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Entría Four Door Controller Installation



External Document

Created August 2026





The Entría Four Door Controller manages up to four Wiegand-connected doors. Cellular models can also support up to four CellGate external cameras. Installation includes mounting the enclosure, connecting transformer power and ground, wiring relays and inputs, connecting Wiegand devices, and verifying system operation.

Safety and Compliance

- Turn OFF all power before starting installation.
- Follow local electrical codes.
- Verify voltage, polarity, and terminal connections before applying power.
- Do not adjust factory wiring or expansion-board jumpers unless replacing a component or instructed by CellGate Technical Support.

Tools and Materials Required

- Wire strippers
- Flat-head and Phillips screwdrivers or power drill
- Hammer and appropriate eye protection
- Multimeter
- 18 AWG power wire
- Conduit and approved waterproof sealant
- Level

Note: Complete and verify all wiring before connecting the transformer to AC power.



Items Included

Cellular Configuration

- Entría NEMA-rated enclosure
- Entría Controller
- 5-port Ethernet switch
- CPT DC/DC converter
- D-Tech Serial-to-RS485 converter
- Four expansion boards
- InHand cellular router
- AT&T and Verizon SIM cards
- 24V AC power supply
- SMP5 power conversion board
- AC relay switch
- Four mounting feet
- Four M5 × 0.8 × 12 mm screws

Ethernet Configuration

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- Entría Controller
- 5-port Ethernet switch
- CPT DC/DC converter
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Operating Temperatures

-20° to 70° C

-4° to 158° F



Instructions:

1. Confirm the Unit Type

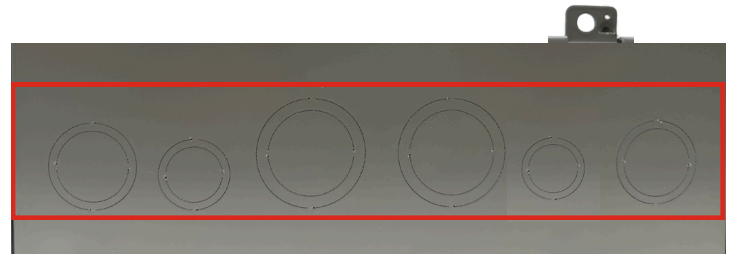
- Identify whether the controller is Cellular or Ethernet (ETH).
- Confirm the enclosure and included components are not damaged.
- Cellular units include an InHand router with AT&T and Verizon SIM cards and support up to four external cameras.
- ETH units require customer-provided Ethernet service and do not support external cameras at this time.

2. Choose the Installation Location

- Select a secure location with enough space to fully open and service the enclosure.
- Use a flat, strong mounting surface.
- Plan access for transformer power, grounding, relay wiring, input wiring, Wiegand wiring, Ethernet, and camera wiring as applicable.

3. Prepare the Cable Entry

- Identify only the punchouts needed for the installation.
- Wear eye protection.
- Place a flat-head screwdriver against the edge of the selected punchout.
- Carefully tap the screwdriver with a hammer until the punchout separates.
- Remove loose material and debris from inside before routing cables.



