

# AP305C and AP305CX Hardware User Guide

Read about and view specifications and compliance information for the AP305C and AP305CX in this topic. Install the AP305C and AP305CX using this topic.

The AP305C and AP305CX are high-performance 802.11ax dual band access points.

Both are designed for indoor high-density environments that require HD video streaming and large file transfers. The AP305CX has external antennas (sold separately), and an extended temperature range for industrial environments. These devices support IEEE 802.11ax Orthogonal Frequency-Division Multiple Access (OFDMA) multi-user access.








For regulatory and compliance information, see "Regulatory Compliance Statements".








## Safety Guidelines

### Safety Guidelines

The safety information in this section applies to AP305C and AP305CX devices.

The following safety icons are used in these guidelines to identify the type of precaution:

	This icon indicates a general caution. Failure to comply with a caution notification can result in damage to equipment.
	This icon indicates an electrical caution. Failure to comply with an electrical notification can result in serious injury or death, and extensive damage to equipment.
	This icon indicates a laser caution. Failure to comply with a laser caution can result in serious injury.
The following table lists the safety precautions you should follow when installing your AP305C and AP305CX devices.	
	Extreme Networks devices must be installed by a professional installer who is certified to install these types of devices and to ensure that they are properly grounded and meet applicable local and national electrical codes.
	These devices are intended for indoor use only.
	Do not install the device in an environment where the operating ambient temperature might exceed the recommended ranges.
	<b>Warning:</b> This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

	For products available in the USA/Canada market, for the 2.4 GHz band, only channels 1-11 can be operated. Selection of other channels is not possible.
	Changes or modifications made to this device that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
	Use only attachments and accessories specified by Extreme Networks.
	These devices are not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or with lack of experience or knowledge unless they are given supervision or instruction concerning use of the devices by a person who is responsible for their safety. Children should be supervised to ensure that they do not play with the devices.
	Electrostatic discharge (ESD) can damage equipment and impair electrical circuitry. ESD damage occurs when electronic components are improperly handled and can result in complete or intermittent failures. Be sure to follow ESD-prevention procedures when handling electronic components and equipment.
	During operation, the surfaces of the AP305C and AP305CX can become hot. Use caution when handling.
	To meet federal radiation exposure requirements, these devices should be installed at a minimum distance of 8" (20 cm) from people or animals.

## Install the AP

You can mount the AP305C and AP305CX on a flat surface or wall, or on the rails of a standard dropped ceiling grid. There is also an accessory mounting bracket that allows you to install the device in Armstrong-style dropped ceilings (ordered separately).

The following sections describe how to install your AP305C and AP305CX devices and connect them to the network.

### Shipping Carton Contents

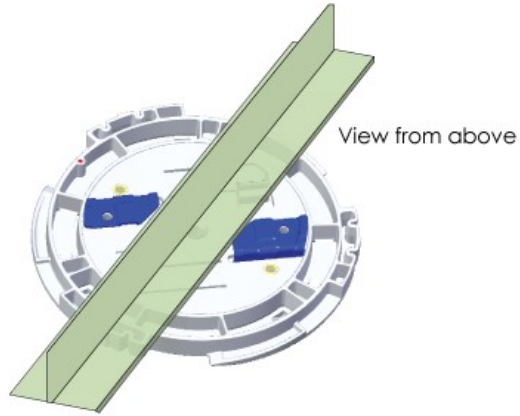
The AP305C and AP305CX shipping carton contains the following items:

- AP305C or AP305CX chassis
- Mounting bracket
- Read Me card

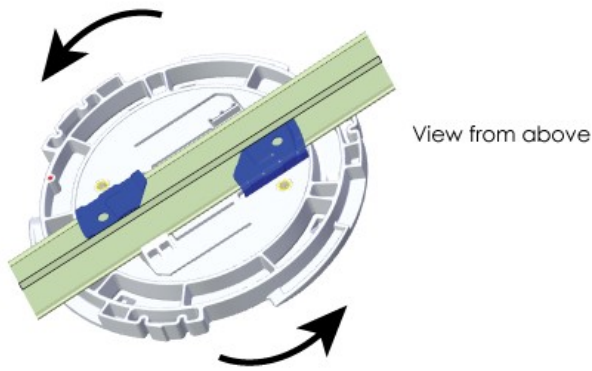
### Install the AP on a Ceiling Track

The AP305C and AP305CX ship with a mounting bracket that lets you easily install them on the rail of a standard dropped ceiling grid. The following illustration shows how to attach the bracket to the ceiling rail, and then install the AP on the bracket. This illustration shows an AP305C but the procedures are the same for both models.

