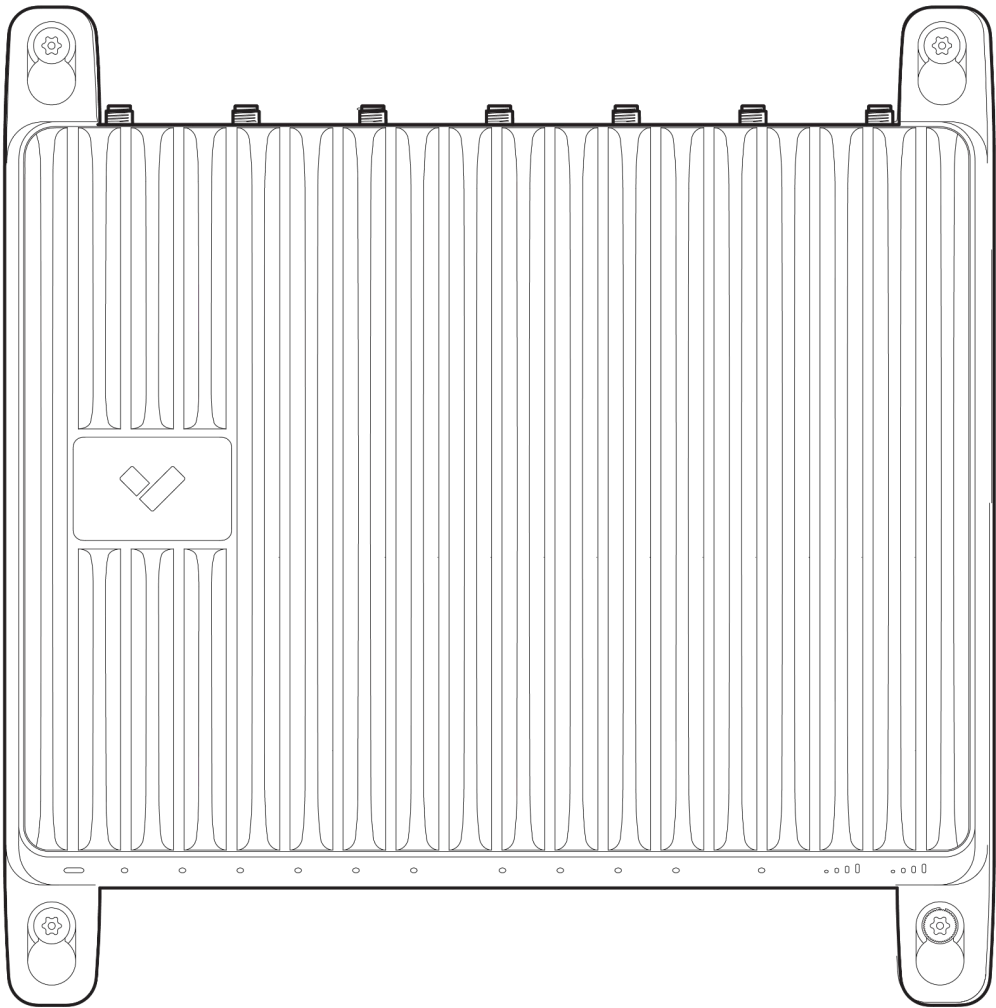


KGX61 Transportation Gateway



Document Details

Version

V1.0 20260914

(V1.0 published 20260914)

Firmware

Firmware version can be verified on Verkada

Command command.verkada.com.

Product Models

This install guide pertains to models:

- KGX61-HW

NOTE: This document contains preliminary specifications for prototypes of products currently in development. Verkada is not responsible for product installation. Professional installation is required. Improper installation may interfere with vehicle operation or passenger safety.

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[REFERENCE]

- Existing Verkada [GC31-E Install Guide](#)
- Existing Verkada [Bus Install Best Practices](#)

Competitor Guides

- [Samsara Vehicle Gateway Install Guide](#)
 - [Vehicle Installation Guide](#)
- [Safefleet / Seon Install Guide](#)
- [Vivotek](#)

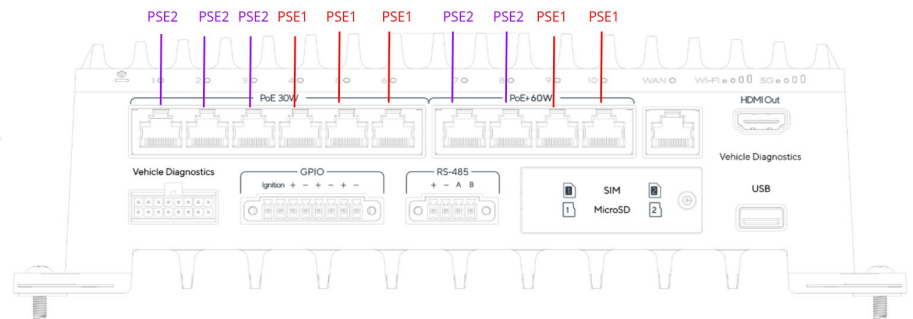
Draft from Product. Not a part
of the final Install Guide



Installation

Placeholder

DVT



To add:

1. PSE sequence:
 - a. Which PSE ports belong to the first group of 180W, which belong to the second group?
 - b. How do we guide customers to think about how to connect when there are multiple devices?
2. Grounding sequence?
 - a. DC in: Route the cable, connect to Rerun, then connect vehicle battery?
3. WiFi Power Table -> this will likely go to the compliance section
 - a. AP & Client mode will they share the same gain table?
4. I'm not sure if we should provide power table for 5G antenna too. We are selling the external antenna as an accessory and customers may want to BYO antenna
 - a. Double check Cradlepoint R1900's install guide
 - b. Use module's antenna power table
5. Recommended wiring diagram -> confirmed with Joey that this is ok. Cert lab only cares about whether our I/Os can crank out the corresponding current/voltage. We should specify what AWG wires for each section of wiring + what's the recommended fuse size as well. Will there be some differences in AWG for shorter vs longer wires?
 - a. What if user only wants to use 1 set of +/- instead of 2 sets
 - b. Check terminal block Amp rating
 - c. Can terminal block fit in AWG14 wires
 - d. Recommended fuse value? Installer to figure out whether it's in line fuse or to be connected to the fuse panel. It seems like we can only use fuse panel for fuse?
6. Will we allow user to bring their own SIM? Do we need to add the steps to open SIM door and insert SIM in?
7. Cable routing suggestions
 - a. Underneath the device (what should the sequence be if that's the case?)
 - b. Towards side of the device
8. Recommended spacing for cable strain relief
9. Software feature: limit 120W for 12V in, 240W for 24V



Joey Gomez 2:00 PM

replied to a thread: [Antenna requirements for FCC/IC/Japan/Korea, mostly WiFi band focused -...](#)

Japan & Korea - WiFi & LTE

- Requires all antennas used by the device to be listed
- My understanding is we will allow customers to use their own antenna, this would technically be a non-compliant install and we should work with legal on the appropriate language in our agreements about "off-brand" use

US/CAN - LTE

- B30 needs to be disabled for external vehicle mounted use case

Not a part of
all Guide

Contents

1 INTRODUCTION

- 1.1 What's Included
- 1.2 Overview
- 1.3 LED Behaviors
- 1.4 Wiring Diagram

2 Installation

- 2.1 Preparation
- 2.2 Enclosure Mounting
- 2.3 Wall Mounting
- 2.4 Power Option 1: Terminal Block
- 2.5 Power Option 2: V4P
- 2.6 POE Out
- 2.7 Antenna Setup
- 2.8 Backup SIM Card (Optional)
- 2.9 Vehicle Diagnostics
- 2.10 GPIO Integrations
- 2.11 RS-485
- 2.12 Grounding

3 Appendix

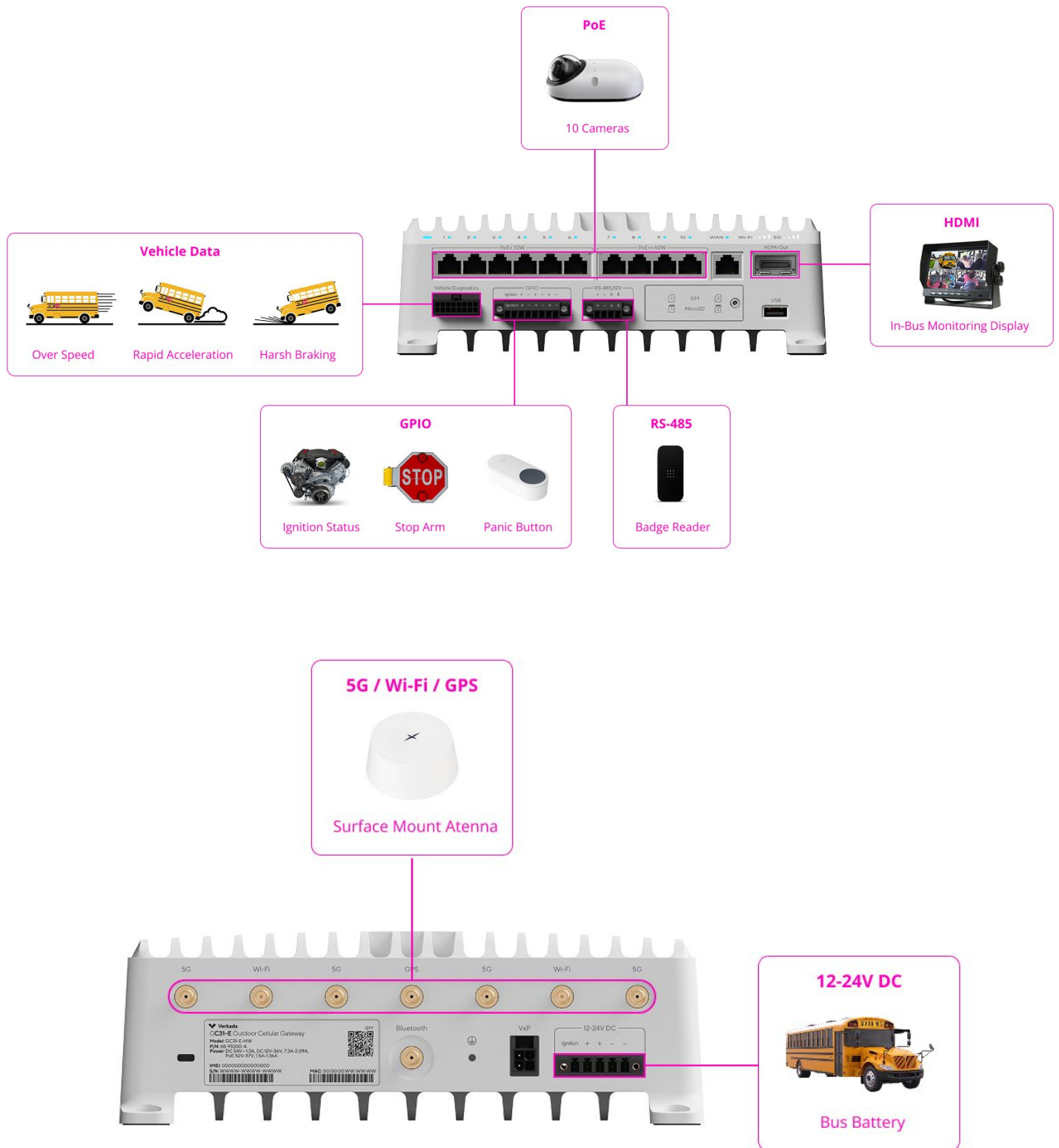
- 3.1 QR Codes

Draft from Product. Not a part of the final guide but need to figure out some way to include it.



