Hardware Installation Guide for Cisco Catalyst Wireless Gateways

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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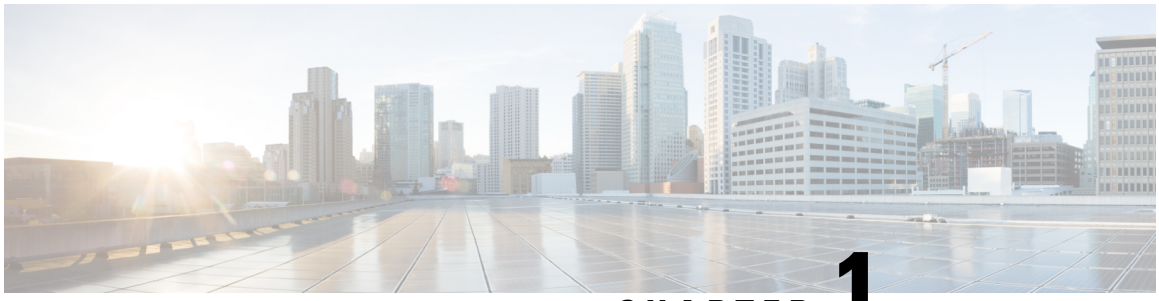


CHAPTER 1

Overview

- Cisco Catalyst Wireless Gateway CG113-W6, on page 1
- Cisco Catalyst Wireless Gateway CG113-4GW6, on page 5

Cisco Catalyst Wireless Gateway CG113-W6

Package Contents

The package for this device contains the following:

- Device chassis
- Power supply
- Pointer card, providing a link to the product documentation

Hardware Specifications

Table 1: Hardware Specifications, Cisco Catalyst Wireless Gateway CG113-W6

Item	Specifications
Interfaces	
2.5 Gigabit ethernet	1
1 Gigabit ethernet	2
Wi-Fi	
Wi-Fi bands	2.4 GHz, 5 GHz
Antennas	Dual 2x2 MIMO (internal)
Cellular	
None	

Item	Specifications
Operating Conditions	
Temperature	0℃ to 45℃ (32℉ to 113℉)
Humidity	10 to 90% RH Non-condensing
Altitude	3000 m (10,000 ft)
Storage Conditions	
Temperature	-25℃ to 70℃ (-13℉ to 158℉)
Humidity	5 to 95% RH Non-condensing
Altitude	4570 m (15,000 ft)
Power	
Power adapter	12V, 3A maximum Models, according to region: CG113-4G-PWR-US, -EU, -AU
Power connector	USB-C
Mounting and Accessories	
The device is installed on a desk or other flat surface. No additional mounting equipment is supplied.	

Ethernet Interfaces, Power Port, and Reset Button

The ethernet interfaces, power port, and reset button are located on the back panel of the device.

Figure 1: Back Panel

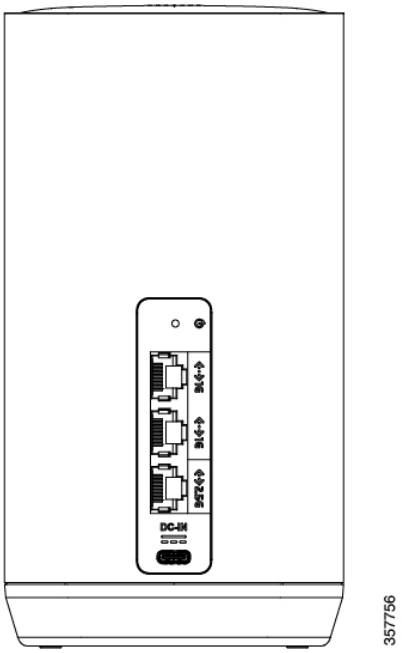
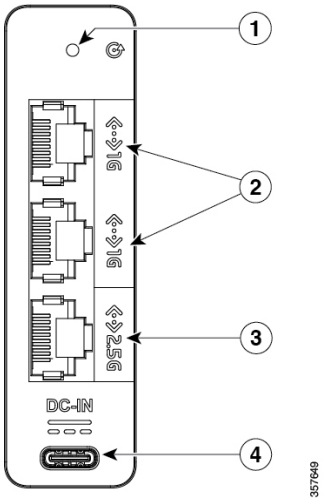


Figure 2: Reset Button, Interfaces, and Power Port



1	Reset button
2	1 Gbps ethernet interfaces
3	2.5 Gbps ethernet interface
4	USB-C power port

LED Indicators

The single LED indicator appears on the front panel of the device.

