging capacity and coverage gaps in dense indoor environments. The Aironet 2700 Series extends 802.11ac speed and features to a new generation of smartphones, tablets, and high-performance laptops now shipping with the faster, 802.11ac Wi-Fi radios.

The Aironet 2700 series supports 802.11ac “Wave 1” In its first implementation, providing a theoretical connection rate of up to 1.3 Gbps. That's roughly triple the rates offered by today’s high-end 802.11n APs. The boost helps you stay ahead of the performance and bandwidth expectations of today’s mobile worker, who usually uses multiple Wi-Fi devices instead of just one. As such, users are adding proportionally larger traffic loads to the wireless LAN, which has outpaced Ethernet as the default enterprise access network.

### High Density Experience (HD Experience)

Building on the Cisco Aironet heritage of RF excellence, the 2700 Series APs run on a purpose-built, innovative chipset with a best-in-class RF architecture. This chipset provides a high-density experience for enterprise networks designed for mission-critical, high-performance applications. The 2700 is a component of a Cisco series of flagship, 802.11ac-enabled APs that delivers a robust mobility experience based on the following product features:

- 802.11ac with 3x4 multiple-input multiple-output (MIMO) technology supporting three spatial streams.
This architecture offers a sustained 1.3-Gbps rates over a greater range for more capacity and reliability than competing APs.

- **Cross-AP Noise Reduction**, a Cisco innovation that enables APs to intelligently collaborate in real time about RF conditions so that users connect with optimized signal quality and performance.

- **Optimized AP Roaming** to ensure that client devices associate with the AP in their coverage range that offers the fastest data rate available.

- **Cisco ClientLink 3.0** technology to improve downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11ac. At the same time, the technology improves battery life on mobile devices.

- **Cisco CleanAir** technology enhanced with 80MHz channel support. CleanAir delivers proactive, high-speed spectrum intelligence across 20-, 40-, and 80-MHz-wide channels to combat performance problems due to wireless interference.

- **MIMO equalization** capabilities, which optimize uplink performance and reliability by reducing the impact of signal fade.

The Cisco Aironet 2700 Series sustains higher-speed connections farther from the AP than competing solutions. The result is up to three times greater availability of 1.3-Gbps rates in the Cisco environment for optimum mobile device performance and user experiences.

Cisco also offers the industry’s broadest selection of 802.11n and 802.11ac antennas, delivering optimal coverage to different deployment scenarios.

**Scalability**

The Cisco Aironet 2700 Series is a component of the Cisco Unified Wireless Network, a foundation for operating both wired and wireless LANs in an integrated manner. The Unified Wireless Network can scale to as many as 18,000 APs with full Layer-3 mobility across locations on the enterprise campus, in branch offices, and at remote sites. The Cisco Unified Wireless Network delivers highly secure access to mobility services and applications. It offers the lowest total cost of ownership (TCO) and investment protection by integrating smoothly with existing wired networks.

**Product Specifications**

Table 1 lists the specifications for the Cisco Aironet 2700 Series Access Points.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part numbers</strong></td>
<td><strong>Cisco Aironet 2700i Access Point: Indoor environments, with internal antennas, Universal Regulatory Domain (UX)</strong></td>
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<tr>
<td></td>
<td>AIR-AP2702I-UXK9: Dual-band, controller-based 802.11a/g/n/ac</td>
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<tr>
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<td>AIR-AP2702I-UXK9C: Dual-band, controller-based 802.11a/g/n/ac (Configurable)</td>
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<td>AIR-AP2702I-UXK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points</td>
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<td>AIRAP2702I-UXK910C: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points (Configurable)</td>
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<td><strong>Cisco SMARTnet Total Care™ Service for the Cisco Aironet 2700i Access Point with internal antennas, Universal Regulatory Domain (UX)</strong></td>
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<td>CON-SNT-AP2702IUX: SMARTnet 8x5xNBD for 2700i access point (dual-band 802.11a/g/n/ac)</td>
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<td>CON-SNT-AP2702IUX x 10: SMARTnet 8x5xNBD for 10-quantity eco-pack 2700i access point (dual-band 802.11a/g/n/ac)</td>
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<tr>
<td></td>
<td><strong>Cisco Aironet 2700e Access Point: Indoor, challenging environments, with external antennas, Universal</strong></td>
</tr>
</tbody>
</table>
### Regulatory Domain (UX)
- AIR-AP2702E-UXK9: Dual-band controller-based 802.11a/g/n/ac
- AIR-AP2702E-UXK9: Dual-band controller-based 802.11a/g/n/ac (Configurable)
- AIR-AP2702E-UXK910: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points
- AIRAP2702E-UXK910C: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points (Configurable)