**1** Align bracket to ceiling rail so that the mounting flanges are parallel to the sides of the rail.



**2** Rotate the bracket so that the flanges hook over the edges of the rail.



View from below



Once the bracket is secure, install the AP using the following steps:

1. Align the red dot on the bottom of the AP with the red dot on the bracket.
2. Lift the AP straight up and keep the red dots aligned until the bracket is seated in the round depression on the bottom of the device.
3. Rotate the AP clockwise until it clicks into place on the bracket.

#### Mount the AP on a Wall

Use the holes in the bracket as a template to mark the wall. Drill holes in the wall and attach the bracket to the wall using wall screws and wall anchors if necessary. Attach the AP to the bracket in the same manner as shown in the previous section. Install external antennas on AP305CX devices. Order antennas from Extreme Networks (AH-ACC-ANT-KT).

#### Lock the AP

You can secure the AP using a Kensington® lock in the lock slot on the side of the device, or you can use a security bracket and a crosshead screw or a security screw. Security brackets and screws can be ordered separately from Extreme Networks (not available in Brazil).

Extreme Networks recommends a variety of Kensington locks. For more information, contact your sales representative.

#### Connect the AP to the Network

Follow these steps to connect your AP305C or AP305CX to a standard AC wall socket and to the network.

1. Plug the AC power supply into the 12 V port on the device and into a standard wall socket.
2. Connect an Ethernet cable to the RJ45 port and to a modem or other network device.
3. After the AP receives power, it automatically tries to get network settings and contact HiveManager. This process takes about five minutes. When you see the AP listed on the *Devices* page in the *Monitor* section of the HiveManager GUI, the initial setup is complete and you can begin managing the AP with HiveManager.

## Hardware Components

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### Status Light

The status light conveys operational states for system power, firmware updates, Ethernet and wireless interface activity, and major alarms. The AP305C and AP305CX have a rectangular status light on the top right corner of the chassis. At setup, this light cycles through the following sequence:

- **Slow-blinking White:** The device is attempting to establish a connection or has established a CAPWAP connection with HiveManager.
- **Fast-blinking White:** The device is performing a HiveOS or HiveManager upgrade.
- **Steady White:** The device has successfully established a CAPWAP connection and is operating normally.

### Ethernet Port

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The ETH0 port is autosensing 100/1000G BASE-T/TX Mbps, with IEEE 802.3af- or 802.3at-compliant PoE, and requires Cat6 cable.

## Console Port

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The AP305C has a micro-USB Console port located on the bottom of the device.

## Hardware Specifications

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The following sections list radio, device, power, and environmental specifications for the AP305C and AP305CX.

### Radio Specifications

#### Bluetooth BLE Beacon

- 2402 - 2480 MHz
- Frequency Hopping Spread-spectrum (FHSS)

#### 802.11a

- 5150-5250, 5725 - 5850 MHz operating frequency
- Orthogonal Frequency Division Multiplexing (OFDM) modulation
- Rates (Mbps): 54, 48, 36, 24, 12, 9, 6 with auto fallback

#### 802.11b

- 2.4-2.48 GHz operating frequency
- Direct-Sequence Spread-Spectrum (DSSS) modulation
- Rates (Mbps): 11, 5.5, 2.1 with auto fallback

#### 802.11g

- 2.4-2.48 GHz operating frequency
- Orthogonal Frequency Division Multiplexing (OFDM) modulation
- Rates (Mbps): 54, 48, 36, 24, 12, 9, 6 with auto fallback

#### 802.11n

- 2.4-2.48 and 5.150-5.250, 5250-5350 , 5500-5720MHz, 5.725 - 5.850 GHz operating frequency
- 802.11n modulation
- Rates: MCS0 - MCS7
- 2x2 MIMO radio
- HT20/HT40 support (HT40 is for 5 GHz only)
- A-MPDU and A-MSDU frame aggregation

#### 802.11ac


- 802.11ac modulation (256-QAM)
- 2.4 - 2.48 GHz MCS0-9, NSS=1-4
- 5.150-5.250, 5250-5350 , 5500-5720MHz, 5.725 - 5.850 GHz operating frequency

- Rates: MCS0 - MCS9, NSS = 1-4
- 2x2 MIMO radio
- VHT20/VHT40/VHT80 support (VT40 and VT80 for 5 GHz only)

### 802.11ax

- 5.150-5.250, 5250-5350, 5500-5720MHz, 5.725 - 5.850 GHz operating frequency
- 2.4 - 2.48 GHz operation frequency
- 802.11ax modulation (1024-QAM)
- Rates: MCS0 - MCS11, NSS = 1-4
- OFDMA support
- 2x2 MU-MIMO
- HE20/HE40/HE80 support (HE40 and HE80 for 5GHz only)

### Transmit Power and Sensitivity Specifications

 Output power may be limited by regulatory requirements.

