Installation Guidelines

This article provides general safety standards and warnings relating to installing or connecting a CSG700 series appliance.

General Safety Guidelines

Caution: Before installing or removing a CSG700 series appliance, ensure that the appliance chassis is electrically connected to ground. When you are installing or removing an appliance, ensure that you wear an ESD grounding wrist strap. To put the ESD grounding strap on properly, attach it to an ESD point and then place the other end of the strap around your bare wrist, making good skin contact. Failure to use an ESD grounding strap could damage the appliance.

- Install the CSG700 series appliance in compliance with the following local, national, and international electrical codes:
  - United States—National Fire Protection Association (NFPA 70), United States National Electrical Code.
  - Other countries—International Electromechanical Commission (IEC) 60364, Part 1 through Part 7.
  - Evaluated to the TN power system.
  - Canada—Canadian Electrical Code, Part 1, CSA C22.1.
- Locate the emergency power-off switch in the installation area. In case of an electrical accident, turn off the power quickly.
- Disconnect power to the appliance before installing or removing it.
- Disconnect power from the circuit that is being used for the appliance.
- If hazardous conditions exist, do not work alone.
- If you are working under conditions that might be hazardous to the eyes, wear safety glasses or goggles.

Federal Communication Commission Interference Statement

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 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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no

guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

FCC 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 transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

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 20 cm between the radiator and your body.

ANATEL Interference Statement for Brazil

The following ANATEL interference information applies to Brazil only:

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL, www.anatel.gov.br.

IC Wireless Interference Statement for Canada

The following IC wireless interference information applies to Canada only:

This series appliance contains licence-exempt transmitters or receivers that comply with Innovation, Science, and Economic Development Canada’s licence-exempt RSSs. Operation is subject to the following 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.

L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique 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.
2. L’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage estsusceptible d’en compromettre le fonctionnement.

To satisfy RF exposure requirements, a separation distance of 20 cm or more must be maintained between the antenna

of CSG700 series device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l' antenne.

These radio transmitters IC:2417C-MC7455 and 26338-CSGW1 have 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.

- LTE MC7455 modules—Radio transmitter IC: 2417C-MC7455
  - Gain of antenna: 4.16 dBi maximum
  - Type of antenna: 50 ohm, dipole
- WiFi CSG-W1 modules—Radio transmitter IC: 26338-CSGW1
  - Gain of antenna: 4.55 dBi maximum
  - Type of antenna: 50 ohm, dipole

Le présent émetteur radio IC:2417C-MC7455 and 26338-CSGW1 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

- LTE MC7455 modules—Radio émetteur IC:2417C-MC7455
  - Gain d'antenne: 4.16 dBi maximal
  - Type d'antenne: 50 ohm, dipole
- WiFi CSG-W1 modules—Radio émetteur IC:26338-CSGW1
  - Gain d'antenne: 4.55 dBi maximal
  - Type d'antenne: 50 ohm, dipole
- 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 de 5 150 à 5 250 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.
- For devices with detachable antennas, the maximum antenna gain permitted for devices in the bands 5250–5350 MHz and 5470–5725 MHz must be such that the equipment still complies with the EIRP limit.
  Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de la p.i.r.e.
- For devices with detachable antennas, the maximum antenna gain permitted for devices in the band 5725–5850 MHz must be such that the equipment still complies with the EIRP limits as appropriate.
  Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selonle cas.
- Where applicable, antenna types, antenna models) and worst case tilt angles necessary to remain compliant with

the EIRP elevation mask requirement set forth in section 6.2.2.3 must be clearly indicated.
Lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

NBTC Thailand (SDoC) Statement

This telecommunication equipment conforms to the standard or technical requirements of NBTC.
เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคลอ้ งตามมาตรฐานหรือขอ้ กำหนดทางเทคนิคของ กสทช.

QR Code