

SurePath Installation



External Document

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SurePath provides WAN-to-cellular redundancy to keep CellGate systems online during internet outages. Installation includes mounting, wiring power, connecting internet, and verifying system operation.

Safety and Compliance

- Disconnect all power sources before connecting any wires.
 - Wait 60 to 90 seconds
- Follow all local electrical codes and CellGate wiring standards.
- Verify voltage and polarity before powering the system.

Tools and Materials Required

- Wire strippers
- Screwdrivers or power drill (Phillips bits)
- Multimeter
- 4 Mounting screws - recommended **M8-1.25x60 mm (not included)**
- CAT6 Ethernet cable



Instructions:

Liquid-Tight Connector Installation:

1. Insert the included liquid-tight connector into the device enclosure knockout.
 - a. Gasket should be outside of the punch out hole.
2. Secure the connector by tightening the locknut from inside the enclosure until snug. Do not overtighten.
3. Feed the conduit or cable into the liquid-tight connector.
4. Tighten the compression nut on the connector to create a proper seal around the conduit or cable.
5. Verify that the connection is secure and that the seal is fully seated to prevent moisture or debris from entering the enclosure.

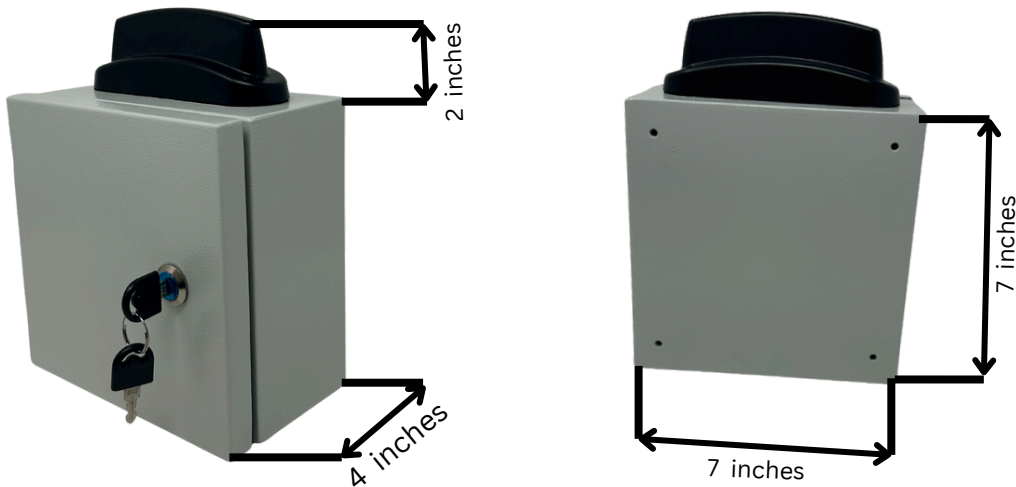
Note: The included liquid-tight connector must be used to maintain proper environmental sealing of the device.





Device Mounting

1. Mount the SurePath device minimum height of 42 inches from ground.
2. Keep the antenna connections clear and tighten securely.

