



Getting Started and Compliance Information for the Cisco Catalyst IW6300 Heavy Duty Series Access Points

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Introduction

The purpose of this document is to provide the installer the necessary information for installing the Cisco Catalyst IW6300 Heavy Duty Series Access Points. The documentation is on-line, and subject to change. Make sure that you are downloading or viewing on-line the latest version before beginning an installation.

This document also contains Product Compliance and Safety information as well as Declaration of Conformity. This document also covers hazardous location specific considerations and instructions.

Items Shipped with your Device

Unpack the box and verify that all items listed on the invoice were shipped with the Cisco Catalyst IW6300 Heavy Duty Series Access Points.

The typical access point package contains the following items:

- Access point
 - IW-6300H-AC-x-K9 (AC power model)
 - IW-6300H-DC-x-K9 (DC power model)
 - IW-6300H-DCW-x-K9 (DC wide range power model)
- Mounting kit (sold separately but shipped in the same box)
- Ground lug and screws with lock washers
- Weatherization tape and anti-seize compound
- This document (Part Number 78-101483-01)



Note Mounting kits (IOT-ACCPMK and IOT-ACCPMKHZM) are optional PIDs, sold separately from the AP but shipped in the same box. IOT-ACCPMK-LB is an optional PID bracket that redirects the antennas to face downward. **IOT-ACCPMK-LB must be used along with either IOT-ACCPMK or IOT-ACCPMKHZM to attach to the AP.**

Optional Tools and Hardware

The optional tools and hardware that can be obtained from Cisco are:

- Optional power injector (AIR-PWRINJ-60RGDx=)
- Antennas, 2.4/5-GHz (refer to the data sheet for supported antennas)
- Optional banding strap tool (BAND IT) (AIR-BAND-INST-TL=)

Equipment that you supply

- 1/2" or 13-mm socket wrench, used to open the Access Cover and to attach the mounting bracket
- #2 Phillips or Flat screw driver to clamp wire terminal and ground terminal
- 3/8" Allen wrench with 13-18" long wrench handle to remove 1/2" NPT port plugs
- ATEX/IECEX certified Armored cable for routing in conduit
- Customer supplied ATEX/IECEX certified 1/2" NPT conduit (rigid or flex), or ATEX/IECEX certified cable gland or barrier gland for each connection suitable to maintain IP66/67
- ATEX/IECEX certified AC or DC power cable, based on the AP model ordered
- Loctite 565 Thread Sealant for 1/2" NPT Ports

- 6-AWG (13.3 mm²) copper ground wire
- Ethernet RJ-45 connector and installation tool
- Optional ground rod, as required by local regulations
- Optional ladder, power lift, rope, or other tools as required
- ESD-preventive cord and wrist strap.
- Wire-stripping tools for stripping 14- and 18-gauge wires
- Crimping tool

Related Documentation

To access resources or to display the latest Cisco Catalyst IW6300 Heavy Duty Series Access Point documentation on-line, go to this URL:

<https://www.cisco.com/c/en/us/support/wireless/industrial-wireless-6300h-access-point/model.html>

This portal has all of the information you need to get to know your device, install and configure it, as well as access software. You will see the following categories as well as other important information:

- **All support information for Cisco Catalyst IW6300 Heavy Duty Series Access Points:** Provides the most requested resources and a list of all of the models in the series.
- **Release and General Information:** Links to the Software Download site, Compatibility Information, Licensing Information, and Product Release notes.
- **Install and Upgrade:** This is your starting point for Installing the device. Look under the Install and Upgrade Guide section for this model.
- **Configure:** These links provide configuration information. Look first under the Configuration Guide section for this model.

Other important and helpful links to Cisco information are here:

- Cisco.com: www.cisco.com
- Warranty and EULA Information: <https://www.cisco.com/c/en/us/products/warranty-listing.html>
- Cisco Marketplace: www.cisco.com/pcgi-bin/marketplace/welcome.pl
- Cisco Product Documentation: www.cisco.com/go/techdocs
- Cisco Support: www.cisco.com/cisco/web/support/index.html

Installation Warning and Caution Statements for Hazardous Locations Environments



Warning **IMPORTANT SAFETY INSTRUCTIONS** Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071



Warning This equipment must be externally grounded using a customer-supplied ground wire before power is applied. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 366



Warning Do not work on the system or connect or disconnect cables during periods of lightning activity. Statement 1001



Warning Read the installation instructions before you connect the system to its power source. Statement 1004



Warning This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. Statement 1017



Warning A readily accessible two-poled disconnect device must be incorporated in the fixed wiring. Statement 1022 (for DC input applications only)



Warning Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030



Warning Ultimate disposal of this product should be handled according to all national laws and regulations. Statement 9001



Warning For connections outside the building where the equipment is installed, the following ports must be connected through an approved network termination unit with integral circuit protection.10/100/1000 Ethernet. Statement 1044



Warning When installing or replacing the unit, the ground connection must always be made first and disconnected last. Statement 1046.