Figure 3: Front Panel

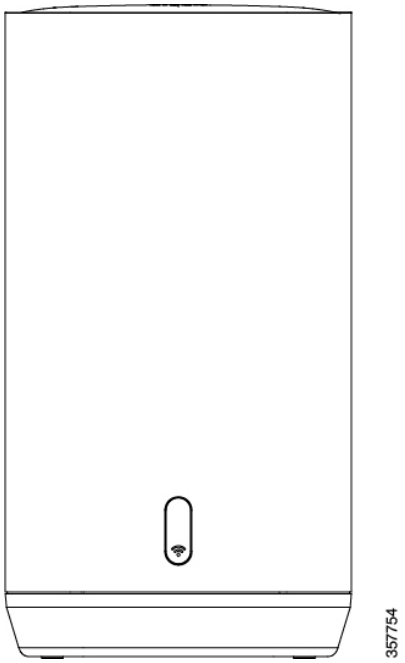
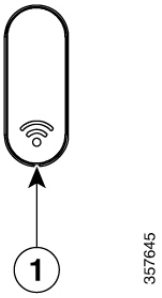


Figure 4: LED Indicator on Front Panel



1	LED indicator for Wi-Fi connectivity

Table 2: LED Indicator Behavior

LED	Color	Description
Wi-Fi	Red, solid	Wi-Fi not ready
	Green, solid	Wi-Fi ready, no devices connected
	Blue, solid	Wi-Fi ready, one or more devices connected
	Green, blinking	Firmware upgrade in progress

Power Supply

The following power supplies are included with the device, depending on region.

Table 3: Power Supply Part and Model Numbers, by Region

Region	Cisco Part Number	Model Number
USA	CG113-4G-PWR-US	ADH-36DW B
Australia	CG113-4G-PWR-AU	ADH-36DW E
EU, UK	CG113-4G-PWR-EU	ADH-36DW C

Table 4: Power Supply Specifications

Specification	Description
Input	100-240V AC 50-60Hz

Cisco Catalyst Wireless Gateway CG113-4GW6

Package Contents

The package for this device contains the following:

- Device chassis
- Power supply
- Pointer card, providing a link to the product documentation

Hardware Specifications

Table 5: Hardware Specifications, Cisco Catalyst Wireless Gateway CG113-4GW6

Item	Specifications
Interfaces	
2.5 Gigabit ethernet	1
1 Gigabit ethernet	2
Wi-Fi	
Wi-Fi bands	2.4 GHz, 5 GHz
Antennas	Dual 2x2 MIMO (internal)

Item	Specifications
Cellular	
SIM slots	2
Cellular bands	4G/Cat7
Operating Conditions	
Temperature	0℃ to 45℃ (32℉ to 113℉)
Humidity	10 to 90% RH Non-condensing
Altitude	3000 m (10,000 ft)
Storage Conditions	
Temperature	-25℃ to 70℃ (-13℉ to 158℉)
Humidity	5 to 95% RH Non-condensing
Altitude	4570 m (15,000 ft)
Power	
Power adapter	12V, 3A maximum Models, according to region: CG113-4G-PWR-US, -EU, -AU
Power connector	USB-C
Mounting and Accessories	
The device is installed on a desk or other flat surface. No additional mounting equipment is supplied.	

Ethernet Interfaces and Power Port

The ethernet interfaces, power port, and reset button are located on the back panel of the device.

Figure 5: Back Panel

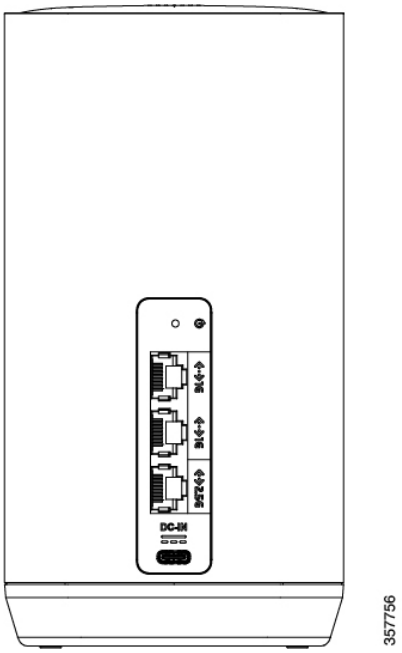
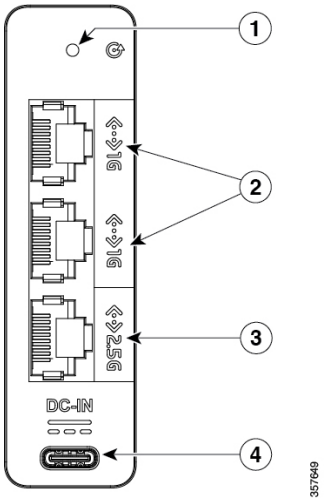