#### Power: 2.4 GHz:

Tolerance +2/-2 dB @25°C

Channel	Data Rate	Power (dBm)
11b	1,2,5,11	18
11g	54 Mbps	15
	48 Mbps	16
	36 Mbps	17
	6 Mbps	18
	HE20	MCS 0,1,2
	MCS 3	17
	MCS 4, 5	16
	MCS 6,7	15
	MCS 8,9	14
	MCS 10,11	12

Channel	Data Rate	Power (dBm)
<b>2.4 G Sensitivity</b>		
<b>11b</b>	1 Mbps	-99
	11 Mbps	-90
<b>11g</b>	6 Mbps	-96
	36 Mbps	-84
	48 Mbps	-80
	54 Mbps	-78
<b>HE20</b>	MCS 0	-95
	MCS 1	-91
	MCS 2	-89
	MCS 3	-86
	MCS 4	-83
	MCS 5	-79
	MCS 6	-77
	MCS 7	-76
	MCS 8	-72
	MCS 9	-70
	MCS 10	-67
	MCS 11	-64

**Power: 5 GHz:**

Mode	Data Rate	Power (dBm)
<b>11a</b>	54 Mbps	17
	48 Mbps	17

Mode	Data Rate	Power (dBm)
	36 Mbps	18
	6 Mbps	19
<b>HE20</b>	MCS 0, 1, 2	19
	MCS 3, 4	17
	MCS 5, 6	16
	MCS 7, 8	15
	MCS 9	14
	MCS 10	13
	MCS 11	12
<b>HE40</b>	MCS 0, 1, 2	17
	MCS 3, 4, 5	16
	MCS 7, 15, 23	14
	MCS 6, 7, 8	15
	MCS 10	13
	MCS 11	12
<b>HE80</b>	MCS 0,1,2	17
	MCS 3,4,5	16
	MCS 6,7,8	15
	MCS 9	14
	MCS 10	13
	MCS 11	12
<b>Sensitivity</b>		
<b>11a</b>	6 Mbps	-94
	36 Mbps	-83
	48 Mbps	-79



Mode	Data Rate	Power (dBm)
	54 Mbps	-77
<b>11n HE20</b>	MCS 0	-94
	MCS 1	-91
	MCS 2	-88
	MCS 3	-86
	MCS 4	-82
	MCS 5	-78
	MCS 6	-77
	MCS 7	-75
	MCS 8	-71
	MCS 9	-69
	MCS 10	-66
	MCS 11	-63
<b>11n HE40</b>	MCS 0	-92
	MCS 1	-88
	MCS 2	-86
	MCS 3	-83
	MCS 4	-80
	MCS 5	-76
	MCS 6	-74
	MCS 7	-73
	MCS 8	-69
	MCS 9	-67
	MCS 10	-63

Mode	Data Rate	Power (dBm)
	MCS 11	-60
<b>HE80</b>	MCS 0	-88
	MCS 1	-85
	MCS 2	-83
	MCS 3	-80
	MCS 4	-77
	MCS 5	-73
	MCS 6	-71
	MCS 7	-69
	MCS 8	-66
	MCS 9	-64
	MCS 10	-60
	MCS 11	-57

**Tolerance** +2/-2 dB @25° C

Mode	Data Rate	Power (dBm)
<b>11a</b>	6 Mbps	19
	36 Mbps	18
	48 Mbps	16
	54 Mbps	15
<b>11n HE20</b>	MCS 0,1, 2, 3, 4, 8, 9, 10, 11	19
	MCS 13, 21	18
	MCS 14, 22	16
	MCS 15, 23	15
	MCS 12, 16, 17, 18, 19, 20	19