Warning To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 75°C (167°F) Statement 1047



Warning Do not locate the antenna near overhead power lines or other electric light or power circuits, or where it can come into contact with such circuits. When installing the antenna, take extreme care not to come into contact with such circuits, because they may cause serious injury or death. For proper installation and grounding of the antenna, please refer to national and local codes (for example, U.S.:NFPA 70, National Electrical Code, Article 810, Canada: Canadian Electrical Code, Section 54). Statement 1052



Warning In switch installations in a hazardous location, the DC power source could be located away from the vicinity of the switch. Before performing any of the following procedures, locate the DC circuit to ensure that the power is removed and cannot be turned on accidentally, or verify that the area is nonhazardous before proceeding. Statement 1059



Warning Do not disconnect connections to this equipment unless power has been removed or you have verified that the area is nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.Substitution of components may impair suitability for Class I, Division 2. Statement 1062



Warning When used in a Class I, Zone 2 and Zone 22, Division 2 hazardous location, this equipment must be mounted with a proper wiring method that complies with the governing electrical codes. Statement 1069



Warning Do not connect or disconnect cables to the ports while power is applied to the switch or any device on the network because an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed from the switch and cannot be accidentally be turned on, or verify that the area is nonhazardous before proceeding. Statement 1070



Warning Installation of the equipment must comply with local and national electrical codes. Statement 1074



Warning Do not insert and remove SFP modules while power is on; an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding. Statement 1087



Warning If you connect or disconnect the console cable with power applied to the unit or any device on the network, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.



Warning To verify unit operation, perform POST on the device in a nonhazardous location before installation. Statement 108



Caution This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D or non-hazardous locations.



Note This equipment is rated as following: DC maximum operating range: 44 to 57VDC, 1.2ADC wide range maximum operating range: 10.8 to 36VDC, 5.9AAC maximum operating range: 85-264V~, marked 100-240V~, 50-60Hz, 1.3A



Note This equipment is rated $-40^{\circ}\text{C} (-40^{\circ}\text{F}) \leq T_{\text{amb}} \leq 75^{\circ}\text{C} (167^{\circ}\text{F})$.



Note Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.



Note Provision shall be made to provide that the circuits are limited to overvoltage category II as defined in IEC 60664-1.

For safety and to achieve a good installation, please read and follow these safety precautions:

- Cisco Catalyst IW6300 Heavy Duty Series Access Points are only intended to be installed vertically with antennas facing up. Any other mounting orientation will compromise the IP66/67 and type 4X ingress ratings required for safety and hazardous locations compliance.

- Select your installation site with safety and performance in mind. Remember: electric power lines and phone lines look alike. For safety, assume that any overhead line can kill.
- Call your electric power company. Tell them your plans, and ask them to look at your proposed installation.
- Plan your installation carefully and completely before you begin. Successful raising of a mast or tower is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be in charge of the operation to issue instructions and watch for signs of trouble.
- When installing the access point and antennas, remember:
 - Do not use a metal ladder.
 - Do not work on a wet or windy day.
 - Do dress properly—shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
- Use a rope to lift the access point. If the assembly starts to drop, get away from it and let it fall.
- If any part of the antenna system should come in contact with a power line, do not touch it or try to remove it yourself. Call your local power company. They will remove it safely.

If an accident should occur, call for qualified emergency help immediately.

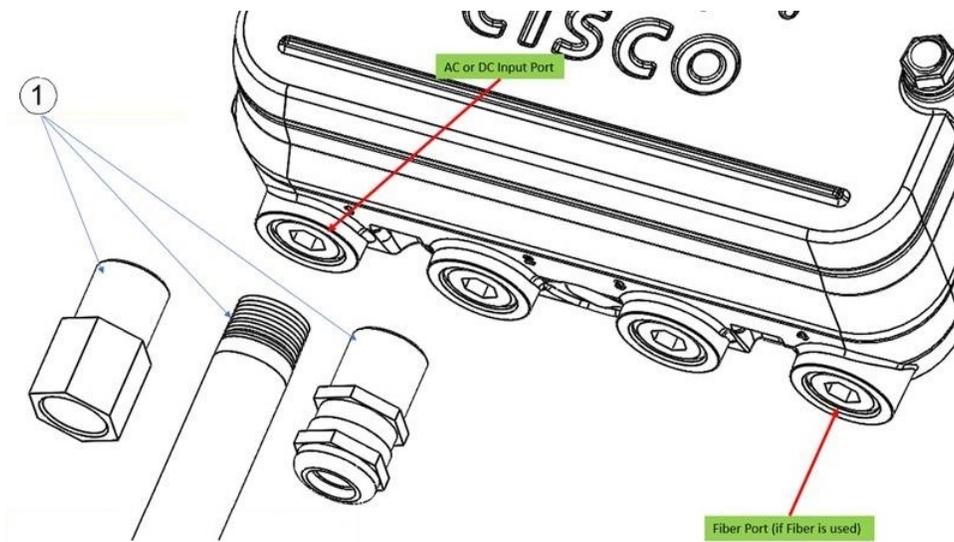
Additional Considerations Before Installation