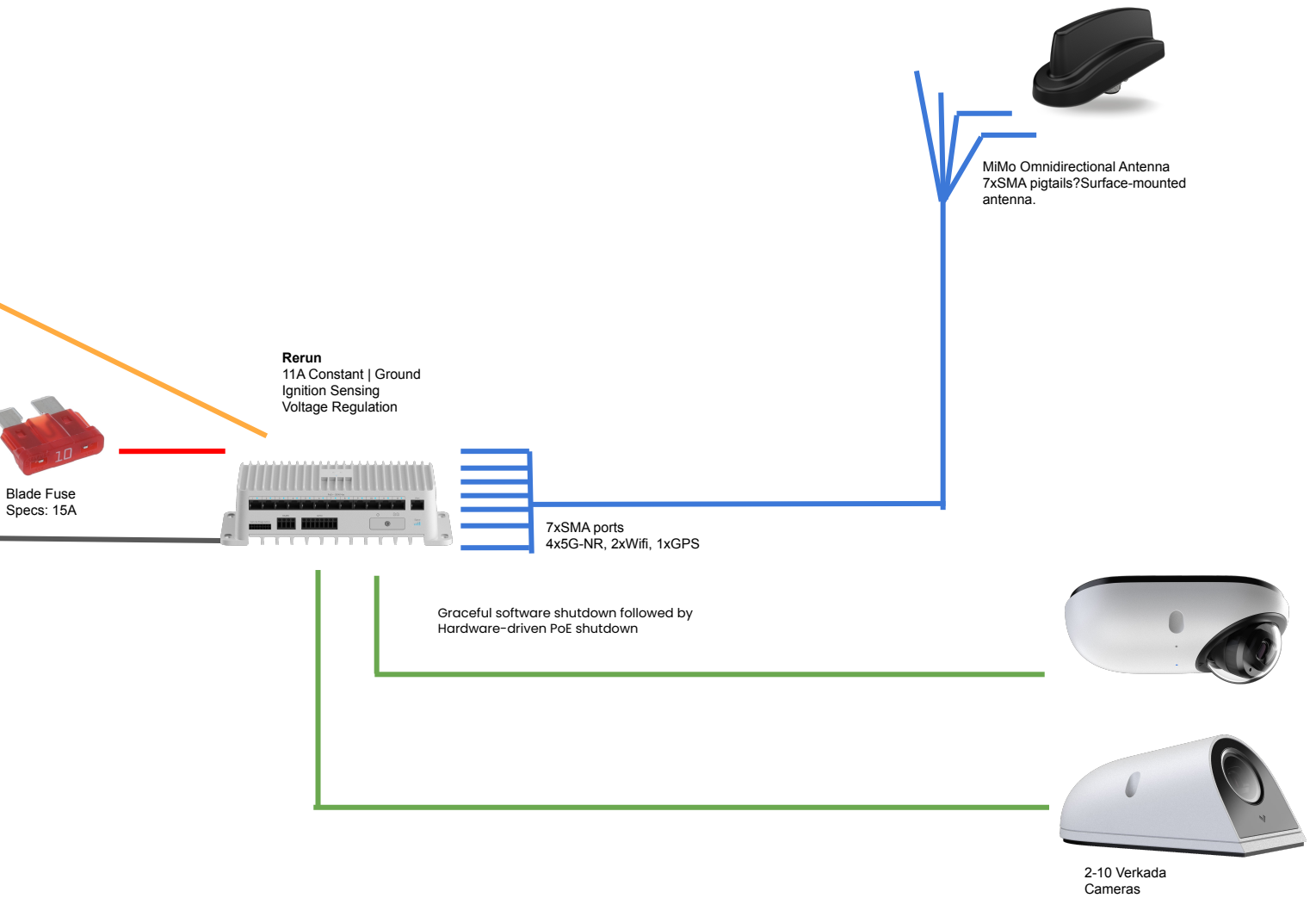
1 Introduction

1.2 Gateway Overview



1 Introduction

1.2 Wiring Diagram



* Included items can be found in the security trailer's NEMA enclosure

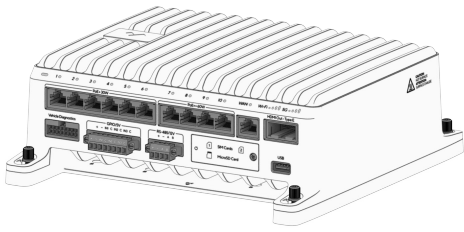
** Verkada devices - including cameras, gateways, and talk-down speakers - are purchased and ship separat

Draft from Product. Not a part
of the final guide but need to
figure out some way to
include it.

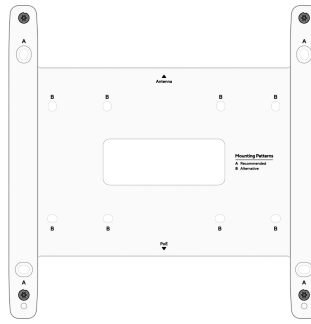


Introduction

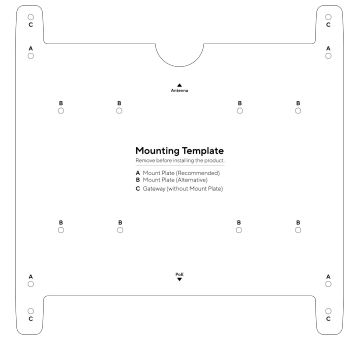
What's in the Box



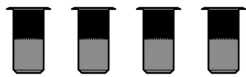
Transportation Gateway



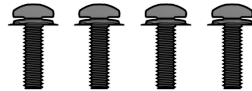
Wall mount



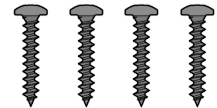
Mounting template



10-32 Rivet Nuts (4 pcs)
Length: 1.5" Grip Range: 1.0-3.3mm



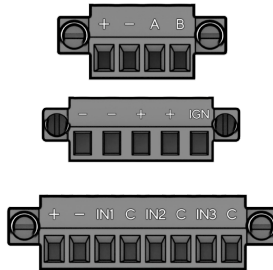
Machine Screws #10 (4 pcs)
Length: 1.5" Drive: #2 Phillips



Tapping Screws #10 (4 pcs)
Length: 1.5" Drive: #2 Phillips



T10 & T25 Torx Security L-Key



Terminal Blocks



Bluetooth Antenna

What you'll need

- A smartphone or laptop
- Electric Drill
 - 9/64" (3.5mm) - 5/32" (4mm) drill bit for mounting with pilot holes
 - 19/64" (7.5mm) drill bit for rivet nut for mounting on sheet metal
- #2 Phillips screwdriver bit
- SL2.0-head screwdriver
- Rivet Nut Tool for installing rivet nuts onto sheet metal
- 5/16" or 8 mm SMA Torque Wrench
- Four 16AWG cable for DC input
- 20AWG cable for ignition sensing wire

Connect

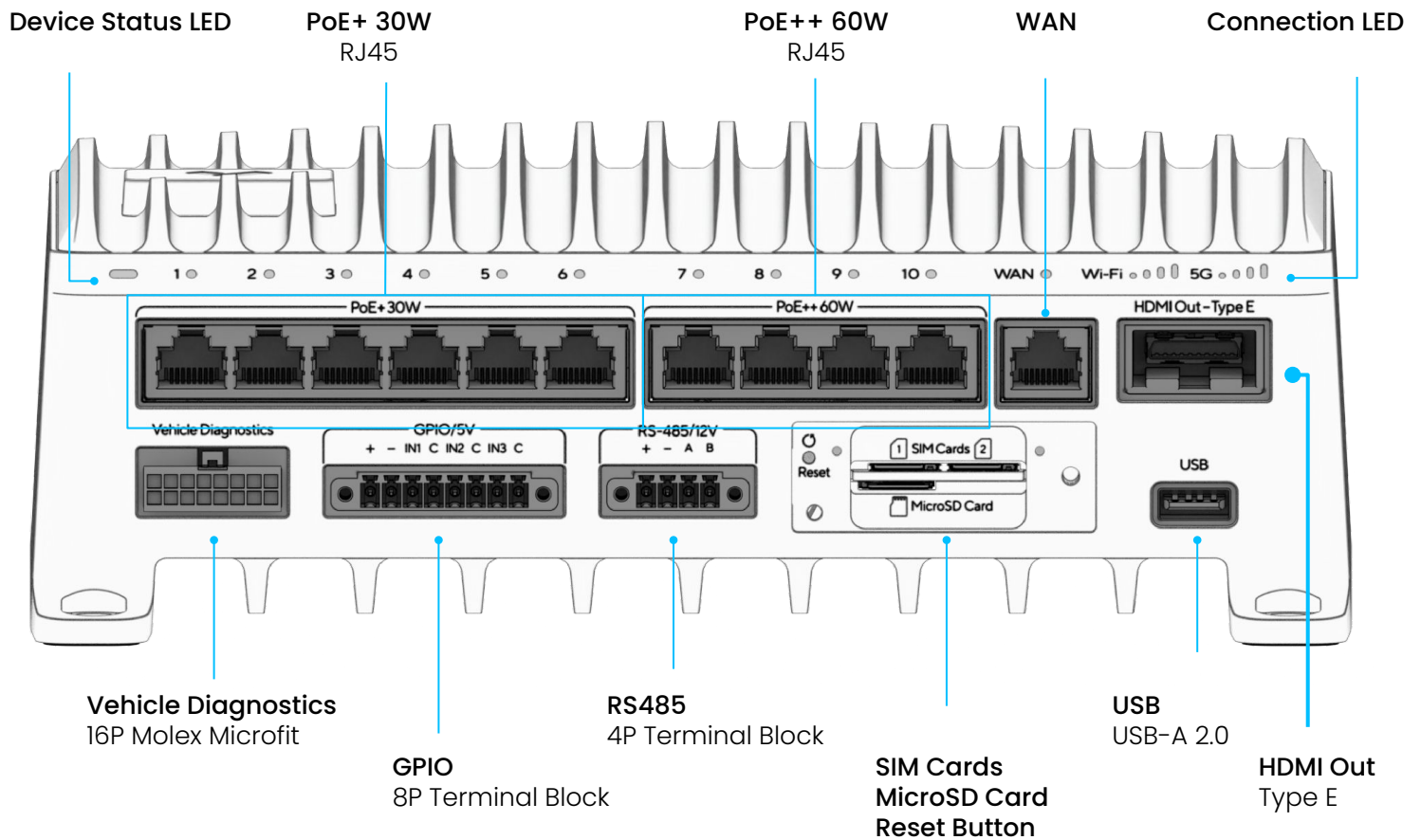
For easy registration and setup, scan the QR code on the product.

If you prefer to manually register your product, please proceed to:

