E3000-C18B Branch Router Quick Start Guide - DRAFT

Introduction

This document provides a brief overview of the E3000-C18B Branch Router, discusses what's inside the box, and provides basic setup and install instructions.

Navigation

What's in the Box

- One router with built-in WiFi and embedded LTE modem
- Four LTE universal modem antennas (SMA)
- Four (4) external dual-band, high-gain WiFi antennas (RP-SMA)
- An AC/DC power adapter
- One MC400 modem door screw
- Four rubber feet for desk mounting
- Screw Pack for wall mounting
- One LTE Antenna Alignment tool
- Two rack mount brackets
- Antenna Alignment instructions/Wall Mount Template
- Safety, Regulatory, and Warranty Guide

Hardware

Hardware specifications vary by model type.
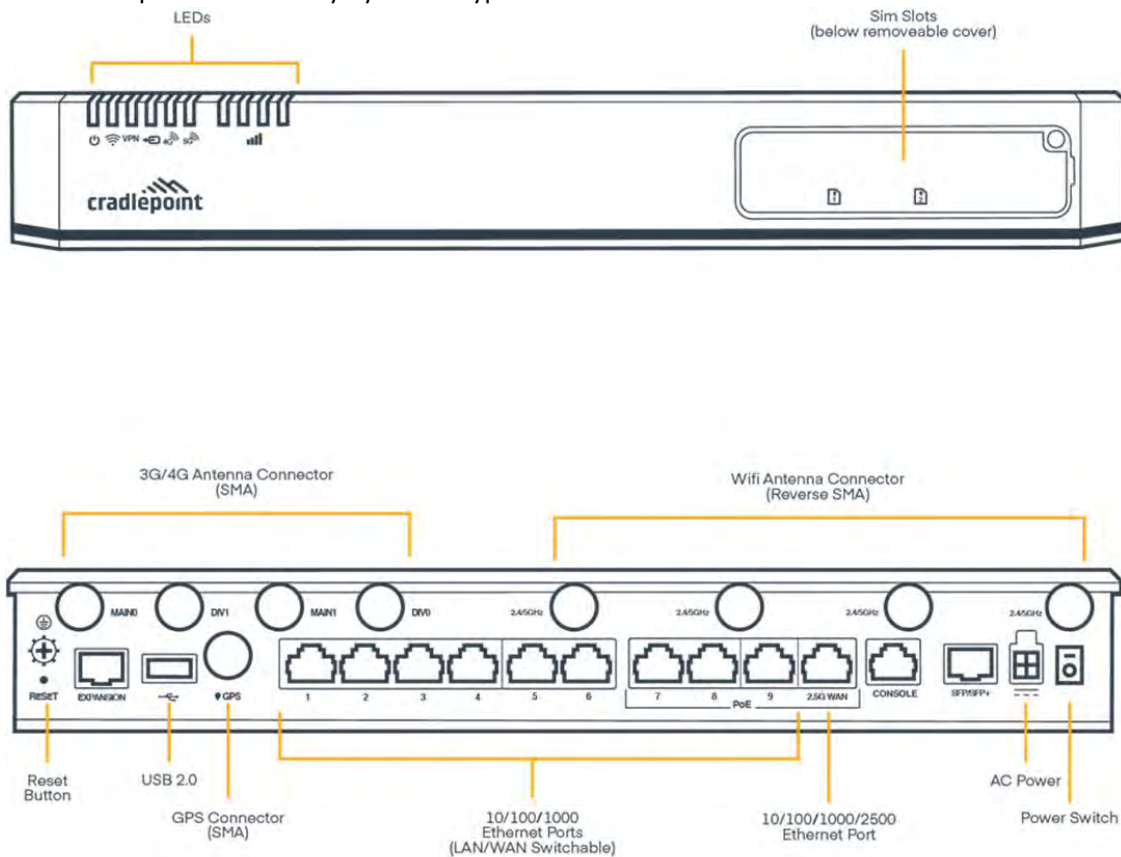
Accessories

To enable cellular connectivity, you will also need at least one activated 2FF-sized SIM card with an active cellular data plan.