### Cisco SMARTnet Total Care Service for the Cisco Aironet 2700e Access Point with external antennas, Universal Regulatory Domain (UX)
- CON-SNT-AP2702EU: SMARTnet 8x5xNBD for 2700e access point (dual-band 802.11a/g/n/ac)
- CON-SNT-AP2702EU x 10: SMARTnet 8x5xNBD for 10 quantity eco-pack 2700e access point (dual-band 802.11a/g/n/ac)

### Cisco Aironet 2700i Access Point: Indoor environments, with internal antennas
- AIR-AP2702I-x-K9: Dual-band, controller-based 802.11a/g/n/ac
- AIR-AP2702I-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points

### Cisco SMARTnet Total Care Service for the Cisco Aironet 2700i Access Point with internal antennas
- CON-SNT- AIRC1xK9: SMARTnet 8x5xNBD for 2700i access point (dual-band 802.11a/g/n/ac)
- CON-SNT- AIRC1xK9 x 10: SMARTnet 8x5xNBD for 10 quantity eco-pack 2700i access point (dual-band 802.11a/g/n/ac)

### Cisco Aironet 2700e Access Point: Indoor, challenging environments, with external antennas
- AIR-AP2702E-x-K9: Dual-band controller-based 802.11a/g/n/ac
- AIR-AP2702E-xK910: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points

### Cisco SMARTnet Total Care Service for the Cisco Aironet 2700e Access Point with external antennas
- CON-SNT- AIRCExK9: SMARTnet 8x5xNBD for 2700e access point (dual-band 802.11a/g/n/ac)
- CON-SNT- AIRCExK9 x 10: SMARTnet 8x5xNBD for 10 quantity eco-pack 2700e access point (dual-band 802.11a/g/n/ac)

### Regulatory domains: (x = regulatory domain)
Customers are responsible for verifying approval for use in their individual countries. To verify approval and to identify the regulatory domain that corresponds to a particular country, visit [http://www.cisco.com/go/aironet/compliance](http://www.cisco.com/go/aironet/compliance).

Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.

**Cisco Wireless LAN Services**
- AS-WLAN-CNSLT: [Cisco Wireless LAN 802.11n Migration Service](https://www.cisco.com/go/wlan-80211n-migration-service)

**Software Supported wireless LAN controllers** Cisco Unified Wireless Network Software Release 7.6MR2 or later
- 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 5760 Wireless LAN Controller, Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches

**802.11n version 2.0 (and related) capabilities**
- 3x4 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**
- 3x4 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
<table>
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<tr>
<th>Item</th>
<th>Specification</th>
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<td>Data rates supported</td>
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<td>802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps</td>
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<td>802.11n data rates on 2.4 GHz:</td>
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<td>MCS Index&lt;sup&gt;1&lt;/sup&gt;</td>
<td>GI&lt;sup&gt;2&lt;/sup&gt; = 800 ns</td>
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802.11ac data rates (5 GHz):

<table>
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<th>MCS Index&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Spatial Streams</th>
<th>GI&lt;sup&gt;3&lt;/sup&gt; = 800ns</th>
<th>GI = 400ns</th>
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</thead>
<tbody>
<tr>
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<td>20-MHz Rate (Mbps)</td>
<td>80-MHz Rate (Mbps)</td>
<td>20-MHz Rate (Mbps)</td>
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<tr>
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<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.