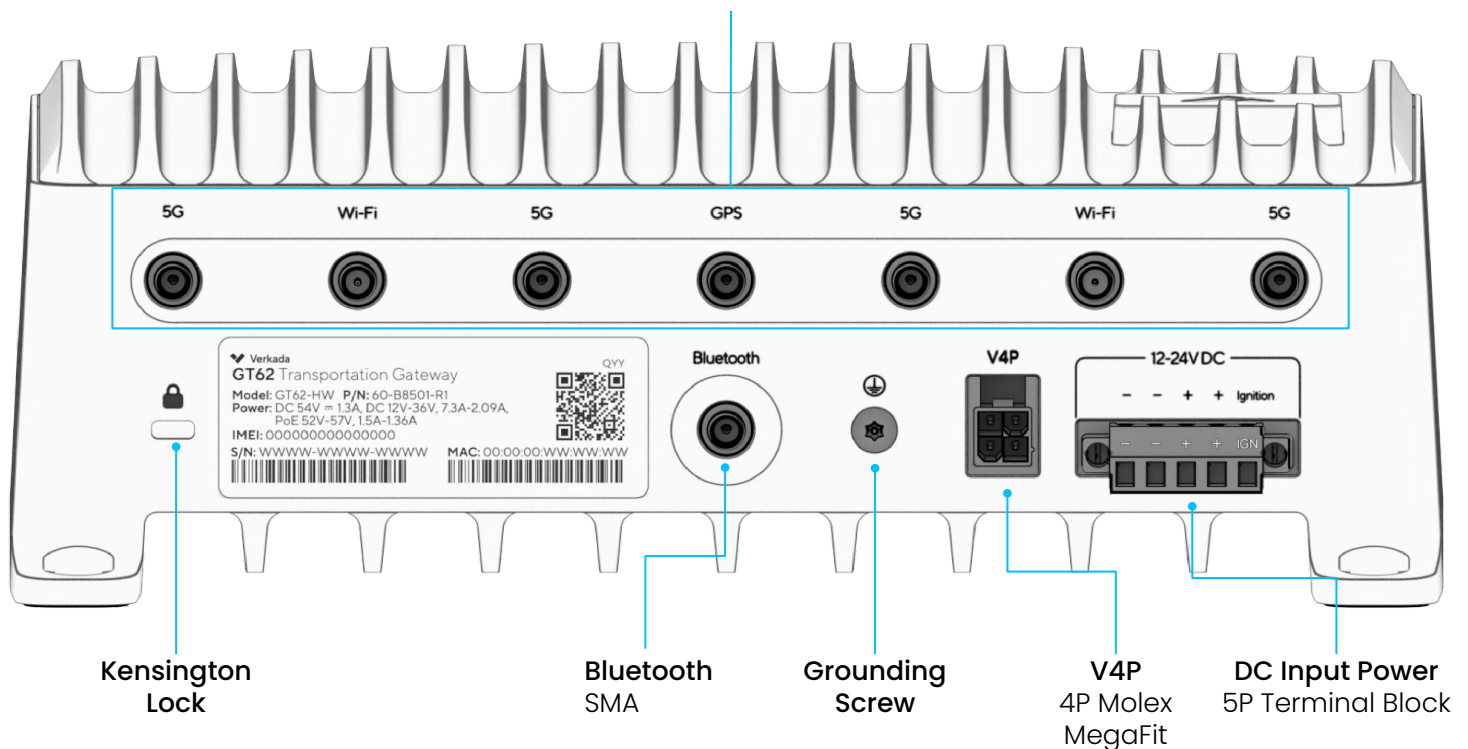
verkada.com/start

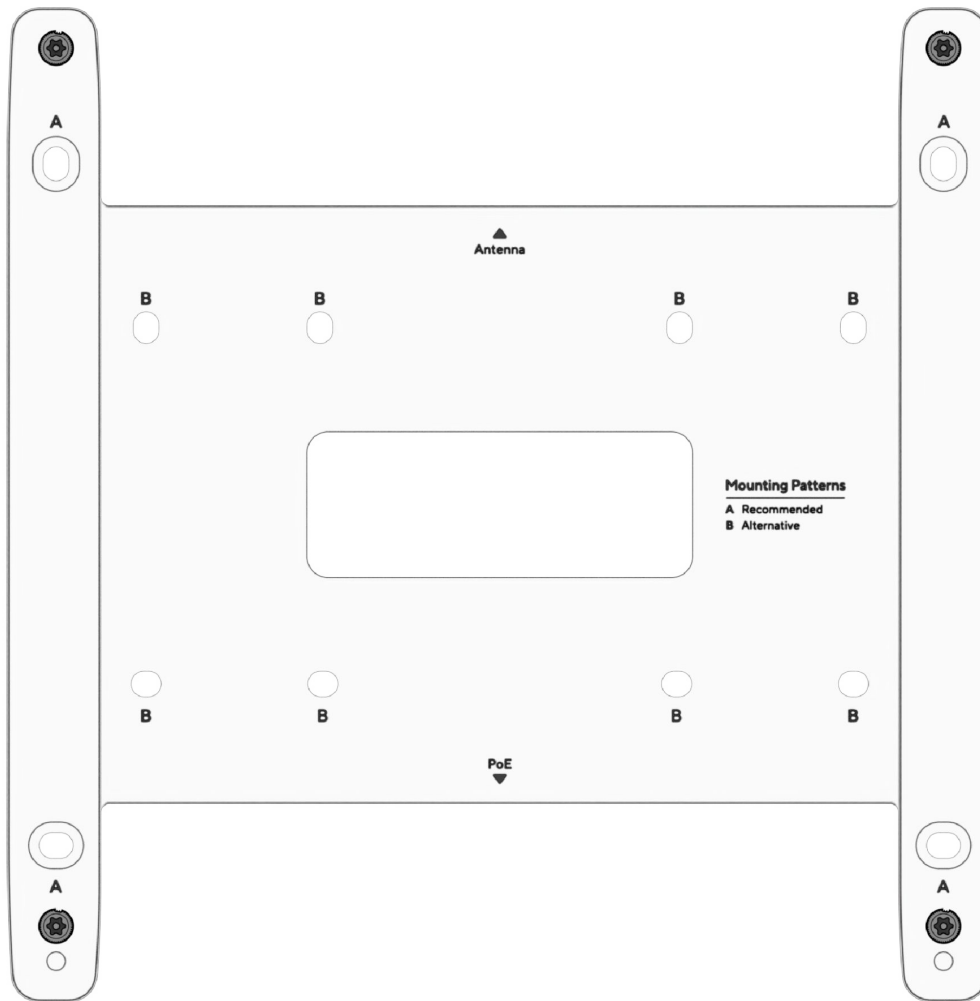


Introduction
Overview 1/2



Antenna SMA Connections

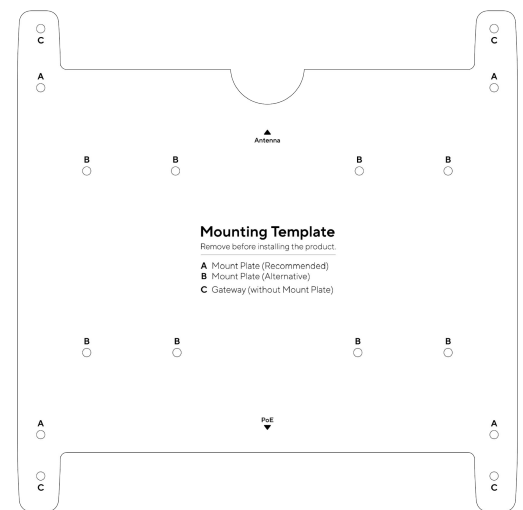




- A** Mount Plate (Recommended)
- B** Mount Plate (Alternative)
- C** Gateway (without Mount Plate)

Recommended to use Hole Pattern A, use Hole Pattern B if there are space constraints.

If mounting the device directly, use the Mount Template to mark the appropriate holes and remove before installing the device.



Mounting Template

Installation

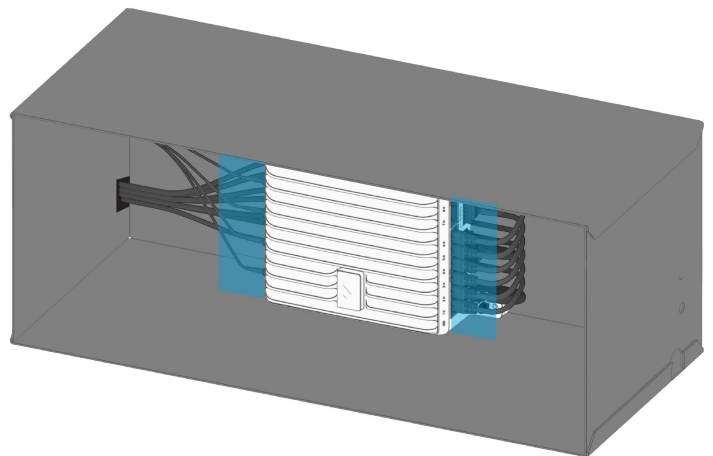
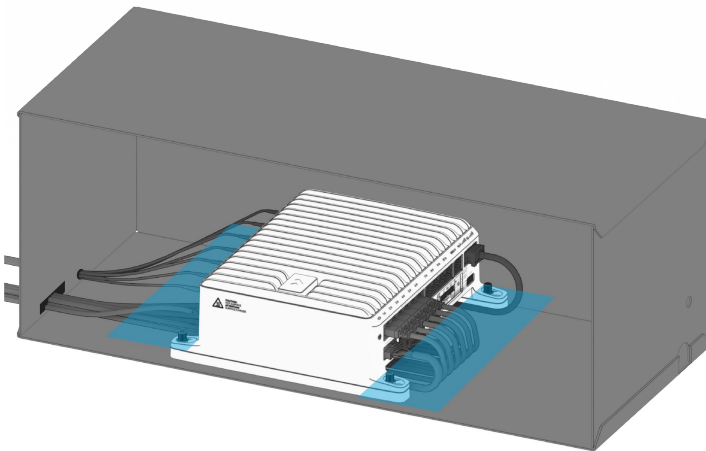
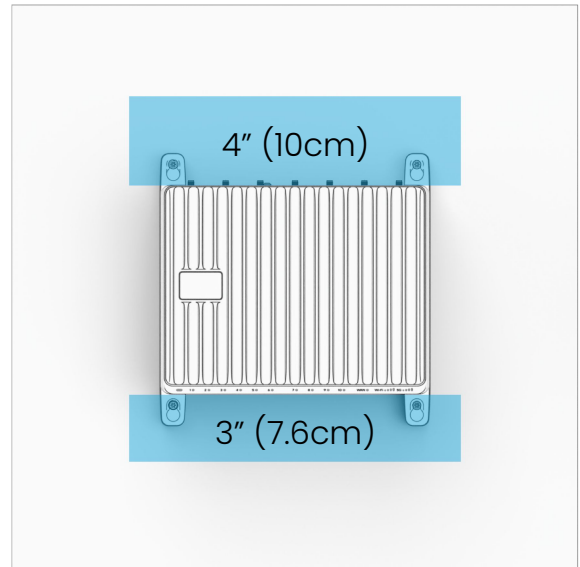
Mounting Positions

Requirement:

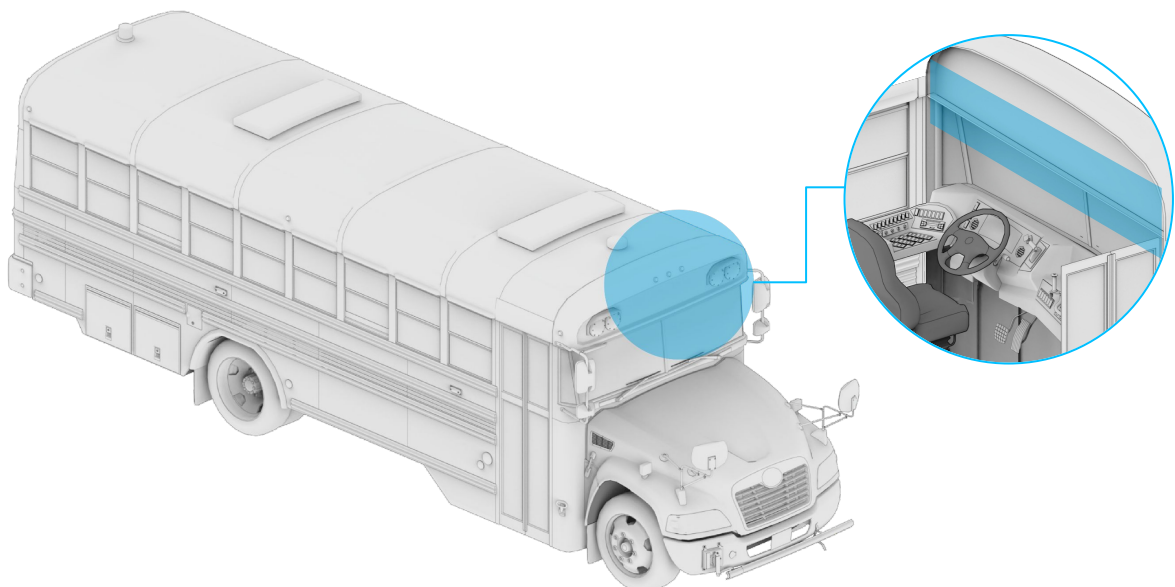
- Reserve 4" on the antenna side, and 3" on the PoE output side

Recommendations:

- In an enclosure with a door lock, and away from direct sunlight
- On a flat surface



Placement



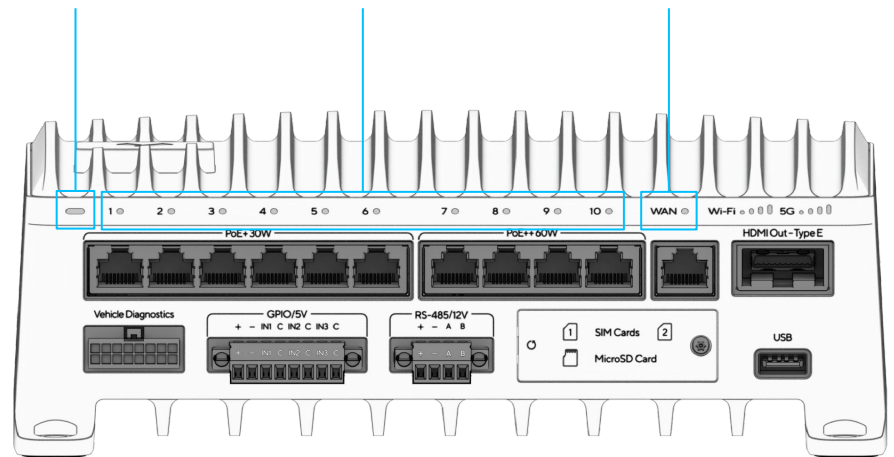
LED Behavior

Device Status LED

Output Device
Status LED

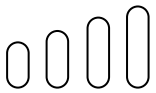
WAN LED

- **Solid Orange**
[EDIT] is on and booting up.
- ☀ **Flashing Orange**
[EDIT] is updating firmware.
- **Solid Blue**
[EDIT] is running and online.
- ☀ **Flashing Blue**
[EDIT] is running and offline.



