Data Sheet

AP305C/CX Access Point

Advanced Radio Technology

- 5 GHz 2x2:2
- 2.4 GHz 2x2:2

Radio Modes - SSR

- 5 GHz/2.4 GHz - Fixed
- 5 GHz/5 GHz - Dual 5 GHz

Universal Hardware Platform

- On-Premises: WiNG OS (Distributed), ExtremeCloud™ IQ Controller (Centralized)
- Cloud: ExtremeCloud™ IQ

High Density Environments

- Delivers exceptional end-user experience even in dense user environments

WPA3 Support

- Includes the latest WPA3 Wi-Fi security standard delivering robust protections for users and IoT devices

Fully Functional over 802.3af Cellular

Coexistence Filter (CCF)

- Minimizes the impact of interference from cellular networks

Smart Management

- ExtremeCloud™ IQ for powerful, simple, and secure public or private cloud management
- ExtremeCloud™ IQ Controller or VX/NX controllers ideal for on-premises requirements
- Optional ExtremeCloud™ IQ visibility supported via on-premises controller



Wi-Fi 6 (802.11ax) Indoor Access Point with Support for Multiple Extreme Operating Systems

In today's world, as businesses make capital investments in their technology infrastructure, they must have a keen eye on how those investments can improve operational efficiency and reduce cost. With Extreme's Universal infrastructure, customers can take advantage of hardware agility and reduce the total cost of their network by adopting platforms that allow them to run multiple Extreme operating systems. This multi-persona capability provides increased product flexibility and reduced hardware obsolescence.

The AP 305C/CX is part of Extreme's Universal Wi-Fi platform and provides users the choice of Wi-Fi management (ExtremeCloud™ IQ or WiNG Operating System). Customers have the flexibility to select the OS at start-up or at a later stage and the AP will assume the features/capabilities of the selected OS.

The AP305C/CX are indoor enterprise APs based on a new system-on-a-chip (SoC) with two built-in dual-band radios providing the best value with Wi-Fi 6 high efficiency. You have your choice of models with either integrated or external antennas. Advanced radio technology delivers 802.11ax 2x2:2 data rates up to 2.4 Gbps concurrently on both the 2.4 GHz and 5 GHz radios. These 2x2:2 APs continue the Extreme tradition of software-selectable radios (SSRs) capable of dual 5 GHz connectivity for indoor and industrial environments. This enterprise-grade access point is ideal for budget-conscious enterprises who do not want to sacrifice performance.

The AP305C/CX comes in an aesthetic design and can fit in the palm of your hand. These eco-friendly APs are partially made from recycled materials and include an integrated light sensor and power meter to help reduce power consumption*. The mount enables quick installation and a unique way to hide the Ethernet cables for an aesthetically pleasing installation.

*Future software release

Security

The AP305C/CX delivers the highest level of security services, beginning with support for the latest Wi-Fi Alliance WPA3 security certifications. Additionally, the AP305C/CX supports a stateful L2-L7 DPI firewall for context-based access security, Private Pre-Shared Key (PPSK) and much more.

Wi-Fi 6 Technology

Prior generations of 802.11n, 802.11ac wave 1 and 2, can be considered generational improvements with an emphasis on faster speed. 802.11ax technology instead enhances Wi-Fi efficiency as well as speed, taking Wi-Fi networks to an entirely new level. To learn more about 802.11ax, go to: 802.11ax Frequently Asked Questions | Extreme Networks

Universal Hardware

The AP305C/CX as a universal hardware platform comes with a dual-persona capability allowing user choice of the Wi-Fi operating system (OS). Either ExtremeCloud IQ or the WiNG Operating System persona can be enabled as required. The desired persona can be selected at start-up or changed at a later stage. Once selected, the AP305C/CX assumes the features/capabilities of the selected OS. When first booted, the AP305C/CX automatically connects to ExtremeCloud IQ to find its persona. The pre-provisioned OS persona is then remotely enabled on the AP305C/CX system, eliminating the need for manual selection.

Management Analytics

In conjunction with Extreme Management system, cloud or on-premises, the AP305C/CX provides a very rich set of data displayed via context-driven widgets, representing historical data or a combination of historical and current data. This provides context-specific granularity with perspective views for locations, network, APs, individual client devices, as well as policy roles. In each context, administrators can adjust dashboards and make a widget library.

Programmable Radios

Extreme launched the industry's first software-defined 802.11ax access point supporting not only a dual 5 GHz capability, but also two software programmable modes to optimally manage radios to provide the highest level of client performance. The AP305C/CX's intelligent monitoring of the software-configurable radios enables network managers to configure network RF technology based on user environment and configure the access points in different modes as required.

