

SAFETY, REGULATORY, AND WARRANTY GUIDE

CRADLEPOINT R920-C7A
CRADLEPOINT R920-C7B
CRADLEPOINT RX20-MC

MODEL: SSA235A
MODEL: SSA236A
MODEL: SOA235A

This important Safety, Regulatory, and Warranty Guide contains safety, handling, disposal, regulatory, trademark, copyright, and software licensing information. Read all safety information before and operating instructions before using the device to avoid injury.

THIS DEVICE REQUIRES PROFESSIONAL INSTALLATION

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.

FCC ACTION

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.

Operation of the 5 GHz WiFi radios is restricted to indoor use only. This device meets all the other requirements specified in Part 15E, section 15.407 of the FCC Rules

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment and any attached antennas should be installed and operated with minimum distance of 20 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 5 dBi.

To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, these devices may only operate with antennas according to the following table. Antennas having a higher or lower gain are strictly prohibited. The required antenna impedance is 50 ohms.

Type	Part Number	Antenna Type	Frequency	Gain
Bluetooth®	170847-000	Dipole	2400-2483.5 MHz	2.16 dBi
WiFi	170836-000	Dipole	2400-2483.5 MHz 5150-5850 MHz	2.47 dBi 2.47 dBi
WiFi	Varies	Monopole	2402-2483.5 MHz 5150-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz	0.0 - 5.50 dBi 0.0 - 5.81 dBi 0.0 - 5.77 dBi 0.0 - 5.71 dBi 0.0 - 5.99 dBi

INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT CANADA STATEMENT

THIS DEVICE REQUIRES PROFESSIONAL INSTALLATION

This device complies withISED's license-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may 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.

Caution :

- (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 bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit; (detachable antenna only)
- (iii) 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; (detachable antenna only)
- (iv) 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 radiation exposure limits set forth for an uncontrolled environment. This equipment and its antennas should be installed and operated with minimum distance of 0.2m between the radiator and your body.

This device and its antenna(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.

This radio transmitter (IC: 6921A-SSA235A, 2417C-EM74B) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This device has been designed to operate with cellular antennas having a maximum gain of 5 dBi. Antennas having a higher gain are strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

These devices have been designed to operate with dipole and monopole antennas according to the following table. Antennas having a higher or lower gain are strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Type	Part Number	Antenna Type	Frequency	Gain
Bluetooth®	170847-000	Dipole	2400-2483.5 MHz	2.16 dBi
WiFi	170836-000	Dipole	2400-2483.5 MHz 5150-5850 MHz	2.47 dBi 2.47 dBi
WiFi	Varies	Monopole	2402-2483.5 MHz 5150-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz	0.0 - 5.50 dBi 0.0 - 5.81 dBi 0.0 - 5.77 dBi 0.0 - 5.71 dBi 0.0 - 5.99 dBi

DÉCLARATION D'INNOVATION, SCIENCES ET DÉVELOPPEMENT ÉCONOMIQUE CANADA

CET APPAREIL NÉCESSITE UNE INSTALLATION PROFESSIONNELLE

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

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.

Avvertimento:
Le guide d'utilizzazione dei dispositivi per rete locale deve includere le istruzioni precise sulle restrizioni d'uso, in particolare, su:

(i) le dispositivi funzionanti nella banda 5150-5250 MHz sono riservati unicamente per un'utilizzazione all'interno d'area di ridurre le rischi di interferenza pregiudiziale ai sistemi di satelliti mobili utilizzando le stesse frequenze;

(ii) per i dispositivi muniti d'antenne mobili, il guadagno massimo d'antenna permesso per i dispositivi utilizzando le bande di 5 250 a 5 350 MHz e di 5 470 a 5 725 MHz deve essere conforme a la limite di la p.i.r.e.;

(iii) per i dispositivi muniti d'antenne mobili, il guadagno massimo d'antenna permesso (per i dispositivi utilizzando la banda di 5 725 a 5 850 MHz) deve essere conforme a la limite di la p.i.r.e. specificata, secondo il caso;