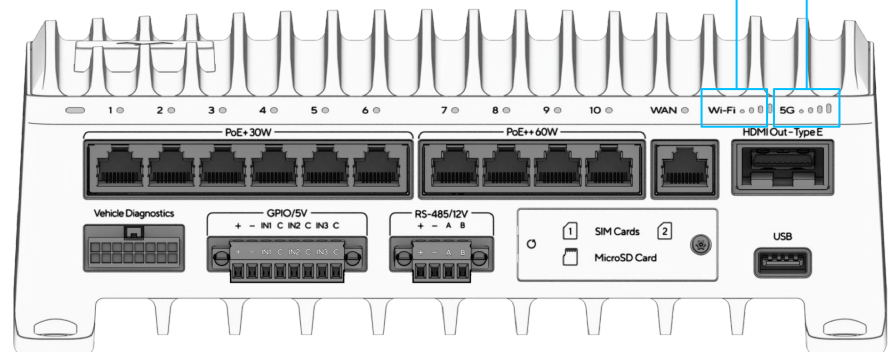
Signal Strength LED Behaviors

If all LEDs are lit, the connection is optional.



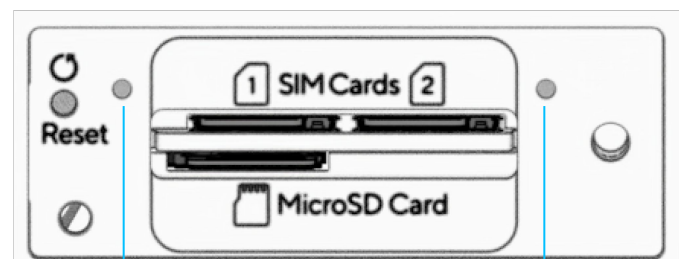
Fewer lights indicate a weaker signal. Try adjusting the antenna position for better signal strength.

5G Signal Strength
Wi-Fi Signal Strength



SIM Card LED Behaviors

- **Solid White**
SIM Card is detected.
- ☀ **Flash White**
SIM Card is detected and running.



SIM Card Status

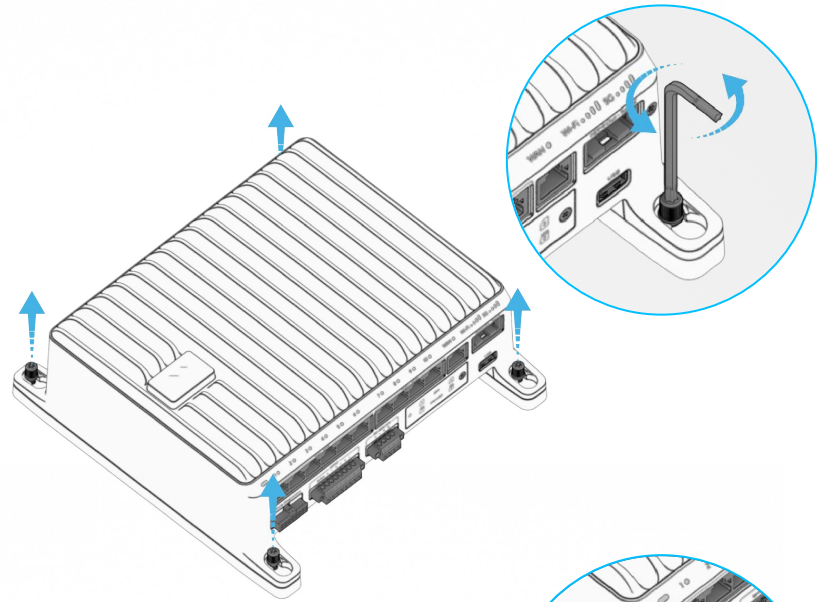
Technical Specifications

Power Draw	14W standby , 300W maximum (TBD)
Input Voltage	Terminal Block: 12V-24V, 180W-300W V4P: 48V-54V, 300W
Output Voltage	RS485: 12V/15W +/- 3% USB: 5V/2.5W, +/- 3% GPIO: 5V/2.5W, +/- 3%
PoE Output	A total of 10 x Ethernet ports with one additional WAN port 120W Scenario @ 12V/24V 70C environmental temperature: - Up to 2 x 802.3bt Type 3 devices (max 60W each) - Up to 4 x 802.3at devices (max 30W each) 240W Scenario @ 24V 50C environmental temperature: - Up to 4 x 802.3bt Type 3 devices (max 60W each) - Up to 8 x 802.3at devices (max 30W each)
RF connectivity	5G-NR - n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48 (CBRS), n66, n71, n76, n77, n78, n79 LTE Fallback - 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 (CBRS), B66, B71
I/O ports	PoE Out X10, WAN RJ45, RS485 Out, USB-A 2.0, Nano SIM Card x2, SD Card x 2, HDMI Type-E, GPIO terminal block, Vehicle Diagnostic port, DC in terminal port, V4P port, 5G, WiFi and BLE ANT.
LEDs	Status LEDs: RGB + Orange x1 Cell Signal Strength: White x4 WiFi Signal Strength: White x4 SIM indicator LEDs: Blue x 2 RJ45 status LEDs: RGB x11+ Orange x11
Operating Temp. & Humidity	-40°C to 70°C / -40°F to 158°F @ 120W power output -40°C to 50°C / -40°F to 122°F @ 240W power output 5-95% RH non-condensing
Dimension	238mm x 240mm x 78.8mm (9.37" x 9.45" x 3.10")
Weight	3.2kg (7.05lb)
Compliance	For hardware certification information, please visit verkada.com/compliance

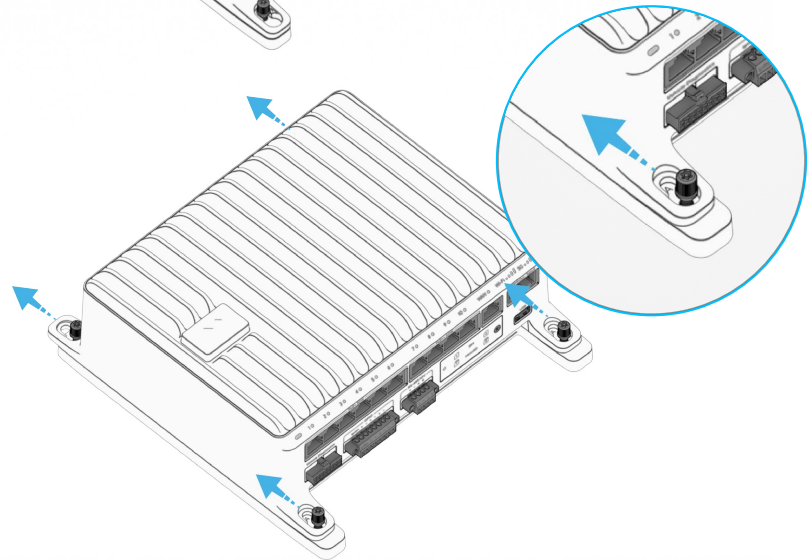
Installation

Preparation 1/2

Use the T25 Torx L-Key to unscrew the four captive screws on the Mount Plate.

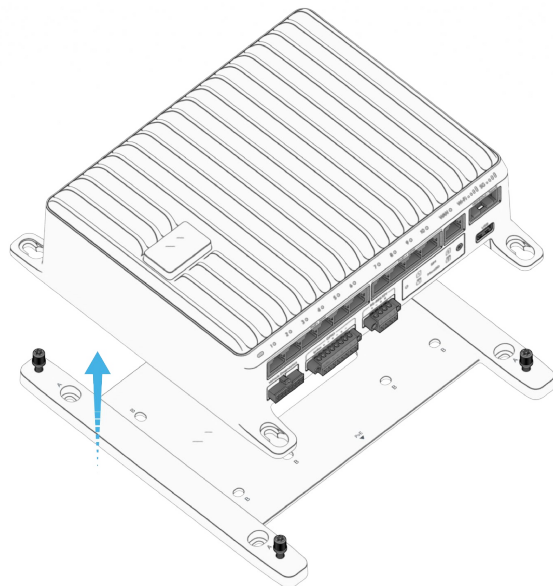


Slide up and out to separate Gateway and Mount Plate.



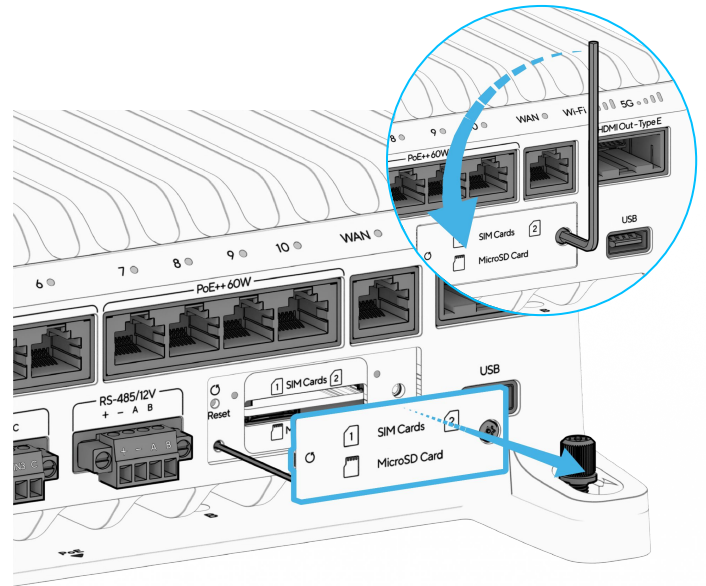
Lift the Gateway up to detach from the Mount Plate.

Set aside Mount Plate.

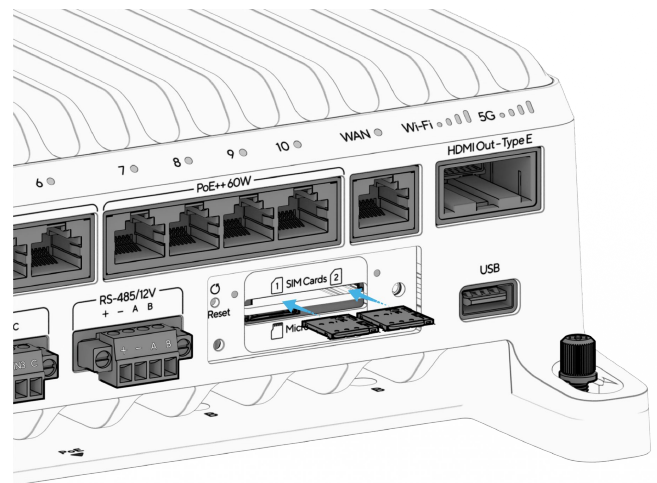


Preparation 2/2

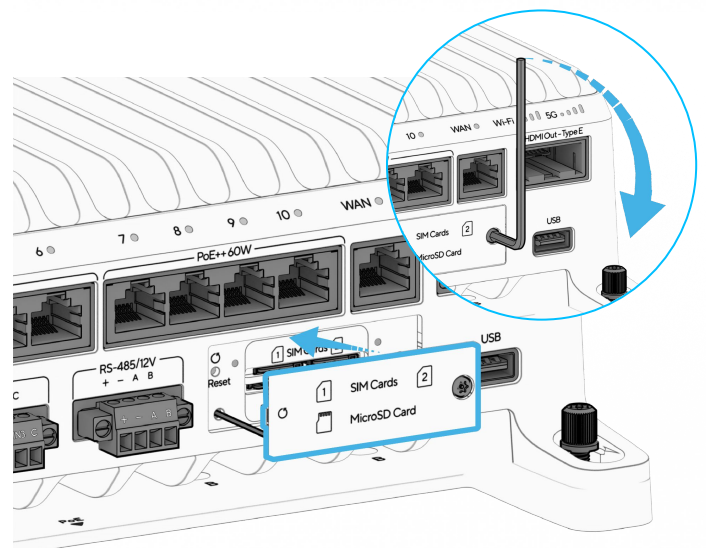
Loosen the Security Screw with the T10 L-Key to detach the door.



The Gateway contains an embedded e-SIM. You can optionally insert your own SIM card into one or both of the upper card slots.



Reattach the door by tightening the Security Screw with the T10 L-Key.

