



Upgrade to 4G antenna

This guide shows you how to retrofit a 4G/LTE antenna into monitors that have a 3G antenna.

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INTRODUCTION

Monitors purchased before May 2020 were fitted with a Wi-Fi/GSM cellular antenna. However, if you need a 4G/LTE connection, you can replace that antenna with a LTE/GPS antenna using an upgrade antenna kit. The replacement antenna forgoes Wi-Fi but adds GPS capability. If required, you can maintain Wi-Fi by adding an internal Wi-Fi antenna to the monitor's embedded PC.



TOOLS:

- [Large Phillips head screwdriver](#) (1)
- [19mm adjustable wrench](#) (1)



PARTS:

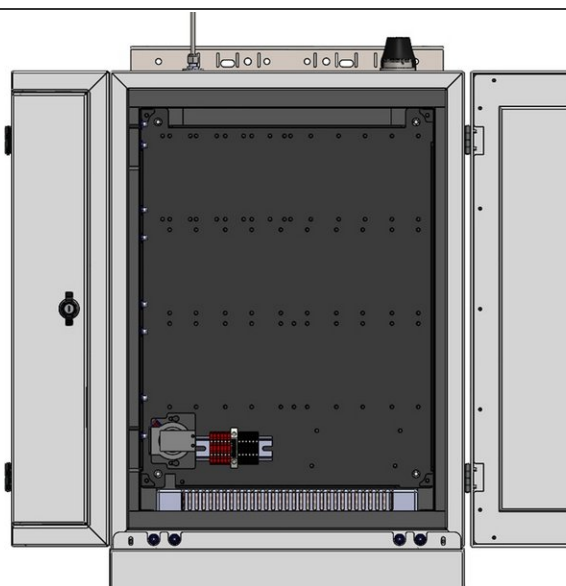
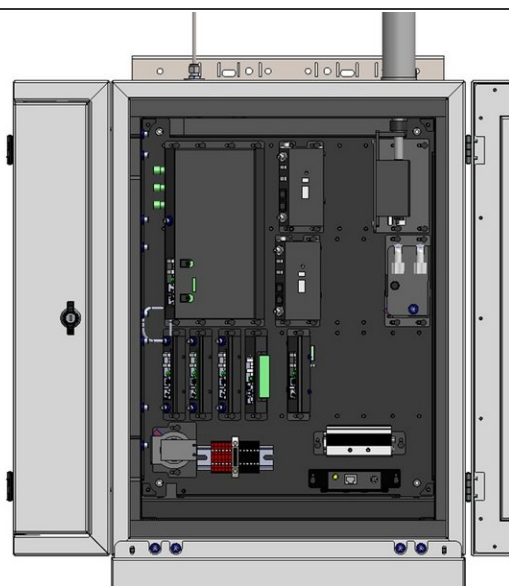
- [Retrofit 4G antenna](#) (1)

Step 1 — Overview



- The monitor has a built-in cellular antenna on the outside roof of the enclosure (right side).