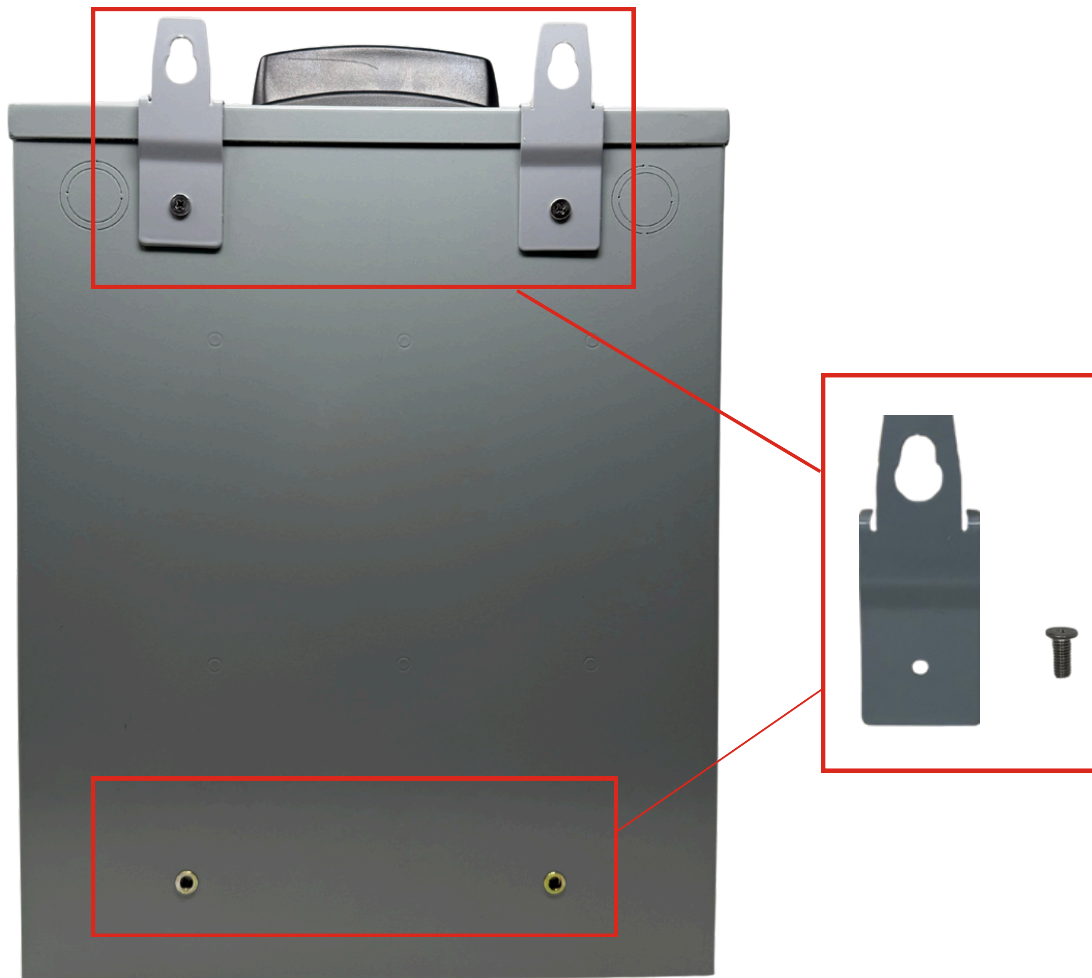
Device Bottom

Note: For outdoor installations, after the conduit and wiring are installed, seal all used punchouts with silicone or a similar waterproof sealant.



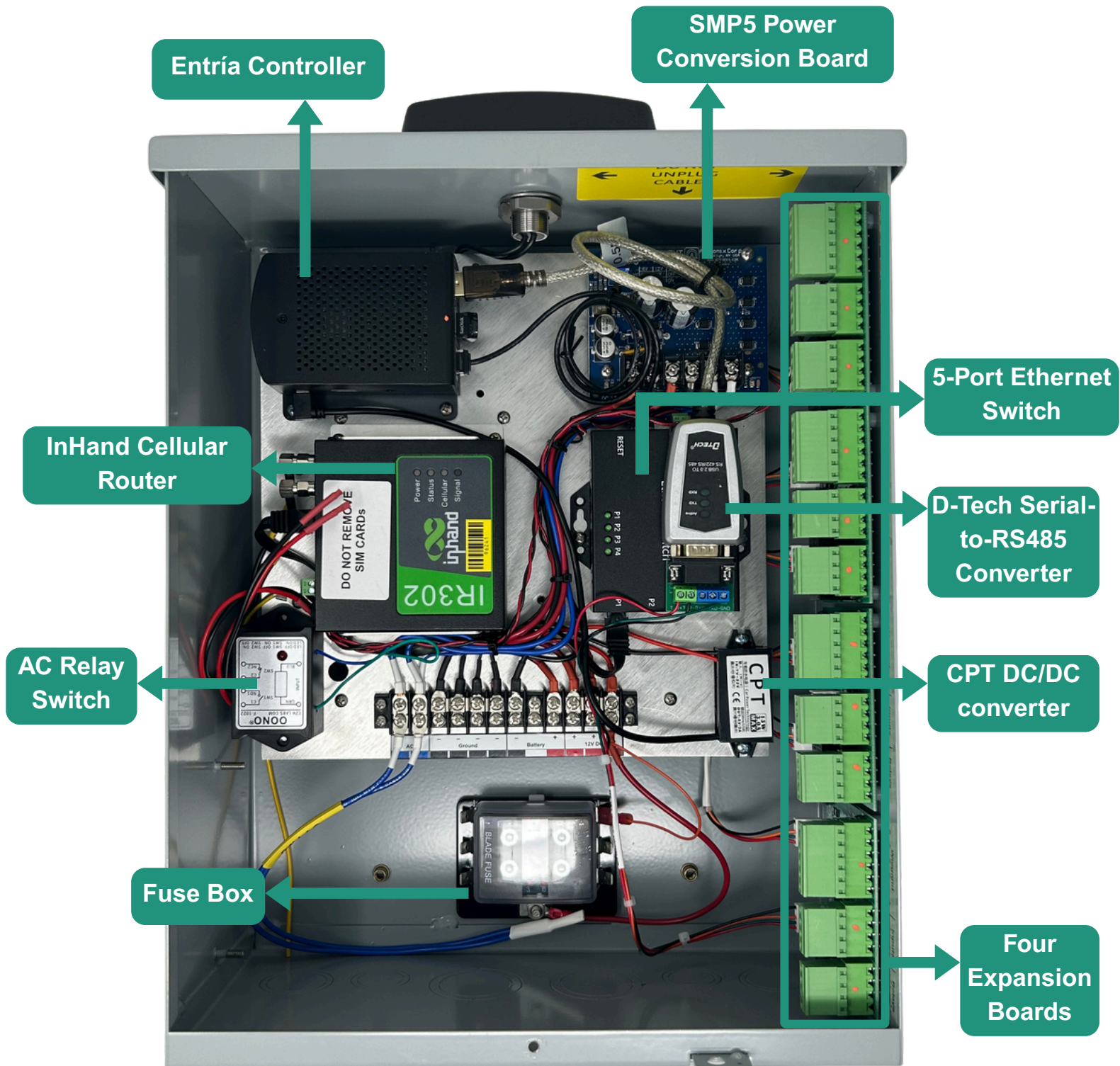
4. Mount the Enclosure

- Attach all four provided mounting feet to the rivets on the back of the enclosure.
- Use the two upper mounting feet to hang the enclosure.
- Level the enclosure and tighten the upper mounting points.
- Secure the two lower mounting feet.
- Confirm the enclosure is stable and can open fully.