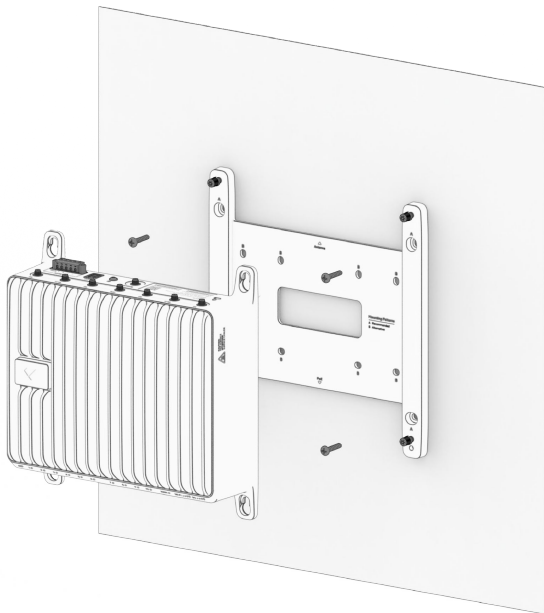


Mounting Overview

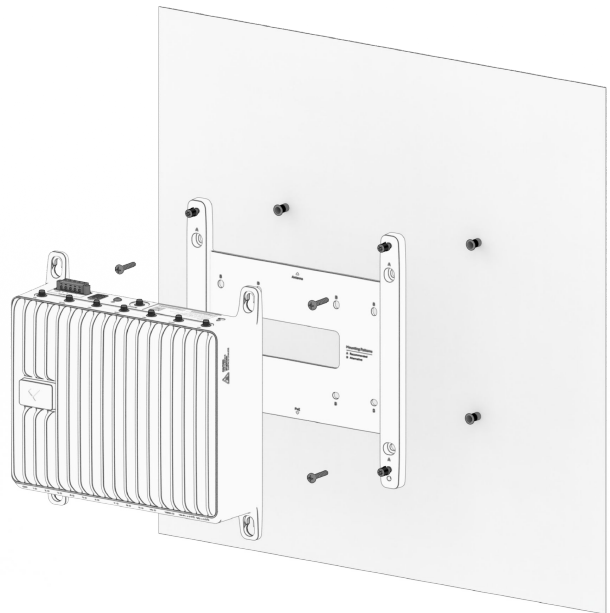
The process to install this device depends on the material and whether there is enough space to use Mount Plate. Installation with the Mount Plate is shown in the following pages. If omitting the Mount Plate, the installation is the same.

Pattern B is optional and not shown in this guide.

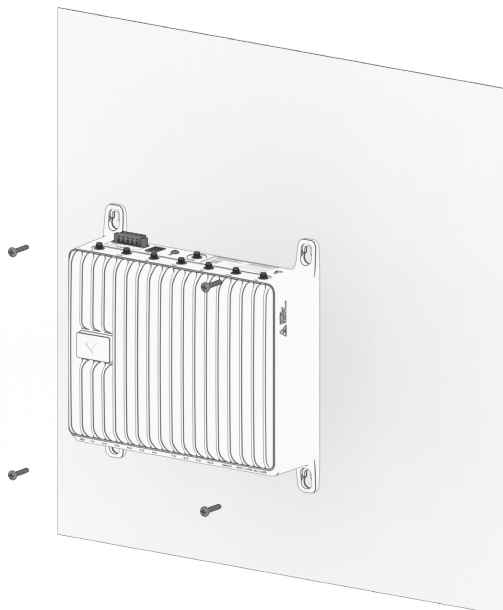
**Mounting Gateway on Wood -
With Mount Plate**



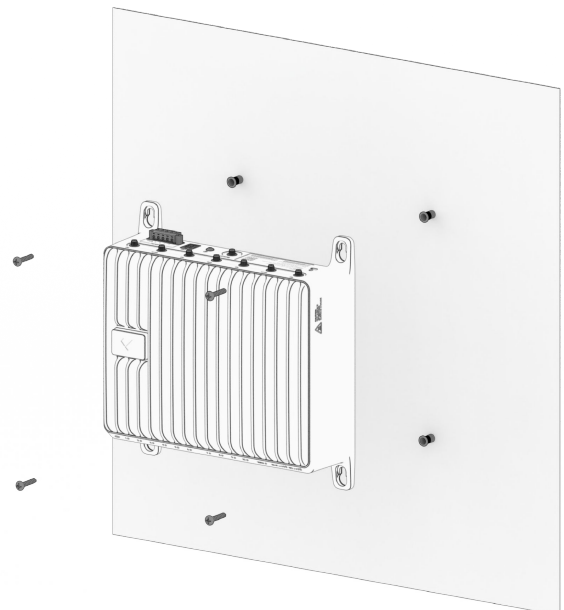
**Mounting Gateway on Metal -
With Mount Plate**



**Mounting Gateway on Wood -
Without Mount Plate**



**Mounting Gateway on Metal -
Without Mount Plate**



Installation

Mounting Gateway on Wood 1/2

Decide if using hole pattern **A**, **B** or **C** to mount Gateway.

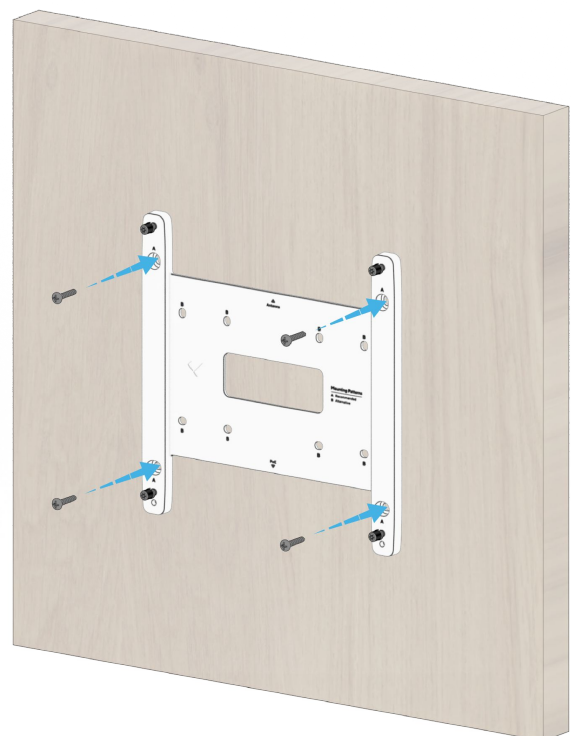
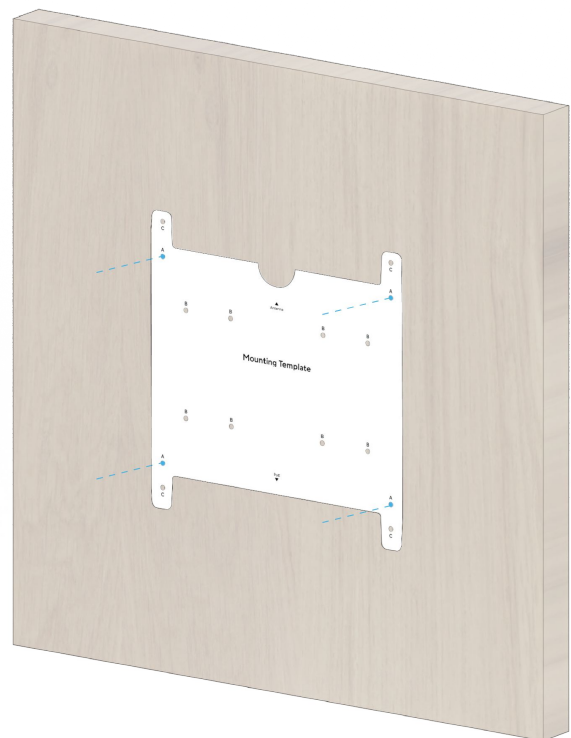
Use the provided template to mark the pilot holes.

Note: Pay attention to the correct installation orientation of the Rerun device, and align the template accordingly as indicated on the template instructions.

Drill pilot holes.

For a **wood** material, drill 9/64" (3.5mm) – 5/32" (4mm) pilot holes.

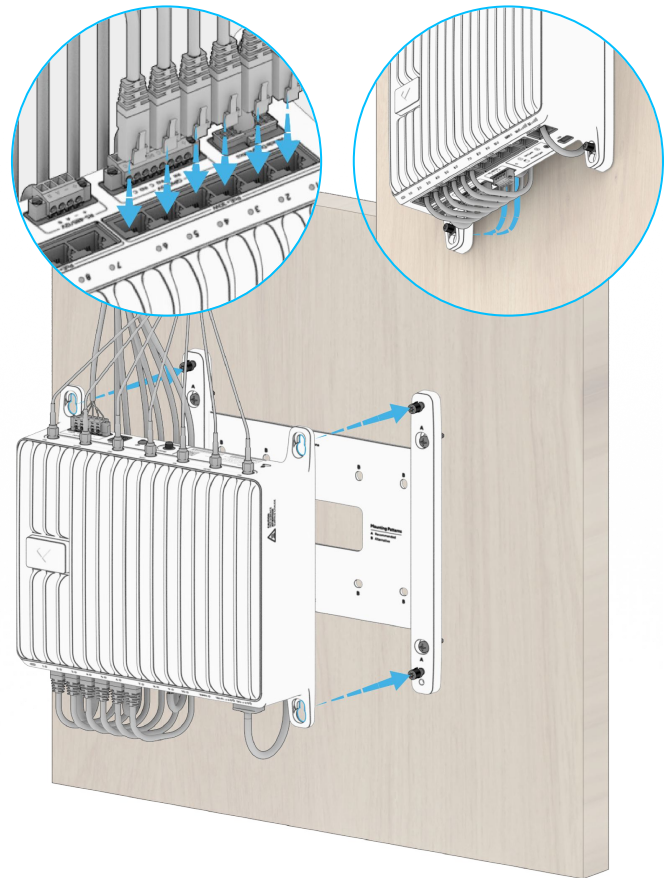
Secure the mounting plate by driving the tapping screws directly into the pilot holes.



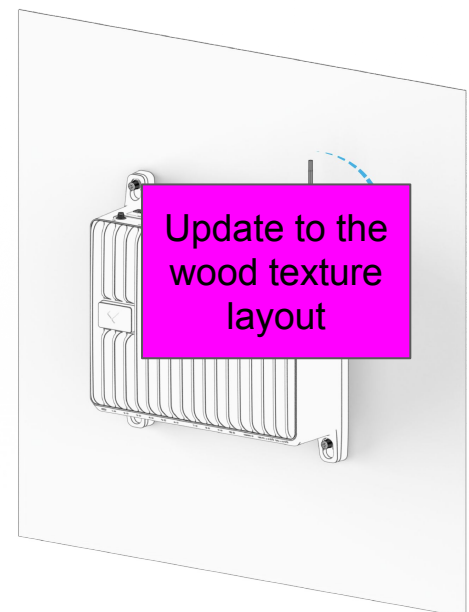
Mounting Gateway on Wood 2/2

Connect the cables through the Gateway.

Align the thumbscrews on the Mount Plate with the Gateway openings and slide upward. Make sure the wiring goes in between the Mount Plate and the Gateway.



Use the T25 L-key to secure all four of the Gateway to the Mount Plate.



Installation

Mounting Gateway on Sheet Metal 1/2

Decide if using hole pattern **A**, **B** or **C** to mount Gateway.