Figure 6: Reset Button, Interfaces, and Power Port

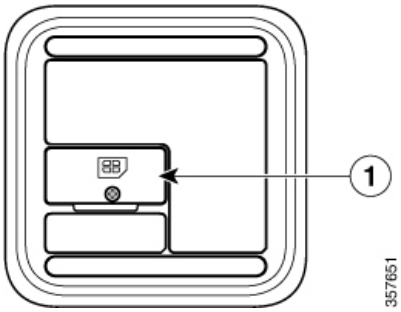


1	Reset button
2	1 Gbps ethernet interfaces
3	2.5 Gbps ethernet interface
4	USB-C power port

SIM Card Slots

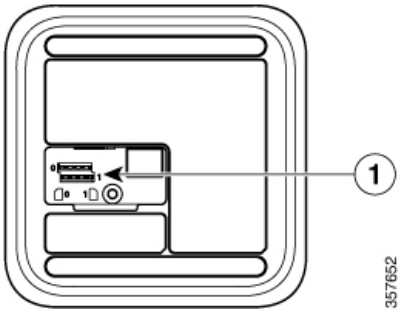
The SIM card slots are accessible from the bottom panel of the device. For information about installing SIM cards, see Install SIMs, LTE Models, on page 16.

Figure 7: Bottom Panel



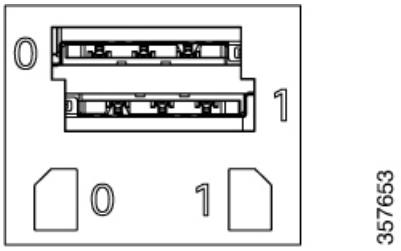
1	Cover for SIM card slots

Figure 8: SIM Card Slots, with the Cover Removed



1	SIM card slots 0 and 1

Figure 9: SIM Card Slots



LED Indicators

The LED indicators appear on the front panel of the device.

Figure 10: Front Panel

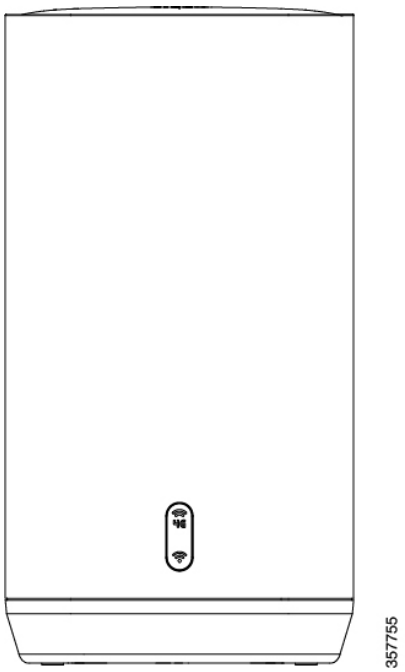
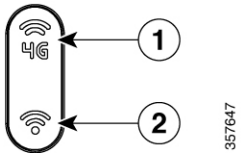


Figure 11: LED Indicators on Front Panel



1	LED indicator for cellular connectivity
2	LED indicator for Wi-Fi connectivity

Table 6: LED Indicator Behavior

LED	Color	Description
Wi-Fi	Red, solid	Wi-Fi not ready
	Green, solid	Wi-Fi ready, no devices connected
	Blue, solid	Wi-Fi ready, one or more devices connected
	Green, blinking	Firmware upgrade in progress

LED	Color	Description
4G	Red, blinking	Booting
	Red, solid	Completed boot, no SIM detected, not connected to network
	Blue, blinking	Connected to network, weak signal
	Blue, solid	Connected to network, strong signal

