

## Extreme Wireless 802.11be Wi-Fi 7 Indoor AP4020FX Solution

### Overview of AP4020FX

The AP4020FX is an ExtremeCloud IQ managed, Wi-Fi 7 (802.11be) universal indoor access point (AP). It has a quad-radio design with three 2x2:2 radios for use across the 6 GHz, 5 GHz, and 2.4 GHz bands. It also features a dedicated sensor and dual IoT radios.

### Technical Specifications



The AP4020FX has the following features and specifications. For more information, see the [Data Sheet](#).

#### Radios

The AP4020FX has a quad-radio design with three 2x2:2 radios (6 GHz, 5 GHz, and 2.4 GHz bands), a dedicated sensor and dual IoT radios. Operational Modes:

- **Mode 1:** 2.4 GHz / 5 GHz / 6 GHz data radios and sensor.
- **Mode 2:** 2.4 GHz, and dual 5 GHz, and sensor.

#### Ports

- ETH0, ETH1: (2) wired Ethernet ports (RJ45).
- ETH0: 100/1000/2500/5000Mbps autosensing link speed Ethernet port, PoE PD.
- ETH1: 100/1000/2500Mbps autosensing link speed Ethernet port, PoE PD.
- 802.3az Energy-Efficient Ethernet (EEE)
- USB 2.0: Type A, 5V/500mA with PoE 802.3at. 802.3bt PoE is typically used with the 5W USB.

#### Security

- One Kensington security slot
- Trusted Platform Module (TPM)

#### Power Options

The following power options are supported:

- Power Draw: 802.3at PoE - Typical 21W with

- USB 2.5W; Max: 25.5W with USB 2.5W
- Power Draw: 802.3bt - Max: 28W with USB 5W
- 12VDC/3A. DC power has priority when both DC and PoE power sources are available
- PoE Failover

#### Physical Dimensions

- Dimensions: 245 mm x 245 mm x 43 mm (9.65 in. x 9.65 in. x 1.69 in.)
- Weight: 1.4 kg (3.1 lbs)

#### Antennas

The AP4020FX supports the following antennas.

External:

- Two (2) single band 6 GHz
- Two (2) dual band 2.4 GHz and 5 GHz
- One (1) dual band 2.4 GHz IoT and 5 GHz
- One (1) single band 5 GHz

Internal:

- IoT Radio 1: Selectable between internal and external
- IoT Radio 2: Two (2) selectable internal antennas (for channel sounding)
- One (1) 2.4 GHz / 5 GHz / 6 GHz sensor

#### Temperature

- Operating: -20°C to 55°C (-4°F to 131°F)
- Storage/Transportation: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)

#### Enclosure

- Plastic Top, Aluminum Bottom

### Regulatory and Compliance Information Safety Guidelines

This section contains notices that are intended to protect your personal safety and prevent damage to the equipment.

**Electrical Hazard:** Only qualified personnel should perform installation procedures. Within the context of the safety notes in this documentation, qualified persons are defined as persons who are authorized to commission, ground and label devices, systems, and circuits in accordance with established safety practices and standards. A qualified person understands the requirements and risks involved with installing electrical equipment in accordance with national codes.

### Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

For 5925-6425 MHz and 6525-6875 MHz transmitter operation in Standard power access point mode:

1. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft.
2. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

**Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Warning: FCC Radiation Exposure Statement:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 58 cm between the radiator and your body.

## Industry Canada Notice

**Warning:** The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

**Avertissement:** les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

This device complies with ICSED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

L'appareil ne doit pas produire de brouillage;

L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 31cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 31cm de distance entre la source de rayonnement et votre corps.

- Devices shall not be used for control of or communications with unmanned aircraft systems.
  - Devices shall not be used on oil platforms.
  - Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).
  - Devices shall not be used on automobiles.
  - Devices shall not be used on trains.
  - Devices shall not be used on maritime vessels
  - Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.
  - Les dispositifs ne doivent pas être utilisés sur les plateformes de forage pétrolier
  - Les dispositifs ne doivent pas être utilisés dans les aéronefs, à l'exception des points d'accès intérieurs de faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande de 5 925 à 6 425 MHz, qui peuvent être utilisés dans les gros aéronefs tel qu'il est défini dans le Règlement de l'aviation canadien, et ce, lorsqu'ils volent à une altitude supérieure à 3 048 mètres (10 000 pieds).
  - Les dispositifs ne doivent pas être utilisés dans les automobiles.
  - Les dispositifs ne doivent pas être utilisés dans les trains.
  - Les dispositifs ne doivent pas être utilisés sur les navires maritimes.
- The antenna height shall be determined by the installer or operator of the standard-power access point or fixed client device, or by automatic means. This information shall be stored internally in the device. Provision of accurate device information is mandatory.
- La hauteur de l'antenne doit être déterminée par l'installateur ou l'opérateur du point d'accès de puissance normale ou du dispositif client fixe, ou par des dispositifs automatiques. Cette information doit être enregistrée dans le dispositif. La fourniture d'information précise sur le dispositif est obligatoire. Information for antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 4.5.4 (c) shall be clearly indicated.
- le ou les types d'antennes, le ou les modèles d'antennes et le ou les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la section 4.5.4 c. s'appliquant au masque de p.i.r.e. doivent être clairement indiqués.

## Legal

### Legal Notices

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# Extreme Wireless Access Point

AP4020FX  
REGULATORY AND COMPLIANCE

### Scan to Download the ExtremeCloud IQ Companion Mobile Application

Commission, monitor, and troubleshoot devices easily with **ExtremeCloud IQ** Companion Mobile Application (supported on iOS and Android).

Use your mobile device camera to scan the serial number, capture installation images, assign or change device location, and network policy. The **ExtremeCloud IQ** Companion Mobile Application enables you to access the device CLI for troubleshooting and view device and client status.



ExtremeCloud IQ  
Companion Android  
Mobile Application



ExtremeCloud IQ  
Companion iOS Mobile  
Application

### Scan for Product Support Details



ExtremeCloud IQ  
Companion Mobile  
Application Onboarding



Documentation



Product Videos