



APPENDIX **B**

Declarations of Conformity and Regulatory Information

This appendix provides declarations of conformity and regulatory information for the Cisco Aironet 1000 Series Lightweight Access Points.

This appendix contains the following sections:

- [Manufacturers Federal Communication Commission Declaration of Conformity Statement, page B-2](#)
- [Industry Canada, page B-4](#)
- [European Community, Switzerland, Norway, Iceland, and Liechtenstein, page B-5](#)
- [Declaration of Conformity for RF Exposure, page B-7](#)
- [Guidelines for Operating Cisco Aironet Access Points in Japan, page B-8](#)
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Manufacturers Federal Communication Commission Declaration of Conformity Statement



Model:

AIR-AP1010-A-K9 / AIR-AP1020-A-K9 / AIR-AP1030-A-K9
 AIR-AP1010-B-K9 / AIR-AP1020-B-K9 / AIR-AP1030-B-K9

FCC Certification number:

LDK102057

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, and
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.



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.

**Caution**

Within the 5.15 to 5.25 GHz band (5 GHz radio channels 34 to 48) the U-NII devices are restricted to indoor operations to reduce any potential for harmful interference to co-channel Mobile Satellite System (MSS) operations.

VCCI Statement for Japan

**Warning**

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.

警告

VCCI 準拠クラスB機器（日本）

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス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ください。

Industry Canada

Model:

AIR-AP1010-A-K9 / AIR-AP1020-A-K9 / AIR-AP1030-A-K9
AIR-AP1010-B-K9 / AIR-AP1020-B-K9 / AIR-AP1030-B-K9

Certification number:

2461B-102057

Canadian Compliance Statement

This Class B Digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte les exigences du Règlement sur le matériel brouilleur du Canada.

This device complies with Class B Limits of Industry Canada. 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.

Cisco Aironet 2.4-GHz Access Points are certified to the requirements of RSS-210 for 2.4-GHz spread spectrum devices, and Cisco Aironet 54-Mbps, 5-GHz Access Points are certified to the requirements of RSS-210 for 5-GHz spread spectrum devices. This device must be operated indoors according to the Canadian regulations. For further information, contact your local Industry Canada office.

European Community, Switzerland, Norway, Iceland, and Liechtenstein

Model:

AIR-AP1010-E-K9 / AIR-AP1020-E-K9 / AIR-AP1030-E-K9

Declaration of Conformity with Regard to the 1999/5/EC (R&TTE Directive)

This declaration is only valid for configurations (combinations of software, firmware, and hardware) provided and supported by Cisco Systems. The use of software or firmware not provided and supported by Cisco Systems may result in the equipment no longer being compliant with the regulatory requirements.

Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιαστικές απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.

Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-htigiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktiv: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

121404

This device complies with the EMC requirements (EN 60601-1-2) of the Medical Directive 93/42/EEC.

For 2.4 GHz radios, the following standards were applied:

- Radio: EN 300.328-1, EN 300.328-2
- EMC: EN 301.489-1, EN 301.489-17
- Safety: EN 60950

**Note**

This equipment is intended to be used in all EU and EFTA countries. For more details, contact Cisco Corporate Compliance.

**Caution**

The access point, the antennas, and the power source (power injector or power module) are not designed for outdoor use and must be located in an indoor environment.

For 54 Mbps, 5 GHz access points, the following standards were applied:

- Radio: EN 301.893
- EMC: EN 301.489-1, EN 301.489-17
- Safety: EN 60950

The following CE mark is affixed to the access point with a 2.4 GHz radio and a 54 Mbps, 5 GHz radio:



Declaration of Conformity for RF Exposure

The radio has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices as defined in Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields. The equipment should be installed more than 20 cm (7.9 in.) from your body or nearby persons.

The access point must be installed to maintain a minimum 20 cm (7.9 in.) co-located separation distance from other FCC approved indoor/outdoor antennas used with the access point. Any antennas or transmitters not approved by the FCC cannot be co-located with the access point. The access point's co-located 2.4 GHz and 5 GHz integrated antennas support a minimum separation distance of 8 cm (3.2 in.) and are compliant with the applicable FCC RF exposure limit when transmitting simultaneously.



Note

Dual antennas used for diversity operation are not considered co-located.

Guidelines for Operating Cisco Aironet Access Points in Japan

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

Model:

AIR-AP1010-J-K9 / AIR-AP1020G-J-K9 / AIR-AP1030G-J-K9
AIR-AP1010-P-K9 / AIR-AP1020-P-K9 / AIR-AP1030-P-K9

Japanese Translation

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: 03-5549-6500

Administrative Rules for Cisco Aironet Access Points in Taiwan

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

Access Points with IEEE 802.11a Radios

Chinese Translation

本設備限於室內使用

English Translation

This equipment is limited for indoor use.

