



# Declarations of Conformity and Regulatory Information

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This section provides declarations of conformity and regulatory information for the Cisco Catalyst 9124AX Series Outdoor APs. You can find additional information at this URL: <http://www.cisco.com/go/aironet/compliance>.

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## Manufacturers Federal Communication Commission Declaration of Conformity Statement



Access Point Models	Certification Number
C9124AXI-B	LDK-HTIAK2282
C9124AXD-B	LDK-HTIAK2282
C9124AXE-B	LDK-ETHIK2360

Manufacturer:

Cisco Systems, Inc.

170 West Tasman Drive

San Jose, CA 95134-1706

USA

This device complies with Part 15 rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and radiates radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference. However, there is no guarantee that interference will not occur. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

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




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**Caution**

The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency when using the integrated antennas. Any changes or modification to the product not expressly approved by Cisco could void the user's authority to operate this device.

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## Operation of Cisco Catalyst Access Points in México

Declaración para México

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.

## VCCI Statement for Japan




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**Danger**

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

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	<b>Danger</b>	This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.
<b>警告</b>	<b>Danger</b>	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

## Guidelines for Operating Cisco Catalyst Access Points in Japan

This section provides guidelines for avoiding interference when operating Cisco Catalyst access points in Japan. These guidelines are provided in both Japanese and English.

<p>この機器の使用周波数帯では、電子レンジ等の産業・科学・医療用機器のほか工場の製造ライン等で使用されている移動体識別用の構内無線局（免許を要する無線局）及び特定小電力無線局（免許を要しない無線局）が運用されています。</p> <p>1 この機器を使用する前に、近くで移動体識別用の構内無線局及び特定小電力無線局が運用されていないことを確認して下さい。</p> <p>2 万一、この機器から移動体識別用の構内無線局に対して電波干渉の事例が発生した場合には、速やかに使用周波数を変更するか又は電波の発射を停止した上、下記連絡先にご連絡頂き、混信回避のための処置等(例えば、パーティションの設置など)についてご相談して下さい。</p> <p>3 その他、この機器から移動体識別用の特定小電力無線局に対して電波干渉の事例が発生した場合など何かお困りのことが起きたときは、次の連絡先へお問い合わせ下さい。</p> <p>連絡先： 03-6434-6500</p>	208697
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### English Translation

This equipment operates in the same frequency bandwidth as industrial, scientific, and medical devices such as microwave ovens and mobile object identification (RF-ID) systems (licensed premises radio stations and unlicensed specified low-power radio stations) used in factory production lines.

1. Before using this equipment, make sure that no premises radio stations or specified low-power radio stations of RF-ID are used in the vicinity.
2. If this equipment causes RF interference to a premises radio station of RF-ID, promptly change the frequency or stop using the device; contact the number below and ask for recommendations on avoiding radio interference, such as setting partitions.
3. If this equipment causes RF interference to a specified low-power radio station of RF-ID, contact the number below.

Contact Number: **03-6434-6500**

## Statement 371—Power Cable and AC Adapter

接続ケーブル、電源コード、ACアダプタ、バッテリーなどの部品は、必ず添付品または指定品をご使用ください。添付品・指定品以外の部品をご使用になると故障や動作不良、火災の原因となります。また、電気用品安全法により、当該法の認定（PSEとコードに表記）でなくUL認定（ULまたはCSAマークがコードに表記）の電源ケーブルは弊社が指定する製品以外の電気機器には使用できないためご注意ください。

### English Translation

When installing the product, please use the provided or designated connection cables/power cables/AC adaptors. Using any other cables/adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL-certified cables (that have the “UL” shown on the code) for any other electrical devices than products designated by CISCO. The use of cables that are certified by Electrical Appliance and Material Safety Law (that have “PSE” shown on the code) is not limited to CISCO-designated products.

## Compliance Statement for Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) 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 : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

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. La bande 5 150-5 250 MHz est 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.

