

## SAFETY, REGULATORY, AND WARRANTY GUIDE

Cradlepoint W2000-5GB MODEL: S5A103A  
Cradlepoint W2005-5GB Model: S5A108A

This important Safety, Regulatory, and Warranty Guide contains safety, handling, disposal, regulatory, trademark, copyright, and software licensing information.

Read all safety information below and operating instructions before using the device to avoid injury.

### FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Professional installation is required for this device.

### 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 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.

### FCC Statement

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

### For W2000-5GB (Model S5A103A)

Operation on the 5150-5250 MHz WiFi radios is restricted to indoor use only.

### For W2005-5GB (Model S5A108A)

Because this device is intended to be used outdoors, operation on the 5150-5250 MHz WiFi radio is permanently disabled.

### 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 of 38 cm between the radiator and your body.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum cellular antenna gain must not exceed as below:

Antenna Net Gain(dBi)	Frequency range
2.5	700-960 MHz
2.2	1428-1600 MHz
4.3	1700-2700 MHz
4.6	3300-3700 MHz
6.1	5150-5925 MHz

except when transmit operation in Band 30 is not disabled. (See "FCC LTE Band 30 Notice for installers in USA section in the online user manual at [www.cradlepoint.com](http://www.cradlepoint.com))

### Professional installation instruction

#### 1. Installation personal

This product is designed for specific application and needs to be installed by a qualified person who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

#### 2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 38cm (FOR FCC) / 45cm (FOR Canada) from nearby person in normal operation condition to meet regulatory RF exposure requirement.

#### 3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/ISED limit and is prohibited.

#### 4. Installation procedure

Please refer to installation manual for the detail.

#### 5. Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

### Instructions d'installation professionnelle

1. Installation : Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les règles s'y rapportant. L'installation et les réglages ne doivent pas être modifiés par l'utilisateur final.

2. Emplacement d'installation : En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 38cm(FOR FCC)/45cm(FOR IC)entre l'antenne émettrice et les personnes.

3. Antenne externe.: Utiliser uniquement les antennes approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/ISED, ce qui est interdit.

4. Procédure d'installation : Consulter le manuel d'utilisation.

5. Avertissement : Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de graves pénalités fédérales.

### INDUSTRY CANADA STATEMENT

For indoor use only.

This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

(i) 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;

(ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate;

(iii) where applicable, antenna type(s), antenna model(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

### INDUSTRY CANADA 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 45cm between the radiator & your body.

This radio transmitter [IC: 6921A-S5A103A] 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.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

For Model S5A108A				
Manufacturer	Model	Antenna Type	Max Gain (dBi)	Impedance (Ω)
Cradlepoint, Inc.	NA	Dipole (External)	<b>WLAN:</b> 2.4 GHz: 2.47 5150-5250 MHz: 2.18 5725-5850 MHz: 2.47	NA
			<b>WWAN:</b> 700-960 MHz: 2.5 1428-1600 MHz: 2.2 1700-2700 MHz: 4.3 3300-3700 MHz: 4.6 5150-5925 MHz: 6.1	
For Model S5A103A				
Manufacturer	Model	Antenna Type	Max Gain (dBi)	Impedance (Ω)
Cradlepoint, Inc.	NA	Dipole (External)	<b>WLAN:</b> 700-960 MHz: 1.42 1428-1600 MHz: 0.88 1700-2700 MHz: 2.69 3300-3700 MHz: 4.13 5150-5925 MHz: 4.29	NA

The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

### DÉCLARATION D'INDUSTRIE CANADA

Pour une utilisation en intérieur uniquement.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

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.

(i) 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;

(ii) 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, selon le cas;

(iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les piles angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élevation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

### NOTE IMPORTANTE (POUR L'UTILISATION DE DISPOSITIFS MOBILES):

#### DÉCLARATION D'EXPOSITION AUX RADIATIONS

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

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

Le présent émetteur radio [IC: 6921A-S5A103A] 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.

For Model S5A108A				
Manufacturer	Model	Antenna Type	Max Gain (dBi)	Impedance (Ω)
Cradlepoint, Inc.	NA	Dipole (External)	<b>WLAN:</b> 2.4 GHz: 2.47 5150-5250 MHz: 2.18 5725-5850 MHz: 2.47  <b>WWAN:</b> 700-960 MHz: 2.5 1428-1600 MHz: 2.2 1700-2700 MHz: 4.3 3300-3700 MHz: 4.6 5150-5925 MHz: 6.1	NA

For Model S5A103A				
Manufacturer	Model	Antenna Type	Max Gain (dBi)	Impedance (Ω)
Cradlepoint, Inc.	NA	Dipole (External)	<b>WWAN:</b> 700-960 MHz: 1.42 1428-1600 MHz: 0.88 1700-2700 MHz: 2.69 3300-3700 MHz: 4.13 5150-5925 MHz: 4.29	NA

le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.