Integrated BLE and USB Port

To support both IoT and Guest Engagement services, the AP305C/CX integrates Bluetooth to connect with IoT devices to engage loyalty customers with Apple iBeacon.* Enterprises can use API driven applications to send advertisements directly to shoppers, guests, and conference attendees. This makes it ideal for businesses to advertise their app download pages, captive portals, or site-specific information.

*IoT Radio included for certain AP305C model part numbers

Product Specifications

Radio Specifications

Max Users

- SSID per Radio/Total: 8/16
- Users per Radio/total: 512/1024

802.11a

- 5.150–5.850 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/auto fallback

802.11b

- 2.4–2.5 GHz Operating Frequency
- Direct-Sequence Spread-Spectrum (DSSS) Modulation
- Rates (Mbps): 11, 5.5, 2, 1 w/auto fallback

802.11g

- 2.4–2.5 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/auto fallback

802.11n

- 2.4–2.5 GHz and 5.150–5.850 GHz Operating Frequency
- 802.11n Modulation
- Rates (Mbps): MCS0 - MCS15 (6.5 Mbps – 300 Mbps)
- 2x2 Multiple-In, Multiple-Out (MIMO) Radio
- HT20 High-Throughput (HT) Support (for both 2.4 GHz and 5 GHz)
- HT40 High-Throughput (HT) Support for 5 GHz
- A-MPDU and A-MSDU Frame Aggregation

802.11ac

- 5.150–5.850 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates (Mbps): MCS0–MCS9 (6.5Mbps – 867Mbps), NSS = 1-2.
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80 support
- TxBF (Transmit Beamforming)

802.11ax

- 2.4–2.5 GHz and 5.150–5.850 GHz Operating Frequency
- 802.11ax Modulation (1024-QAM)
- Dual-band OFDMA
- Rates (Mbps):
  - 5G: HE0-HE11 (8 Mbps – 1200 Mbps).
  - 2.4G: HE0-HE11 (8 Mbps – 574 Mbps).
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- HE20/HE40/HE80 support for 5 GHz
- HE20 support for 2.4 GHz
- DL SU-MIMO and MU-MIMO
- TxBF (Transmit Beamforming)

BLE 5 Radio Bluetooth® Low Energy (BLE)*

*IoT Radio included for certain AP305C/CX model part numbers

Trusted Platform Module (TPM)

Interfaces

- (1) Autosensing 10/100/1000 BASE-T Ethernet PoE (Power over Ethernet 802.3af) Port
- USB2.0, Type A 5V, 0.9A
  - USB power <= 500 mA - 802.3af USB power > 500 mA – 802.3at
- 802.3az Energy-Efficient Ethernet (EEE)

Power Options

- Power Draw: Typical: 9.98 W; Max: 11.28 W (w/o USB)
- Typical: 14.98 W; Max: 16.28 W (w/USB)
- 802.3af Power over Ethernet (PoE) capable Gigabit Ethernet port (RJ-45 power input pins: Wires 4,5,7,8 or 1,2,3,6)
- Support 802.3af/802.3at Power over Ethernet injector

Power Specifications

- IEEE 802.3af PoE Power

Physical Specifications

Model	Dimensions	Weight
AP305C	133 mm x 133 mm x 37 mm (5.2 in. x 5.2 in. x 1.5 in.)	0.4 kg (0.9 lb)
AP305CX	147 mm x 147 mm x 39 mm (5.8 in. x 5.8 in. x 1.5 in.)	0.4 kg (0.9 lb)

Antennas

- AP305C - Internal Antennas
  - (3) Integrated dual band 2.4/5 GHz omnidirectional antennas
  - (1) Integrated single band 5 GHz omnidirectional antenna AP305CX
- External Antennas
  - (4) external omnidirectional 2.4/5 GHz dual band antennas (RP SMA connectors)

Mounting

- AP support 15/16 flush ceiling tile and is integrated into the AP
- Wall Mount sold as an accessory
- Ceiling Tile Recessed 15/16" sold as an accessory
- Built-in slot for Kensington type locks

Environmental

- Operating: 0°C to 40°C
- Storage: -40°C to 70°C
- Humidity: 10% to 95% (non-condensing)

Environmental Discharge

- +/-8 kV (contact discharge)/+/-15 kV (Air Discharge)

Environmental Compliance

- UL2043 - Plenum Rated

Regulatory Compliance

Product Safety Certifications

- IEC 62368/60950-1, EN 62368/60950-1, USA 62368/60950-1, AS/NZS 62368/60950.1
- RoHS Directive 2011/65/EU