<sup>3</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>4</sup> GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delays.
<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>3</td>
<td>1 26 54 117 28.9 60 130</td>
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<tr>
<td>4</td>
<td>1 39 81 175.5 43.3 90 195</td>
</tr>
<tr>
<td>5</td>
<td>1 52 108 234 57.8 120 260</td>
</tr>
<tr>
<td>6</td>
<td>1 58.5 121.5 263.3 65 135 292.5</td>
</tr>
<tr>
<td>7</td>
<td>1 65 135 292.5 72.2 150 325</td>
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<tr>
<td>8</td>
<td>1 78 162 351 86.7 180 390</td>
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<tr>
<td>9</td>
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</tr>
<tr>
<td>0</td>
<td>2 13 27 58.5 14.4 30 65</td>
</tr>
<tr>
<td>1</td>
<td>2 26 54 117 28.9 60 130</td>
</tr>
<tr>
<td>2</td>
<td>2 39 81 175.5 43.3 90 195</td>
</tr>
<tr>
<td>3</td>
<td>2 52 108 234 57.8 120 260</td>
</tr>
<tr>
<td>4</td>
<td>2 78 162 351 86.7 180 390</td>
</tr>
<tr>
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<td>2 117 243 526.5 130 270 585</td>
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<td>2 130 270 585 144.4 300 650</td>
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<td>2 78 780 780 400 866.7</td>
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<td>3 39 81 175.5 43.3 90 195</td>
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</tr>
<tr>
<td>3</td>
<td>3 78 162 351 86.7 180 390</td>
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<tr>
<td>4</td>
<td>3 117 243 526.5 130 270 585</td>
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<td>3 175.5 364.5 - 195 405 -</td>
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<tr>
<td>7</td>
<td>3 195 405 877.5 216.7 450 975</td>
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<tr>
<td>8</td>
<td>3 234 486 1053 260 540 1170</td>
</tr>
<tr>
<td>9</td>
<td>3 260 540 1170 288.9 600 1300</td>
</tr>
</tbody>
</table>

**Frequency band and 20-MHz operating channels**

### A (A regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
- 5.745 to 5.825 GHz; 5 channels

### B (B regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.720 GHz; 12 channels
- 5.745 to 5.825 GHz; 5 channels

### C (C regulatory domain):
- 2.412 to 2.472 GHz; 13 channels
- 5.745 to 5.825 GHz; 5 channels

### D (D regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.745 to 5.865 GHz; 7 channels

### E (E regulatory domain):
- 2.412 to 2.472 GHz; 13 channels
- 5.180 to 5.320 GHz; 8 channels

### N (N regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.745 to 5.825 GHz; 5 channels

### Q (Q regulatory domain):
- 2.412 to 2.472 GHz; 13 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.700 GHz; 11 channels

### R (R regulatory domain):
- 2.412 to 2.472 GHz; 13 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.660 to 5.805 GHz; 7 channels

### S (S regulatory domain):
- 2.412 to 2.472 GHz; 13 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.700 GHz; 11 channels
- 5.745 to 5.825 GHz; 5 channels

### T (T regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.280 to 5.320 GHz; 3 channels
- 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</td>
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<tr>
<td>F (F regulatory domain):</td>
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<td>H (H regulatory domain):</td>
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<td>5.150 to 5.350 GHz; 8 channels</td>
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<td></td>
<td>5.745 to 5.825 GHz; 5 channels</td>
</tr>
</tbody>
</table>

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### Maximum number of nonoverlapping channels

**2.4 GHz**
- 802.11b/g: 20 MHz: 3
- 802.11n: 20 MHz: 3

**5 GHz**
- 802.11a: 20 MHz: 21
- 802.11n: 20 MHz: 21
- 802.11ac: 40 MHz: 9

**Note:** This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.

### Receive sensitivity

**2.4 GHz**
- 802.11b (CCK): -120 dBm @ 1 Mbps
- 802.11b @ 2 Mbps
- 93 dBm @ 5.5 Mbps
- 80 dBm @ 11 Mbps

**5 GHz**
- 802.11g (non HT20): -93 dBm @ 6 Mbps
- 93 dBm @ 9 Mbps
- 93 dBm @ 12 Mbps
- 93 dBm @ 18 Mbps
- 89 dBm @ 24 Mbps
- 86 dBm @ 36 Mbps
- 81 dBm @ 48 Mbps
- 80 dBm @ 54 Mbps

**5 GHz**
- 802.11a (non HT20): -93 dBm @ 6 Mbps
- 93 dBm @ 9 Mbps
- 93 dBm @ 12 Mbps
- 92 dBm @ 18 Mbps
- 89 dBm @ 24 Mbps
- 86 dBm @ 36 Mbps
- 81 dBm @ 48 Mbps
- 80 dBm @ 54 Mbps

**5 GHz**
- 802.11n (HT20): -93 dBm @ MCS0
- 93 dBm @ MCS1
- 91 dBm @ MCS2
- 88 dBm @ MCS3
- 85 dBm @ MCS4
- 80 dBm @ MCS5
- 79 dBm @ MCS6
- 78 dBm @ MCS7
- 93 dBm @ MCS8
- 91 dBm @ MCS9
- 89 dBm @ MCS10
- 86 dBm @ MCS11