Mode	Data Rate	Power (dBm)
<b>11n HT40</b>	MCS 0,1,2, 3, 4, 8	19
	MCS 5, 13, 21	18
	MCS 7, 15, 23	14
	MCS 9, 10, 11, 12, 16	19
	MCS 10	13
	MCS 17, 18, 19, 20	19
	<b>HE80</b>	MCS 0,1,2
	MCS 3,4,5	16
	MCS 6,7,8	15
	MCS 9	14
	MCS 10	13
	MCS 11	12
<b>Sensitivity</b>		
<b>11a</b>	6 Mbps	-94
	36 Mbps	-83
	48 Mbps	-79
	54 Mbps	-77
<b>11n HE20</b>	MCS 0	-94
	MCS 1	-91
	MCS 2	-88
	MCS 3	-86
	MCS 4	-82
	MCS 5	-78
	MCS 6	-77
	MCS 7	-75

Mode	Data Rate	Power (dBm)
	MCS 8	-71
	MCS 9	-69
	MCS 10	-66
	MCS 11	-63
<b>11n HE40</b>	MCS 0	-92
	MCS 1	-88
	MCS 2	-86
	MCS 3	-83
	MCS 4	-80
	MCS 5	-76
	MCS 6	-74
	MCS 7	-73
	MCS 8	-69
	MCS 9	-67
	MCS 10	-63
	MCS 11	-60
<b>HE80</b>	MCS 0	-88
	MCS 1	-85
	MCS 2	-83
	MCS 3	-80
	MCS 4	-77
	MCS 5	-73
	MCS 6	-71
	MCS 7	-69

Mode	Data Rate	Power (dBm)
	MCS 8	-66
	MCS 9	-64
	MCS 10	-60
	MCS 11	-57

### Device Specifications

- **Chassis dimensions:**

**AP305C:** 6.35" W x 5.20" H x 1.25" D (161.3 mm x 132.1 mm x 31.8 mm)

**AP305CX:** 6.35" W x 5.20" H x 1.25" D (161.3 mm x 132.1 mm x 31.8 mm)

- **Weight:**

AP305C: 2.61 lbs (1.18 kilograms)

AP305CX (without antennas): 2.82 lbs (1.28 kilograms)

- **Antennas**

**AP305CX :** 4 external omnidirectional 2.4/5 GHz dual band antennas

**AP305C:** 4 internal omnidirectional 2.4/5 dual band antennas

One dual band antenna is shared between Wi-Fi and BLE

- **ETH0 Ethernet port:** autosensing 100/1000G BASE-T/TX Mbps, with IEEE 802.3af- or 802.3at-compliant PoE, and requires Cat6 cable.

### Antenna Gain

- WiFi 2.4 GHz: 2.7 dBi gain max
- WiFi 5 GHz: 4.4 dBi gain max

### Power Specifications

- PoE input voltage range: 37-57 V
- RJ45 power input pins: Wires 4, 5, 7, 8 or 1, 2, 3, and 6

### Power Consumption

#### AP305C:

- DC power: 18.72 W with USB, 15.72 W without USB
- PoE: 21.78 W with USB, 18.78 W without USB

#### AP305CX:

- DC power: 18.72 W with USB, 15.72 W without USB
- PoE: 20.79 W with USB, 17.79 W without USB


## Environmental Specifications

- **AP305C:** Operating temperature: 32° to 104° F (0° to 40° C)
- **AP305CX:** Operating temperature: -4° to 131° F (-20° to 55° C)
- Storage temperature: -40° to 176° F (-40° to 80° C)
- Relative Humidity: 10 to 95% RH (noncondensing)

## Regulatory Compliance Statements

The regulatory compliance statements in this section apply to Extreme Networks AP305C and AP305CX devices.

### Japan Indoor Use

 For Japan, the AP305C and AP305CX are restricted for indoor use in the 5150-5350 MHz band only.

### Japan Equipment VCCI-B Statement

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

### Compliance Statement - Europe

#### EU Declaration of Conformity

View full CE Declaration of Compliance and this information online at [www.aerohive.com/support/regulatory-compliance](http://www.aerohive.com/support/regulatory-compliance)

Extreme Networks, Inc. declares that this device complies with the essential requirements of the Radio Equipment Directive 2014/53/EU.