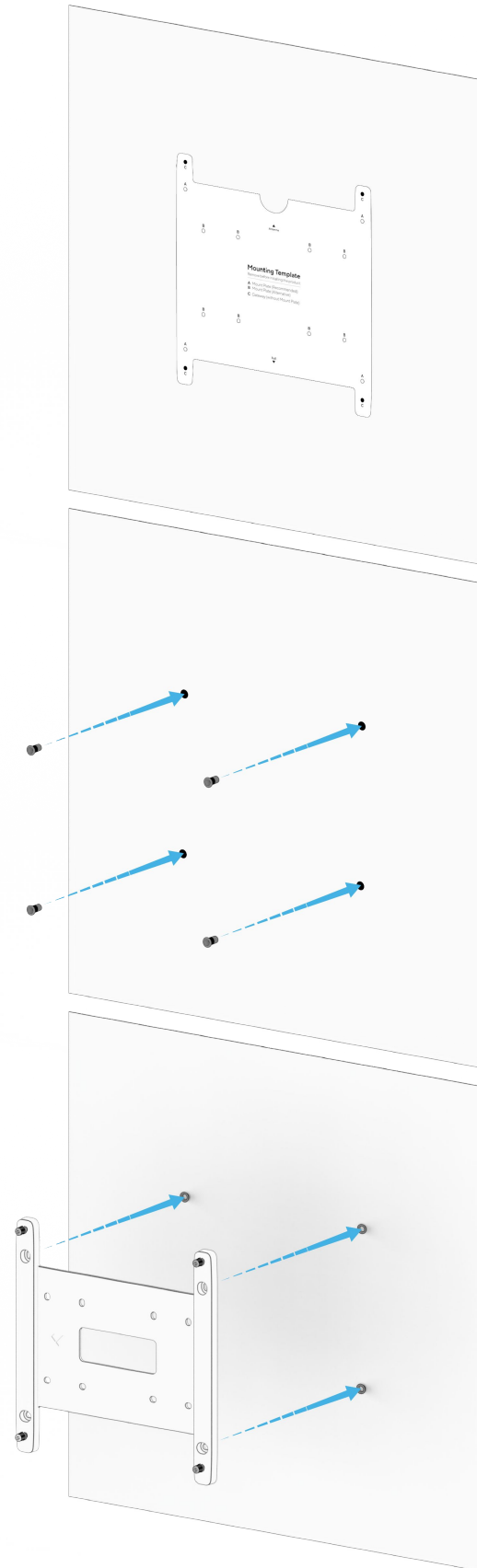
Use the provided template to mark the pilot holes.

Note: Pay attention to the correct installation orientation of the Rerun device, and align the template accordingly as indicated on the template instructions.

For **sheet metal** material, drill 19/64" (7.5mm) pilot holes. Drill pilot holes.

Strike the Rivet Nuts into the pilot holes.

Align the Mount Plate screws with the Rivet Nuts and secure.

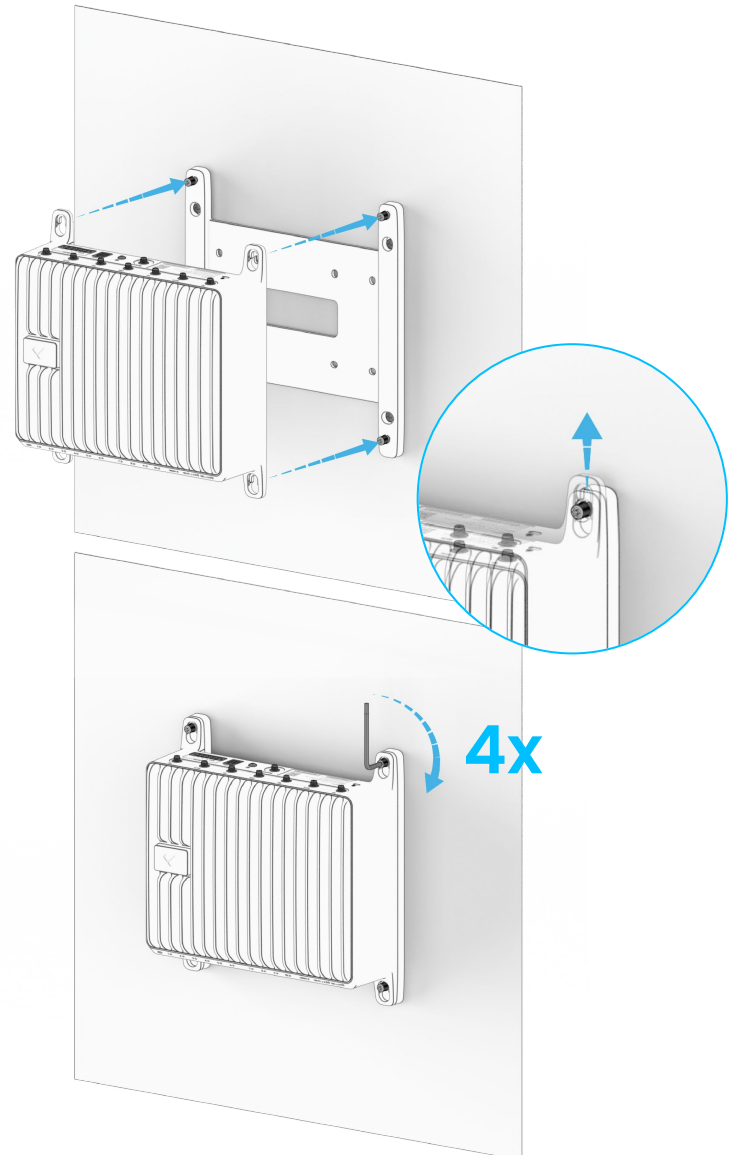


Mounting Gateway in Sheet Metal 2/2

Connect the cables through the Gateway.

Show connected
cables before putting
on the device

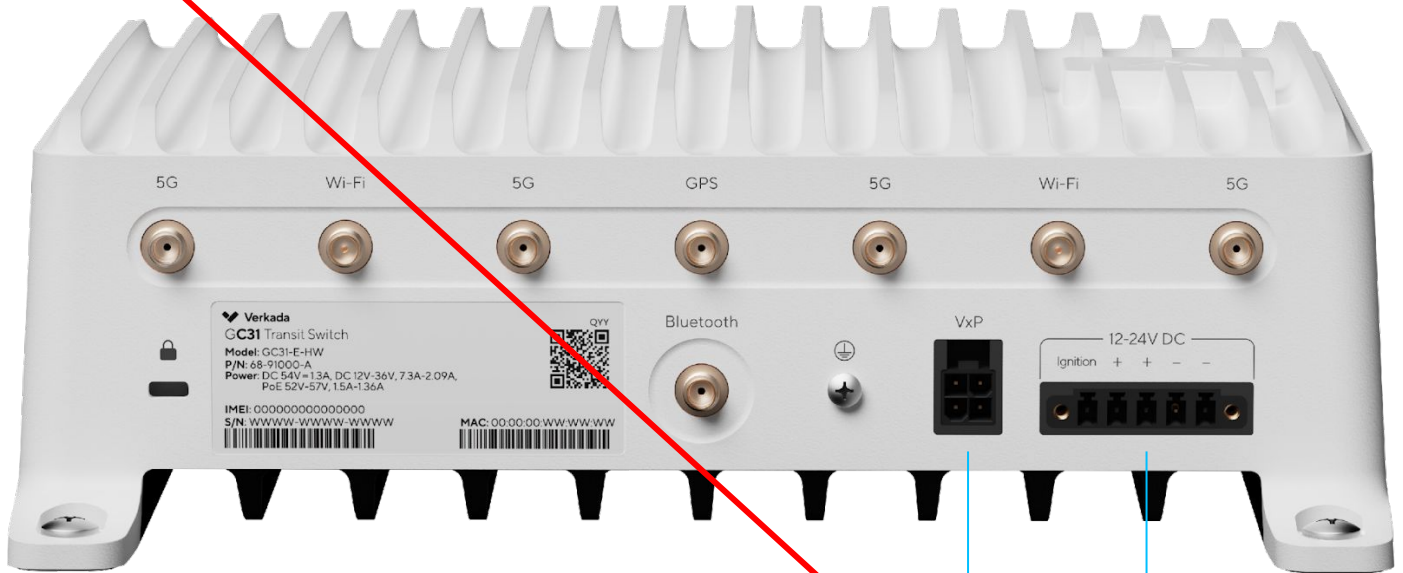
Align the thumbscrews on the Mount Plate
with the Gateway openings and slide
upward.



Use the T25 L-key to secure all four of the
Gateway to the Mount Plate.

Power Options

The KGX61 Transportation Gateway can be powered in two different ways. Select the appropriate power option for your install scenario.



V4P (54V DC)
Verkada Power Input

Terminal Block Power (12-24V DC)
Ignition/+ /+ /- /-

Installation

Connection

Power Option 1: Terminal Block Power (12-24V DC)

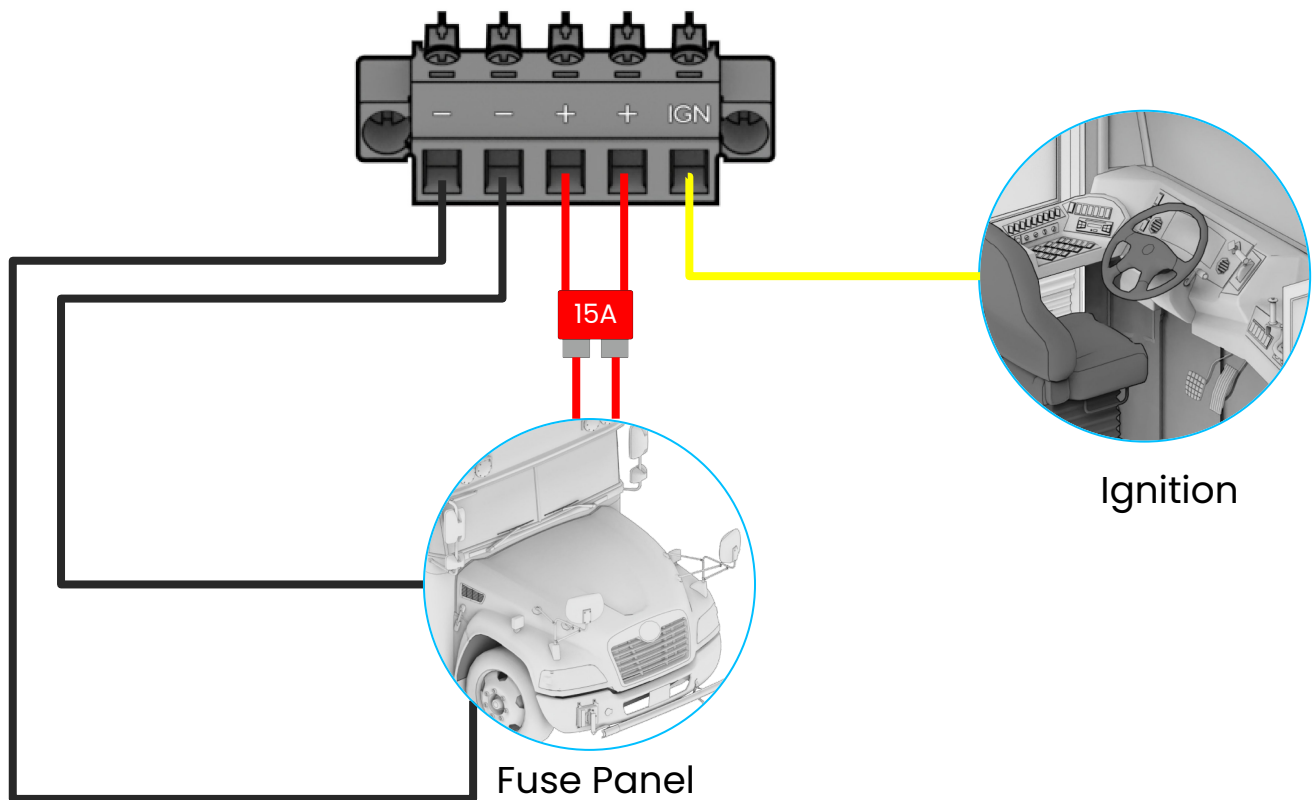
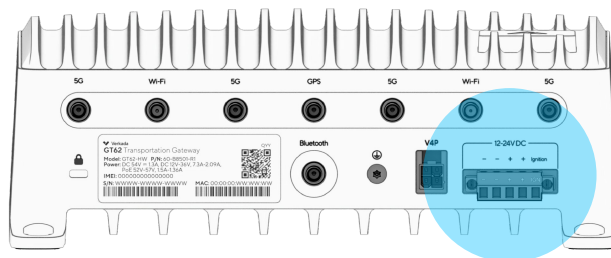
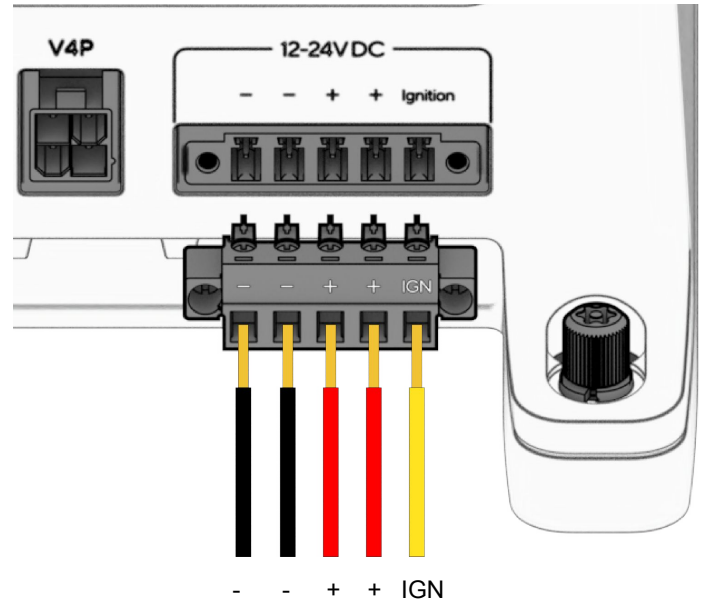
Use the terminal blocks shipped with the Transportation Gateway.