This section describes special considerations for preparing the IW6300H access points for installation in Class I, Division 2/Zone 2 hazardous locations.



Note This document does not provide specific procedures for installing conduit. You must ensure that your installation techniques and procedures comply with Class I, Division 2/Zone 2 hazardous location installation regulations for your geographic location.

Loctite 565 Thread Sealant needs to be applied to the threads prior to the installation, as shown in the following figure. You should supply certified 1/2" NPT conduit, gland, or adapter for each port used for appropriate installation. (For example, Sealcon provides glands and adapters that are certified. See <https://www.sealconex.com/?ex=9wkuir-fln65y-13897wy-drrs7y>.)



Antennas

The data sheet lists the antennas that can be used by Cisco Catalyst IW6300 Heavy Duty Series Access Points. All antennas were assessed together with the equipment against the requirements of the R&TTE directive.

Depending on the country a different regulatory limit might be applicable. It is therefore the responsibility of the end user to select a power level that, together with the antenna, results in an eirp (radiated power) level that is below the applicable limit.



Note Antenna caps must be installed when an antenna is not in use (maximum torque range: 6.2-9.7 in-lbs).

Antennas installed within a hazardous locations environment must be passive only, rated IP66/67 and compliant to IEC 60079-0.

The following antennas were hazardous locations and IP66/67 certified with the IW6300H series:

Product Number	Description
AIR-ANT5180V-N (Cisco PN 07-1062-01)	4.9 GHz-5.8 GHz 8dBi Omni with N Connector by Laird Technologies
AIR-ANT2450V-N-HZ (Cisco PN 07-1133-01)	2.4 GHz 5 dBi Omni with N Connector by Pulse Electronics
AIR-ANT2480V-N (Cisco PN 07-1058-01)	2.4 GHz 8dBi Omnidirectional with fixed Type N Male Connector, by Laird Corporation
AIR-ANT2547V-N-HZ (Cisco PN 07-1134-01)	2.4-2.483. 5.25-5.85GHz 4/7 dBi Omni by Laird Technologies
AIR-ANT5114P2M-N (Cisco PN 07-1192-01)	5 GHz Directional (Panel) Antenna by Pctel Inc
AIR-ANT2413P2M-N (Cisco PN 07-1193-01)	2.4 GHz Directional (Panel) Antenna by Pctel Inc

Product Number	Description
AIR-ANT2588P3M-N (Cisco PN 07-1194-01)	PDM24519-CS2 (Panel) Antenna by Laird
AIR-ANT2513P4M-N (Cisco PN 07-1284-01)	2.4 GHz/5GHz 13dBi (Panel) Antenna by Laird Technologies

In order to keep IW6300H and the above antennas compliant to hazardous locations requirements, the following conditions shall be met:

- Provision to protect antennas from unintentional damage shall be provided to the Cisco Catalyst IW6300 Heavy Duty Series Access Points.
- The maximum antenna inductance (10uH) and capacitance (0.01uF).
- Maximum cable length of 150ft shall be used for the antennas.
- If using a non-Cisco provided cable, the cable jacket must have a UL certified UV rating.

Avoidance of Electrostatic Discharge

In order to prevent an electro static discharge within a hazardous location, only touch with an insulating object or use means to continuously drain off electrostatic charges in the installation.

Performing Maintenance

The access point requires minimal periodic or preventive maintenance as it has no moving parts, filters, lubricants, or mechanical contact components. However, when installed in a hazardous location, periodic inspections should be conducted in order to ensure that the access point is operating satisfactory. This section provides information about performing maintenance on an access point installed in a hazardous location.

Removing the Access Point from Service

When removing an access point from service, make sure you remove power from the access point before opening the cover and disconnecting the power input wiring. When removing the AC wiring, remember that the ground connection should be the last to be disconnected.