Required Tools

#0 Philips-head screwdriver (for LTE modem door cover)

Before You Begin

Read the following before setting up the E3000-C18B Branch Router.

Location Considerations

To ensure the E3000-C18B operates efficiently, do the following:
- Ensure the device is positioned to receive optimal signal. Avoid positioning near concrete walls, metal or reflective surfaces, or any other objects that may interfere with RF reception.
- Ensure plenty of ventilation. Avoid installing the device in enclosed spaces.
- Do not install the device in direct exposure to the elements. Extreme heat or cold can and will impact the router's performance.
- Refer to the E3000-C18B Safety, Regulatory, and Warranty Guide (included with your hardware) for more information about location considerations.

SIM Card for Wireless Connectivity

A wireless broadband data plan must be added to your Cradlepoint E3000-C18B for wireless broadband connectivity. Wireless broadband data plans are available from wireless carriers such as Verizon, AT&T, Sprint, and T-Mobile. The SIM card must be activated and provisioned by the carrier. Contact your carrier for details about selecting a data plan and about the process for provisioning your SIM.

Installing an External Modem

The E3000-C18B includes a slot for an additional MC400 LTE modem. This enhanced capability allows for redundancy, advanced configuration, failover, and upgradability. The E3000-C18B supports both the MC400-600M or the MC400-1200M. Refer to the following for more information:

Insert Optional MC400 External Modem
MC400 Webpage
MC400 Spec Sheet
MC400 Quick Start Guide

Setup

Read through the following to set up your E3000-C18B Branch Router.

1. Insert an Activated SIM.
   a. If setting up cellular connectivity, do the following:
   b. Remove the modem door covering the SIM slots.

    c.   Insert an activated 2FF-sized SIM card with metal contacts face up and notch in, into the SIM 1 slot. It will click into place. Depress again to remove, if necessary.

    d.   Insert a secondary/backup, activated SIM card into the SIM 2 slot, if desired.

    e.   Replace the modem door and secure with the modem door screw.
NOTE: The modem door cover must be on the device or the embedded modem will not power on.

2.   Insert Optional External MC400 Modem.

The E3000-C18B has a slot for second, removable modem (MC400). Before the E3000-C18B can be set up, the additional modem must be installed. To install this modem, do the following:

    a.   Insert an activated 2FF-sized SIM card into the MC400 modem, metal contacts down, notch end first.

    b.   Remove the modem door on the E3000-C18B device.

    c.   Slide the MC400 modem into the available modem slot, USB plug first, with the Cradlepoint logo facing up.

    d.   Replace the MC400 modem door cover. NOTE: Remove the plastic SMA covers from the modem door cover for the additional antenna ports on the modem.

    e.   Secure with the door cover screw.

3.   Attach the Antennas.

Attach the cellular modem antennas (included) to the connectors.

    a.   Hold the antenna straight and twist the base of the antenna to connect to the device, folding the joint if needed.
NOTE: Do not over-tighten. The maximum recommended torque is 4 in-lbs.

    b.   Angle the antennas for optimal signal reception.

4.   Connect the Power Source

    a.   Connect the power supply to the router and then plug the provided power supply into an electrical outlet.

    b.   Switch the device to ON (O = OFF, – = ON). The LED lights will begin lighting up.
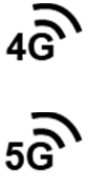

Power Switch

Power Port
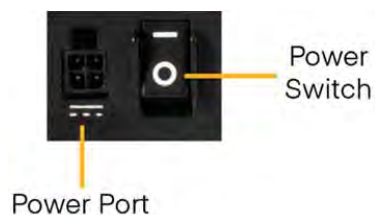
Once the E3000-C18B is powered on, log into your NetCloud account and configure the device. Refer to the Connecting to NetCloud section of this document for more information.