Users are advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices. Les utilisateurs êtes avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

#### List of Internal Antennas Supported on C9124AXI

Antenna Type	Antenna Gain	Antenna Impedance
Single-Port Single-Band omni (Mixed POL) BLE/IOT	5 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL) AUX	2.4 GHz—6 dBi 5 GHz—7 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL) AUX	2.4 GHz—6 dBi 5 GHz—7 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—7 dBi 5 GHz—7 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—7 dBi 5 GHz—7 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—7 dBi 5 GHz—7 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—7 dBi 5 GHz—7 dBi	50 ohms

#### List of Internal Antennas Supported on C9124AXD

Antenna Type	Antenna Gain	Antenna Impedance
Single-Port Single-Band omni (Mixed POL) BLE/IOT	4 dBi	50 ohms

Antenna Type	Antenna Gain	Antenna Impedance
Single-Port Dual-Band Omni (VPOL) AUX	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms
Single-Port Dual-Band Omni (HPOL) AUX	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms
Single-Port Dual-Band Omni (HPOL)	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms
Single-Port Dual-Band Omni (VPOL)	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms
Single-Port Dual-Band Omni (HPOL)	2.4 GHz—9 dBi 5 GHz—9 dBi	50 ohms

#### List of External Antennas Supported on C9124AXE

Antenna Type	Antenna Gain	Antenna Impedance
Single-Port Single-Band omni (Mixed POL) BLE/IOT	5 dBi	50 ohms
Single-Band Omni	2.4 GHz—5 dBi	50 ohms
Single-Band Omni	2.4 GHz—8 dBi	50 ohms
Single-Band Omni	2.4 GHz—13 dBi	50 ohms
Single-Band Omni	5 GHz—8 dBi	50 ohms
Single-Band Omni	5 GHz—14 dBi	50 ohms
Dual-Band Omni	2.4 GHz—4 dBi 5 GHz—7 dBi	50 ohms

Antenna Type	Antenna Gain	Antenna Impedance
Dual-Band Polarized Patch	2.4 GHz—8 dBi 5 GHz—8 dBi	50 ohms
Dual-Band Omni	2.4 GHz—6 dBi 5 GHz—8 dBi	50 ohms
Dual-Band Polarized Diverse Patch	2.4 GHz—13 dBi 5 GHz—13 dBi	50 ohms

## Industry Canada

Access Point Models	Certification Number
C9124AXI-A	2461N-HTIAK2282
C9124AXD-A	2461N-HTIAK2282
C9124AXE-A	2461N-ETHIK2360

## European Community, Switzerland, Norway, Iceland, and Liechtenstein

### Access Point Models:

- C9124AXI-E
- C9124AXD-E
- C9124AXE-E



**Note** This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. For more details, contact Cisco Corporate Compliance.

The product carries the CE Mark:



# Administrative Rules for Cisco Catalyst Access Points in Taiwan

This section provides administrative rules for operating Cisco Catalyst APs in Taiwan. The rules for all access points are provided in both Chinese and English.

## Chinese Translation

### 低功率電波輻射性電機管理辦法

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。

127048

## English Translation

Administrative Rules for Low-power Radio-Frequency Devices

### Article 12

For those low-power radio-frequency devices that have already received a type-approval, companies, business units or users should not change its frequencies, increase its power or change its original features and functions.

### Article 14

The operation of the low-power radio-frequency devices is subject to the conditions that no harmful interference is caused to aviation safety and authorized radio station; and if interference is caused, the user must stop operating the device immediately and can't re-operate it until the harmful interference is clear.

The authorized radio station means a radio-communication service operating in accordance with the Communication Act.



The operation of the low-power radio-frequency devices is subject to the interference caused by the operation of an authorized radio station, by another intentional or unintentional radiator, by industrial, scientific and medical (ISM) equipment, or by an incidental radiator.