Conducting Periodic Inspections

The access point should be inspected periodically to ensure normal and airtight operation in the hazardous location environment.

Inspection Routine	Periodicity
Inspect O-ring seals and exterior electrical connections for aging, corrosion, and low ground resistance.	Every 3 years
Inspect cover and liquid-tight adapter gaskets for airtightness.	Every 5 years

Hazardous Locations Standards and Marking Strings

The following standards were used for the hazardous locations approvals and certifications:
UL 121201, Ed. 9
CSA C22.2 No. 213, Ed. 3
CAN/CSA C22.2 No. 60079-0:19, 4th Ed
CAN/CSA C22.2 No. 60079-7:16
CAN/CSA C22.2 No. 60079-11, 2nd Ed, 02/2014
CAN/CSA-C22.2 NO. 60079-31:15, October 2015
EN IEC 60079-0:2018
EN 60079-7: 2015+A1:2018
EN 60079-11:2012
EN 60079-31:2014
UL 60079-0, 7th Edition
UL 60079-7, 5th Edition, 2017-02-24
UL 60079-11, Edition 6.2, Rev Date 09/14/2018
UL 60079-31, 2nd Edition, June 12, 2015
IEC 60079-0, Edition 7
IEC 60079-7, Edition 5.1
IEC 60079-11, Edition 6
IEC 60079-31, Edition 2
GB 3836.1-2010
GB 3836.3-2010
GB 3836.4-2010
GB 3836.9-2014

The following hazardous locations marking strings are provided on all IW-6300H PIDs:
Class I, Division 2, Groups A, B, C and D Hazardous Locations
Class I, Zone 2, AEx ic ec IIC T4 Gc, Zone 22 AEx ic tc IIIC T90°C Dc

The following hazardous locations marking strings are provided on all IW-6300H PIDs:	
Ex ic ec IIC T4 Gc, Ex ic tc IIIC T90°C Dc	
 	II 3G Ex ic ec IIC T4 Gc
 	II 3D Ex ic tc IIIC T90°C Dc
DEMKO 19 ATEX 2296X	
IECEX UL 19.0108X	

Safety and Compliance Specifications

The IW6300H access points comply with the following compliance specifications:

Specification	Description
WW EMC-Emissions: CLASS: A	FCC 47 CFR Part 15B ICES-003 CISPR32 EN 55032 CISPR32 Edition 2 EN 55032:2015 EN 61000-3-2: 2014 (Applicable to IW-6300H-AC-x-K9 only) EN 61000-3-3:2013 (Applicable to IW-6300H-AC-x-K9 only) VCCI CLASS A AS/NZ CISPR32
WW EMC-Immunity	CISPR24: 2010 + A1: 2015 EN 55024: 2010 + A1: 2015 CISPR35, EN 55035 EN 300386 V1.6.1

Specification	Description
Radio (Wi-Fi)	FCC Part 15.247, 15.407 FCC 2.1091 RSS - 247 RSS - 102 AS/NZS 4268 2017 MIC Article 2 paragraph 1 item (19)-2,3,3-2 KCC Notice No. 2013-1 EN 300 328 v2.1.1 EN 301 893 v2.1.1 EN 62311 LP0002 Regulatory Domain Support: FCC (Americas Middle East, Africa, and parts of Asia) ETSI (Europe, Middle East, Africa, and parts of Asia) TELEC (Japan) KCC (Korea)
Radio EMC	EN 301 489 – 17 KS X 3124:2020 KS X 3126:2020
Safety (Information Technology Equipment)	UL/CSA/EN/IEC 60950-1 UL/CSA/EN/IEC 62368-1
Ingress (water and dust) Protection	UL 50E (type 4X) EN/IEC 60529 (IP66 and IP67) UL/CSA/IEC 60950-22 outdoor rating

EMC Information

For EMC and safety information, see the Regulatory Compliance and Safety Information.

Class A Notice for FCC

Modifying the equipment without Cisco's authorization may result in the equipment no longer complying with FCC requirements for Class A digital devices. In that event, your right to use the equipment may be

limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to 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 equipment has been tested and found to comply with the limits of a Class A 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.

Industry Canada

Canadian Compliance Statement

Cisco® Catalyst IW6300 Heavy Duty Series Access Point Model

IW-6300H

Cisco® Catalyst IW6300 Heavy Duty Series Access Point PIDs

- IW-6300H-AC-A-K9
- IW-6300H-DC-A-K9
- IW-6300H-DCW-A-K9

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. 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.