**5 GHz**
- 802.11n (HT40): -90 dBm @ MCS0
- 89 dBm @ MCS1
- 88 dBm @ MCS2
- 85 dBm @ MCS3
- 82 dBm @ MCS4
- 77 dBm @ MCS5
- 76 dBm @ MCS6
- 75 dBm @ MCS7
- 90 dBm @ MCS8
- 88 dBm @ MCS9
- 86 dBm @ MCS10
- 83 dBm @ MCS11
## 802.11ac Receive Sensitivity

### 802.11ac (non HT80)
- -86 dBm @ 6 Mbps
- -75 dBm @ 54 Mbps

<table>
<thead>
<tr>
<th>MCS Index(^5)</th>
<th>Spatial Streams</th>
<th>VHT20</th>
<th>VHT40</th>
<th>VHT80</th>
<th>VTH20-STBC</th>
<th>VHT40-STBC</th>
<th>VHT80-STBC</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>-67 dBm</td>
<td>-63 dBm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>3</td>
<td>-92 dBm</td>
<td>-88 dBm</td>
<td>-84 dBm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td>-68 dBm</td>
<td>-66 dBm</td>
<td>-62 dBm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Maximum transmit power

#### 2.4 GHz
- 802.11b
  - 22 dBm, 3 antennas
- 802.11g
  - 22 dBm, 3 antennas
- 802.11n (HT20)
  - 22 dBm, 3 antennas

#### 5 GHz
- 802.11a
  - 23 dBm, 4 antennas
- 802.11n (HT20)
  - 23 dBm, 4 antennas
- 802.11n (HT40)
  - 23 dBm, 4 antennas

\(^5\) MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.

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<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item</strong></td>
<td><strong>Specification</strong></td>
</tr>
<tr>
<td>• 10 dBm (10 mW)</td>
<td>• 11 dBm (12.5 mW)</td>
</tr>
<tr>
<td>• 7 dBm (5 mW)</td>
<td>• 8 dBm (6.25 mW)</td>
</tr>
<tr>
<td>• 4 dBm (2.5 mW)</td>
<td>• 5 dBm (3.13 mW)</td>
</tr>
<tr>
<td>• 2 dBm (1.25 mW)</td>
<td>• 2 dBm (1.56 mW)</td>
</tr>
</tbody>
</table>

**Note:** The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.

**Integrated antenna**  
- 2.4 GHz, gain 4 dBi, internal omni, horizontal beamwidth 360°
- 5 GHz, gain 4 dBi, internal omni, horizontal beamwidth 360°

**External antenna** (sold separately)  
- 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

**Interfaces**  
- 2x10/100/1000BASE-T autosensing (RJ-45)
- Management console port (RJ-45)

**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): 8.69 x 8.69 x 1.99 in. (22.1 x 22.1 x 5.1 cm)

**Weight**  
- 2.2 lb (1.0 kg)

**Environmental**  
- **Cisco Aironet 2702i**
  - 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% percent (noncondensing)
  - Operating altitude test: 40°C, 9843 ft.
- **Cisco Aironet 2700e**
  - 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**  
- 512 MB DRAM
- 64 MB flash

**Input power requirements**  
- AP2700: 44 to 57 VDC
- Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz

**Power draw**  
- AP2700: 15W

**Powering options**  
- 802.3at PoE+
- Enhanced PoE
- Cisco AP2700 power injectors (AIR-PWRINJ4+)
- Cisco AP2700 local power supply (AIR-PWR-B+)

**Warranty**  
- Limited lifetime hardware warranty

**Compliance standards**  
- UL 60950-1
- CAN/CSA-C22.2 No. 60950-1
- UL 2043
- IEC 60950-1
- EN 60950-1
- EN 50155
- Radio approvals:
  - FCC Part 15.247, 15.407
  - RSS-210 (Canada)
  - EN 300.328, EN 301.893 (Europe)
Limited Lifetime Hardware Warranty
The Cisco Aironet 2700 Series Access Points come 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 are defect-free for 90 days. For more details, visit http://www.cisco.com/go/warranty.

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For More Information

For more information about the Cisco Aironet 2700 Series, visit http://www.cisco.com/go/wireless or contact your local account representative.