- **Bulgarian [Български]:** [Extreme Networks] С настоящото [Extreme Networks] декларира, че този тип радиосъоръжение [AP305C] AP305CX е в съответствие с Директива 2014/53/EU.
- **Croatian [hrvatski]:** [Extreme Networks] ovime izjavljuje da je radijska oprema tipa [AP305C] AP305CX u skladu s Direktivom 2014/53/EU.
- **Czech [Česky]:** [Extreme Networks] Tímto [jméno výrobce] prohlašuje, že typ rádiového zařízení [AP305C] AP305CX je v souladu se směrnicí 2014/53/EU.
- **Danish [Dansk]:** Hermed erklærer [Extreme Networks], at radioudstyrstypen [AP305C] AP305CX er i overensstemmelse med direktiv 2014/53/EU.
- **Dutch [Nederland]** Hierbij verklaar ik, [Extreme Networks], dat het type radioapparatuur [AP305C] AP305CX conform is met Richtlijn 2014/53/EU.
- **English:** Hereby, [Extreme Networks], declares that this [AP305C] AP305CX is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
- **Estonian [Eesti]:** Käesolevaga deklareerib [Extreme Networks], et käesolev radioseadme tüüp [AP305C] AP305CX vastab direktiivi 2014/53/EL nõuetele.
- **Finnish [Suomi]:** [Extreme Networks] vakuuttaa, että radiolaitetyyppi [AP305C] AP305CX on direktiivin 2014/53/EU mukainen.

- **French [Français]:** Le soussigné, [Extreme Networks], déclare que l'équipement radioélectrique du type [AP305C] AP305CX est conforme à la directive 2014/53/UE.
- **German [Deutsch]:** Hiermit erklärt [Extreme Networks], dass der Funkanlagentyp [AP305C] AP305CX der Richtlinie 2014/53/EU entspricht.
- **Greek [Ελληνική]:** ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [Extreme Networks] ΔΗΛΩΝΕΙ ΟΤΙ [ [AP305C] AP305CX ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU.
- **Hungarian [Magyar]:** [Extreme Networks] igazolja, hogy a [AP305C] AP305CX típusú rádióberendezés megfelel a 2014/53/EU irányelvnek.
- **Italian [Italiano]:** Il fabbricante, [Extreme Networks], dichiara che il tipo di apparecchiatura radio [AP305C] AP305CX è conforme alla direttiva 2014/53/UE.
- **Latvian [Latviski]:** Ar šo [Extreme Networks] deklarē, ka radioiekārta [AP305C] AP305CX atbilst Direktīvai 2014/53/ES.
- **Lithuanian [Lietuvių]:** Aš, [Extreme Networks], patvirtinu, kad radijo įrenginių tipas [AP305C] AP305CX atitinka Direktyvą 2014/53/ES.
- **Maltese [Malti]:** B'dan, [Extreme Networks], niddikjara li dan it-tip ta' tagħmir tar-radju [AP305C] AP305CX huwa konformi mad-Direttiva 2014/53/UE.
- **Polish [Polski]:** [Extreme Networks] niniejszym oświadcza, że typ urządzenia radiowego [AP305C] AP305CX jest zgodny z dyrektywą 2014/53/UE.
- **Portuguese [Português]:** O(a) abaixo assinado(a) [Extreme Networks] declara que o presente tipo de equipamento de rádio [AP305C] AP305CX está em conformidade com a Diretiva 2014/53/UE.
- **Romanian [Romania]:** Prin prezenta, [Extreme Networks] declară că tipul de echipamente radio [AP305C] AP305CX este în conformitate cu Directiva 2014/53/UE.
- **Slovak [Slovensky]:** [Extreme Networks] týmto vyhlasuje, že rádiové zariadenie typu [AP305C] AP305CX je v súlade so smernicou 2014/53/EÚ.
- **Slovenian [Slovenija]:** [Extreme Networks] potrjuje, da je tip radijske opreme [AP305C] AP305CX skladen z Direktivo 2014/53/EU.
- **Spanish [Español]:** Por la presente, [Extreme Networks] declara que el tipo de equipo radioeléctrico [AP305C] AP305CX es conforme con la Directiva 2014/53/UE.
- **Swedish [Sverige]:** Härmed försäkrar [Extreme Networks] att denna typ av radioutrustning [AP305C] AP305CX överensstämmer med direktiv 2014/53/EU.

## USA and Canada Radio Frequency Bands

### b. USA

- 802.11b/g/n/ac: 2.4 GHz band: 2400-2483 MHz
- 802.11a/n/ac/ax: 5 GHz band: 5.150-5.250, 5250-5350, 5500-5720MHz, 5.725 - 5.850 GHz operating

### b. Canada

- 802.11b/g/n/ac: 2.4 GHz band: 2400-2483 MHz
- 802.11a/n/ac/ax: 5 GHz band: 5.150-5.250, 5250-5350, 5500-5720MHz, 5.725 - 5.850 GHz operating