#### Chinese Translation

### 低功率射頻電機技術規範

#### 4.7 無線資訊傳輸設備

4.7.5 在 5.25-5.35 赫茲頻帶內操作之無線資訊傳輸設備，限於室內使用。

4.7.6 無線資訊傳輸設備須忍受合法通信之干擾且不得干擾合法通信；如造成干擾，應立即停用，俟無干擾之虞，始得繼續使用。

4.7.7 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。

2025911

#### English Translation

#### Low-power Radio-frequency Devices Technical Specifications

4.7	Unlicensed National Information Infrastructure
4.7.5	Within the 5.25-5.35 GHz band, U-NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.
4.7.6	The U-NII devices shall accept any interference from legal communications and shall not interfere the legal communications. If interference is caused, the user must stop operating the device immediately and can't re-operate it until the harmful interference is clear.
4.7.7	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user manual.

## Operation of Cisco Catalyst Access Points in Brazil

This section contains special information for operation of Cisco Catalyst APs in Brazil.

Access Point Models	Certification Number
C9124AXI-ROW	xxxxx-xxxxxxxxx
C9124AXD-ROW	xxxxx-xxxxxxxxx

Access Point Models	Certification Number
C9124AXE-ROW	XXXXX-XXXXXXXXXX

Figure 1: Brazil Regulatory Information



#### Portuguese Translation

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

#### English Translation

This equipment is not entitled to the protection from harmful interference and may not cause interference with duly authorized systems.

## Declaration of Conformity for RF Exposure

This section contains information on compliance with guidelines related to RF exposure.

### Generic Discussion on RF Exposure

The Cisco products are designed to comply with the following national and international standards on Human Exposure to Radio Frequencies:

- US 47 Code of Federal Regulations Part 2 Subpart J
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers / IEEE C 95.1 (99)
- International Commission on Non Ionizing Radiation Protection (ICNIRP) 98
- Ministry of Health (Canada) Safety Code 6. Limits on Human Exposure to Radio Frequency Fields in the range from 3kHz to 300 GHz
- Australia Radiation Protection Standard

To ensure compliance with various national and international Electromagnetic Field (EMF) standards, the system should only be operated with Cisco approved antennas and accessories.

### This Device Meets International Guidelines for Exposure to Radio Waves

The Cisco Catalyst 9124AX Series Outdoor AP device includes a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) recommended by international guidelines. The guidelines were developed by an independent scientific organization (ICNIRP)

and include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

As such the systems are designed to be operated as to avoid contact with the antennas by the end user. It is recommended to set the system in a location where the antennas can remain at least a minimum distance as specified from the user in accordance to the regulatory guidelines which are designed to reduce the overall exposure of the user or operator.

**Table 1: Separation Distance**

<b>MPE</b>	<b>Distance</b>	<b>Limit</b>
0.35 mW/cm <sup>2</sup>	35 cm (13.8 inches)	1.00 mW/cm <sup>2</sup>

The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of wireless devices. They recommend that if you are interested in further reducing your exposure then you can easily do so by reorienting antennas away from the user or placing he antennas at a greater separation distance then recommended.

## This Device Meets FCC Guidelines for Exposure to Radio Waves

The Cisco Catalyst 9124AX Series Outdoor AP device includes a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) as referenced in FCC Part 1.1310. The guidelines are based on IEEE ANSI C 95.1 (92) and include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

As such the systems are designed to be operated as to avoid contact with the antennas by the end user. It is recommended to set the system in a location where the antennas can remain at least a minimum distance as specified from the user in accordance to the regulatory guidelines which are designed to reduce the overall exposure of the user or operator.

The device has been tested and found compliant with the applicable regulations as part of the radio certification process.

**Table 2: Separation Distance**

<b>MPE</b>	<b>Distance</b>	<b>Limit</b>
0.35 mW/cm <sup>2</sup>	35 cm (13.8 inches)	1.00 mW/cm <sup>2</sup>

The US Food and Drug Administration has stated that present scientific information does not indicate the need for any special precautions for the use of wireless devices. The FCC recommends that if you are interested in further reducing your exposure then you can easily do so by reorienting antennas away from the user or placing the antennas at a greater separation distance then recommended or lowering the transmitter power output.

## This Device Meets the Industry Canada Guidelines for Exposure to Radio Waves

The Cisco Catalyst 9124AX Series Outdoor AP device includes a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) as referenced in Health Canada Safety Code 6. The guidelines include a substantial safety margin designed into the limit to ensure the safety of all persons, regardless of age and health.