Radio Approvals

- FCC CFR 47 Part 15, Class B
- ICES-003, Class B
- FCC Subpart C 15.247
- FCC Subpart E 15.407
- RSS247
- AS/NZS4268 + CISPR32
- EN 55011, (Group 1, Class B)
- EN 55024
- EN 60601-1-2
- EN 61000-3-2
- EN 61000-3-3
- IEC/EN 60601-1-2, EN 62311, EN 50385, EN 301 489-1, EN 301 489-17, EN 55032, (Class B), EN 300 328, EN 301 893, EN 300 440, EN 50581

Wi-Fi Alliance Certifications

Connectivity	Wi-Fi CERTIFIED 6™ Wi-Fi CERTIFIED™ a, b, g, n, ac
Access	Passpoint®
Optimization	WMM™ WMM™ – Power Save Wi-Fi Agile Multiband
Security	Protected Management Frames WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal WPA3™ – Enterprise, Personal



Antenna Gain Matrix

Operational Mode	Radio 0	Radio 1	IoT
Dual Band	2.4 GHz, 2.67 dBi	5 GHz, 3.75 dBi	2.7 dBi
Dual 5 GHz	5 GHz, 3.97 dBi	5 GHz, 3.75 dBi	2.7 dBi

Power and Sensitivity Tables

2.4 GHz Radio

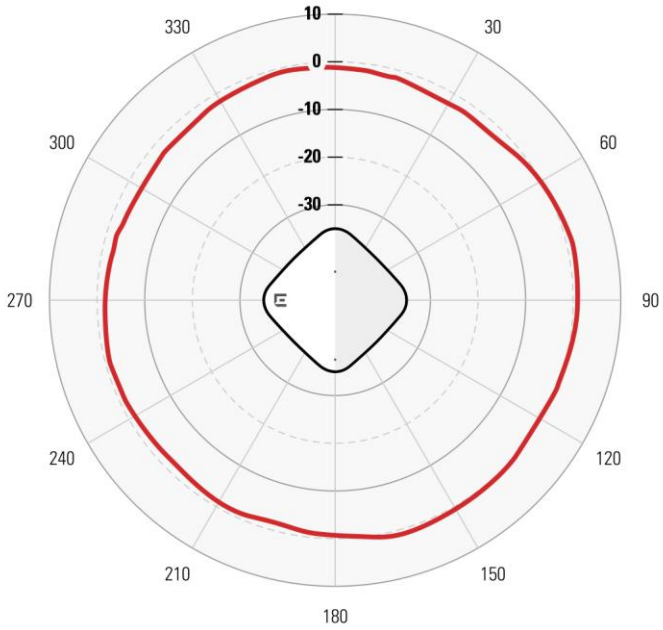
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11b	1 - 11 Mbps	18	-95, -88
11g	6 Mbps	18	-91
	54 Mbps	17	-74
11n HT20	MCS0, 7	18, 14	-91, -71
11n HT40	MCS0, 7	18, 14	-88, -69
11ac HT20	MCS0, 8	18, 13	-90, -61
11ac HT40	MCS0, 9	18, 12	-88, -58
11ax HE20	HE0, 11	18, 11	-90, -61
11ax HE40	HE0, 11	18, 11	-88, -58

5 GHz Radio

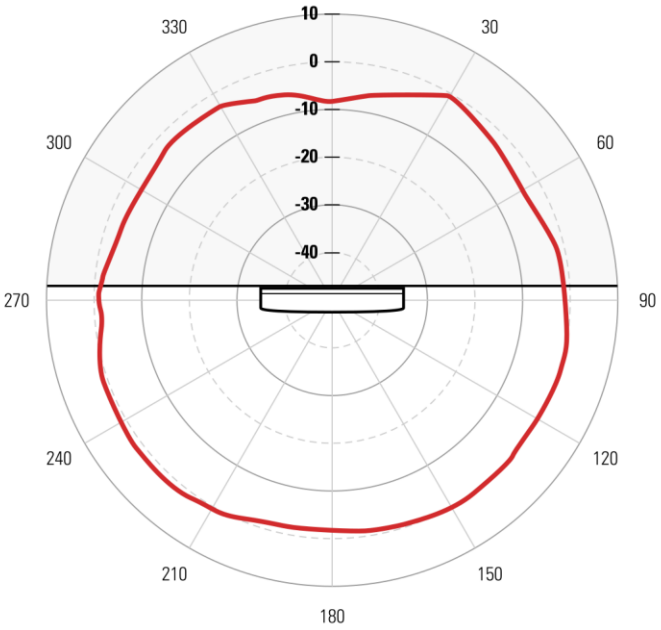
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-92
	54 Mbps	16	-74
11n HT20	MCS0, 7	18, 15	-90, -72
11n HT40	MCS0, 7	18, 15	-88, -69
11ac VHT20	MCS0, 8	18, 14	-90, -68
11ac VHT40	MCS0, 9	18, 13	-88, -63
11ac VHT80	MCS0, 9	18, 13	-85, -58
11ax HE20	HE0, 11	18, 13	-88, -59
11ax HE40	HE0, 11	18, 13	-87, -57
11ax HE80	HE0, 11	18, 13	-85, -54