Cellular Device





Ethernet Device

SMP5 Power Conversion Board

Enríia Controller

D-Tech Serial-to-RS485 Converter

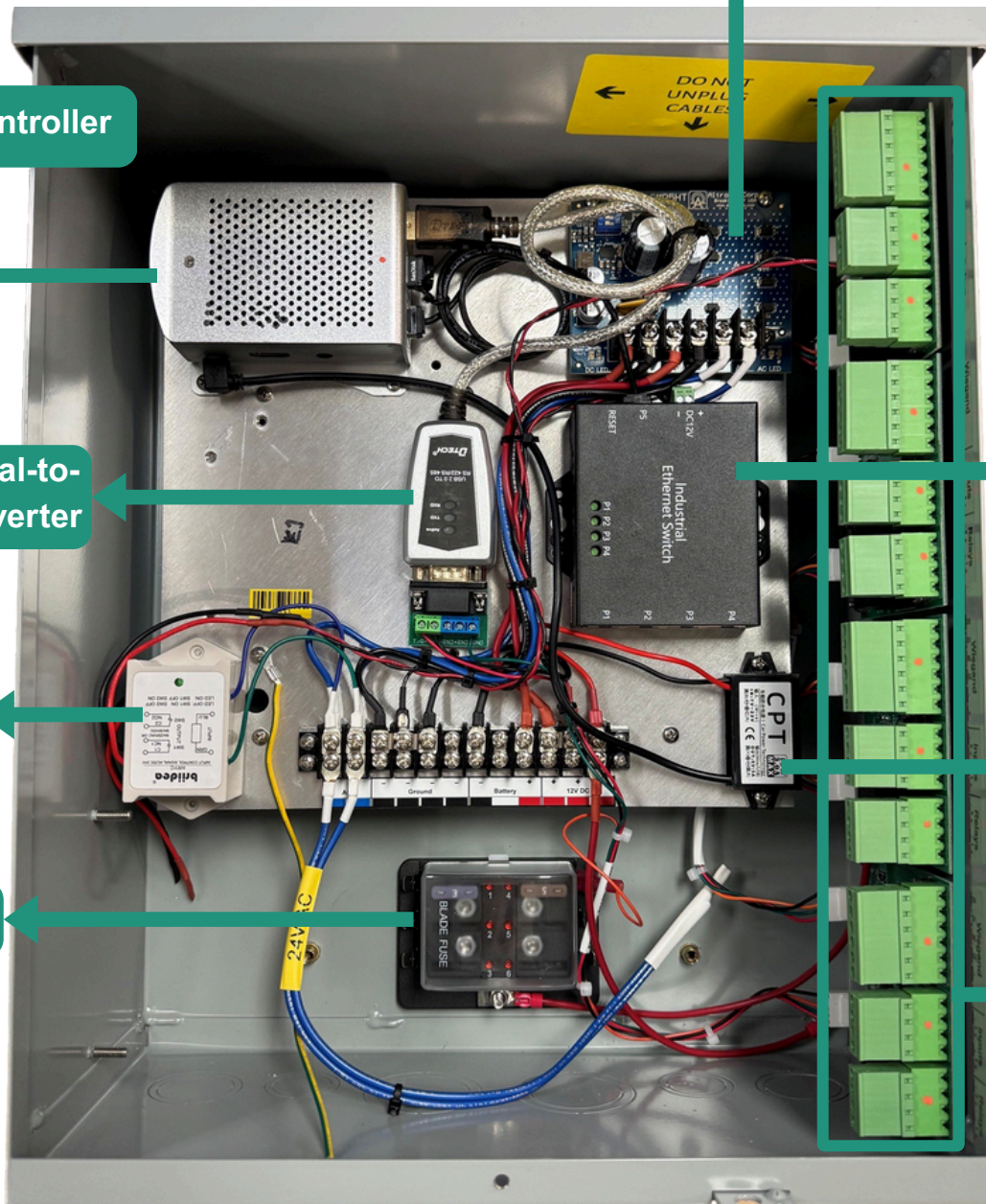
AC Relay Switch

Fuse Box

5-Port Ethernet Switch

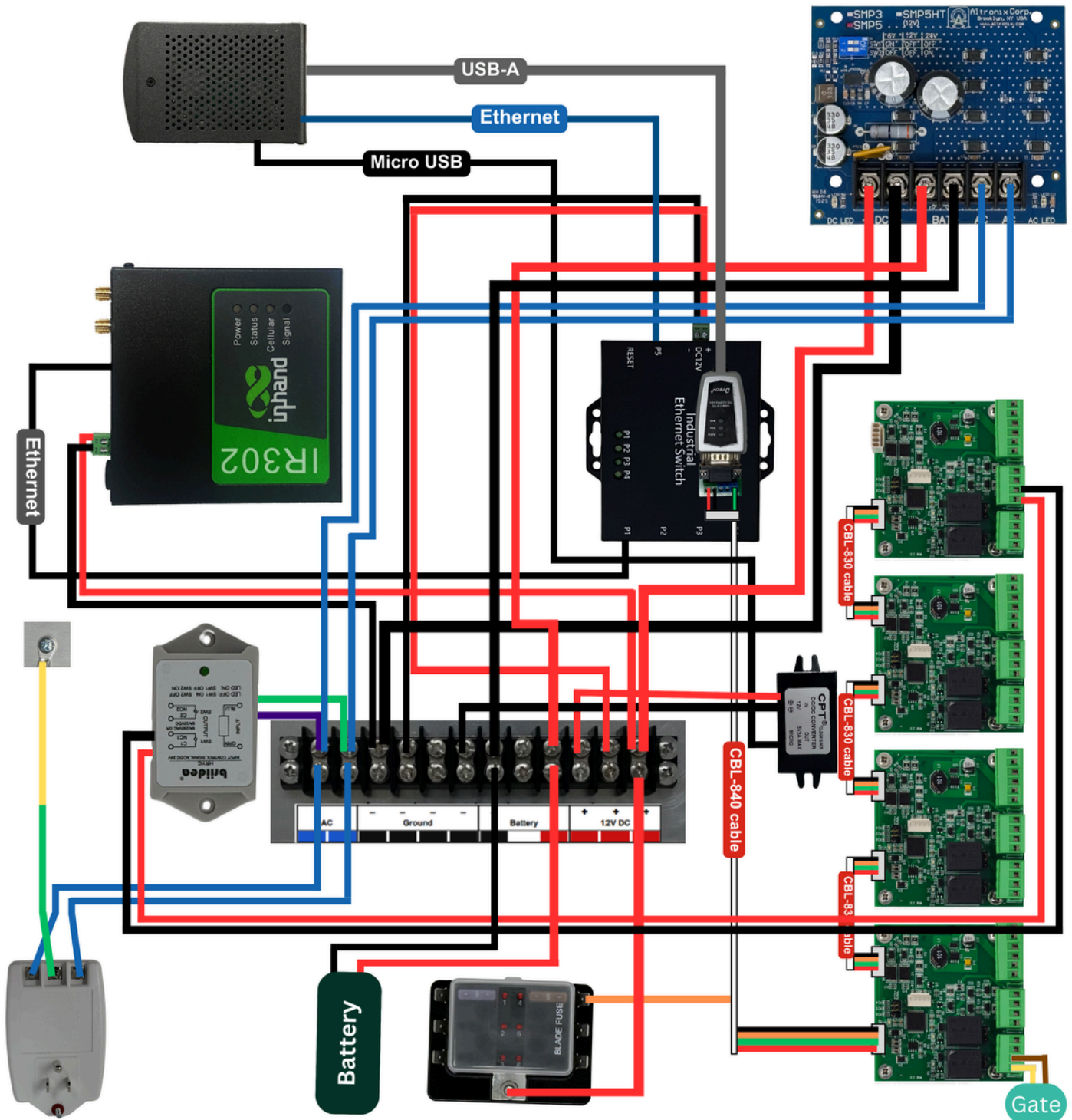
CPT DC/DC Converter

Four Expansion Boards