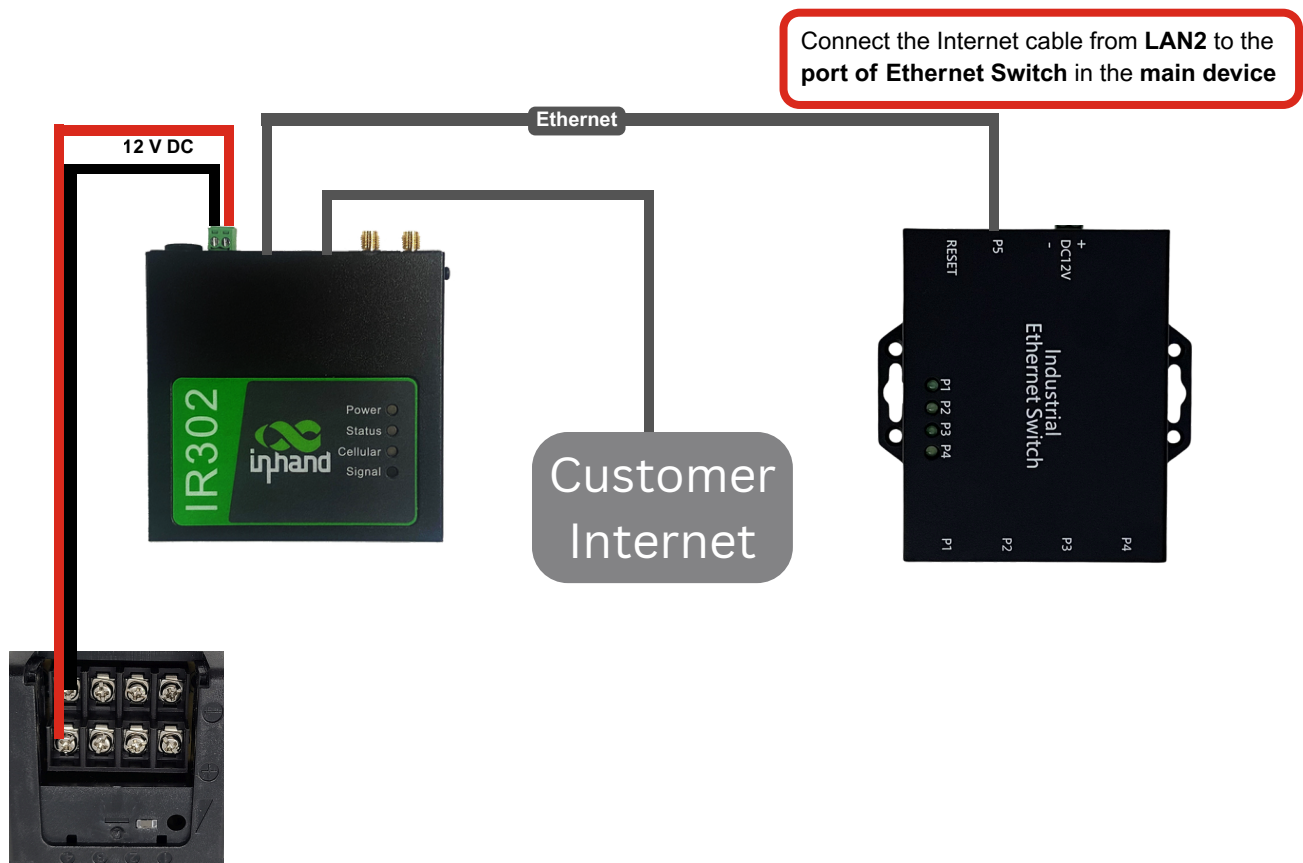
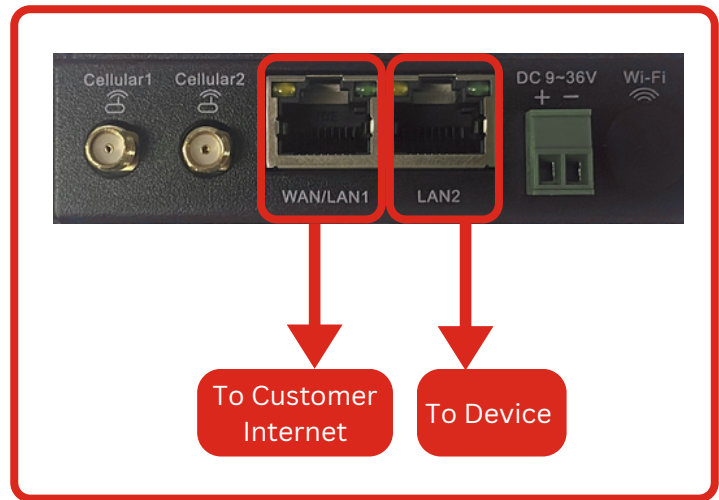


3. Attach all 4 mounting brackets to the back of the device using the 4 supplied (5mm x 0.8 metric) screws.
4. Hold the device and mark the wall through the mounting bracket slots.
5. Install 4 mounting screws (not included),
Recommended **M8-1.25 x 60 mm**.
6. Hang the device on the screws and tighten until secure.