le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

#### INFORMATION FOR EUROPE, DECLARATION OF COMPLIANCE

Cradlepoint, Inc. 1111 W Jefferson St. Boise, ID 83702 USA

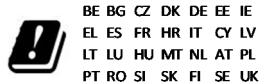
EU Authorized Representative: James Bristow, Senior Vice President, EMEA, Cradlepoint UK Ltd. Cedar House, Apex Court, Camphill Road, West Byfleet, Surrey, KT14 6SQ United Kingdom



Hereby, Cradlepoint Inc. declares that this equipment is in compliance with the Radio Equipment Directive 2014/53/EU, Energy Related Products Directive 2009/125/EC, and RoHS2 Directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: [Cradlepoint.com/product-certifications](http://Cradlepoint.com/product-certifications)

#### RESTRICTIONS ON USE



This device is restricted to indoor use only when operating in the 5150-5350 MHz frequency range.  
Operational Modes:

WLAN 2.4 GHz: 802.11b, 802.11g, 802.11n (HT20, HT40, VHT20, VHT40) 802.11ax (HEW20, HEW40)  
WLAN 5 GHz: 802.11a, 802.11n (HT20, HT40), 802.11ac (VHT20, VHT40, VHT80), 802.11ax (HEW20, HEW40, HEW80)  
WWAN WCDMA: Bands 1, 2, 3, 4, 5, 6, 8, 9, 19  
WWAN LTE: Bands B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71  
WWAN 5Gnr: Bands: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79, n257, n258, n260, n261

RF Exposure Statement: To comply with RF Exposure requirements, this equipment should be installed and operated with minimum distance of 20 cm between the radiating device and your body.

#### ACCESSORIES IMPACTING COMPLIANCE

To maintain compliance with EMC, Radio, and RF Exposure requirements, use only Cradlepoint accessories intended for use with this product. All Cradlepoint accessories intended for use with this product will maintain EMC, Radio, and RF Exposure compliance when installed according to instructions. Cellular antennas must have a gain 5.12 dBi (619-970MHz), 4.53 dBi (1445-1515 MHz), 4.57 dBi (17170-2700MHz), 5.51 dBi (3400-3700 MHz), 5.51 dBi (5150-5925MHz). 802.11 antennas must have a gain <2.47 dBi.

#### RECYCLING AND ENVIRONMENTAL INFORMATION

To find information on Cradlepoint's commitment to our environment and how to responsibly recycle or recover Cradlepoint products at the end of their useful life, please visit [Cradlepoint.com/international](http://Cradlepoint.com/international).

#### FREQUENCIES USED AND MAXIMUM POWER OUTPUT

W2000-5GB, W2005-5GB	
2412-2472 MHz:	99.77 mW
5180-5240 MHz:	194.08 mW
5260-5320 MHz:	199.06 mW
5500-5700 MHz:	907.82 mW
LTE Band 1 (1920-1980 MHz)	319 mW
LTE Band 3 (1710-1910 MHz)	333 mW
LTE Band 7 (2500-2570 MHz)	336 mW
LTE Band 8 (880-915 MHz)	264 mW
LTE Band 20 (832-862 MHz)	253 mW
LTE Band 28 (703-748 MHz)	311 mW
LTE Band 38 (2580-2620 MHz)	342 mW
LTE Band 40 (2300-2400 MHz)	353 mW
LTE Band 42 (3400-3600 MHz)	666 mW
LTE Band 43 (3600-3800 MHz)	621 mW
UMTS Band 1 (1920-1980 MHz)	413 mW
UMTS Band 8 (880-915 MHz)	299 mW

#### SAFETY AND HAZARDS

Caution!! Read following instruction before use.

Only use with original Cradlepoint accessories. Cradlepoint external power adapters are specially designed to operate properly with this device.

Under no circumstances should the device be used in any areas

- (a) where blasting is in progress,
  - (b) where explosive atmospheres may be present, or
  - (c) that are near (i) medical or life support equipment, or (ii) any equipment which may be susceptible to any form of radio interference.
- In such areas, the device **MUST BE POWERED OFF AT ALL TIMES** (since the device otherwise could transmit signals that might interfere with such equipment).

In addition, under no circumstances should the device be used in any aircraft, regardless of whether the aircraft is on the ground or in flight. In any aircraft, the device **MUST BE POWERED OFF AT ALL TIMES** since the device otherwise could transmit signals that might interfere with various onboard systems on such aircraft. Furthermore, under no circumstances should the device be used by the driver or operator of any vehicle. Such use of the device will detract from the driver's or operator's control of that vehicle. In some jurisdictions, use of the device while driving or operating a vehicle constitutes a civil and/or criminal offense.