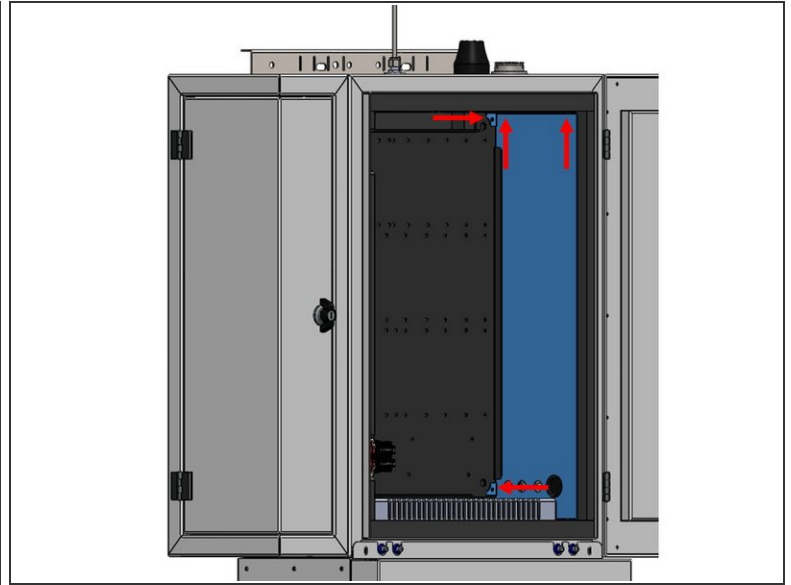
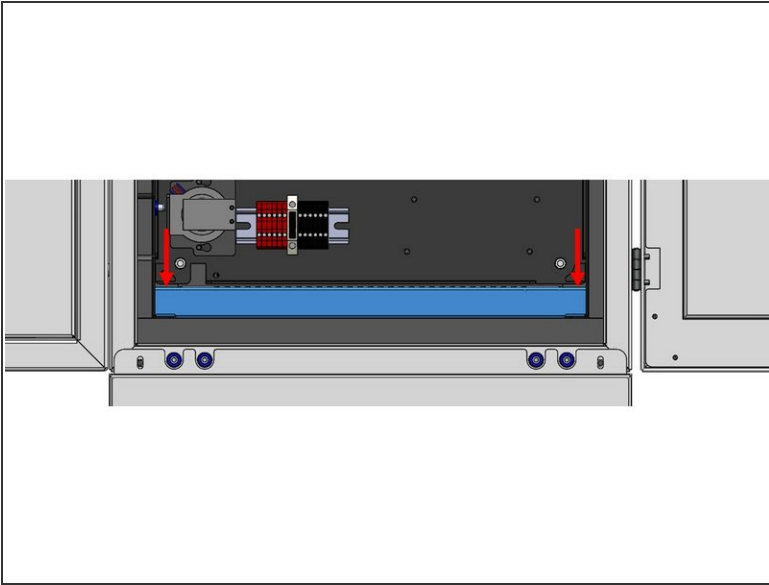
Step 2 — Remove internal components



⚠ Disconnect power from the monitor.

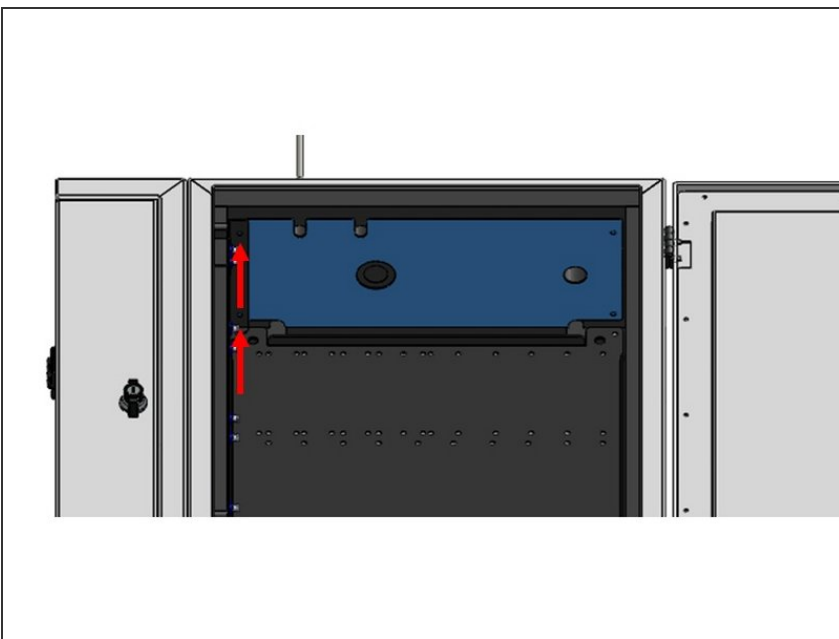
- Open the door and remove all modules, tubing, PM inlet and engine, embedded PC, modem (if installed) and all wiring that will obstruct you from taking out the top and right vanity plates.

Step 3 — Remove right vanity plate



- Remove the front brace by removing the 2 screws from the back side of the brace.
- Remove the right vanity plate by removing the 4 remaining screws (3 at top, 1 at bottom).
- Remove the first layer of insulation behind the right vanity plate.