Cisco® Catalyst IW6300 Heavy Duty Series Access Points are certified to the requirements of RSS-247. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

This radio transmitter IC-ID 2461N-ESW6300 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Table 1: IW-6300H Access Point Supported External Antennas

Product ID	Frequency Band	Gain	Type
AIR-ANT2547V-N	2.4 / 5 GHz	4 / 7 dBi	Omnidirectional, vertically polarized, white
AIR-ANT2547VG-N	2.4 / 5 GHz	4 / 7 dBi	Omnidirectional, vertically polarized, gray
AIR-ANT2547V-N-HZ	2.4 / 5 GHz	4 / 7 dBi	Omnidirectional, vertically polarized, white, for Hazardous Locations
AIR-ANT2568VG-N	2.4 / 5 GHz	6 / 8 dBi	Omnidirectional, vertically polarized, gray
AIR-ANT2588P3M-N=	2.4 / 5 GHz	6 / 8 dBi	Directional, dual polarized, 3 port
AIR-ANT2513P4M-N=	2.4 / 5 GHz	13 / 13 dBi	Directional, dual polarized, 4 port
AIR-ANT2450V-N=	2.4 GHz	5 dBi	Omnidirectional, vertically polarized, white
AIR-ANT2450V-N-HZ=	2.4 GHz	5 dBi	Omnidirectional, vertically polarized, white, for Hazardous Locations
AIR-ANT2450VG-N=	2.4 GHz	5 dBi	Omnidirectional, vertically polarized, gray
AIR-ANT2450HG-N=	2.4 GHz	5 dBi	Omnidirectional, horizontally polarized, gray
AIR-ANT2480V-N=	2.4 GHz	8 dBi	Omnidirectional, vertically polarized
AIR-ANT2413P2M-N=	2.4 GHz	13 dBi	Directional, dual polarized, 2 port
AIR-ANT5150VG-N=	5 GHz	5 dBi	Omnidirectional, vertically polarized, gray
AIR-ANT5150HG-N=	5 GHz	5 dBi	Omnidirectional, horizontally polarized, gray
AIR-ANT5180V-N=	5 GHz	8 dBi	Omnidirectional, vertically polarized
AIR-ANT5114P2M-N=	5 GHz	13 dBi	Directional, dual polarized, 2 port

To maintain compliance, the minimum separation distance is 60 cm (23.6") from general bystanders.

La distance minimale de séparation de toute personne est de 60 cm (23.6") pour assurer le respect.



Note This product is for professional installation only.

European Community, Switzerland, Norway, Iceland, and Liechtenstein

Cisco® Catalyst IW6300 Heavy Duty Series Access Point Model

IW-6300H

Cisco® Catalyst IW6300 Heavy Duty Series Access Point PIDs:

- IW-6300H-AC-E-K9
- IW-6300H-DC-E-K9
- IW-6300H-DCW-E-K9

Declaration of Conformity with regard to the RED 2014/53/EU, 2014/34/EU and 2014/65/EU

The following standards were applied:

- EMC-EN 301.489-1 ; EN 301.489-17
- Health & Safety-EN60950-1, EN 62368-1: EN 50385
- Radio-EN 300 328 ; EN 301 893 , EN62311

The conformity assessment procedure referred to in Article 10.4 and Annex III of Directive 2014/53/EU has been followed.



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:



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 IW6300 series 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.

Separation Distance	
MPE	Distance
0.88 mW/cm ²	60 cm (23.6 inches)

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 the antennas at a greater separation distance than recommended.

This Device Meets FCC Guidelines for Exposure to Radio Waves

The IW6300 series 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.

Separation Distance	
MPE	Distance
0.88 mW/cm ²	60 cm (23.6 inches)

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 than recommended or lowering the transmitter power output.

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

The IW6300 series 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.

Separation Distance	
MPE	Distance
0.88 mW/cm ²	60 cm (23.6 inches)

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.

Additional Information on RF Exposure

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

- 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

- FCC Bulletin 65C (01-01): Evaluating Compliance with the FCC guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance for Mobile and Portable Devices with FCC limits for Human Exposure to Radio Frequency Emission

You can obtain additional information from the following organizations:

- World Health Organization International Commission on Non-Ionizing Radiation Protection
- United Kingdom, National Radiological Protection Board
- Cellular Telecommunications Association at this URL:
<https://www.ctia.org>
- The Mobile & Wireless Forum at this URL:
<https://www.mwfai.org>

EMC Class A Notices and Warnings

Statement 340—Class A Warning for CISPR22



Warning

Dies ist ein Produkt der Klasse A. Bei der Verwendung dieses Produkts im Haus- oder Wohnungsbereich kann es zu Funkstörungen kommen. In diesem Fall muss der Benutzer u. U. angemessene Maßnahmen ergreifen.
