



Compliance Information for 2.4-GHz Wireless LAN Products Relevant to EU and Other Countries Following EU Directive 1999/5/EC (R&TTE Directive)

August, 2006

This document contains compliance information for Cisco Aironet 2.4-GHz wireless LAN products that is relevant to the European Union and other countries that are following the EU Directive 1999/5/EC. You will find the following information in this document:

- [Declaration of Conformity with Regard to the EU Directive 1999/5/EC \(R&TTE Directive\), page 2](#)
- [CE Marking, page 4](#)
- [National Restrictions, page 4](#)
- [Authorized External Antennas and Corresponding Power Levels, page 5](#)
- [How to Change the Output Power of Your Device, page 6](#)
- [How to Access Technical Documents on Cisco.com, page 7](#)



Corporate Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

© 2006 Cisco Systems, Inc. All rights reserved.

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

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 ουσιώδεις 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.
Latviešu [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.
Română [Romanian]:	Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Directivei 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 direktív: 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.

**Note**

The full declaration of conformity for this product can be found in the *Declarations of Conformity and Regulatory Information* section of the appropriate product hardware installation guide, which is available on cisco.com. See the “[How to Access Technical Documents on Cisco.com](#)” section on [page 7](#) for instructions for downloading these documents.

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950 and either EN 50385 or EN 50371

CE Marking

For the AIR-PCM350 series, AIR-LMC350 series, AIR-BR350 series, and AIR-PCI350 series, the following CE mark, notified body number, and class 2 identifier is added to the equipment:



For all other 2.4-GHz wireless products, the following CE mark and class 2 identifier is added to the equipment:



National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Ausnahme der folgenden aufgeführten Staaten:

France

In case the product is used outdoors, the output power is restricted in some parts of the band. See [Table 1](#) below or check <http://www.art-telecom.fr/> for more details.

Dans la cas d'une utilisation en extérieur, la puissance de sortie est limitée pour certaines parties de la bande. Voir la table ci-dessous ou visitez <http://www.art-telecom.fr/> pour de plus amples détails

Table 1 **Applicable Power Levels in France**

Location	Frequency Range (MHz)	Power (EIRP)
Indoor (No restrictions)	2400–2483.5	100 mW (20 dBm)
Outdoor	2400–2454	100 mW (20 dBm)
	2454–2483.5	10 mW (10 dBm)

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless operating within the boundaries of the owner's property, the use of this 2.4 GHz Wireless LAN product requires a 'general authorization'. Please check with <http://www.comunicazioni.it/> for more details.

Questo prodotto è conforme alle specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN a 2.4 GHz richiede una "Autorizzazione Generale". Consultare <http://www.comunicazioni.it/> per maggiori dettagli.

Latvia

The outdoor usage of the 2.4-GHz band requires an authorization from the Electronic Communications Office. Please check <http://www.esd.lv> for more details.

2.4 GHz frekvenču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: <http://www.esd.lv>.

Authorized External Antennas and Corresponding Power Levels

Cisco's 2.4-GHz wireless products have either integral antennas or external (dedicated) antennas.

Products With Integral Antennas

Products with integral antennas put on the EU market are configured during the manufacturing process to radiate at a maximum power level of 100 mW EIRP.

Products with External Antennas

Depending on the type of antenna used, it might be necessary to reduce the output power of the equipment to result in a maximum radiated power of 100 mW EIRP.

Combinations of power levels and antennas resulting in a radiated power level above 100 mW EIRP are considered as not compliant with the directive and are not allowed for use within the European Community and countries that have adopted the European R&TTE Directive 1999/5/EC or the CEPT recommendation Rec 70.03 or both.

The antennas listed in [Table 2](#) were assessed together with the equipment against the requirements of the R&TTE directive. Therefore, the Declaration of Conformity referred to in this document is valid only for the antennas and corresponding power levels listed in [Table 2](#) below and should be used as a baseline. You can also find the list of external antennas available for a specific product in the product's hardware configuration guide. See the "[How to Access Technical Documents on Cisco.com](#)" section on [page 7](#) for instructions for downloading these guides from Cisco.com.

Table 2 Authorized External Antennas and Power Levels

Cisco Part Number	Gain (dBi) ¹	Power Level (dBm)	Antenna Description
AIR-ANT4941 ²	2.2	17	Dipole (Standard “Rubber Duck”)
AIR-ANT5959 ²	2.0	17	Diversity omnidirectional – ceiling mount
AIR-ANT3351 ²	2.2	17	POS diversity dipole
AIR-ANT1728	5.2	14	Diversity omnidirectional–ceiling mount
AIR-ANT3213	5.2	14	Diversity omnidirectional–mast mount
AIR-ANT2506	5.2	14	Omnidirectional mast mount
AIR-ANT1729	6	14	Patch
AIR-ANT2012	6.5	14	Spatial diversity
AIR-ANT3549	8.5	11	Hemispherical patch
AIR-ANT2410Y	10	11	Yagi
AIR-ANT24120	12	8	Omnidirectional mast mount
AIR-ANT1949	13.5	5	Yagi
AIR-ANT2414S-R	14	5	Sector
AIR-ANT3338	21	–1	Solid dish

1. The antenna gains listed do not include cable loss. For all combinations, the total of power level, antenna gain, and cable loss is equal to or below 20 dBm (eirp).
2. Not for use with the AIR-BR1300 series.

How to Change the Output Power of Your Device

To change the output power of the radio in order to use the higher gain antennas listed in Table 2, please see the appropriate documentation as explained below:

- For access points running the VxWorks operating system and bridges running the Cisco IOS operating system, refer to the *Configure Radio Settings* section of the software configuration guide for those products.
- For access points running the Cisco IOS operating system, refer to the *Cisco IOS Software Configuration Guide for Cisco Aironet Access Points, 12.2(xx)JA*.
- For all products running the Cisco IOS operating system, refer to the *Cisco IOS Command Reference for Cisco Aironet Access Points and Bridges, 12.2(xx)JA*.

These documents are available for downloading at cisco.com. See the next section for instructions on how to access and download these documents.

How to Access Technical Documents on Cisco.com

Follow these steps to access technical documents such as hardware installation guides or software configuration guides:

-
- Step 1** Browse to <http://www.cisco.com>.
 - Step 2** Click **Products and Solutions**. The Product and Services window appears.
 - Step 3** Click **Wireless**. A small window appears containing a partial listing of wireless products.
 - Step 4** Click **All Wireless Products**. The Wireless Products page appears.
 - Step 5** Scroll down to the Product Portfolio section of the page and find the Wireless LAN subsection.
 - Step 6** Select a product series of interest, such as **Cisco Aironet 1100 Series**. A list of Cisco Aironet 1100 Series Access Point documents page appears.
 - Step 7** Select a type of documentation such as **Configuration Guides**. The page for the documentation you selected appears.



Note The Declaration of Conformity for a specific document can be found in the hardware installation guide for that product.

- Step 8** Click the document you wish to download. You can view individual chapters of the document or download the entire document in PDF format.
-



Note If you have questions regarding the compliance of these products or you cannot find the information you are looking for, please send your request by email to complianceinfo@cisco.com

CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0601R)