

## Highlights

### Advanced Radio Technology

#### Tri-Radio Design

- 5 GHz 4x4:4
- 2.4 GHz 2x2:2
- 2.4 GHz / 5 GHz / Sensor

### Radio Modes - SSR

- 2.4 GHz / 5 GHz / Sensor (2.4 GHz/5GHz)
- 5 GHz / 5 GHz - Dual 5 GHz

### High Density Environments

- Delivers exceptional end-user experience even in the densest user environments

### WPA3 Support

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

### Fully Functional over 802.3at

### Smart Management Choices

- ExtremeCloud IQ delivers powerful, simple and secure public or private cloud management capabilities



## ExtremeWireless™ AP410C

### Wi-Fi 6 (802.11ax) Tri-Radio Access

The AP410C provides high-efficiency, high-performance 802.11ax aggregate data rates up to 4.8 Gbps in the 5 GHz band and concurrent 2.4 Gbps in the 2.4 GHz band. Designed for high density environments, AP410C is powerful enough and smart enough to provide the highest level of client services without compromising security monitoring. Unlike other access points that scan only part time, the dedicated, dual-band sensor scans for rogue devices full time, eliminating the risk of vulnerability or attacks. Tri-Radio APs continues the Extreme tradition of software-selectable radios (SSRs) capable of dual 5 GHz connectivity.

With more users, more devices, more things, more applications and more threats straining the infrastructure, the AP410C was engineered to meet those challenges. The AP410C combines powerful 802.11ax Wi-Fi 6 technology, advanced security and ML/AI management capabilities together into an enterprise class solution that allows you to deploy high speed, highly secure Wi-Fi into the toughest environments.



### Built to Suit Your Business Needs

**Extreme Elements** are the building blocks that allow you to tailor your network to your specific business environment, goals, and objectives. They enable the creation of an Autonomous Network that delivers the positive experiences and business outcomes most important to your organization.

Combining architecture, automation, and artificial intelligence, Extreme Elements enable you to ensure that your users get what they need — when and where they need it. Providing these superior user experiences is as simple as mixing and matching the right elements.

Learn more at [www.extremenetworks.com/extreme-elements/](http://www.extremenetworks.com/extreme-elements/).





## Security

The AP410C delivers the highest level of security services, beginning with support for the latest Wi-Fi Alliance WPA3 security certifications. Additionally, supporting a stateful L2-L7 DPI firewall for context-based access security.

---



## Wi-Fi 6 (802.11ax) 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: <https://www.extremenetworks.com/are-you-ready-for-802-11ax/>

---



## 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 AP410C 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 was required.



## Management Analytics

In conjunction with management system, cloud or On-premises the AP410C 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 from widget library.

---



## RF Monitoring

Network managers will appreciate a powerful choice of RF management for their Wi-Fi networks, with Adaptive RF management with AI/ML-like functionality. Adaptive RF algorithms provide intelligent selection of the best channels and transmit power for unpaired dual 5 GHz operation. Load balancing, band steering and many other attributes of the RF can all be automated.

---



## Integrated BLE and Zigbee

To support both IoT and Guest Engagement services the AP410C integrates Bluetooth to connect with IoT devices with Thread wireless 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.

# Product Specifications

## Radio Specifications

### 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 & 5.150–5.850 GHz Operating Frequency
- 802.11n Modulation
- 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 – MCS31 (6.5Mbps - 600Mbps)
- 5G: 4x4 Multiple-In, Multiple-Out (MIMO) Radio
- 2.4G: 2x2 Multiple-In, Multiple-Out (MIMO) Radio
- Rates (Mbps): MCS0–MCS9 (6.5Mbps – 3467Mbps), NSS = 1-4.
- 4x4:4 Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80/VHT160 support
- TxBF (Transmit Beamforming)

### 802.11ax

- 2.4–2.5 GHz & 5.150–5.850 GHz Operating Frequency
- 802.11ax Modulation (1024-QAM)
- Dual-band OFDMA
- Rates (Mbps):
  - 5G: HE0-HE11 (8 Mbps – 4800 Mbps).
  - 2.4G: HE0-HE11 (8Mbps – 574 Mbps).
- 4x4:4 Stream Multiple-In, Multiple-Out (MIMO) Radio @ 5GHz
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio @2.4GHz
- HE20/HE40/HE80/HE160 support for 5 GHz
- HE20/HE40 support for 2.4 GHz
- DL SU-MIMO and MU-MIMO
- TxBF (Transmit Beamforming)

