Cisco Business 240AC Access Point

Contents

The Cisco® Business 240AC Access Point delivers an ideal blend of predictable performance in a compact form. Incorporating 802.11ac Wave 2 features, this platform is ideal for small-to-midsize enterprise deployments.

Ideal for small and medium-sized networks, the Cisco Business 240AC Access Point delivers industry-leading performance for enterprise-class 4x4 Multi-user Multiple-Input Multiple-Output (MU-MIMO), four spatial stream access points that support the Institute of Electrical and Electronic Engineers (IEEE) 802.11ac Wave 2 standard. The Cisco Business 240AC Access Point 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.

Features and benefits

Table 1 lists the features and benefits of the Cisco Business 240AC Access Point.

Table 1.   Features and benefits

Feature	Benefit
802.11ac Wave 1 and 2 capabilities with MU-MIMO technology	The IEEE 802.11ac standard delivers improved experience in typical environments, and more predictable performance for advanced applications such as 4K or 8K video, high-density high-definition collaboration apps, all-wireless offices, and Internet of Things (IoT). Supporting four spatial streams, MU-MIMO enables access points to split spatial streams between client devices, to maximize throughput.
Simplified management	Deploy and configure multiple Cisco Business Wireless access points and mesh extenders easily without a physical controller, using Cisco Business Mobile app. Optional multisite remote management is available through Cisco FindIT Network Management.
Mesh technology support	Mix and match Cisco Business mesh extenders or access points to increase WiFi coverage throughout your business.
Flexible deployment	Flexible deployment models supporting multiple concurrent use cases required by small businesses, including point of sale systems, surveillance cameras, guest access, and more.

Cisco Business Mobile app

The Cisco Business 240AC Access Point is managed by the Cisco Business Mobile app, an intuitive client application that simplifies traditional challenges associated with wireless network deployment, right from your mobile device. You can extend your network by adding new mesh extenders and automating wireless network activation in minutes. A robust management capability dynamically changes network configuration such as enabling guest access. Network usage, traffic patterns, and network throughput can be closely monitored, providing a real-time snapshot; this not only provides peace of mind, it virtually ensures optimal user experience. The Cisco Business Mobile app is available for iPhone, iPad, and Android devices.

Product specifications

Table 2 lists the specifications for the Cisco Business 240AC Access Point.