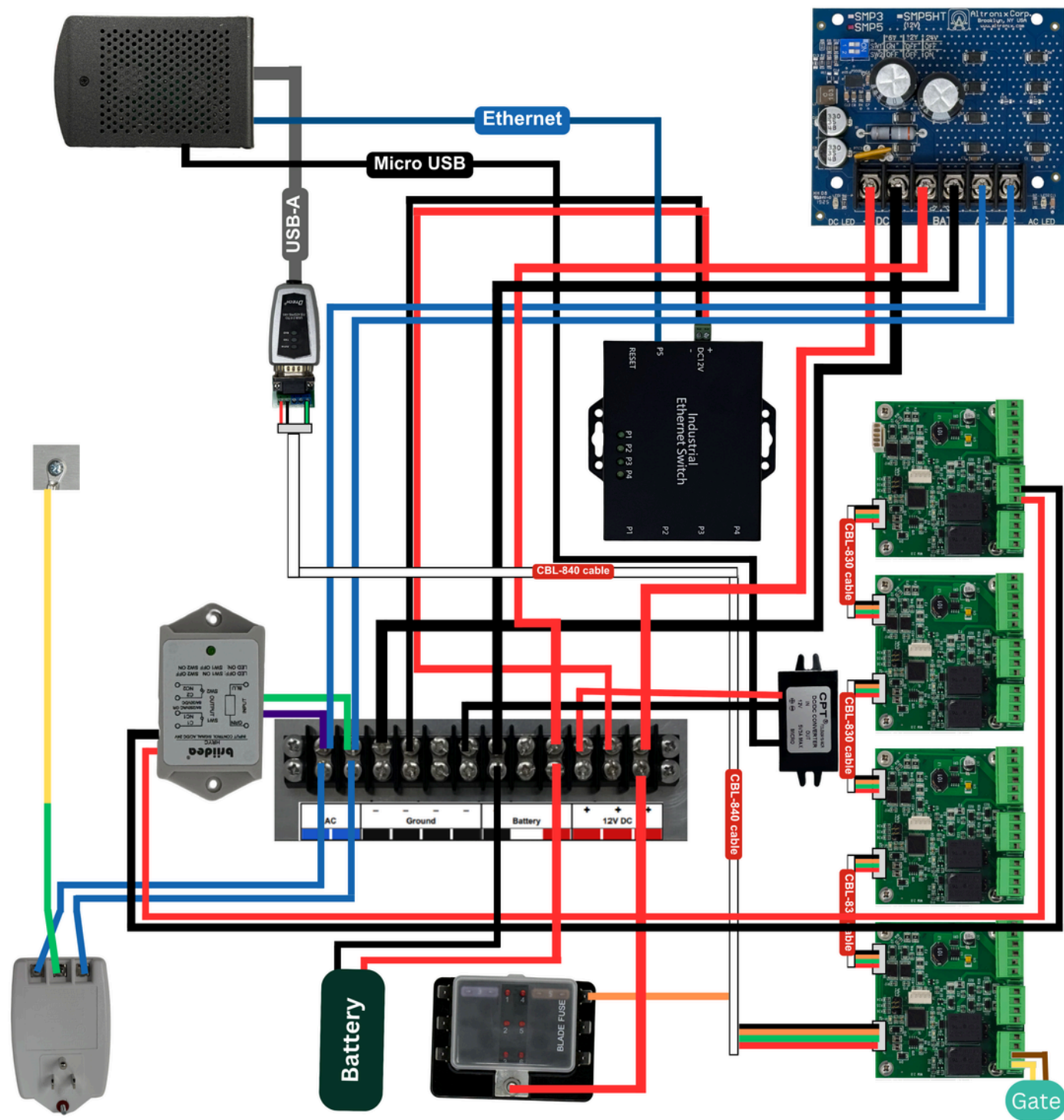


Cellular Wiring





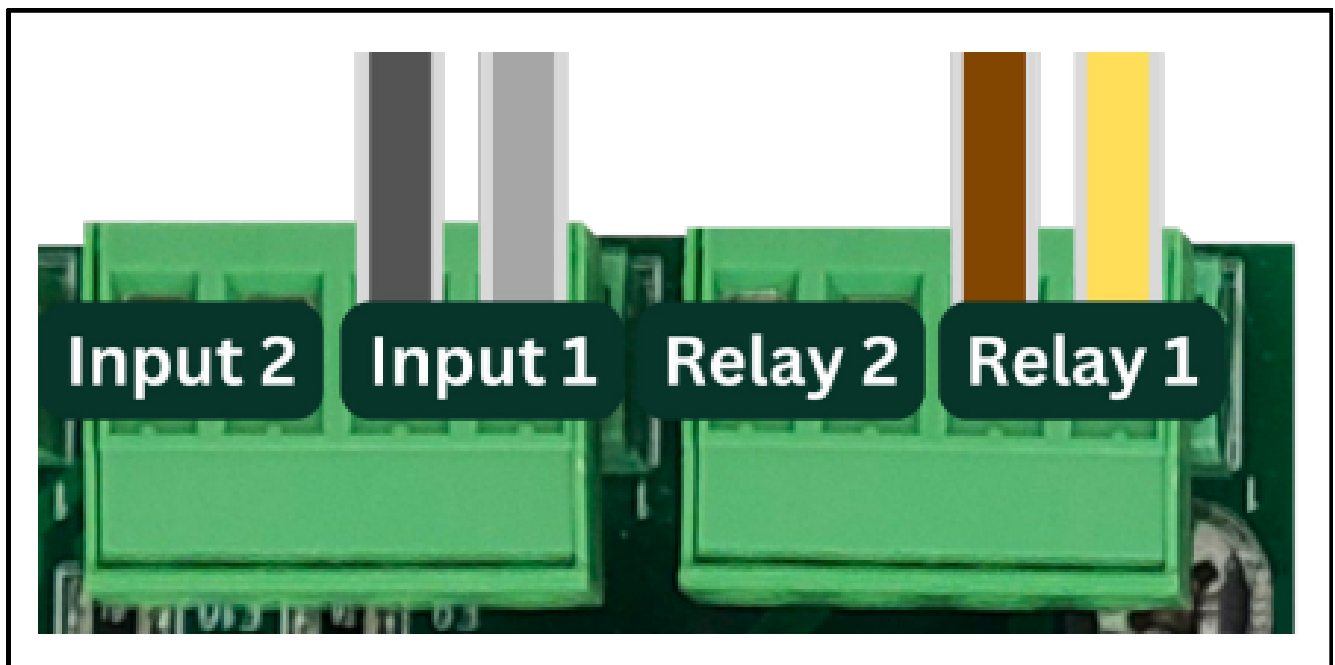
Ethernet Wiring





5. Connect Dry-Contact Relays and Inputs

1. Identify the two relay outputs and two input channels on the expansion board.
2. Connect gate operators and other continuity-controlled devices to the relay terminals.
3. Configure the onboard relay jumpers to establish or break continuity when the relay activates.
4. Connect the door status sensor to **Input 1**.
5. Connect the request-to-exit button to **Input 2**.
6. Do not apply external voltage to the input relay.