(iv) l'orsuall' y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pics 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 et ses antennes doivent être installés et exploités avec une distance minimale de 0,2 m entre le radiateur 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-SSA235A, 2417C-EM74B) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Ce dispositif a été conçu pour fonctionner avec une antenne cellulaire ayant un gain maximal de 5 dBi. Une antenne à gain plus élevée est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Ces dispositifs ont été conçus pour fonctionner avec des antennes dipôles et monopôles selon le tableau suivant. Les antennes ayant un gain supérieur ou inférieur sont strictement interdites par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Type	Part Number	Antenna Type	Frequency	Gain
Bluetooth®	170847-000	Dipole	2400-2483.5 MHz	2.16 dBi
WiFi	170836-000	Dipole	2400-2483.5 MHz 5150-5850 MHz	2.47 dBi 2.47 dBi
WiFi	Varies	Monopole	2402-2483.5 MHz 5150-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz	0.0 - 5.50 dBi 0.0 - 5.81 dBi 0.0 - 5.77 dBi 0.0 - 5.71 dBi 0.0 - 5.99 dBi

INFORMATION FOR EUROPE, DECLARATION OF COMPLIANCE

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

EU Authorized Representative: Jan Willeke, Area Director Central Europe, Cradlepoint EMEA. Beim Riesenstein 21, 22393 Hamburg, Germany

EU Importer: Cradlepoint B.V. Verlengde Poolsweg 16, 4818 CL Breda The Netherlands



Hereby, Cradlepoint Inc. declares that this equipment is in compliance with the Radio Equipment Directive 2014/53/EU (S5A326A), EMC Directive 2014/30/EU (S5A325A), and RoHS Directive 2011/65/EU with Amendment 2015/863/EU, Radio Equipment Regulations 2017. The full text of the EU/UK declaration of conformity is available at the following internet address: Cradlepoint.com/product-certifications

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.

RESTRICTIONS ON USE



restricted to indoor use only when operating in the 5150-5350 MHz frequency range.

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 dBi. 802.11 antennas must have a gain between 0 - 5.99 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.

FREQUENCIES USED AND MAXIMUM POWER OUTPUT IN THE EU, UK

The Cradlepoint R920 series

R920-C7B	
2412-2472MHz:	19.86 dBm
2402-2480MHz (LE):	9.98 dBm
5180-5320MHz:	22.89 dBm
5500-5700MHz:	27.76 dBm
LTE Band 1 (1920-1980 MHz)	21.15 dBm
LTE Band 3 (1710-1785 MHz)	21.56 dBm
LTE Band 7 (2500-2570 MHz)	20.81 dBm
LTE Band 8 (880-915 MHz)	23.09 dBm
LTE Band 20 (832-862 MHz)	23.24 dBm
LTE Band 28 (703-748 MHz)	23.31 dBm
LTE Band 38 (2580-2620 MHz)	20.83 dBm
LTE Band 40 (2300-2400 MHz)	20.97 dBm
LTE Band 42 (3400-3600 MHz)	20.97 dBm
LTE Band 43 (3600-3800 MHz)	19.99 dBm
WCDMA Band 1 (1920-1980 MHz)	21.49 dBm
WCDMA Band 5 (869-894 MHz)	21.86 dBm
WCDMA Band 8 (880-915 MHz)	22.84 dBm

RF EXPOSURE STATEMENT FOR AUSTRALIA

To comply with RF Exposure requirements, this equipment should be installed and operated to ensure a minimum distance of 20 cm between the radiating devices (antennas) and human bodies.

INFORMATION FOR UK

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

UK Importer: Cradlepoint UK Ltd. Cedar House, Apex Court, Camphill Road, West Byfleet, Surrey, KT14 6SQ United Kingdom

RESTRICTIONS OR REQUIREMENTS IN THE UK

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

SAFETY AND HAZARDS

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

This device must be powered from a power source which has been certified by the appropriate agencies, or by an approved UL Listed ITE AC power adapter with electrical ratings: 12Vdc, min 2A with a recommended ambient temperature greater than 60 degrees C. For further information, or to purchase a suitable power adapter, please contact Cradlepoint.

For safe vehicle installations, the device must be professionally installed inside the passenger compartment. The 12V Power and GPIO accessory cable must be connected to a fused 3A circuit in the vehicle. For North America, a UL Listed fuse is to be used.

The unit and all interconnected equipment must be installed indoors within the same building, or vehicle.



CAUTION: HOT SURFACE. DO NOT TOUCH

This equipment is designed to operate in ambient temperatures from -30 to 70 °C (-22 to 158 °F) when DC power is supplied to the unit. When operating in elevated ambient temperatures, the surface of the equipment may exceed 70 °C and become too hot to safely touch. Under this condition, this product must be installed in a secured location that is not accessible to accidental touch, and access to the device must be restricted to service persons or users who possess the proper tool or key to access the device and have been informed about the potential high surface temperatures and instructed on how to safely handle and/or service the 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.