As such the systems are designed to be operated as to avoid contact with the antennas by the end user. It is recommended to set the system in a location where the antennas can remain at least a minimum distance as specified from the user in accordance to the regulatory guidelines which are designed to reduce the overall exposure of the user or operator.

**Table 3: Separation Distance**

Frequency	MPE	Distance	Limit
2.4–GHz	2.07 W/m <sup>2</sup>	40 cm (15.7 inches)	5.4 W/m <sup>2</sup>
5–GHz	3.52 W/m <sup>2</sup>	40 cm (15.7 inches)	9.76 W/m <sup>2</sup>

Health Canada states that present scientific information does not indicate the need for any special precautions for the use of wireless devices. They recommend that if you are interested in further reducing your exposure you can easily do so by reorienting antennas away from the user, placing the antennas at a greater separation distance than recommended, or lowering the transmitter power output.

## Cet appareil est conforme aux directives internationales en matière d'exposition aux fréquences radioélectriques

Cet appareil de la gamme Cisco Catalyst 9124AX comprend un émetteur-récepteur radio. Il a été conçu de manière à respecter les limites en matière d'exposition aux fréquences radioélectriques (champs électromagnétiques de fréquence radio), recommandées dans le code de sécurité 6 de Santé Canada. Ces directives intègrent une marge de sécurité importante destinée à assurer la sécurité de tous, indépendamment de l'âge et de la santé.

Par conséquent, les systèmes sont conçus pour être exploités en évitant que l'utilisateur n'entre en contact avec les antennes. Il est recommandé de poser le système là où les antennes sont à une distance minimale telle que précisée par l'utilisateur conformément aux directives réglementaires qui sont conçues pour réduire l'exposition générale de l'utilisateur ou de l'opérateur.

**Table 4: Distance d'éloignement**

Fréquence	MPE	Distance	Limite
2.4–GHz	2.07 W/m <sup>2</sup>	40 cm (15.7 inches)	5.4 W/m <sup>2</sup>
5–GHz	3.52 W/m <sup>2</sup>	40 cm (15.7 inches)	9.76 W/m <sup>2</sup>

Santé Canada affirme que la littérature scientifique actuelle n'indique pas qu'il faille prendre des précautions particulières lors de l'utilisation d'un appareil sans fil. Si vous voulez réduire votre exposition encore davantage, selon l'agence, vous pouvez facilement le faire en réorientant les antennes afin qu'elles soient dirigées à l'écart de l'utilisateur, en les plaçant à une distance d'éloignement supérieure à celle recommandée ou en réduisant la puissance de sortie de l'émetteur.

## Additional Information on RF Exposure

You can find additional information on the subject at the following links:

- Cisco Systems Spread Spectrum Radios and RF Safety white paper at this URL: [http://www.cisco.com/warp/public/cc/pd/witc/ao340ap/prodlit/rfhr\\_wi.htm](http://www.cisco.com/warp/public/cc/pd/witc/ao340ap/prodlit/rfhr_wi.htm)
- FCC Bulletin 56: Questions and Answers about Biological Effects and Potential Hazards of Radio Frequency Electromagnetic Fields
- FCC Bulletin 65: Evaluating Compliance with the FCC guidelines for Human Exposure to Radio Frequency Electromagnetic Fields

You can obtain additional information from the following organizations:

- World Health Organization International Commission on Non-Ionizing Radiation Protection at this URL: [www.who.int/emf](http://www.who.int/emf)
- United Kingdom, National Radiological Protection Board at this URL: [www.nrpb.org.uk](http://www.nrpb.org.uk)
- Cellular Telecommunications Association at this URL: [www.wow-com.com](http://www.wow-com.com)
- The Mobile Manufacturers Forum at this URL: [www.mmfa.org](http://www.mmfa.org)

## Declaration of Conformity Statements

All the Declaration of Conformity statements related to this product can be found at the following location: <https://pas.cisco.com/pdncnc/#/>