Due to the nature of wireless communications, transmission and reception of data by the device can never be guaranteed, and it is possible that data communicated or transmitted wirelessly may be delayed, corrupted (i.e., contain errors), or totally lost. The device is not intended for, and Cradlepoint recommends the device not be used in any critical applications where failure to transmit or receive data could result in property damage or loss or personal injury of any kind (including death) to the user or to any other party. Cradlepoint expressly disclaims liability for damages of any kind resulting from: (a) delays, errors, or losses of any data transmitted or received using the device; or (b) any failure of the device to transmit or receive such data.

For proper and safe vehicle installations, the GPIO accessory cable must be connected to a fused circuit in the vehicle. This fused circuit requires a 1.5A fuse. If the supply connection is made directly to the battery, the fuse should be installed in the positive lead. For North America, a UL Listed fuse is to be used.

Warning: This product is only to be installed by qualified personnel.

Purchaser agrees to indemnify Cradlepoint against any liability or damages caused to third parties as a result of Purchaser's misuse or misapplication of the Cradlepoint product.

#### OPEN SOURCE SOFTWARE

This product contains software distributed under one or more of the following open source licenses: GNU General Public License Version 2, BSD License, Net-SNMP License, and PSF License Agreement for Python 3.3. For more information on this software, including licensing terms and your rights to access source code, contact Cradlepoint at [Cradlepoint.com/opensource](http://Cradlepoint.com/opensource).

#### HARDWARE WARRANTY INFORMATION

Cradlepoint, Inc. warrants this hardware product against defects in materials and workmanship to the original purchaser for a period of three (3) years from the date of shipment. This warranty is limited to a repair or replacement of the hardware product, at Cradlepoint's discretion, as purchaser's sole and exclusive remedy. If this hardware product was procured as a component of a NetCloud Solution Package, additional warranty may be available. Please see Cradlepoint's website for details. Cradlepoint does not warrant that the operation of the product will meet your requirements or be error free. **CRADLEPOINT MAKES NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED. CRADLEPOINT SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT.**

#### LIMITATION OF CRADLEPOINT LIABILITY

The information contained in this Safety, Regulatory, and Warranty Guide is subject to change without notice and does not represent any commitment on the part of Cradlepoint or its affiliates. **CRADLEPOINT AND ITS AFFILIATES HEREBY SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL: (A) DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES, INCLUDING WITHOUT LIMITATION FOR LOSS OF PROFITS OR REVENUE OR OF ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF CRADLEPOINT AND/OR ITS AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND EVEN IF SUCH DAMAGES ARE FORESEEABLE; OR (B) CLAIMS BY ANY THIRD PARTY. NOTWITHSTANDING THE FOREGOING, IN NO EVENT SHALL THE AGGREGATE LIABILITY OF CRADLEPOINT AND/OR ITS AFFILIATES ARISING UNDER OR IN CONNECTION WITH THE PRODUCT, REGARDLESS OF THE NUMBER OF EVENTS, OCCURRENCES, OR CLAIMS GIVING RISE TO LIABILITY, EXCEED THE PRICE PAID BY THE ORIGINAL PURCHASER OF THE PRODUCT. THE LIMITATIONS OF LIABILITY SET FORTH HEREIN SHALL REMAIN IN FULL FORCE AND EFFECT REGARDLESS OF WHETHER THE REMEDIES HEREUNDER ARE DETERMINED TO HAVE FAILED OF THEIR ESSENTIAL PURPOSE.**

#### PRIVACY

Cradlepoint may collect general data pertaining to the use of Cradlepoint products via your Internet connection (wired and/or wireless) such as device ID/browser number, network status, IP address, MAC address, operating system, browser type and version number, etc., in order to provide you with better services, enhance user experience, and improve performance.

#### OTHER BINDING DOCUMENTS; TRADEMARKS; COPYRIGHT

By activating or using your W2000 or W2005 device, you agree to be bound by Cradlepoint's Terms of Use, User License and other applicable Legal Policies. © 2015 Cradlepoint, Inc. All rights reserved. Cradlepoint is not responsible for omissions or errors in typography or photography. Cradlepoint, W2000, W2005, and the Cradlepoint logo are trademarks of Cradlepoint, Inc. in the US and other countries. Other trademarks are property of their respective owners.

#### ROUTER COMMUNICATION/DATA USAGE

The factory default configuration of the router is set to communicate with Cradlepoint and other resources at regular intervals to access the latest firmware and modem updates, clock synchronization (NTP), and NetCloud Manager (ECM) membership. Such communication may result in data usage and applicable charges regardless of whether the router uses a wired or wireless Internet connection. To avoid such data usage and potential charges, consult the following Knowledge Base article: <http://knowledgebase.cradlepoint.com/articles/support/router-communication-data-usage>