Power Supply

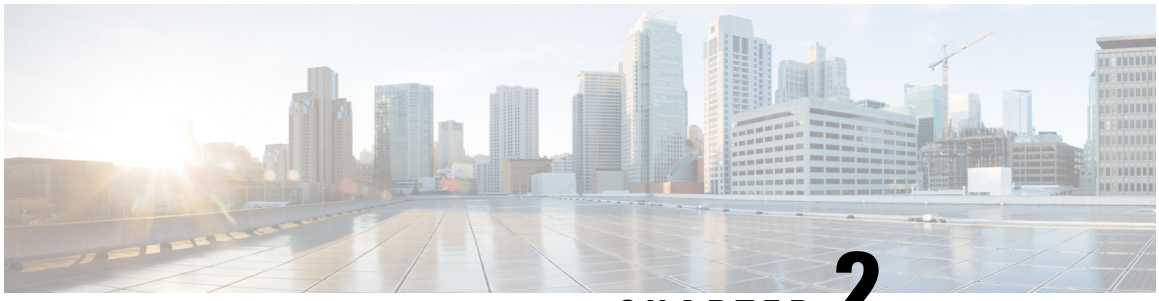
The following power supplies are included with the device, depending on region.

Table 7: Power Supply Part and Model Numbers, by Region

Region	Cisco Part Number	Model Number
USA	CG113-4G-PWR-US	ADH-36DW B
Australia	CG113-4G-PWR-AU	ADH-36DW E
EU, UK	CG113-4G-PWR-EU	ADH-36DW C

Table 8: Power Supply Specifications

Specification	Description
Input	100-240V AC 50-60Hz



CHAPTER 2

Safety Guidelines and Warnings

- **Statement 1071—**Warning Definition, on page 11
- **Statement 407—**Japanese Safety Instruction, on page 12
- **Statement 1004—**Installation Instructions, on page 12
- **Statement 1033—**Safety Extra-Low Voltage (SELV)—IEC 60950/ES1–IEC 62368 DC Power Supply, on page 12
- **Statement 1040—**Product Disposal, on page 12
- **Statement 1047—**Overheating Prevention, on page 12
- **Statement 1074—**Comply with Local and National Electrical Codes, on page 13

Statement 1071—Warning Definition

Warning

IMPORTANT SAFETY INSTRUCTIONS

Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Read the installation instructions before using, installing, or connecting the system to the power source. Use the statement number provided at the end of each warning statement to locate its translation in the translated safety warnings for this device.

SAVE THESE INSTRUCTIONS

Statement 407—Japanese Safety Instruction

Note You are strongly advised to read the safety instruction before using the product.

https://www.cisco.com/web/JP/techdoc/pldoc/pldoc.html

When installing the product, use the provided or designated connection cables/power cables/AC adapters.

〈製品使用における安全上の注意〉
http://www.cisco.com/web/JP/techdoc/index.html

接続ケーブル、電源コードセット、ACアダプタ、バッテリなどの部品は、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、電源コードセット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。

Statement 1004—Installation Instructions

Warning Read the installation instructions before using, installing, or connecting the system to the power source.

Statement 1033—Safety Extra-Low Voltage (SELV)—IEC 60950/ES1–IEC 62368 DC Power Supply

Warning To reduce risk of electric shock, connect the unit only to a DC power source that complies with the SELV requirements in IEC 60950-based safety standards or ES1 requirements in IEC 62368-based safety standards.

Statement 1040—Product Disposal

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

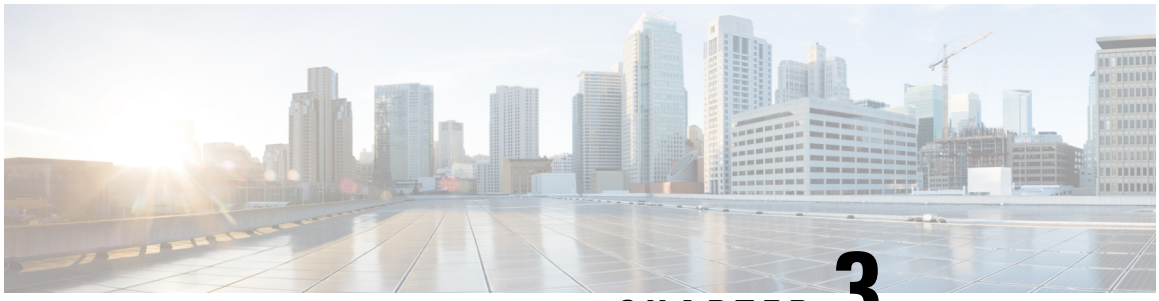
Statement 1047—Overheating Prevention

Warning To reduce the risk of fire or bodily injury, do not operate the unit in an area that exceeds the maximum recommended ambient temperature of: 45℃.