## IOT Radio

- BLE 5 Radio Bluetooth® Low Energy (BLE) and IEEE® 802.15.4 compliant

## Interfaces

- (1) 100/1000/2500 Mbps auto-negotiation Ethernet port, RJ45 PoE (Power over Ethernet 802.3at) Port
- (1) 10/100/1000 Mbps auto-negotiation Ethernet port, RJ45
- USB 2.0, Type A , 5V, 0.9A

## Power Specifications

- IEEE 802.3at PoE Power

## Power Options

- Power Draw: Typical: 17.69; Max: 18.74 (w/o USB)  
Typical: 22.69; Max: 23.74 (w USB)
- 802.3at Power over Ethernet (PoE) capable
- Gigabit Ethernet port (RJ-45 power input pins):
- Wires 4,5,7,8 or 1,2,3,6)
- 802.3af Power over Ethernet injector

## Physical

- 8" x 8" x 1.8" (205mm x 205mm x 37mm)
- AP410C: 2 lbs (.9 kg)
- TPM chip for added security

## Internal Antennas

- (2) Integrated single band, 5.1-5.8 GHz omnidirectional antennas
- (2) Integrated dual band, 2.4-2.5 GHz and 5.1-5.8 GHz omnidirectional
- (4) Integrated single band, 2.4-2.5 GHz omnidirectional antennas for BLE

## Mounting

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

## Environmental

- Operating: AP410C: 0 to 40°C
- Storage: -40 to 70°C
- Humidity: 0% to 95% (non-condensing)

## Environmental Compliance

- UL2043 - Plenum Rated

## Regulatory Compliance

### Product Safety Certifications

- IEC 60950-1, EN 60950-1, UL 60950-1, CSA 22.2 No.60950-1-03 AS/NZS 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
- IEC/EN 60601-1-2,
- EN 62479
- EN 62311
- EN 50385
- EN 301 489-1
- EN 301 489-3
- EN 301 489-17
- EN 55032, (Class B)
- EN 55011, (Group 1, Class B)
- EN 55024
- EN 60601-1-2
- EN 61000-3-2
- EN 61000-3-3
- EN 300 328
- EN 301 893
- EN 300 440
- EN 50581

## Support

- Limited Lifetime Warranty

# Ordering Information

## AP410C - SKUs

Part Number	Description
AP410C-FCC	ExtremeCloud IQ: Indoor Tri Radio WiFi6 AP, 2.4 GHz, 5GHz, & Sensor w/ Dual 5GHz & Multirate Port. Environmentally friendly, Light, power sensors, BLE/Zigbee. AI/ML green mode. INT antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). NA
AP410C-CAN	ExtremeCloud IQ: Indoor Tri Radio WiFi6 AP, 2.4 GHz, 5GHz, & Sensor w/ Dual 5GHz & Multirate Port. Environmentally friendly, Light, power sensors, BLE/Zigbee. AI/ML green mode. INT antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Canada
AP410C-WR	ExtremeCloud IQ: Indoor Tri Radio WiFi6 AP, 2.4 GHz, 5GHz, & Sensor w/ Dual 5GHz & Multirate Port. Environmentally friendly, Light, power sensors, BLE/Zigbee. AI/ML green mode. INT antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Rest of World
<b>Power Accessories</b>	
PD-9001GR-ENT	Single port 802.3at 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
<b>Mounting Accessories</b>	
AH-ACC-BKT-AX-IL (x1 per)	Mounting bracket for Interlude ceilings
AH-ACC-BKT-AX-SL (x1 per)	Mounting bracket for Silhouette 1/8" and Silhouette 1/4" ceilings
AH-ACC-BKT-AX-TB (x1 per)	Mounting bracket for Prelude 15/16" and Suprafine 9/16" ceilings
AH-ACC-BKT-AX-WL (x1 per)	Mounting bracket for direct-to-wall installations



<http://www.extremenetworks.com/contact>

©2020 Extreme Networks, Inc. All rights reserved. Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names are the property of their respective owners. For additional information on Extreme Networks Trademarks please see <http://www.extremenetworks.com/company/legal/trademarks>. Specifications and product availability are subject to change without notice. 26701-0120-28