Understanding LEDs

INDICATOR	BEHAVIOR
(power icon)	POWER: The Cradlepoint E3000-C18B must be powered using an approved 54 VDC power source. • Green = Powered On. • No Light = Not receiving power. Check the power switch and the power source connection. • Amber = Attention. Open the administration pages and check the router status.
VPN	VPN: Indicates status of VPN connection. • Blue = Connected to an active VPN. • Green = Router is connected to remote modem via WAN (captive modem)
(modem icon)	REMOVABLE MODEM: Indicates the status of removable LTE modem(s). • Green = Modem has established an active connection. • Blinking Green = Modem is connecting. • Blinking Amber = Data connection error. No modem connection possible. • Blinking Red = Modem is in the process of resetting.
(wifi icon)	WiFi BROADCAST: Indicates activity on the WiFi broadcast for both 2.4 GHz and 5 GHz bands. • Blue = WiFi is on and operating normally. • No Light = WiFi is not operating.
(signal icon)	SIGNAL STRENGTH: LED bars indicate the active modem's signal strength (only for embedded and removable modems). When the embedded modem is active, the bars will be blue. When the removable modem is active, the bars will be green. When the remote (captive) modem is active, the bars will be cyan (blue-green color.) • 4 Solid Bars = Strongest signal. • 1 Blinking Bar = Weakest signal. (A blinking bar indicates half of a bar.)

INDICATOR	BEHAVIOR
	• 4 Blinking Bars = SIM door is not installed, modem is off.
4G 5G	EMBEDDED MODEM: Indicates information about the embedded modem. • Green = Modem has established an active connection. • Blinking Green = Modem is connecting. • Amber = Modem is not active. • Blinking Amber = Data connection error. No modem connection possible. • Blinking Red = Modem is in the process of resetting. • Blinking Red with Signal Strength LEDs = SIM door is not installed, modem is off. • No Light = Modem not connected.
Other	ADDITIONAL LED INDICATIONS The white lights along the base of the endpoint and the CP logo on the top face of the device light up when the device is connected to a registered NCM account.

Connecting to NetCloud

Activate your device through NetCloud Manager (NCM). Your device is packaged with NetCloud services and activation requires that you log into your NetCloud account. Refer to the following for more information:
Getting Started with NetCloud Manager

Troubleshooting

If the device takes longer than 5 minutes to connect to the Internet, you may need to log into the local UI of the device to make configuration changes or to start the troubleshooting process. You must be physically co-located with the device in order to do this. Refer to the following document for additional help:
How to Troubleshoot Connection Issues

Once the device connects to the Internet, it should then connect to your NetCloud Manager account and start its configuration download.

Resources

E3000-C18B Spec Sheet

Help and Support

Cradlepoint Customer Connect Community
Cradlepoint Support Services

E3000-C18B Branch Router Models

This document applies to all of the following E3000-C18B models:

CRADLEPOINT E3000-C18B MODELS
E3000-C18B   Model: S5A950A

WITH OPTIONAL PLUG-IN LTE MODULES
MC400LP4   MC400LP4
MC400LP5   MC400LP5
MC400LP6   MC400LP6
MC400-600M-C   MC400-600M-C
MC400-1200M   MC400-1200M

Get Started:
Cradlepoint E3000

1 **Download Cradlepoint Verify** from your favorite app store.

2 **Launch the app** and sign in using your NetCloud credentials.

3 **Follow the step-by-step instructions** in the Cradlepoint Verify to set up your device.

4 **To configure and manage your devices, visit NetCloud Manager** at cradlepointcm.com.

9:41

VERIFY
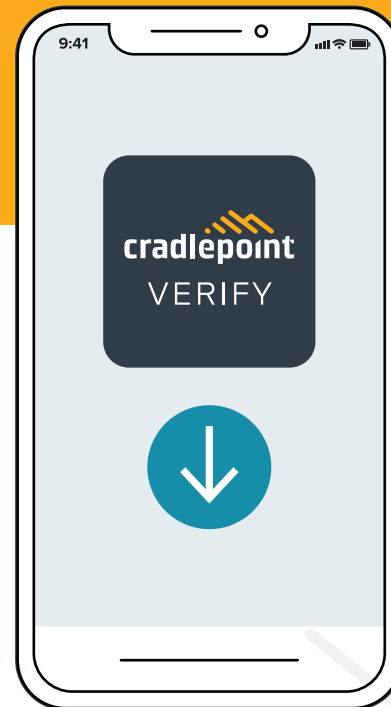
Find more detailed instructions at cradlepoint.com/e3000-start.
Access the Community for best practice documentation at customer.cradlepoint.com.