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.

SÉCURITÉ ET DANGERS

Avertissement: ce produit ne doit être installé que par du personnel qualifié.

Cet appareil doit être alimenté à partir d'une source d'alimentation certifiée par les agences appropriées, ou par un adaptateur secteur ITE approuvé classé UL avec des puissances électriques: 12Vdc, min 2A avec une température ambiante recommandée supérieure à 60 degrés. Pour plus d'informations ou pour acheter un adaptateur secteur approprié, veuillez contacter Cradlepoint.

Pour des installations de véhicules sécuritaires, l'appareil doit être installé professionnellement à l'intérieur de l'habitacle. Le câble d'alimentation (12Vdc) et le câble accessoire GPIO doivent être connectés à un circuit 3A fusible dans le véhicule. Pour l'Amérique du Nord, un fusible homologué UL doit être utilisé.

L'unité et tout l'équipement interconnecté doivent être installés à l'intérieur du même bâtiment ou véhicule.



ATTENTION: SURFACE CHAUDE. NE PAS TOUCHER.

Cet équipement est conçu pour fonctionner à des températures ambiantes de -30 à 70 °C (-22 à 158 °F) lorsqu'il est alimenté en courant continu, ou 60 °C (140 °F) lorsqu'il est alimenté par un adaptateur UL. Lorsqu'il fonctionne à des températures ambiantes élevées, la surface de l'équipement peut dépasser 70 °C et devenir trop chaude pour être touchée en toute sécurité. Dans cette condition, ce produit doit être installé dans un endroit sécurisé qui n'est pas accessible au contact accidentel, et l'accès à l'appareil doit être limité aux personnes de service ou aux utilisateurs qui possèdent l'outil ou la clé approprié pour accéder à l'appareil et ont été informés des températures de surface potentiellement élevées et des instructions sur la manière de manipuler et / ou de réparer l'appareil en toute sécurité.

En aucun cas, l'appareil ne doit être utilisé dans des zones

- a) lorsque le dynamitage est en cours,
- b) où des atmosphères explosives peuvent être présentes, ou
- (c) qui sont à proximité (i) d'un équipement médical ou de survie, ou (ii) de tout équipement susceptible d'être sensible à toute forme d'interférence radio.

Dans de telles zones, l'appareil **DOIT ÊTRE ÉTEINT EN TOUT TEMPS** (car sinon l'appareil pourrait transmettre des signaux qui pourraient interférer avec un tel équipement).

De plus, l'appareil ne doit en aucun cas être utilisé dans un aéronef, que l'aéronef soit au sol ou en vol. Dans tout aéronef, l'appareil **DOIT ÊTRE ÉTEINT EN TOUT TEMPS** car l'appareil pourrait autrement transmettre des signaux qui pourraient interférer avec divers systèmes embarqués sur de tels avions. En outre, l'appareil ne doit en aucun cas être utilisé par le conducteur ou l'opérateur d'un véhicule. Une telle utilisation de l'appareil nuira au contrôle du conducteur ou de l'opérateur de ce véhicule. Dans certaines juridictions, l'utilisation de l'appareil en conduisant ou en conduisant un véhicule constitue une infraction civile et / ou pénale.

L'appareil n'est pas conçu pour, et Cradlepoint recommande que l'appareil ne soit pas utilisé dans des applications critiques où le défaut de transmission ou de réception de données pourrait entraîner des dommages matériels ou des pertes ou des blessures de toute nature (y compris la mort) à l'utilisateur ou à tout autre faire la fête. Cradlepoint décline expressément toute responsabilité pour les dommages de toute nature résultant de:

- (a) retards, erreurs ou pertes de toute donnée transmise ou reçue à l'aide de l'appareil; ou
- (b) tout échec de l'appareil à transmettre ou recevoir de telles données.

L'acheteur accepte d'indemniser Cradlepoint contre toute responsabilité ou tout dommage causé à des tiers suite à une mauvaise utilisation ou une mauvaise application du produit Cradlepoint par l'acheteur.

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.

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/serial 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 R920 or RX20 device, you agree to be bound by Cradlepoint's Terms of Use, User License and other applicable Legal Policies.

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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>