Radiation Patterns – Azimuth and Elevation

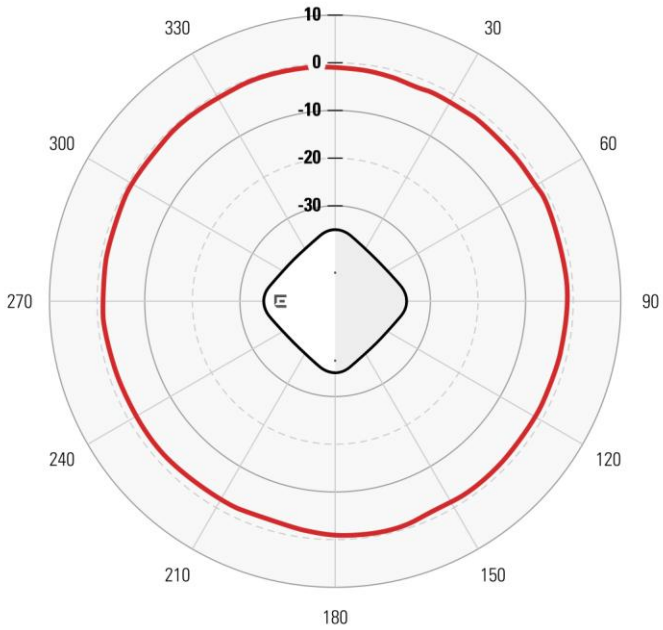
Azimuth – 2.4 GHz



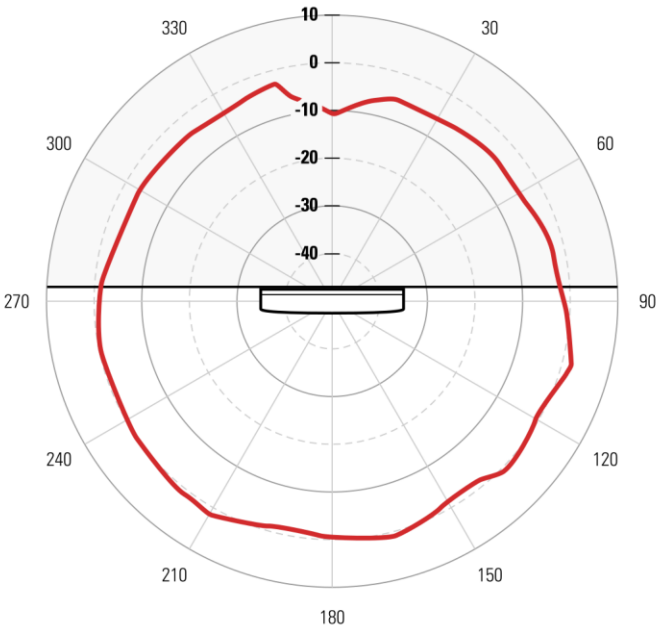
Elevation – 2.4 GHz



Azimuth – 5 GHz



Elevation – 5 GHz



Ordering Information

AP305C and AP305CX

Part Number	Description
AP 305C-FCC	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. Internal antennas. Built-in ceiling mounts. Includes Connect. Domain: US
AP 305C-CAN	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. Internal antennas. Built-in ceiling mounts. Includes Connect. Domain: Canada
AP 305C-WR	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. Internal antennas. Built-in ceiling mounts. Includes Connect. Domain: EMEA, Rest of World
AP 305CX-FCC	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. External antennas. Built-in ceiling mounts. Includes Connect. Domain: US
AP 305CX-CAN	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. External antennas. Built-in ceiling mounts. Includes Connect. Domain: Canada
AP 305CX-WR	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. External antennas. Built-in ceiling mounts. Includes Connect. Domain: EMEA, Rest of World
AP305C-IL	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE/Zigbee. AI/ML green mode. Internal antennas. Includes Connect. Domain: Israel
AP305C-EG	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors and BLE. AI/ML green mode. Internal antennas. Includes Connect. Domain: Egypt
AP305CX-IL	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GE port. Integrated light/power sensors and BLE. AI/ML green mode. External antenna support. Antennas sold separately. Includes Connect. Domain: Israel
AP305C-1-FCC*	ExtremeCloud IQ Indoor Wi-Fi 6 AP 2x2 radios with Dual 5GHz and 1x1 GbE port. Integrated light/power sensors. AI/ML green mode. Internal antennas. Includes Connect. Domain: US
AP305C-1-WR*	ExtremeCloud IQ Indoor Wi-Fi 6 AP 2x2 radios with Dual 5GHz and 1x1 GbE port. Integrated light/power sensors. AI/ML green mode. Internal antennas. Includes Connect. Domain: Rest of World
AP305C-1-CAN*	ExtremeCloud IQ Indoor Wi-Fi 6 AP 2x2 radios with Dual 5GHz and 1x1 GbE port. Integrated light/power sensors. AI/ML green mode. Internal antennas. Includes Connect. Domain: Canada
AP305C-1-IL*	ExtremeCloud IQ Indoor Wi-Fi 6 AP 2x2 radios with Dual 5GHz and 1x1 GbE port. Integrated light/power sensors. AI/ML green mode. Internal antennas. Includes Connect. Domain: Israel
AP305C-1-EG*	ExtremeCloud IQ Indoor Wi-Fi 6 AP 2x2 radios with Dual 5GHz and 1x1 GbE port. Integrated light/power sensors. AI/ML green mode. Internal antennas. Includes Connect. Domain: Egypt