Statement 1074—Comply with Local and National Electrical Codes

Warning To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

Statement 1074—Comply with Local and National Electrical Codes



CHAPTER 3

Install Cisco Catalyst Wireless Gateways

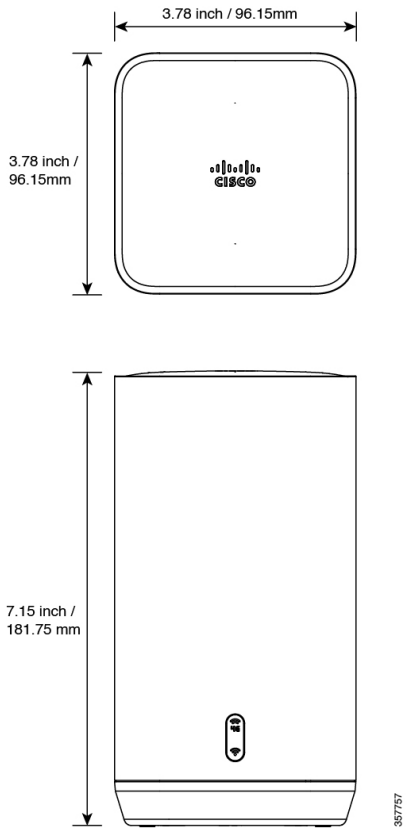
- Device Placement, on page 15
- Install SIMs, LTE Models, on page 16
- Power, on page 17
- Data Connections, on page 17

Device Placement

Place the Cisco Catalyst Wireless Gateway on a flat surface, with access to a household power outlet and to an ethernet connection providing internet connectivity. The device has four mounting feet for resting on a desk or shelf. No special hardware is required for mounting.

The dimensions of the device are shown in the following illustration.

Figure 12: Product Dimensions



Install SIMs, LTE Models

For LTE models, install one or two SIM cards to provide cellular connectivity. For an illustration of the SIM card slots, see SIM Card Slots, on page 8.

Required Equipment

Small Phillips-head screwdriver

Install SIMs

1. On the bottom of the Cisco Catalyst Wireless Gateway, open the cover for the SIM slots using the a small Phillips-head screwdriver.
2. Install either one (1) or two (2) SIM cards in the two slots, marked 0 and 1.

   If you are installing two SIM cards, make note of which SIM card you place in each slot. This information is required during configuration of the two slots as primary and secondary.
3. Replace the cover for the SIM slots.

Power

Connect the power adapter to an household power outlet, and connect its cable to the USB-C port on the back of the Cisco Catalyst Wireless Gateway.

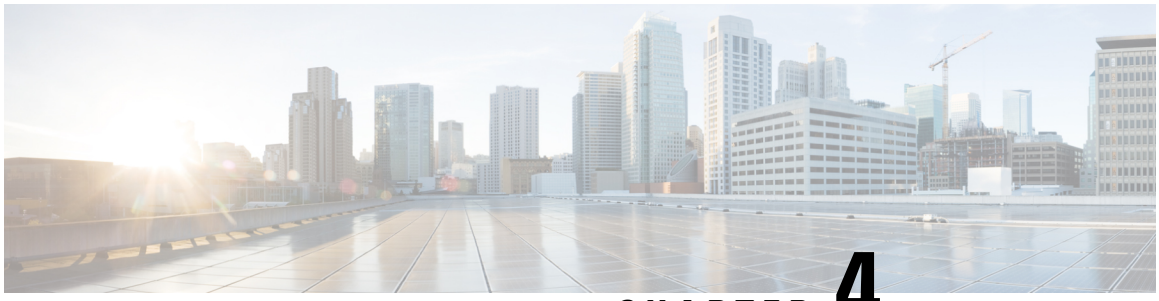
Ensure that the power cable is properly secured.

Data Connections

Ensure that any data cables connected to the device are properly secured.

Table 9: Data Connections

Connection	Description
Internet	Connect the device to a WAN providing internet access, using the 2.5 Gbps ethernet interface.



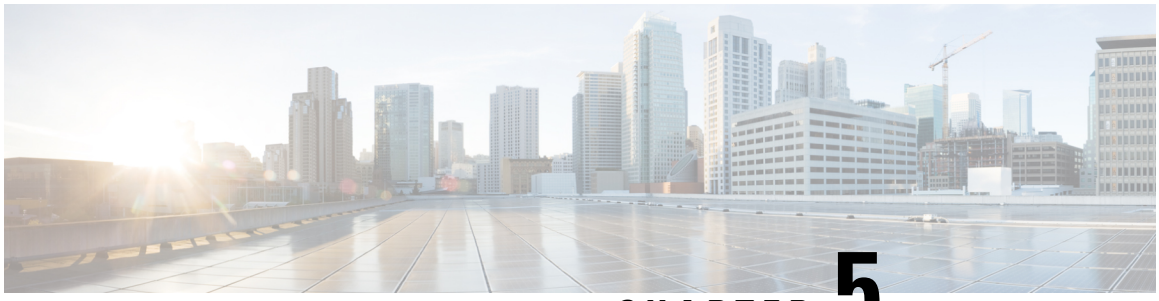
CHAPTER 4

Connect Devices

Ensure that any data cables connected to the device are properly secured.