With the DC cables disconnected, plug the terminal plug end into the mating DC Power terminal block on the Panel.

Connect the terminal block to the device.

Cable thickness:

- Four 16AWG cable for DC input
- One 20AWG cable for ignition sensing wire



Installation

Antenna Installation

It's recommended to use Verkada Antenna.

Bluetooth Antenna

Use the Bluetooth antenna shipped with the KGX61. Attach the antenna to Bluetooth SMA connector.

All-in-1 Antenna

Connect the antenna cables by matching them to the color-coded labels on the connectors:

- 5G Antenna: Red
- Wi-Fi Antenna: Yellow
- GPS Antenna: Blue

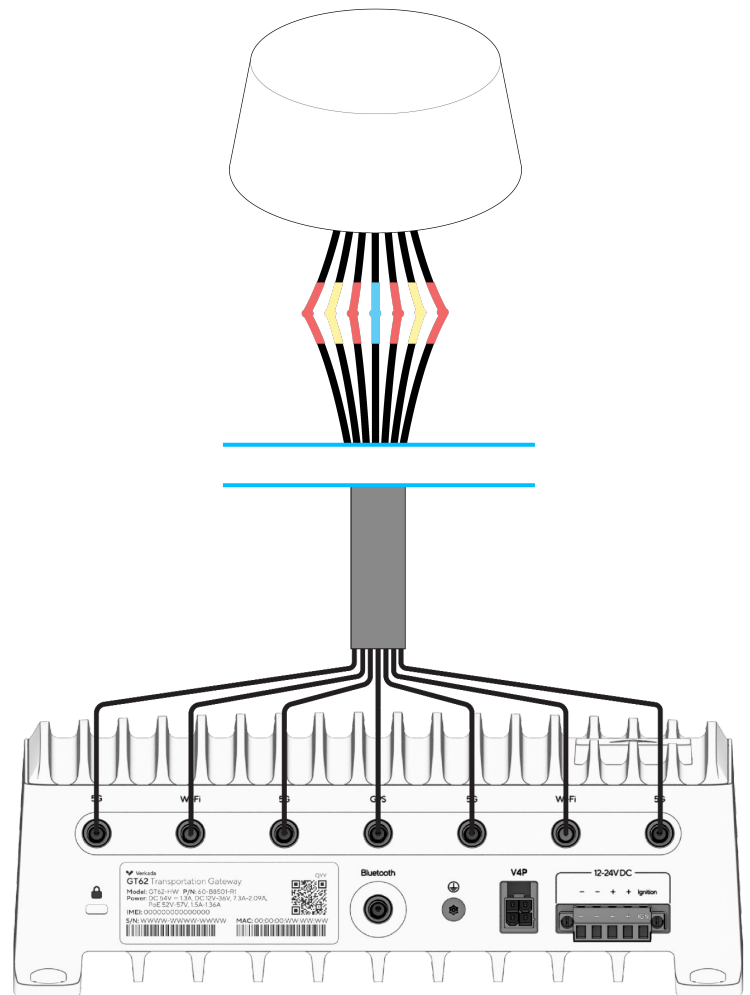
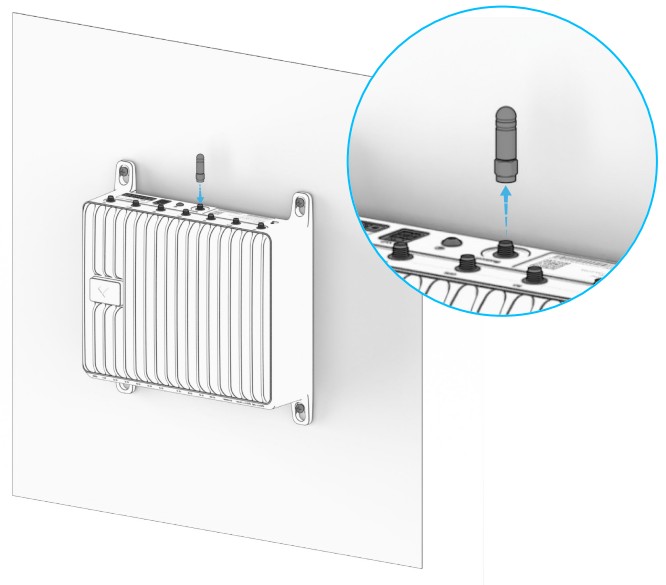
Refer to Verkada ACC-TSP-ANT-1 Install Guide for further installation process.

Third Party Antenna Requirements

Customers deploying third-party antennas must ensure full compliance with the following constraints:

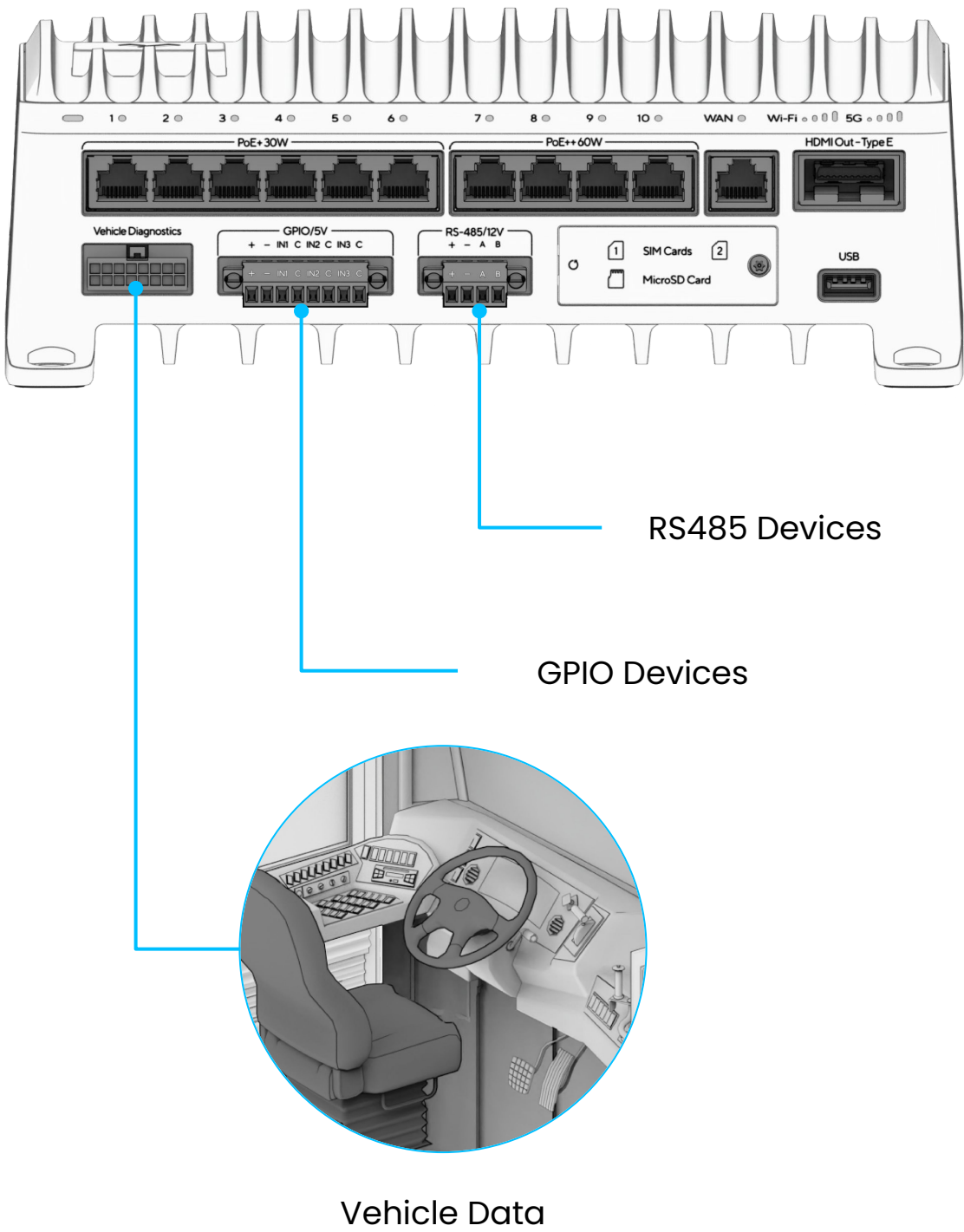
- Gain Specifications: The selected antenna must comply with the gain limits provided in the compliance section's power table. Failure to do so may void regulatory certifications
- Connector Compatibility: Verify that the antenna connectors match the device interfaces:
 - 5G / GPS: standard SMA.
 - Wi-Fi: RP-SMA

Note: It is recommended to use an SMA torque wrench to tighten all connectors to the proper torque specification.



Installation

Vehicle Diagnostic



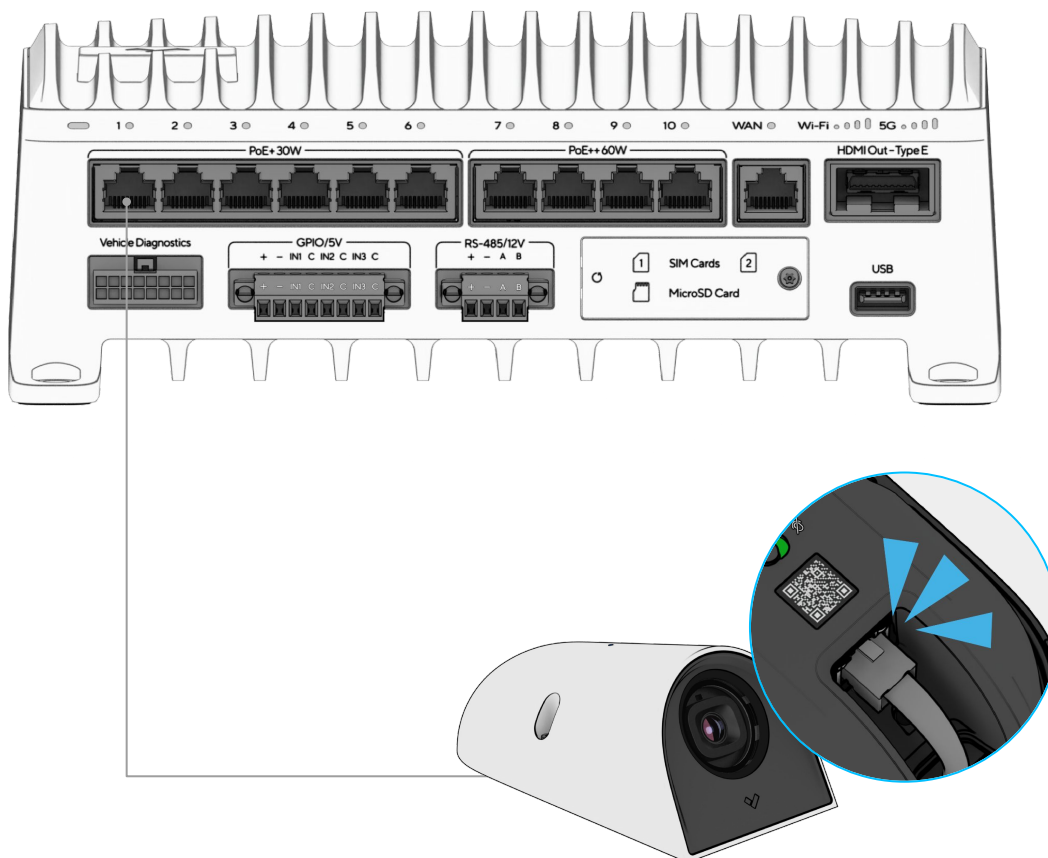
Installation

PoE Outputs (PoE 1-10)

- Total PoE Power Budget
 - 120W total @ 12-24V DC input
 - 240W total @ 54V DC input
- Per Port Wattage
 - Port 1~6:
 - Port 7~10:
- ~~Max Cable Length: ???m~~

Note:

- Be aware total PoE power budget will be limited at 120W once environment temperature exceed 50°C
- Highly recommended to dress the cables by zip tight and fixed cables to cabinet or chassis to avoid connect pins damaged from vibration.