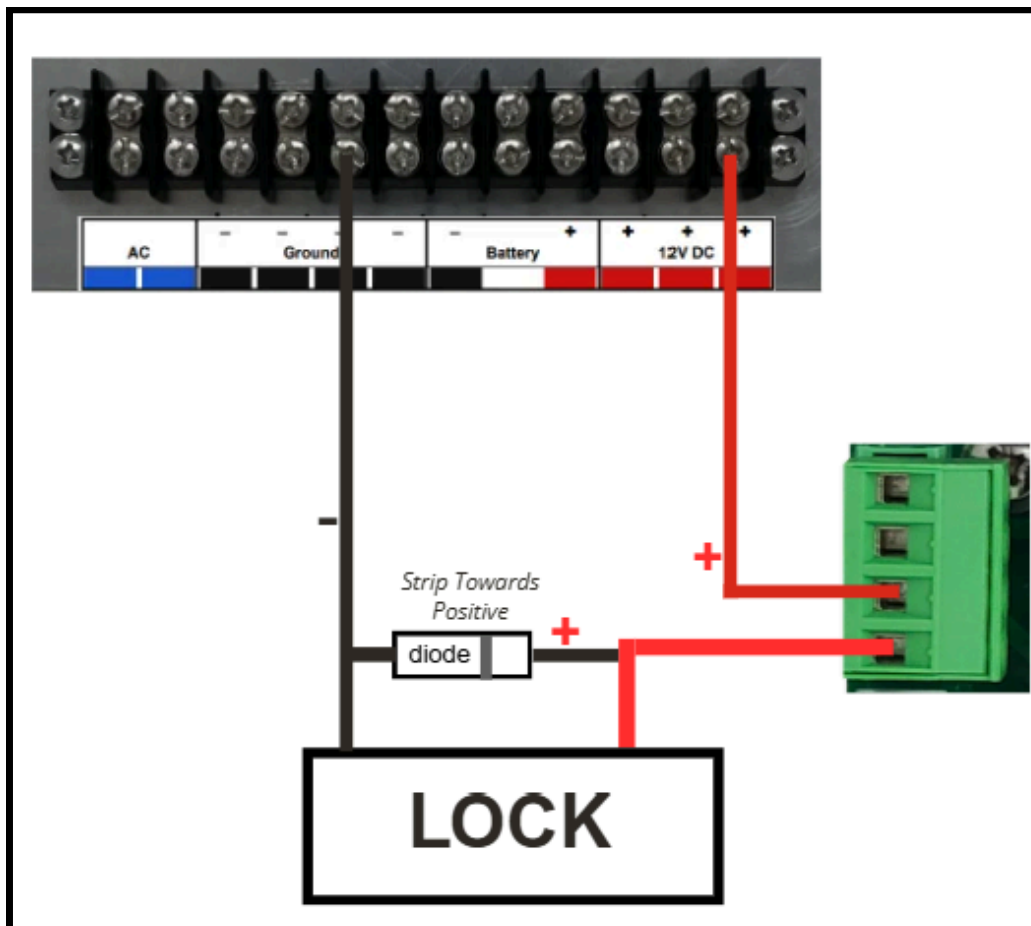
Note: Contact CellGate Technical Support if the input functions must be changed.



6. Wire a Wet Relay When Required

Use wet relay wiring only for powered locking devices, such as electric strikes or magnetic locks

1. Connect terminal-strip positive to one terminal of the selected relay.
2. Connect the lock's positive wire to the other relay terminal.
3. Connect the lock's negative wire directly to terminal-strip positive.
4. Install a diode across the lock wires near the locking device.
5. Position the diode with the striped end toward the positive wire.
6. Configure the relay to supply or remove power when activated, based on the locking device requirements.



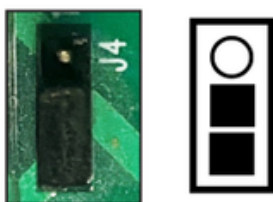
Note: Use dry-contact wiring for gate operators and other devices that only require continuity.



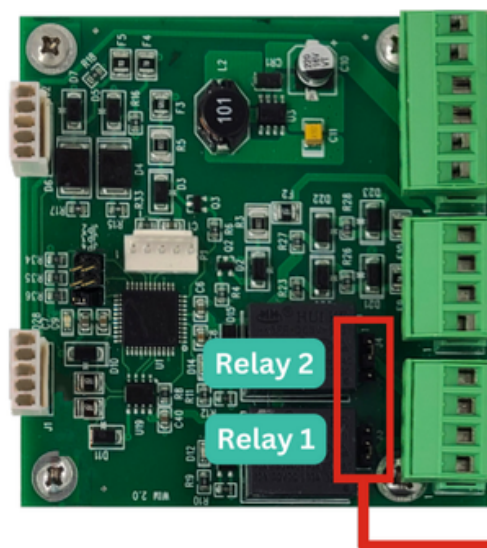
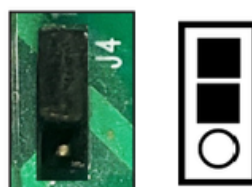
7. Set Relay Operation

1. Turn off power to the controller.
2. Locate the jumpers next to **Relay 1** and **Relay 2**.
3. Set each relay independently to **Normally Open** or **Normally Closed**.
4. Use **Normally Open** to provide continuity or power only while the relay is active.
5. Use **Normally Closed** to remove continuity or power while the relay is active.
6. Confirm that the field wiring matches the selected relay setting.