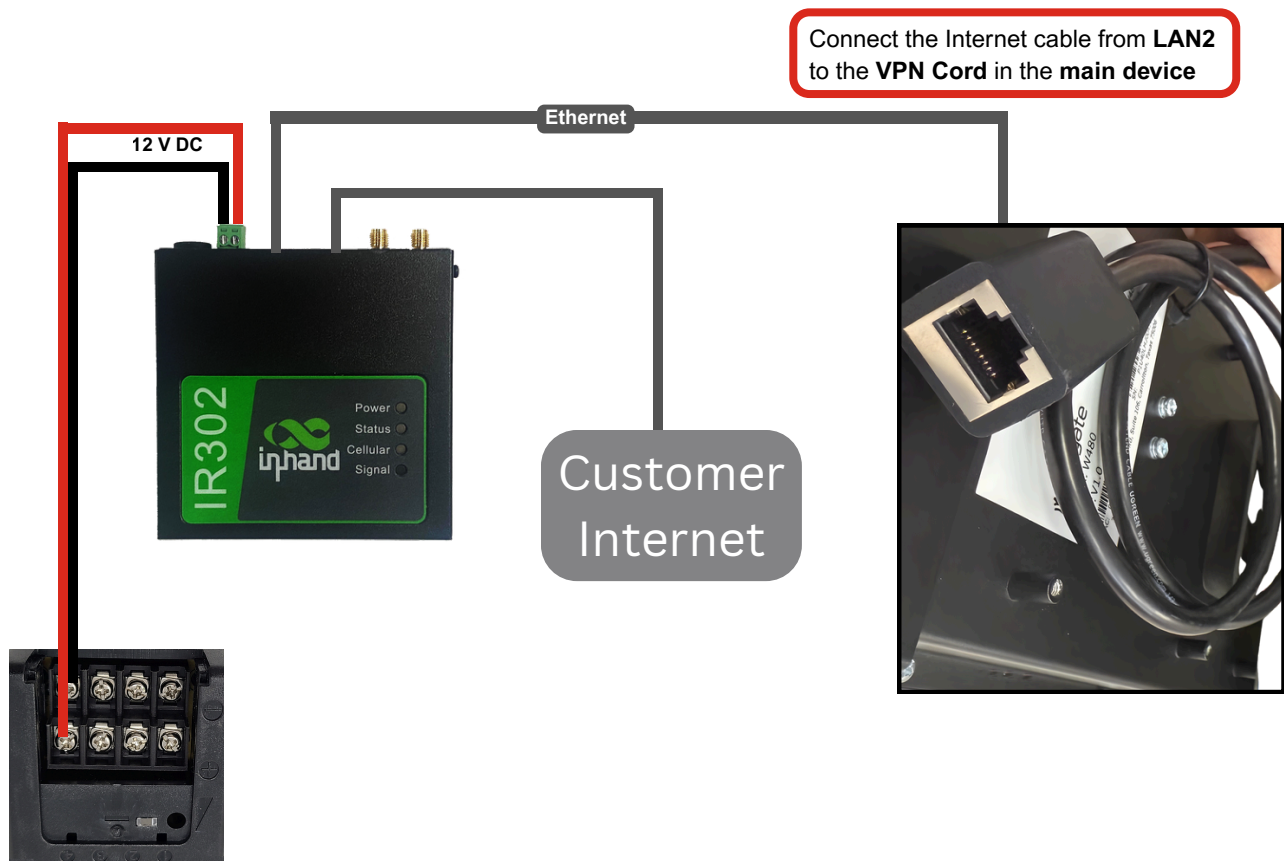
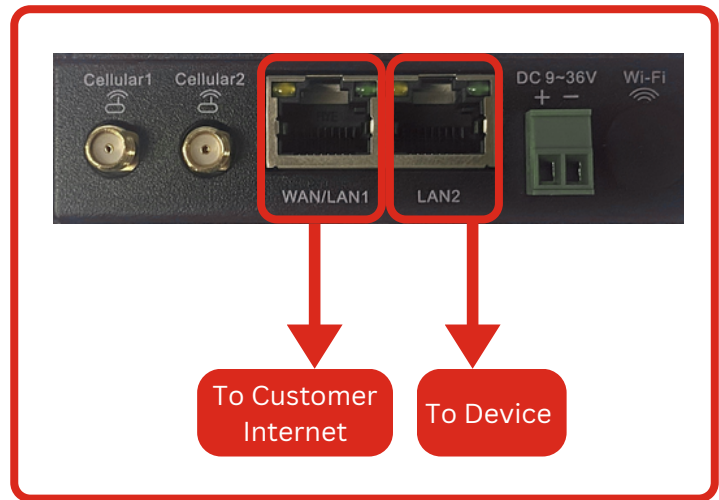


SurePath Wiring Layout for Entría 4- Door Controller VPN Device:





SurePath Wiring Layout for W482 and WXL2 VPN Device:





Power Wiring

SurePath devices require 12V DC, 5 Amp power.

Power Wiring Guidelines

Gauge Wire	Wire Run
18	25 feet
16	50 feet
12	60 feet

⚠ Power Cable Requirements

1. The SurePath device includes pre-attached 8-inch power leads that connect directly to the transformer.
2. Use a 12V DC, 5A power supply with gauge-appropriate stranded and shielded power wiring.
3. If the SurePath device is within 25 feet of the interfaced CellGate Watchman VPN device, power can be supplied to it via the accessory power port on the Blue Board.
4. Ethernet wiring should not exceed 300 feet, as per industry standards. (CAT 6 is recommended)



Transformer Wiring

1. Use the 12V DC transformer provided (PWR-200 style).
2. Connect the positive (+) red lead from the SurePath device to the + terminal on the transformer.
3. Connect the negative (–) black lead from the SurePath device to the – terminal in the same channel on the transformer .