AP305C-WR-HTL	ExtremeCloud IQ: Indoor Wi-Fi 6 AP, 2x2 radios with Dual 5GHz and 1x1GbE port. Integrated light/power sensors & BLE/Zigbee. AI/ML green mode. Internal antennas. Includes Connect. Domain: Rest of World

* Non-BLE SKU. Identical functionality to corresponding regional AP305C SKU, with the exception of IoT radio and Bluetooth functionality.

Antennas

Part Number	Description
AH-ACC-ANT-AX-KT (x8 per pack)	Articulated indoor antenna kit (8 x Dual Band 5 dBi antennas)
ML-2452-APA2-02	Dipole Omni, 3.2/4.9 dBi, White (need 4 for AP305CX)

Accessories

Part Number	Indoor AP Mounting	Notes
AH-ACC-BKT-AX-IL	Mounting bracket for interlude ceilings	
AH-ACC-BKT-AX-SL	Mounting bracket for Armstrong 1/8" and 1/4" main beam silhouette reveal ceiling grids	
AH-ACC-BKT-AX-TB	Mounting bracket for prelude 15/16" and suprafine 9/16" ceilings and walls	Can be used for flush wall mounting
AH-ACC-BKT-AX-WL	Mounting bracket for direct-to-wall installations	Not flush to wall
ACC-BKT-AX-JB	Junction box or wall mounting for indoor access points	
ACC-BKT-AX-BEAM	Beam mounting for indoor access points	

Note: Two clips designed into the underside of the AP unit that will accommodate a 15/16 type ceiling tile rail system. Other mounting accessories are listed below: For more detail on these accessories see: WiFi 6 (802.11ax) Access Point Accessories Guide
For additional information on antennas see: Wi-Fi 6 (802.11ax) Antennas Specifications Guide

Power Accessories

Part Number	Description
PD-3501G-ENT	Single port 802.3af compliant midspan
AH-ACC-PW-CBL-US	6ft 18 AWG universal power cord with US plug
AH-ACC-PW-CBL-UK	6ft universal power cord with UK plug
AH-ACC-PW-CBL-EU	6ft universal power cord with EU plug
AH-ACC-PW-CBL-AU	6ft universal power cord with AU plug
AH-ACC-PW-CBL-JP	6ft universal power cord with Japan plug
AH-ACC-PW-CBL-KR	6ft universal power cord with Korea plug

Other Accessories

Part Number	Description
ACC-WIFI-MICRO-USB	Micro-USB to USB Console Adapter Cable for Extreme Wireless Access Points

Warranty

The AP305C and AP305CX wireless access points are covered under Extreme's Warranty policy. For warranty details, visit: http://www.extremenetworks.com/support/policies

Support Services

Extreme offers a portfolio of services that adapts to your unique environment and technical support needs. Globally available technical support and professional services from our in-house team of experts provide the resiliency and optimization that accelerate your business and innovation.

Combined with Extreme Platform ONE agentic support tools and workflows, Extreme Services helps you to anticipate issues and identify risks before they impact your business. For more information, visit our Services page.

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