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# Cisco Business 140AC Access Point



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Ideal for smaller networks, the Cisco® Business 140AC Access Point brings a full slate of Cisco high-performance functionality to the business environment.

The Cisco Business 140AC Access Point delivers industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's 802.11ac Wave 2 (Figure 1). It also meets the growing flexibility requirements of wireless networks by introducing mesh technology—all while delivering a simple user experience.

The 140AC access point extends coverage and capacity to Wi-Fi clients such as smartphones, tablets, and high-performance laptops that have integrated 802.11ac Wave 1 or Wave 2 support.

**Figure 1.**  
Cisco Business 140AC Access Point

By adhering to the 802.11ac Wave 2 standard, the Cisco Business 140AC Access Point delivers a data rate of up to 867 Mbps on its 5-GHz radio. This exceeds the data rates offered by access points that support the 802.11n standard. It also enables a total aggregate dual-radio data rate of up to 1 Gbps, providing the necessary foundation to stay ahead of the performance expectations and needs of wireless users.

In recent years, small businesses have increasingly preferred wireless access as the principal form of network connectivity. Along with this shift, there is an expectation that wireless should enable a high-performance experience. The Cisco Business 140AC Access Point delivers industry-leading performance for highly secure and reliable wireless connections, for a optimal end-user experience.

Table 1 lists the features and benefits of the Cisco Business 140AC Access Point.

**Table 1.** Features and benefits

Feature	Benefits
<b>MU-MIMO</b>	<p>Multi-User (MU) Multiple-Input Multiple-Output (MU-MIMO) technology allows transmission of data to multiple 802.11ac Wave 2-capable clients simultaneously to improve the client experience. Prior to MU-MIMO, 802.11n and 802.11ac Wave 1 access points could transmit data to only one client at a time, typically referred to as Single-User MIMO (SU-MIMO).</p> <p>802.11ac Wave 2 with 2x2:2 MIMO technology uses two spatial streams when operating in SU-MIMO or MU-MIMO mode, offering 867-Mbps rates for more capacity and reliability than competing access points.</p>
<b>Simplified management</b>	Deploy and configure multiple Cisco Business access points and mesh extenders easily without a physical controller, using Cisco Business Mobile app . Optional multisite remote management is available through the Cisco FindIT Network Management.
<b>Mesh technology support</b>	Mix and match Cisco Business mesh extenders or access points to increase WiFi coverage throughout your business.
<b>Flexible deployment</b>	Flexible deployment models supporting multiple concurrent use cases required by small businesses, including point of sale systems, surveillance cameras, guest access, and more.

## Mounting

This sleek, compact access point is designed with flexible mounting options in mind. You can mount it directly on the ceiling (including T-bar rail mounting) or a wall. It is easy to install, and the mounting hardware is included.

Table 2 lists the specifications for the Cisco Business 140AC Access Point.

**Table 2.** Specifications

Item	Specification
<b>Authentication and security</b>	Wi-Fi Protected Access 2 (WPA2) WPA3 is coming in a post-Frame Check Sequence (FCS) release 802.1X, RADIUS Authentication, Authorization, and Accounting (AAA) Segmentation via VLANs (up to 16) 802.11r and 802.11i Guest network can also authenticate against: Google and Facebook
<b>Maximum clients</b>	Maximum number of associated wireless clients: 200 per Wi-Fi radio, for a total of 400 clients per access point, or 1000 in a system
<b>Maximum # of Access Points</b>	50