## EU Radio Frequency and Power Levels

This product supports the following radio frequencies and power levels in the EU version:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5250 MHz EIRP<23 dBm, 5725-5850MHz<14dBm  
BLE: 2402-2480 MHz EIRP<8 dBm
- 

**Bulgarian [български]:** Този продукт поддържа следните радиочестоти и нива на мощност във версията на EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm,5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Croatian [hrvatski]:** Ovaj proizvod podržava sljedeće radijske frekvencije i razinu snage u verziji EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Česky [Czech]:** [Tento produkt podporuje následující rádiové frekvence a úrovně výkonu ve verzi EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Danish [Dansk]:** Dette produkt understøtter følgende radiofrekvenser og strømniveauer i EU-versionen:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Dutch [Nederland]:** Dit product ondersteunt de volgende radiofrequenties en vermogensniveaus in de EU-versie:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm  
BLE: 2402-2480 MHz EIRP<8 dBm
-



**English:** This product supports the following radio frequencies and power levels in the EU version:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Estonian [Eesti]:** See toode toetab järgmisi raadiosagedusi ja võimsuse taseme ELis versioon:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Finnish [Suomi]:** Tämä tuote tukee seuraavia radiotaajuuksia ja tehoja EU-versiossa:

- 802.11a/b/g/n, 2.4 GHz band: 2412-2472 MHz EIRP<20 dBm
- 802.11 a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
- 

**French [Français]:** Ce produit prend en charge les fréquences radio et les niveaux de puissance suivants dans la version EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
- 

**German [Deutsch]:** Dieses Produkt unterstützt die folgenden Funkfrequenzen und Leistungsstufen in der EU-Version:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
- 

**Greek [Ελληνική]** Αυτό το προϊόν υποστηρίζει τις ακόλουθες ραδιοσυχνότητες και επίπεδα ισχύος στην έκδοση της EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
-

**Hungarian [Magyar]:** Ez a termék a következő rádiófrekvenciákat és teljesítményszinteket támogatja az EU verziójában :

- 802.11b/g/n/ac, 2.4 GHz band: 2412-2472 MHz EIRP<20 dBm
- 802.11 a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14 dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Italian [Italiano]:** Questo prodotto supporta le seguenti frequenze radio e livelli di potenza nella versione UE:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Latvian [Latviski]:** Šis produkts atbalsta šādus radio frekvences un jaudas līmeni ES versiju:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Lithuanian [Lietuvių]:** Šis produktas palaiko šiuos radijo dažnius ir galios lygį ES versija:

- 802.11b/g/n/ac, 2.4 GHz band: 2412-2472 MHz EIRP<20 dBm
- 802.11 a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Maltese [Malti]:** Dan il-prodott jappoġġja l-frekwenzi tar-radju li ġejjin u l-livelli ta 'enerġija fil-verżjoni UE:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14 dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Polish [Polski]:** Ten produkt obsługuje następujące częstotliwości radiowe i poziomy mocy w wersji unijnej:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
- 

**Portuguese [Português]:** Este produto suporta as seguintes frequências de rádio e níveis de potência na versão UE:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax : 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
-

**Romanian [Romania]:** This product supports the following radio frequencies and power levels in the EU version

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14 dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Slovak [Slovensky]:** Tento produkt podporuje nasledujúce rádiové frekvencie a úrovne napájania vo verzii EÚ:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Slovenian [Slovenija]:** Ta izdelek podpira te radijske frekvence in ravni moči v različici EU:

- 802.11b/g/n/ac, 2.4 GHz band: 2412-2472 MHz EIRP<20 dBm
- 802.11 a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm
- 

**Spanish [Español]:** Este producto admite las siguientes frecuencias de radio y niveles de potencia en la versión de la UE:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**Swedish [Sverige]:** Denna produkt stöder följande radiofrekvenser och effektnivåer i EU-versionen:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm,5725-5850 MHz<14dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

**UK:** This product supports the following radio frequencies and power levels in the EU version:

- 802.11b/g/n/ac, 2.4 GHz band: 2400-2483.5 MHz EIRP<20 dBm
- 802.11a/ac/n/ax: 5 GHz band: 5150-5350 MHz EIRP<23 dBm, 5725-5850 MHz<23dBm
- BLE: 2402-2480 MHz EIRP<8 dBm

## EU Radiation Warning Statement



AT	BE	BG	CH	CY	CZ	DE	DK	EE	EL	ES
FI	FR	HR	HU	IE	IS	IT	LI	LT	LU	LV
MT	NL	NO	PL	PT	RO	SE	SI	SK	TR	UK

To meet radiation exposure requirements, these devices should be installed at a minimum distance of 8" (20 cm) from people or animals.