Step 4 — Remove top vanity plate

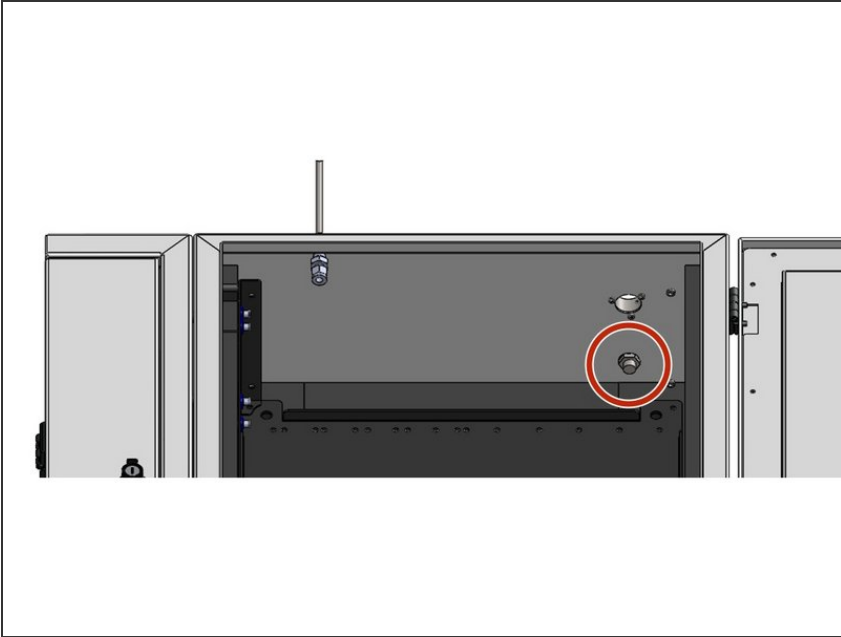


- Remove two remaining screws on left hand side top.
- Slide the top vanity place straight out.
- *i* You may need to bend the gas sample inlet tubing out of the way.

- Remove the top two pieces of insulation, taking note of the order they were removed in, and their

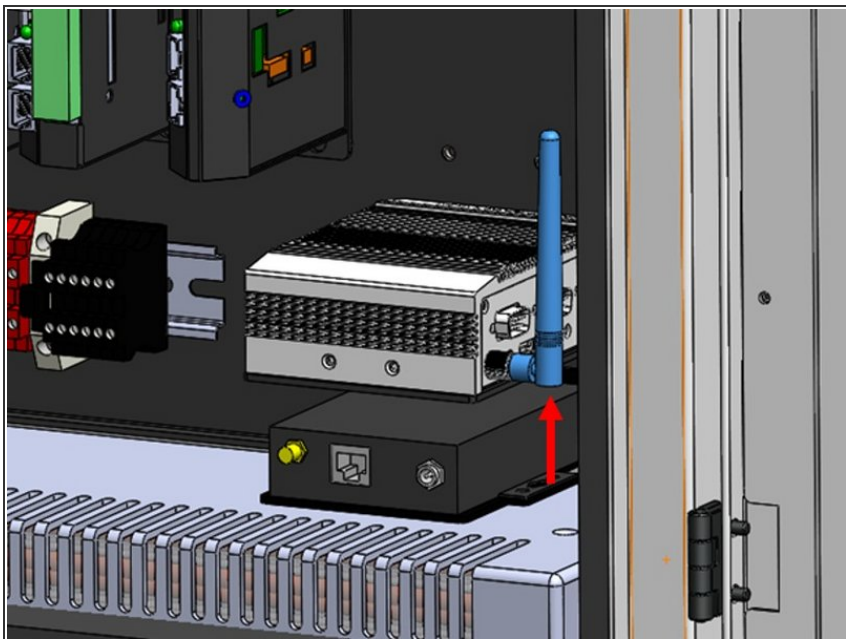
orientation. You will need to slide one of the pieces down the antenna lead wires.

Step 5 — Replace antenna



- Loosen the antenna retaining nut and remove the old antenna from the top of the monitor.
- Position the new 4G antenna and secure it using the supplied locknut and washer.
- Reinstall the insulation and vanity plates, including the front brace, in the reverse order in which they were removed.
- Reinstall the gas modules, PM inlet and engine, embedded PC and modem.

Step 6 — Wire antenna to modem



- Connect the antenna wiring to the modem (LTE cable to cellular connection, and GPS to GPS connection on modem, if your modem has GPS capabilities).
- Connect the internal Wi-Fi antenna to the embedded PC Wi-Fi connection.
- Close the door and reconnect the power.

For further support, contact [Technical Support](#).