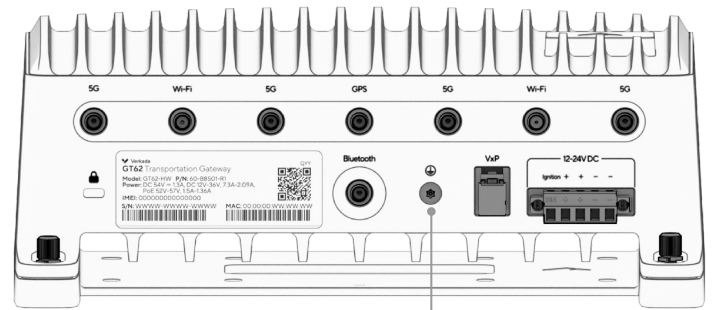
Installation

Grounding

In order to attach the ground cable to the gateway, perform the following:

Align a 20 AWG or larger grounding cable with a ring terminal and drive an 10-32 x 6mm screw through the terminal and into the threaded grounding point on the back of the device as shown on the right.

Attach the other terminal of a grounding cable directly to a circuit breaker, ground rod or earth ground.



**Grounding
Screw**

Local Server (Optional)

To configure your SIM card prior to establishing a connection, use the local server.

Connect the Gateway to a computer with an Ethernet cable.

Navigate to **192.168.1.1** on any internet browser, and follow the instructions on the page..

Once connected, you can configure the SIM card through **Verkada Command**.

The screenshot shows the configuration interface for a GC31E Outdoor Gateway. At the top, it displays the gateway name 'GC31E Outdoor Gateway' with an 'ONLINE' status and a 'Page available in 4:36' timer. Below this, it shows the S/N (XXXX-XXXX-XXXX), IP (www0: 100.100.100.100), and IMEI (XXXXXXXXXXXXXXXXXX). The main configuration area is divided into two sections: 'SIM Card 1' and 'SIM Card 2'. 'SIM Card 1' is currently active and set to 'T-Mobile'. It has radio buttons for 'Auto' (selected) and 'Manual'. Below these are four input fields: 'APN Name' (with a red asterisk), 'Username', 'Password' (with an eye icon), and 'PIN' (with an eye icon). 'SIM Card 2' is currently inactive and has radio buttons for 'Auto' (selected) and 'Manual'. It also has four input fields: 'APN Name' (with a red asterisk), 'Username', 'Password' (with an eye icon), and 'PIN' (with an eye icon). At the bottom right, there is a blue 'Apply' button.

Appendix

Compliance

Caution	1. Maintenance and repair work must always be carried out by qualified technical personnel. Disconnect power from the unit when performing a maintenance task. 2. Wiring methods used for the connection of the equipment to earth shall be in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part 1, CSA C22.1. 3. The product must be installed and protected in a location that is not easily accessible. 4. The device is only to be connected to PoE networks without routing to outside plants. 5. If powered by batteries on the vehicle, need to ensure the correct size fuses are installed
FCC Compliance	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. NOTE: 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. 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 20cm between the radiator & your body. Professional Installation: This device must be professionally installed. The intended use is generally not for the general public. It is generally for industry/commercial use. Installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance and other FCC rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Country Code selection feature is disabled for products marketed to the US/CANADA

ISED
Compliance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that can cause undesired operation of the device.

L'émetteur ou le 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 est susceptible d'en compromettre le fonctionnement.

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 20cm between the radiator & your body.

Déclaration d'exposition aux rayonnements d'IC : Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Detachable antenna:

- 1. 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;
- 2. 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;

Supported Antennas:
This radio transmitter [26271-68B8501] 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.

Le présent émetteur radio [26271-68B8501] 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.

Antenna Type	Connector	Antenna Gain (dBi)		
		2.4 GHz	5.15 GHz	5.85 GHz



Appendix

Support

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,
The Verkada Team
verkada.com/support



GC31 Antenna Mounting

Recommended Antennas

Surface-mounted antenna: [LGAM-BC3G-26-ISP \(Omni Directional Antenna\) with 3m SMA cable](#)

Magnetic mounted antenna: [LPGAMM-BG3G-26](#)

Review Antenna installation instructions – THEY ARE THE SOURCE OF TRUTH.

Best Practices

1. Find a good location to mount: This is one where you can drill into bus ceiling without other electric/hvac lines. AND where the roof surface side of the hold allows for a flat mount on the roof surface (See next slide photo)
2. Drill the hole: Drill a pilot hole and then enlarge to final size. Panorama antenna requires 19mm ($\frac{3}{4}$ " hole). Review Antenna installation instructions and remove all burrs when finished.
3. Fit the antenna: Remove protective backing from underside of antenna. Feed coaxial cables through panel. Position the antenna over the hole ensuring correct orientation and stick to panel by applying firm, even, downward pressure. When fitting the nut, it is important to ensure that the cables are held centrally whilst the nut is correctly started on the threads. The nut should fit freely by hand and only requires a final tighten by spanner to a recommended torque of 5Nm.
4. *Caulk the underside of the antenna* on the roof to ensure flush, waterproof mount
5. Connecting to GC31-E: Connect antenna coax to SMA adapters, connect adapters to GC31-E. Ensure the GC31-E antenna adapters are not in contact with any other cables that may cause interference.



GC31-E Antenna Mounting

Recommended Antennas

Surface-mounted antenna: [LGAM-BC3G-26-ISP \(Omni Directional Antenna\) with 3m SMA cable](#).

Magnetic mounted antenna: [LPGAMM-BG3G-26](#)

Review Antenna installation instructions - THEY ARE THE SOURCE OF TRUTH.

Best Practices

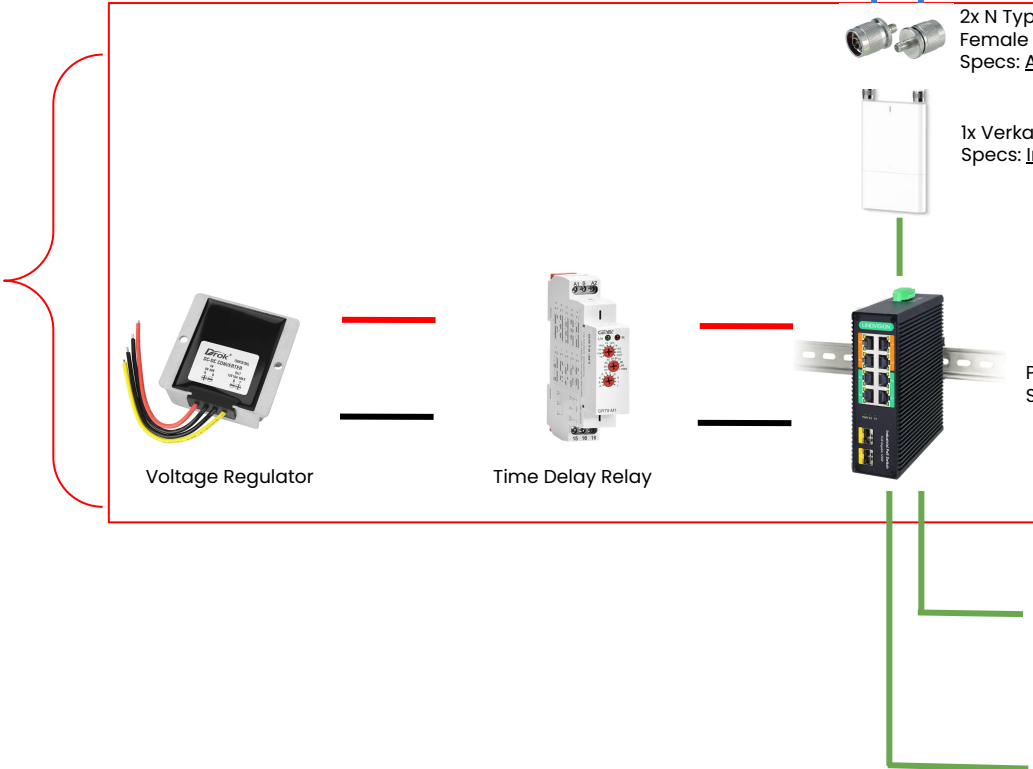
1. **Find a good location to mount.** This is one where you can drill into bus ceiling without other electric/hvac lines. AND where the roof surface side of the hold allows for a flat mount on the roof surface (See next slide photo)
2. **Drill the hole**
 - Drill a pilot hole and then enlarge to final size. Panorama antenna requires 19mm ($\frac{3}{4}$ " hole). Review Antenna installation instructions and remove all burrs when finished.
3. **Fit the antenna.** Remove protective backing from underside of antenna. Feed coaxial cables through panel. Position the antenna over the hole ensuring correct orientation and stick to panel by applying firm, even, downward pressure. When fitting the nut, it is important to ensure that the cables are held centrally whilst the nut is correctly started on the threads. The nut should fit freely by hand and only requires a final tighten by spanner to a recommended torque of 5Nm.
4. **Caulk the underside of the antenna** on the roof to ensure flush, water-proof mount
5. **Connecting to GC31-E.** Connect antenna coax to SMA adapters, connect adapters to GC31-E
 - Ensure the GC31-E antenna adapters are not in contact with any other cables that may cause interference.

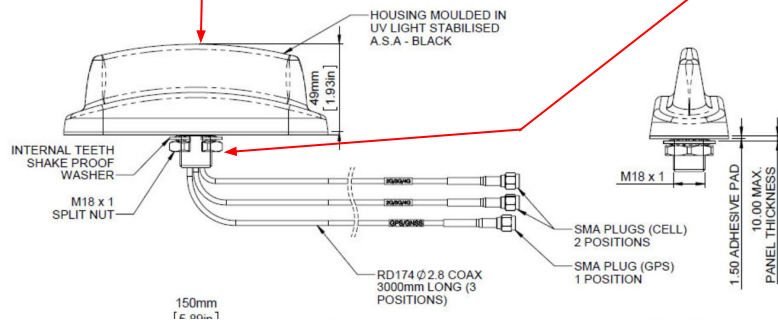
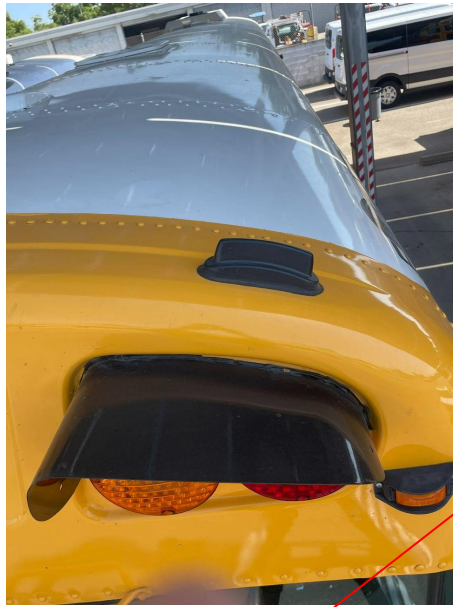
Connectivity + Switching
(Switch required for >2 cameras)

Mounted in Bus Cabinet



Mounted in Bus Cabinet





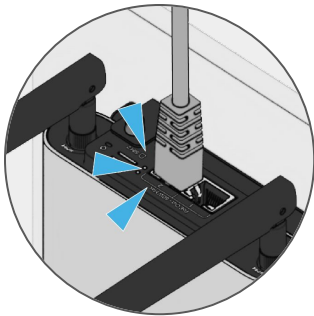
Interior of the antenna mount in the bus cubby. Requires drilling hole.

[DELETE BEFORE PUBLICATION] Document Assets

Signal	AWG	Conductor	Shielded	Max Length
Power (22 Gauge)	22	Yes	Yes	600 ft
Power (18 Gauge)	18	Yes	Yes	1500 ft

 **Warning**

Text that customer needs to see



● **QR Code**
Scan after connecting to power to register camera in Command.

Wall Screws (3 pcs)
Length: 25mm Diameter: 4mm
Drive: #2 Phillips

Cable Gland (1 pc)
Size: 5.0-6.5mm
(Attached to camera)