Restrictions: 5150-5350 MHz for indoor use only.

**Bulgarian [Български]:** За да отговарят на изискванията за излагане на радиация, тези устройства трябва да бъдат инсталирани на минимално разстояние от 20 см от хората или животните.

Ограничения: 5150-5350 MHz само за вътрешна употреба.

**Croatian [Hrvatski]:** Da bi zadovoljili zahtjeve izloženosti zračenju, ti uređaji trebaju biti instalirani na minimalnoj udaljenosti od 20 cm od ljudi ili životinja.

Ograničenja: 5150-5350 MHz samo za unutarnju uporabu.

**Czech [Česky]:** Aby byly splněny požadavky na ozáření, měly by být tato zařízení instalována v minimální vzdálenosti 20 cm od lidí nebo zvířat.

Omezení: 5150-5350 MHz pouze pro vnitřní použití.

**Danish [Dansk]:** For at opfylde kravene til strålingseksposering skal disse enheder installeres i mindst 8" (20 cm) afstand fra mennesker eller dyr.

Restriktioner: 5150-5350 MHz kun til indendørs brug.

**Dutch [Nederland]:** Om aan stralingsblootstelling te voldoen, dienen deze apparaten op een minimumafstand van 8" (20 cm) van mensen of dieren te worden geïnstalleerd.

Beperkingen: 5150-5350 MHz alleen voor gebruik binnenshuis.

**English:** To meet radiation exposure requirements, these devices should be installed at a minimum distance of 8" (20 cm) from people or animals.

Restrictions: 5150-5350 MHz for indoor use only.

**Estonian [Eesti]:** Et rahuldada kiirituse nõuetele, need seadmed tuleb paigaldada minimaalselt 8" (20 cm) inimestelt või loomadelt.

Piirangud: 5150-5350 MHz sisetingimustele.

**Finnish [Suomi]:** Säteilytysvaatimusten täyttämiseksi nämä laitteet on asennettava vähintään 8" (20 cm) etäisyydelle ihmisistä tai eläimistä.

Rajoitukset: 5150-5350 MHz vain sisäkäyttöön.

**French [Français]:** Pour répondre aux exigences d'exposition aux rayonnements, ces appareils devraient être installés à une distance minimale de 8" (20 cm) des personnes ou des animaux.

Restrictions: 5150-5350 MHz pour usage intérieur seulement.

**German [Deutsch]:** Um die Anforderungen an die Strahlenbelastung zu erfüllen, sollten diese Geräte in einem Abstand von 8" (20 cm) von Personen oder Tieren installiert werden.

Einschränkungen: 5150-5350 MHz nur für den Innenbereich.

**Greek [Ελληνική]:** Για την κάλυψη των απαιτήσεων έκθεσης σε ακτινοβολία, οι συσκευές αυτές πρέπει να τοποθετούνται σε απόσταση τουλάχιστον 20 cm από ανθρώπους ή ζώα.

Περιορισμοί: 5150-5350 MHz μόνο για εσωτερική χρήση.

**Hungarian [Magyar]:** A sugárterhelési követelmények teljesítése érdekében ezeket az eszközöket legalább 8" (20 cm) távolságra kell felszerelni az emberek vagy az állatoktól.

Korlátozások: 5150-5350 MHz csak beltéri használatra.

**Italian [Italiano]:** Per soddisfare i requisiti di esposizione alle radiazioni, questi dispositivi devono essere installati ad una distanza minima di 20 cm da persone o animali.

Restrizioni: 5150-5350 MHz solo per uso interno.

**Latvian [Latviski]:** Lai apmierinātu starojuma iedarbības prasībām, šīs ierīces ir uzstādītas pie minimālo attālumu 8" (20 cm) no cilvēkiem vai dzīvniekiem.

Ierobežojumi: 5150-5350 MHz izmantot tikai telpās.

**Lithuanian [Lietuvių]:** Siekiant patenkinti SPINDULIAVIMĄ reikalavimus, šie įtaisai turi būti įrengiami ne arčiau kaip 8" (20 cm) nuo žmonių ar gyvūnų.

Apribojimai: 5150-5350 MHz naudoti tik patalpose.

**Maltese [Malti]:** Biex jilħqu l-ħtiġiet ta 'espożizzjoni tar-radżazzjoni, dawn il-meżzi għandhom jiġu installati f' distanza minima ta' 8" (20 cm) minn nies jew annimali.