All Access Points

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.

Declaration of Conformity Statements

All the Declaration of Conformity statements related to this product can be found at the following URL:

<http://www.ciscofax.com>

Declaration of Conformity Statements for European Union Countries

The Declaration of Conformity statement for the European Union countries is listed on the following pages:



DECLARATION OF CONFORMITY
with regard to the **R&TTE Directive 1999/5/EC**
according to EN 45014

Cisco Systems Inc.
170 West Tasman Drive
San Jose, CA 95134 - USA

Declare under our sole responsibility that the product,

*Product: AIR-AP1010-E-K9
AIR-AP1020-E-K9
AIR-AP1030-E-K9
1000 Series IEEE802.11 a/b/g Access Point*

Fulfils the essential requirements of the Directive 1999/5/EC

The following standards were applied:

EMC EN 301.489-1 v1.4.1: 2002-08; EN 301.489-17 v1.2.1: 2002-09

Health & Safety EN60950: 2000; EN 50385: 2002

Radio EN 301.893 v 1.2.3: 2003-08
EN 300 328 v 1.4.1: 2003-04

The conformity assessment procedure referred to in Article 10.4 and Annex III of Directive 1999/5/EC has been followed.

The product carries the CE Mark:



Date & Place of Issue: 13 April 2005, San Jose

Signature:

Tony Youssef
Director Corporate Compliance
Cisco Systems, 125 West Tasman Drive
San Jose, CA 95134 - USA

Additional information:

EMC Test Report: Elliot Laboratories: R 56965
Safety Test Report: CSA International: CB 218920-1564365; Cisco Systems EDCS-442311
Radio Test Report: Elliot Laboratories: R 56674 (2.4 GHz) & R56675 (5 GHz)

146679

DofC 442316rev1



Annex to DofC# 442316 Information on Antennas and Power Levels

The AIR-AP1010-E-K9 has 6 dBi integral antennas. The AIR-AP1020-E-K9 and AIR-AP1030-E-K9 are equipped with antenna connectors to allow the use of dedicated antennas for both the 2.4 GHz and the 5 GHz part.

This Declaration of Conformity also covers the antennas listed in table 1 and table 2 as they were assessed in combination with the product (AIR-AP1020-E-K9 and AIR-AP1030-E-K9) against the essential requirements of the Directive 1999/5/EC. For each of the antennas, the tables list the maximum output power setting for the product in order to result in a total eirp level below the applicable limit.

Any combination of output power and antenna resulting in an eirp level above the regulatory limit is illegal and is outside the scope of this declaration. Antennas not listed in the tables below are also outside the scope of this document.

Table 1: Dedicated antennas for 2,4 GHz

Antenna P/N	Antenna Gain (dBi)	Maximum Power Setting ⁽¹⁾	Antenna Name
AIR-ANT4941	2.2	100 %	Dipole Antenna
AIR-ANT5959	2.0	100 %	Diversity Omni-Directional Antenna
AIR-ANT1728	5.2	100 %	Omni Ceiling Mount Antenna
AIR-ANT2506	5.2	100 %	Omni Mast Mount Antenna
AIR-ANT3213	5.2	100 %	Diversity Omni Antenna
AIR-ANT1729	6.0	100 %	Patch Wall Mount Antenna
AIR-ANT2012	6.5	100 %	Diversity Patch Antenna
AIR-ANT3549	9.0	50 %	Hemispherical Patch Antenna

Note 1: Possible settings are 100%, 50%, 25 %, 12,5 % and 6,25%. A setting of 100 % corresponds to a maximum conducted output power of 13,5 dBm (at 2.4 GHz). For all combinations, the total radiated power level (including antenna gain) is equal to or below 20 dBm (eirp).

Table 2: Dedicated antennas for 5 GHz

Antenna (Cisco P/N)	Gain (dBi)	Freq Band (MHz)	Regulatory eirp Limit (mW)	Maximum Power Setting ⁽²⁾	Antenna Description
AIR-ANT5135D-R	3.5	5150 - 5350	200	100 %	Dipole Antenna
		5470 - 5725 ⁽¹⁾	1000	100 %	
AIR-ANT5160V-R	6	5150 - 5350	200	100 %	Omni Antenna
		5470 - 5725 ⁽¹⁾	1000	100 %	

Note 1: Operation in 5470 to 5725 MHz not allowed in France.

Note 2: Possible settings are 100%, 50%, 25 %, 12,5 % and 6,25%. A setting of 100 % corresponds to a maximum conducted output power of 17 dBm / 50 mW (at 5 GHz). For all combinations, the total radiated power level (including antenna gain) is equal to or below 23 dBm (eirp).

April 13, 2005

Tony Youssef
Director Corporate Compliance

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■ Declaration of Conformity Statements for European Union Countries