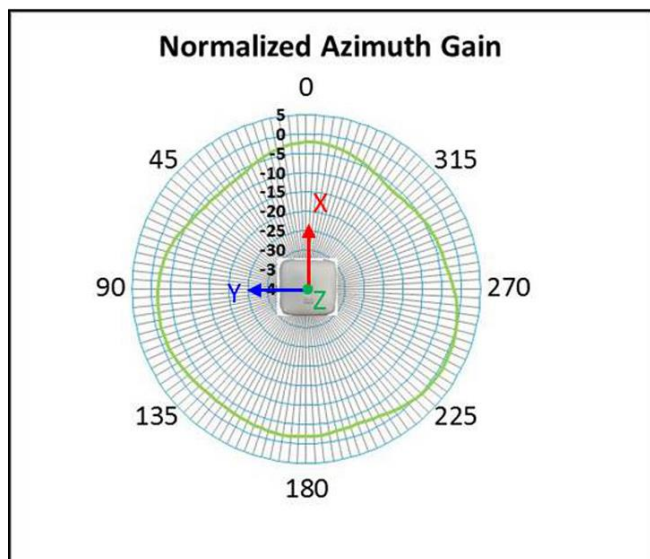**Table 2.**   Specifications

Item	Specification
Authentication and security	• Wi-Fi Protected Access 2 (WPA2); WPA3 is coming in a future release • 802.1X, Remote Authentication Dial-In User Service (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
Maximum clients	• Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point, or 1000 in a system
Maximum # of access points	• 50 • Recommended up to 25
Ma Max # of mesh extenders	• Maximum number of associated Cisco Business mesh extenders: 25 per access point, up to 8 hops
802.11ac	• 4x4 Downlink (DL) MU-MIMO with four spatial streams, up to 1733 Mbps • 802.11ac beamforming • 20, 40, 80 MHz channels • Dynamic Frequency Selection (DFS)
Integrated antenna	• 2.4 GHz, peak gain 4 dBi, internal antenna, omnidirectional • 5 GHz, peak gain 5 dBi, internal antenna, omnidirectional
Ethernet ports	• Authentication with 802.1X or MAC filtered • Dynamic VLAN or per port
Interfaces	• 2 x Gigabit (10/100/1000BASE-T autosensing), Power over Ethernet (PoE) • RJ-45 console port (not functional) • USB 2.0 (not functional)
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 brackets): 7 x 7 x 1.5 in
Weight	• 0.94 lb (0.43 kg)

Item	Specification	
Powering options	• 802.3af/at Ethernet switch, a Cisco Business Switch with PoE is recommended • Optional Cisco Business Power over Ethernet injector (CB-PWRINJ-xx)	
Power draw	• 13.2W	
Environmental	• Nonoperating (storage) temperature: −22° to 158°F (−30° to 70°C) • Nonoperating (storage) altitude test: 25°C, 15,000 ft • Operating temperature: 32° to 122°F (0° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40°C, 9843 ft	

Note: When ambient operating temperature exceeds 40°C, then the radio transmit duty cycle may be limited to not greater than 50%.

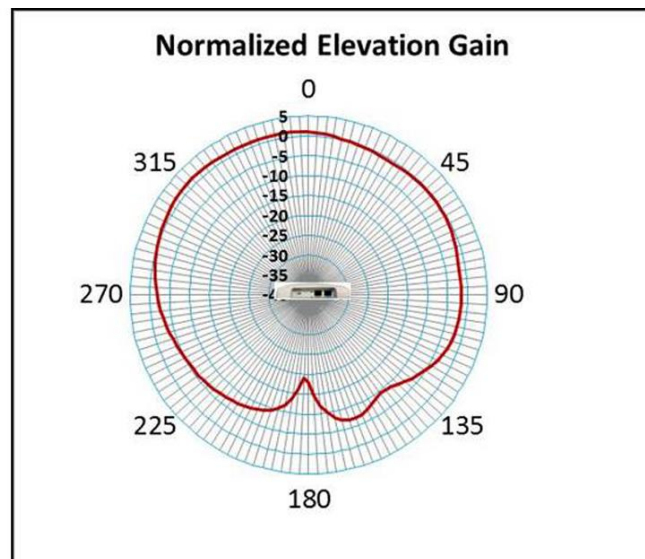| Item	Specification	
System memory	1GB MB DRAM, 256 MB flash	
Warranty	Cisco Business Limited lifetime hardware warranty Free software updates, no service contract required	
Available transmit power settings3	**2.4 GHz** • Up to 20 dBm	**5 GHz** • Up to 23 dBm
Frequency band and 20-MHz operating channels	**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 5.700 GHz; 11 channels • 5.745 to 5.865 GHz; 7 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 5.825 GHz; 5 channels **E (E regulatory domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) **F (F regulatory domain):** • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.805 GHz; 4 channels	**I (I regulatory domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels **K (K regulatory domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.805 GHz; 4 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 5,825 GHz; 8 channels (excludes 5.700 to 5.745 GHz) **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

Item	Specification	
	G (G regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.865 GHz; 7 channels **H (H regulatory domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels	**T (T regulatory domain):** • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 3 channels • 5.500 to 5.700 GHz; 12 channels • 5.745 to 5.825 GHz; 5 channels **Z (Z 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

Note: 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 https://www.cisco.com/go/aironet/compliance.