Normally Open



Normally Closed



Normally Closed

or



Normally Open

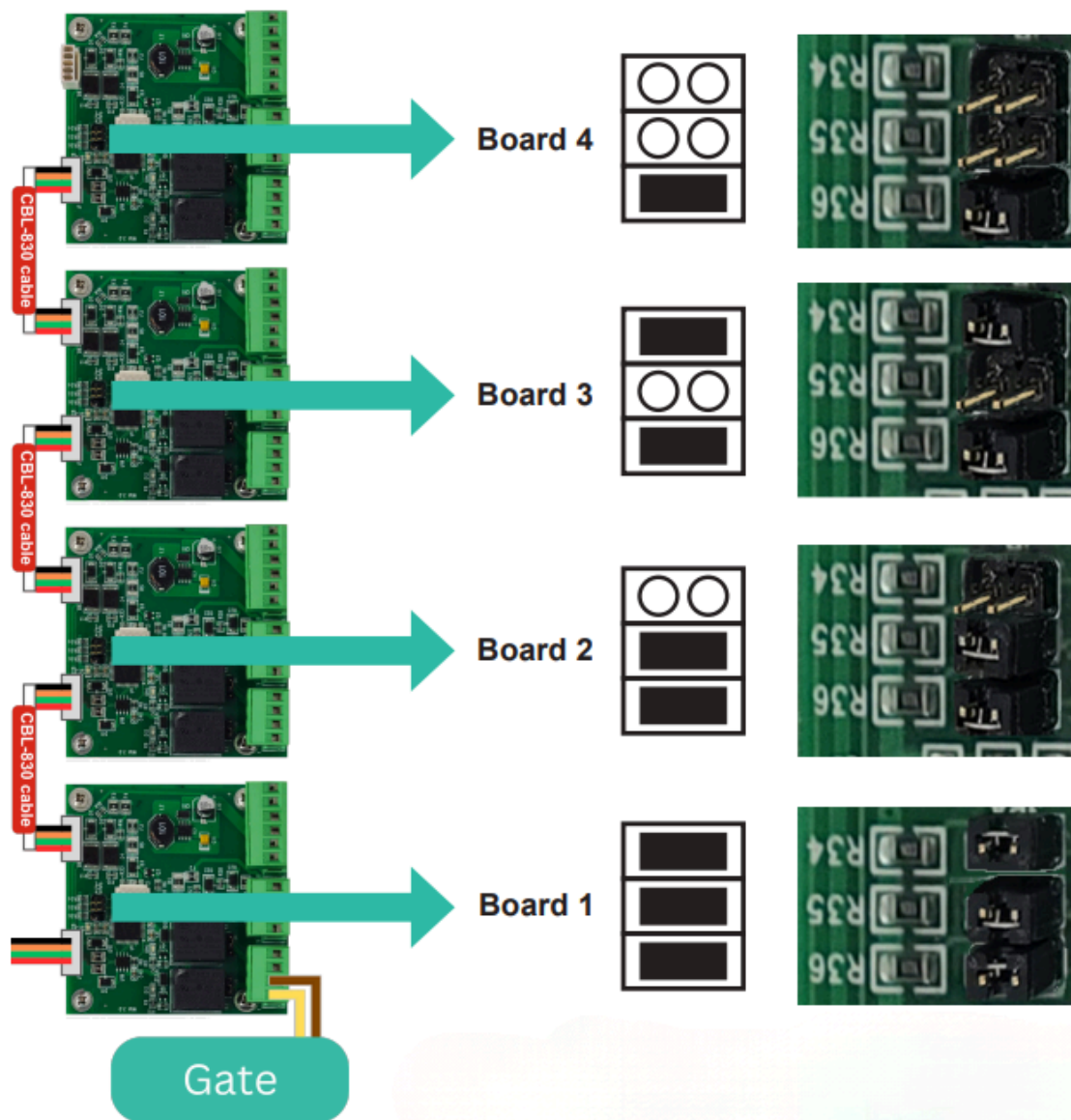
Note: Relays are set to **Normally Open** by default.

Warning: Do not adjust the jumpers while the device is powered on.



8. Verify Expansion-Board Jumpers

1. Turn off power to the controller.
2. Identify **Board 1** as the bottom expansion board.
3. Verify the jumper positions for Boards 1 through 4 match the configuration shown.
4. Confirm the boards remain in the correct communication sequence.
5. **Do not change the jumper positions during a standard installation.**
6. When replacing a board, match the jumper positions of the original board.
7. **Contact CellGate Technical Support before making any other jumper changes.**

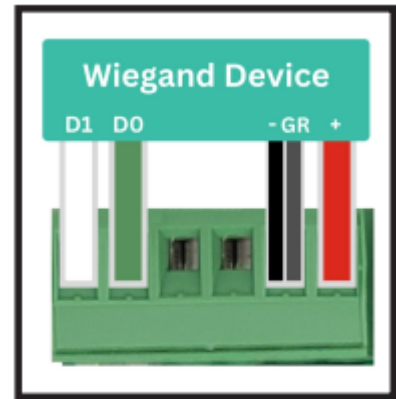


Warning: Do not adjust the jumpers while the device is powered on.



9. Connect CellGate Wiegand Devices

1. Connect the Wiegand device **D1** wire to the **D1** terminal on the expansion board.
2. Connect the **D0** wire to the **D0** terminal.
3. Connect the positive **12V** wire to the **12V** terminal.
4. Connect both the negative and ground wires to the **GND** terminal.
5. Verify all wires are secure and connected to the matching terminals.
6. Repeat the wiring steps for each controlled door, using one Wiegand device per door.

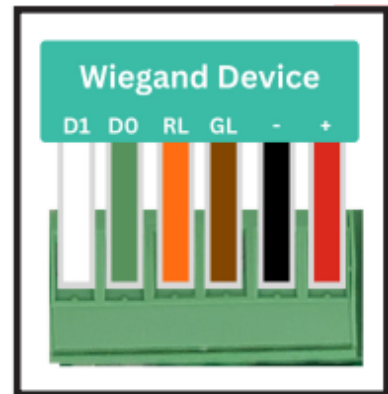


CellGate Wiegand Device

Note: The Entría 4-Door Controller supports up to four Wiegand devices.