Item	Specification	
Maximum number of nonoverlapping channels	<p><b>A (A regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>B (B regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.720 GHz; 12 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>C (C regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>D (D regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>E (E regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> </ul> <p><b>F (F regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.745 to 5.805 GHz; 4 channels</li> </ul> <p><b>G (G regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.745 to 5.865 GHz; 7 channels</li> </ul> <p><b>H (H regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>I (I regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> </ul>	<p><b>K (K regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.620 GHz; 7 channels</li> <li>5.745 to 5.805 GHz; 4 channels</li> </ul> <p><b>N (N regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>Q (Q regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 11 channels</li> </ul> <p><b>R (R regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.660 to 5.700 GHz; 3 channels</li> <li>5.745 to 5.805 GHz; 4 channels</li> </ul> <p><b>S (S regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 11 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>T (T regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.280 to 5.320 GHz; 3 channels</li> <li>5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>Z (Z regulatory domain):</b></p> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.320 GHz; 8 channels</li> <li>5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>5.745 to 5.825 GHz; 5 channels</li> </ul>
<b>Note:</b> This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.		
Available transmit power settings	<p><b>2.4 GHz</b></p> <p>Up to 20 dBm</p>	<p><b>5 GHz</b></p> <p>Up to 20 dBm</p>
<b>Note:</b> The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.		

Item	Specification
<b>Integrated antennas</b>	2.4 GHz, gain 2 dBi 5 GHz, gain 4 dBi
<b>Interfaces</b>	1x Gigabit Ethernet (10/100/1000BASE-T autosensing), Power over Ethernet (PoE) RJ-45 console port (not functional)
<b>Indicators</b>	Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors
<b>Dimensions (W x L x H)</b>	Access point (without mounting bracket): 6 x 6 x 1.3 in. (150.8 x 150.8 x 33 mm)
<b>Weight</b>	Access point without mounting bracket or any other accessories: 14 oz (400 g)
<b>Environmental</b>	Operating <ul style="list-style-type: none"> <li>◦ Temperature: 32° to 104° F (0° to 50° C)</li> <li>◦ Humidity: 10% to 90% (noncondensing)</li> <li>◦ Maximum altitude: 9843 ft (3000 m) at 40° C</li> </ul> Nonoperating (storage and transportation) <ul style="list-style-type: none"> <li>◦ Temperature: -22° to 158° F (-30° to 70° C)</li> <li>◦ Humidity: 10% to 90% (noncondensing)</li> <li>◦ Maximum altitude: 15,000 ft (4500 m) at 25° C</li> </ul>
<b>System</b>	1 GB DRAM, 256 MB flash 710-MHz quad core processor
<b>Powering options</b>	802.3af/at Ethernet switch; a Cisco Business switch with PoE is recommended Optional Cisco Business PoE injector
<b>Power draw</b>	8.3W (maximum, on PoE)
<b>Mounting and physical security</b>	Included with the access point: Mounting bracket Torx security screw Ceiling rail mount clip
<b>Warranty</b>	Cisco Business limited lifetime hardware warranty Free software updates, no service contract required
<b>Compliance</b>	Safety: <ul style="list-style-type: none"> <li>◦ UL 60950-1</li> <li>◦ CAN/CSA-C22.2 No. 60950-1</li> <li>◦ UL 2043</li> <li>◦ IEC 60950-1</li> <li>◦ EN 60950-1</li> </ul> Radio approvals: <ul style="list-style-type: none"> <li>◦ FCC Part 15.247, 15.407</li> <li>◦ RSS-247 (Canada)</li> <li>◦ EN 300.328, EN 301.893 (Europe)</li> <li>◦ ARIB-STD 66 (Japan)</li> <li>◦ ARIB-STD T71 (Japan)</li> <li>◦ EMI and susceptibility (Class B)</li> </ul>







This Cisco Business product comes with a limited lifetime hardware warranty. Product warranty terms and other information applicable to Cisco products are available at <https://www.cisco.com/go/warranty>.

This optional subscription-based, device-level service offers affordable, 3-year peace-of-mind coverage. It helps you protect your investment and derive maximum value from Cisco Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates, extended access to the Cisco Business Support Center, and expedited hardware replacement, should it be required.

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Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	<a href="#">Materials</a>
Information on electronic waste laws and regulations, including products, batteries, and packaging	<a href="#">WEEE compliance</a>

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