Item	Specification	
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: 26 FCC, 16 EU • 802.11n: ◦ 20 MHz: 26 FCC, 16 EU ◦ 40 MHz: 12 FCC, 7 EU • 802.11ac: ◦ 20 MHz: 26 FCC, 16 EU ◦ 40 MHz: 12 FCC, 7 EU ◦ 80 MHz: 5 FCC, 3 EU

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

Item	Specification
Compliance standards	• **Safety:** ◦ IEC 60950-1 ◦ EN 60950-1 ◦ AS/NZS 60950.1 ◦ UL 60950-1 ◦ CAN/CSA-C22.2 No. 60950-1 ◦ UL 2043 ◦ Class III Equipment • **EMC/EMI:** **Emissions:** ◦ CISPR 32 (rev. 2015) ◦ EN 55032 (rev. 2012/AC:2013) ◦ EN 55032 (rev. 2015) ◦ EN61000-3-2 (rev. 2014) ◦ EN61000-3-3 (rev. 2013) ◦ KN61000-3-2 ◦ KN61000-3-3 ◦ AS/NZS CISPR 32 Class B (rev. 2015)

Item	Specification
	◦ 47 CFR FCC Part 15B
	◦ ICES-003 (rev. 2016 Issue 6, Class B)
	◦ VCCI (V3)
	◦ CNS (rev. 13438)
	◦ KN-32
	◦ TCVN 7189 (rev. 2009)
	Immunity:
	◦ CISPR 24 (rev. 2010)
	◦ EN 55024 / EN 55035 (rev. 2010)
	Emissions and Immunity:
	◦ EN 301 489-1 (v2.1.1 2017-02)
	◦ EN 301 489-17 (v3.1.1 2017-02)
	◦ QCVN (18:2014)
	◦ KN 489-1
	◦ KN 489-17
	◦ EN 60601 (1-1:2015)
	● **Radio:**
	◦ EN 300 328 (v2.1.1)
	◦ EN 301 893 (v2.1.1)
	◦ AS/NZS 4268 (rev. 2017)
	◦ 47 CFR FCC Part 15C, 15.247, 15.407
	◦ RSP-100
	◦ RSS-GEN
	◦ RSS-247
	◦ China regulations: State Radio Regulation of China (SRRC)
	◦ LP0002 (rev 2018.1.10)
	◦ Japan Std. 33a, Std. 66, and Std. 71
	● **RF Safety:**
	◦ EN 50385 (rev. Aug 2002)
	◦ Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)
	◦ AS/NZS 2772 (rev. 2016)
	◦ EN 62209-1 (rev. 2016)
	◦ EN 62209-2 (rev. 2010)
	◦ 47 CFR Part 1.1310 and 2.1091
	◦ RSS-102
	● **IEEE standards:**
	◦ IEEE 802.3
	◦ IEEE 802.3ab
	◦ IEEE 802.3af/at
	◦ IEEE 802.11 a/b/g/n/ac
	◦ IEEE 802.11h, 802.11d
	● **Energy efficiency:**
	◦ Reg. 278/2009 EuP Lot 7, Tier 1 4/27/2010, Tier 2 4/27/2010 Level V
	◦ Reg. 1275/2008 EuP Lot 6, Tier 1 1/7/2010, Tier 2 4/27/2013. Applies to EMC Class B products
	◦ EISA 2007, Level V

