Step 1: Before going onsite, call OmniMetrix Tech Support at *770-209-0012 ext. 2* prior to proceeding with any instructions on this page**.** They 'll require the Unit ID Number of the monitor currently installed. Tech Support will initiate the download of LTE firmware to prepare the monitor for the new LTE radio change out. Once the LTE firmware is successfully downloaded to the installed monitor, the monitor will stop operating until the new LTE radio is installed.

Step 2: Once onsite, observe the monitor. The display LED's will operate in sequence pattern that is typical of a monitor attempting to log onto a cellular network. The pattern repeats itself approximately every five minutes. This pattern indicates the monitor does have the new LTE firmware but cannot connect to a cellular network with the existing 3G/4G radio inside (successful download). If you see the Modbus LED blinking rapidly, and/or the Network LED lit, the LTE firmware has not fully downloaded into the monitor yet. ****DO NOT** change out the radio until the LTE firmware is successfully installed into the monitor. If firmware download has failed (Step 1), call OmniMetrix Tech Support before proceeding with any instructions on this page.

****Observe LED behavior before proceeding with the radio change out.**

Radio Replacement:

The radio replacement requires the following tools:

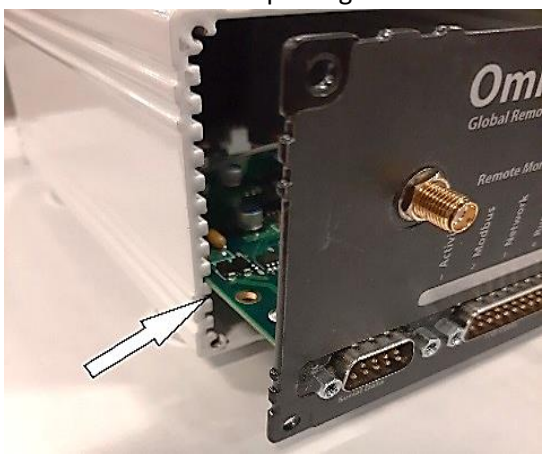
- #1 (small) Phillips screwdriver
- 5/16" nut driver or wrench
- The process may require a pair of pliers to remove the antenna connector nut.

The radio kit comes complete with:

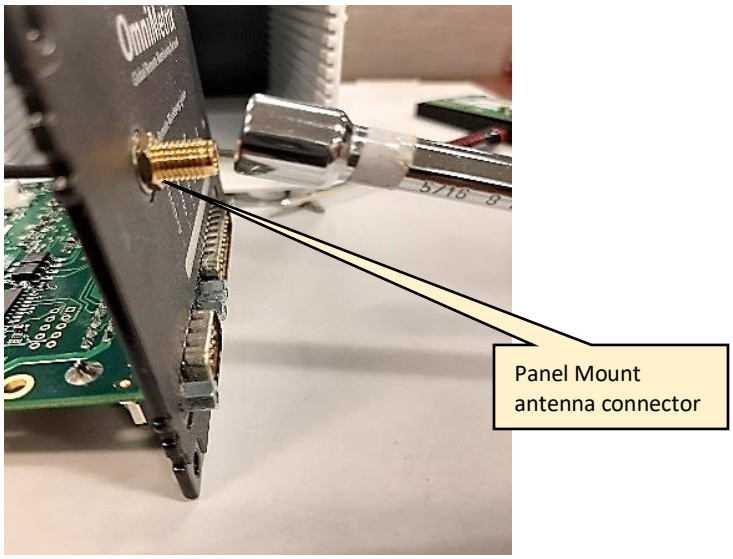
- AT&T LTE Radio (write down the radio Serial Number, as you'll need this for final setup & test).
- AT&T LTE SIM card
- Panel Mount-antenna connector cable (secured to AT&T LTE Radio)
- 2 radio mounting screws

1. Turn the OmniMetrix power switch to the "Off" position.
2. Disconnect the external antenna's connector cable.
3. Disconnect the external data interface cable (9 Pin or 25 Pin or both).
4. Remove the 4 corner screws on the front face plate of the OmniMetrix monitor and set them aside for later use.

5. The front face plate slides out from the OmniMetrix case along with the main control PCB that supports the 3G/3G+ radio card. The main control PCB is aligned on the 4th notch of the case. Remember this when putting the unit back together.



6. Use a 5/16" nut driver or wrench to remove the panel mount-antenna connector from the front face plate. This may require a pair of pliers to hold the backside of the antenna connector. **Discard the old nut and star washer**.



7. Turn the main control PCB assembly over so the 3G/3G+ Radio Card is visible. There will be two screws, in opposite corners, that must be removed. Leave the white standoffs in place on the main control PCB:

8. Once the screws have been removed, pull the radio card straight up & away from the main control PCB and **discard the 3G/3G+ radio card, old antenna connector assembly and radio card screws.**

9. Note the orientation of the yellow SIM card on the new AT&T LTE radio (notch). Carefully remove the SIM card and place it aside.

10. Place the new AT&T LTE radio into the same connector slot the 3G/3G+ radio came out of. Make sure that all the connector pins on the bottom of the card align with their respective holes on the mating connector. Press the card gently into its slot.
11. If the AT&T radio card has not been placed correctly, the screw holes will not line up. If this occurs check for bent pins on the bottom of the LTE radio card, if they are bent:

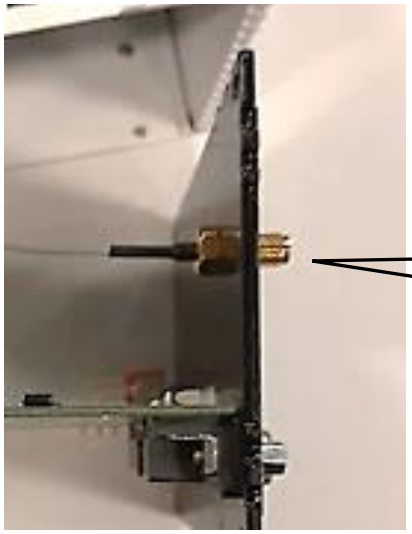
- Remove the radio card by gently pulling it straight up from the PCB
- Gently bend the pins back into their vertical orientation
- Place the LTE radio card back into the correct position on the main control PCB

12. If the AT&T LTE card has been installed correctly, the screw holes will line up with the existing standoffs. Take the two, new radio screws and secure them into place.

13. Place the AT&T LTE SIM card into its holder, make sure to align the SIM card correctly (notch).

14. Loosen and remove the nut and star washer from the **new, panel mount-antenna connector**.

15. Turn the PCB over and route the antenna connector wire through the notch in the PCB by the SIM card of the AT&T LTE radio.
16. Route the new, panel mount- antenna connector (**without the nut and star washer**) through the antenna connector hole on the front face plate of the OmniMetrix monitor.
17. Place the star washer on the antenna connector prior to reinstalling the nut. Tighten the nut to the front panel of the OmniMetrix monitor. Nut should be hand tightened until it no longer spins then a ¼ to ½ turn more should be applied with the nut driver or wrench (see image on next page).



18. Slide the main control PCB/Front panel assembly back into the OmniMetrix case (remember to align the PCB with the 4th slot).
19. Reinsert the 4 corner screws.
20. Reconnect the data interface cable(s).
21. Reconnect the external cellular antenna, making it thumb tight
22. Switch the unit on.
23. **Call into OmniMetrix Tech Support, 770-209-0012 Ext. 2, and provide the OmniMetrix Unit ID and the 10-digit serial number of the new radio.**