Table 10: Connections

Connection	Description
Non-corporate wired LAN	To connect a non-corporate device, such as a personal laptop, by wired ethernet, connect it to the 1 Gbps ethernet interface that your organization has configured for general, non-corporate use. For information about which interface this is, contact your organization.
Corporate Wi-Fi	To connect your corporate device, such as a work laptop, by Wi-Fi, connect it to the Wi-Fi SSID that your organization has configured for corporate use. For information about which SSID this is, contact your organization.
Non-corporate Wi-Fi	To connect your non-corporate device, such as a work laptop, by Wi-Fi, connect it to the Wi-Fi SSID that your organization has configured for general, non-corporate use. For information about which SSID this is, contact your organization.



CHAPTER 5

Declarations of Conformity and Regulatory Information

- USA Conformity and Regulatory Information, on page 21
- Canada Conformity and Regulatory Information, on page 23
- European Community and UK Conformity and Regulatory Information, on page 24
- RF Exposure, Additional Information, on page 26

USA Conformity and Regulatory Information

Manufacturers Federal Communication Commission Declaration of Conformity Statement

FCC Mark

Certifications

Model	Certification Number
Cisco CG113-W6B	(Wi-Fi): LDKCG1132477
Cisco CG113-4GW6B	(Wi-Fi): LDKCG1132477 (LTE): N7NEM74B

Manufacturer

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

Compliance

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 radiofrequency energy, and if not installed and used according to the instructions, it may cause harmful interference. Hence, professional installation is recommended. 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 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.This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.FCC regulations restrict the operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

FCC 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 44cm between the radiator and your body.

Canada Conformity and Regulatory Information

Canada Compliance Statement

Certifications

Model	Certification Number
Cisco CG113-W6A	(Wi-Fi): 2461N-CG1132477
Cisco CG113-4GW6A	(Wi-Fi): 2461N-CG1132477 (LTE): 2417C-EM74B

Manufacturer

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

Product Use

- For indoor use only.

  Pour une utilisation en intérieur uniquement.

- 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.

  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.

- The transmitter module may not be co-located with any other transmitter or antenna.

  Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

- For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

  Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator and your body.

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 25cm de distance entre la source de rayonnement et votre corps.

European Community and UK Conformity and Regulatory Information

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

CE Mark

The product carries the CE Mark:

CE

Models

Cisco CG113-W6E

Cisco CG113-4GW6E

Manufacturer

Cisco Systems, Inc.125 West Tasman Drive, San Jose, CA 95134-1706 USA

Importer

Cisco Systems, Inc.125 West Tasman Drive, San Jose, CA 95134-1706 USA

Product Use

The device is restricted to indoor use only.

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.87 inches) between the radiator & your body.

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.

Maximum Transmitted Power

The frequency and the maximum transmitted power in EU are listed below:

2412-2472MHz: 19.99 dBm

5180-5240MHz: 22.92 dBm

5260-5320MHz: 22.95 dBm

5500-5700: 29.97 dBm

Declaration of Conformity

Hereby, Cisco Systems, Inc. declares that the radio equipment type CG113-4GW6E, CG113-W6E is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

European Community and UK Radiation Exposure Statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

United Kingdom Compliance

UKCA Mark

Models

Cisco CG113-W6E

Cisco CG113-4GW6E

Manufacturer

Cisco Systems, Inc.125 West Tasman Drive, San Jose, CA 95134-1706 USA

Importer

Cisco Systems, Inc.125 West Tasman Drive, San Jose, CA 95134-1706 USA

Product Use

The device is restricted to indoor use only.

This equipment should be installed and operated with minimum distance 20 cm (7.87 inches) between the radiator & your body.

Declaration of Conformity

The full text of the EU declaration of conformity is available at the following internet address:

European Community and UK Radiation Exposure Statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

RF Exposure, Additional Information

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.

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

- 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 Internal 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