⚠ After securing wires, plug the transformer into a grounded Type-B outlet.

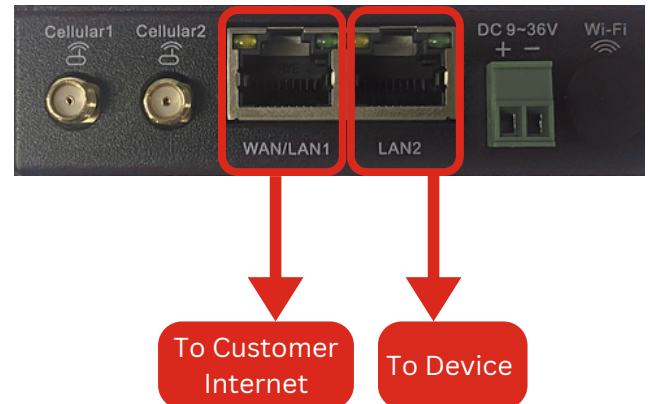
⚠ **12 gauge wire** will not fit in the red screw terminal for the power supply. You will need to splice it down to a thinner wire.



Ethernet Wiring

The SurePath device has two ports:

- WAN/LAN1
- LAN2



A. SurePath – Entría 4 - Door Controller VPN Device Setup

Use this configuration when the main device has an Ethernet Switch.

1. Connect WAN/LAN1 → Customer's internet source
 - This may be a modem, router, or existing network switch.
2. Connect LAN2 → Device Ethernet switch
 - This feeds the local network to the CellGate equipment.

B. SurePath – W482 and WXL VPN Device Setup

Use this configuration when the system requires a VPN tunnel for secure traffic.

1. Connect WAN/LAN1 → Customer's internet source
2. Connect LAN2 → VPN cord / VPN device

Note: This port handles encrypted VPN traffic.
Both models follow the same power wiring rules.
Only the LAN2 destination changes.



Device Grounding



Grounding Wire

⚠ Proper grounding is required for safe operation and to protect the device from electrical faults and interference.

- The device includes a pre-attached grounding wire that must be connected to an appropriate ground point before powering the unit.

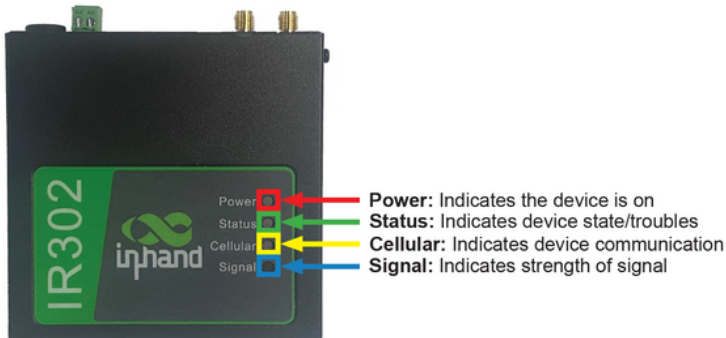


Verification

After wiring and mounting are complete:

• LED Status

- Confirm all LEDs on the front of the SurePath device are lit correctly:



Power	Status	Cellular	Description
Off	Off	Off	Powered Off
On	Off	Off	System Failure
On	On	Off	Module or SIM Card Not Recognized
On	On	Blinking	Dialing
On	On	On	Dialing Success
On	Blinking	On	Upgrading
On	Blink > On	On	Reset

Signal	Description
Red	Signal 0 - 10 (Bad)
Yellow	Signal 11 - 20 (Decent)
Green	Signal 21 - 30 (Good)

• Internet Verification

- Confirm the customer's internet is online.
- Verify that connected devices (gates, operators, access control units, etc.) are fully functional.
- Contact Support to Test failover: Disconnect WAN briefly to ensure device shifts to cellular.

Support Contact

- For technical assistance or questions, contact: CellGate Technical Support.
(855 694 2837) Option 2



Device Labeling



SurePath Device



To Device

- After confirming failover testing is successful and SurePath is functioning properly, place the spare device number sticker to the interfaced CellGate device (Watchman W482, Watchman WXL2, or Entria Four-Door Controller Ethernet).
- The sticker will begin with SP_ followed by four digits and should be placed next to the existing five-digit device number sticker.