10. Connect Third-Party Wiegand Devices

1. Confirm the device uses an **unencrypted 26-bit Wiegand format**.
2. Connect the device **D1** wire to the **D1** terminal.
3. Connect the **D0** wire to the **D0** terminal.
4. Connect the positive wire, typically **12V**, to the **12V** terminal.
5. Connect the negative wire to the **GND** terminal.
6. Connect optional **RL** and **GL** wires to the matching terminals, when provided.
7. Verify the wiring and voltage requirements in the device manufacturer's instructions.



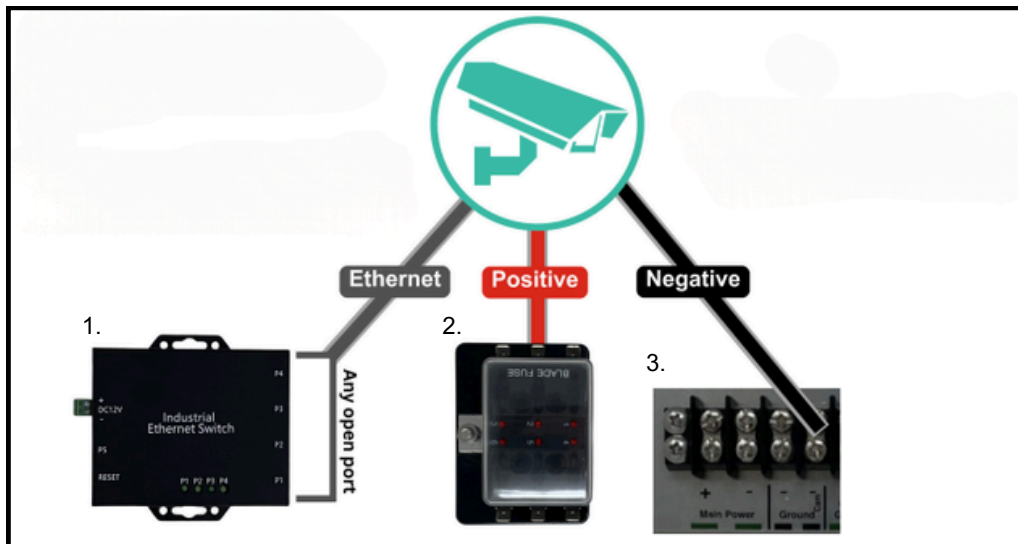
Generic Wiegand Device

Note: Most third-party Wiegand devices use only one negative wire and do not include a separate ground wire.



11. Connect External Cameras — Cellular Units Only

1. Connect an Ethernet cable from the camera to an available port on the internal Ethernet switch.
2. One Camera per terminal
3. Connect the camera's positive wire to an available terminal on the fuse box.
4. Connect the camera's negative wire to the ground terminal strip.
5. Install a **3-amp fuse** in the fuse-box slot that matches the camera's positive terminal.
6. Repeat these steps for each camera.



Note: Cellular Entría units support up to four external cameras. Ethernet units do not currently support external cameras.

12. Complete the Final Inspection

- Confirm the enclosure is securely mounted and level.
- Confirm conduit is installed and all used punchouts are sealed.
- Verify transformer power and ground connections.
- Verify relay wiring matches the selected Normally Open or Normally Closed setting.
- Confirm input terminals do not receive external voltage.
- Confirm wet relay circuits include a correctly oriented diode.
- Verify Wiegand D0, D1, power, and ground wiring.
- Verify camera wiring and fuse installation on Cellular units.
- Remove loose wire strands, tools, and debris from the enclosure.



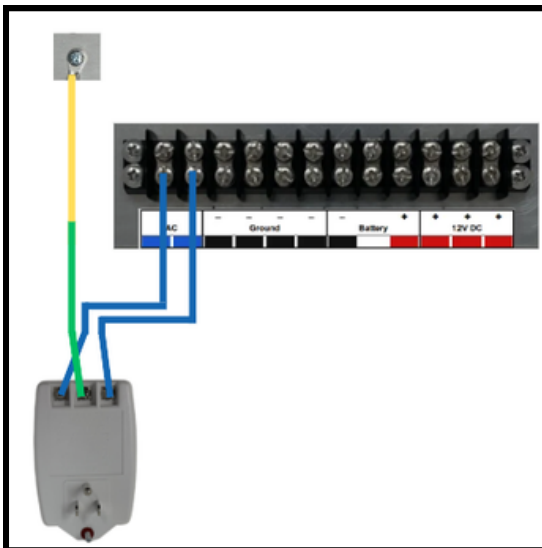
13. Connect Transformer Power and Ground

- Keep the transformer disconnected from AC power.
- Minimum 18 AWG wire for the power run.
- Do not exceed a total power-wire run of 200 feet.
- Connect the transformer AC wires to the preinstalled blue AC input wires inside the enclosure.
- Connect the transformer ground to the preinstalled ground connection.
- Tighten all terminals and confirm that no bare conductor is exposed.

Note: The Entría Four Door Controller includes a 24V AC transformer. Do not apply power until all wiring is complete

14. Apply Power and Test

- Close the enclosure.
- Connect the transformer to AC power.
- Confirm the controller powers on normally.
- Test each Wiegand reader and controlled door or gate.
- Test door-status and request-to-exit inputs where installed.
- For Cellular units, verify each external camera powers on and communicates.
- **Disconnect power before correcting wiring or jumper issues.**



For Technical Assistance,
contact CellGate Technical Support at (855) 694-2837, Option 2.