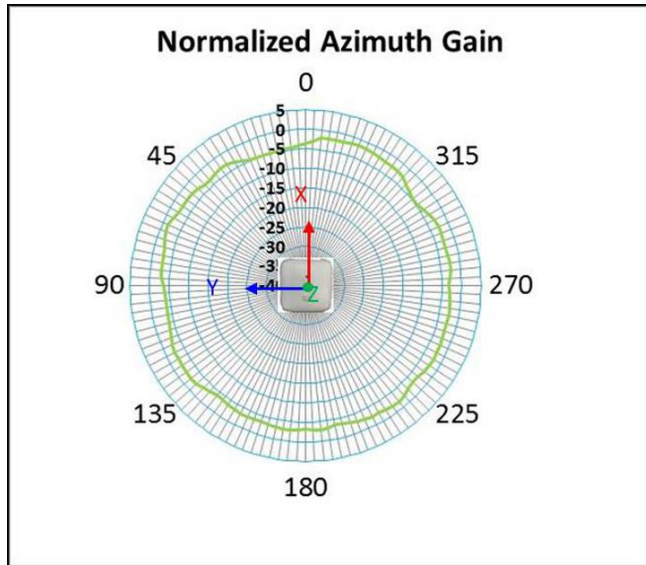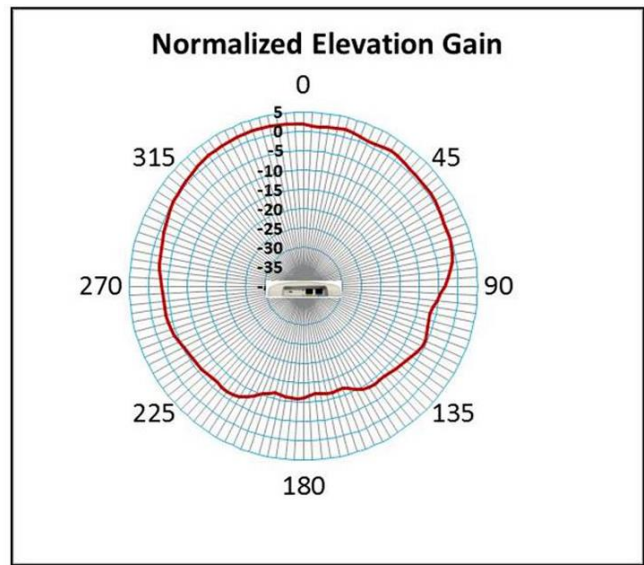| Item	Specification
	◦ NRCan Level V ◦ AS/NZS 4665.2, MEPS Level V ◦ China Energy Conservation Program (CECP) Level V • **Security:** ◦ 802.11i, Wi-Fi Protected Access 2 (WPA2), WAP3 (future), WPA ◦ 802.1X ◦ Advanced Encryption Standards (AES) • **Extensible Authentication Protocol (EAP) types:** ◦ EAP-Transport Layer Security (TLS) ◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) ◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2 ◦ EAP-Flexible Authentication via Secure Tunneling (EAP-FAST) ◦ PEAP v1 or EAP-Generic Token Card (GTC) ◦ EAP-Subscriber Identity Module (SIM)
Data rates supported	802.11b: 1, 2, 5.5, and 11 Mbps
	802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
	802.11n data rates on 2.4 GHz and 5GHz: 6.5 to 600Mbps (only 20 MHz and MCS 0 to MCS 15)
	802.11ac data rates (5 GHz): 6.5 to 1733Mbps (MCS0-MCS9)

2.4 GHz Azimuth

2.4 GHz Elevation

Figure 1.
Antenna patterns for Cisco Business 240AC Access

Ordering information

Table 3 provides ordering information for the Cisco Business 240AC Access
Point.

Table 3.   Ordering information

Part Number	Description and Country Availability
CBW240AC-x	CBW240AC 802.11ac 4x4 Wave 2 Access Point Ceiling Mount
3-CBW240AC-x	CBW240AC 802.11ac 4x4 Wave 2 Access Point Ceiling Mount – 3 Pack
5-CBW240AC-x	CBW240AC 802.11ac 4x4 Wave 2 Access Point Ceiling Mount – 5 Pack
Note: Customers are responsible for verifying approval for use in their individual countries. To verify approval that corresponds to a particular country or the regulatory domain used in a specific country, visit https://www.cisco.com/go/compliance. Regulatory domain approval occurs in phases. As they are approved, the part numbers will be available on the Cisco wholesale List (WPL). Regulatory domains: (x = regulatory domain).	

Cisco limited lifetime warranty for Cisco small business products

This Cisco Small 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.

Cisco Small Business Support Service

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

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

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	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Capital

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