Restriżzjonijiet: MHz 5150-5350 għall-użu fuq ġewwa biss.

**Polish [Polski]:** Aby spełnić wymagania dotyczące narażenia na promieniowanie, urządzenia te powinny być instalowane w odległości minimum 8" (20 cm) od ludzi lub zwierząt.

Ograniczenia: 5150-5350 MHz tylko do użytku wewnętrznego.

**Portuguese [Português]:** Para atender aos requisitos de exposição à radiação, esses dispositivos devem ser instalados a uma distância mínima de 20 cm (8") de pessoas ou animais.

Restrições: 5150-5350 MHz para uso interno apenas.

**Romanian [Romania]:** Pentru a îndeplini cerințele de expunere la radiații, aceste dispozitive ar trebui instalate la o distanță minimă de 20 cm de la oameni sau animale.

Restricții: 5150-5350 MHz numai pentru uz intern.

**Slovak [Slovensky]:** Ak chcete splniť požiadavky na vystavenie žiareniu, mali by byť tieto zariadenia inštalované v minimálnej vzdialenosti od ľudí alebo zvierat od minimálnej vzdialenosti 20 cm.

Obmedzenia: 5150-5350 MHz iba pre vnútorné použitie.

**Slovenian [Slovenija]:** Da bi zadovoljili zahteve izpostavljenosti sevanja, morajo biti te naprave nameščene na razdalji najmanj 8" (20 cm) iz ljudi ali živali.

Omejitve: 5150-5350 MHz samo za uporabo v zaprtih prostorih.

**Spanish [Español]:** Para cumplir con los requisitos de exposición a la radiación, estos dispositivos deben instalarse a una distancia mínima de 8" (20 cm) de personas o animales.

Restricciones: 5150-5350 MHz sólo para uso en interiores.

**Swedish [Sverige]:** För att uppfylla kraven på strålningsexponering bör dessa enheter installeras på minst 8" (20 cm) från människor eller djur.

Restriktioner: 5150-5350 MHz endast för inomhusbruk.

#### Federal Communication Commission Interference Statement

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, 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 antenna of the receiving devices.
- Increase the separation between this equipment and receiving equipment.
- Connect this equipment into an outlet on a circuit different from that to which the receiving equipment is connected.
- Consult the dealer or an experienced radio or TV technician for help.

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

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.

#### **IMPORTANT NOTE:**

##### **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 8" (20 cm) between the radiator and people or animals.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code selection feature to be disabled for products marketed to the US/CANADA.

**Warning:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

#### **Brazil Statement**

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

## Mexico Statement

La operación de este equipo está sujeta a las siguientes dos condiciones

(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y

(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

The operation of this equipment is subject to the following two conditions:

(1) it is possible that this equipment or device does not cause disruptive interference and

(2) this equipment or device must accept any interference, including interference that may cause undesired operation).

## Industry Canada Statement

This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- l'appareil ne doit pas produire de brouillage, et
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Caution:

(i) 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:

(i) 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;

### Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and people or animals.

### Déclaration d'exposition aux radiations:

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 20 cm de distance entre la source de rayonnement et des personnes ou des animaux.

### Taiwan Compliance Information

Extreme Networks AP305C and AP305CX

第十二條→經型式認證合格之低功率射頻電機，非經許可，公司，商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條→低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在 5.25-5.35 兆赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

無線資訊傳輸設備的製造廠商應確保頻率穩定性，如依製造廠商使用手冊上所述正常操作，發射的信號應維持於操作頻帶中。

### Taiwan MPE Warning

電磁波曝露量MPE標準值(MPE)  $1\text{mW}/\text{cm}^2$ ，送測產品實值為 $0.734\text{mW}/\text{cm}^2$

### European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

1. The symbol above indicates that separate collection of electrical and electronic equipment is required.
2. When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
3. It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
4. It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Environmental Compliance at [Green@extremenetworks.com](mailto:Green@extremenetworks.com).



## Hazardous Substances Statement and RoHS Chart

### Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>6+</sup> )	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
金屬零件 (Metal Parts)	○	○	○	○	○	○
電路模組 (Circuit Modules)	—	○	○	○	○	○
電纜及電纜組件 (Cables & Cable Assemblies)	○	○	○	○	○	○
塑料和聚合物零件 (Plastic and Polymeric parts)	○	○	○	○	○	○
<p>備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。            Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。            Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “—”係指該項限用物質為排除項目。            Note 3 : The “—” indicates that the restricted substance corresponds to the exemption.</p>						