170814-000

SAFETY, REGULATORY, AND WARRANTY GUIDE

CRADLEPOINT E3000-C18B   MODEL: S5A950A
WITH OPTIONAL PLUG-IN MODULES:
CRADLEPOINT MC400LP4   MODEL: MC400LP4
CRADLEPOINT MC400LP5   MODEL: MC400LP5
CRADLEPOINT MC400LP6   MODEL: MC400LP6
CRADLEPOINT MC400-600M-C   MODEL: MC400-600M-C
CRADLEPOINT MC400-1200M-B   MODEL: MC400-1200M

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.

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.

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

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 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 1.42dBi (619-970MHz), 0.88 dBi (1445-1515 MHz), 2.69dBi (17170-2700MHz), 1.0 dBi (3400-3700 MHz), 4.29 dBi (5150-5925MHz), except when 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)

INDUSTRY CANADA STATEMENT
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.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

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 21cm between the radiator & your body.

These radio transmitters (IC:6921A-S5A950A, 5131A-LM960, 5131A-LM940, 5131A-LM960, 2417C-MC7455, 2417C-HL7588) 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.

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.

WiFi Ant P/N	Supplier	Type	Conn Type	Gain (dBi)		Cable Loss (dB)		Real Gain (dBi)	
				2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
170628-000	A	Dipole	R-SMA	2.47	2.47	0.9	1.5	1.57	0.97

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
Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes aux (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.

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.

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

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

Le présent émetteur radio (IC:6921A-S5A950A, 5131A-LM960, 5131A-LM940, 5131A-LM960, 2417C-MC7455, 2417C-HL7588) 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 d'antenne. Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximal indiqué pour tout type listé sont strictement interdits pour une utilisation avec cet appareil.

WiFi Ant P/N	Supplier	Type	Conn Type	Gain (dBi)		Cable Loss (dB)		Real Gain (dBi)	
				2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
170628-000	A	Dipole	R-SMA	2.47	2.47	0.9	1.5	1.57	0.97

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

CE

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

RESTRICTIONS ON USE

BE BG CZ DK DE EE IE
EL ES FR HR IT CY LV
LT LU HU MT NL AT PL
PT RO SI SK FI SE UK

5 GHz 802.11 a/n/ac WiFi radios are restricted to indoor use only. The 5GHz WiFi radio in this device must be powered OFF if the device is installed outdoors, or if the device is installed in a vehicle.

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 1.42dBi (619-970MHz), 0.88 dBi (1445-1515 MHz), 2.69dBi (17170-2700MHz), 4.13 dBi (3400-3700 MHz), 4.29 dBi (5150-5925MHz). 802.11 antennas must have a gain <5 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

E3000-C18A
2400-2483.5 MHz:	100 mW
5150-5250 MHz:	200 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

MC400LP6
LTE Band 1 (1920-1980 MHz)	233 mW
LTE Band 3 (1710-1910 MHz)	240 mW
LTE Band 7 (2500-2570 MHz)	150 mW
LTE Band 8 (880-915 MHz)	233 mW
LTE Band 20 (832-862 MHz)	228 mW
UMTS Band 1 (1920-1980 MHz)	205 mW
UMTS Band 8 (880-915 MHz)	233 mW

MC400-1200M-B
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 and supply proper PoE output.
When this device is used with a Cradlepoint accessory power adapter rated 65W output, it can support 4 ports PoE up to 30W total power.
When this device is used with a Cradlepoint accessory power adapter rated 120W output, it can support 4 ports PoE up to 60W total power.

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.

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 AER2200 or AER2250 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, AER2200, AER2250, MC400, 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

Professional installation is required