



# ATMOS 41W Cellular Board Replacement

18559-00  
5.2024

This document instructs how to replace the ATMOS 41W cellular board if it malfunctions or needs to be upgraded. Follow the instructions provided in this document to replace the ATMOS 41W cellular board. Board replacement is needed for some upgrades or malfunctions.

Tools needed:

- Small Phillips (PH1) head screw driver
- Wooden stick (included)
- 2 small O-rings (included)
- 1 Nitrile glove (included)
- New modem (included)
- New SIM (included depending on upgrade type)

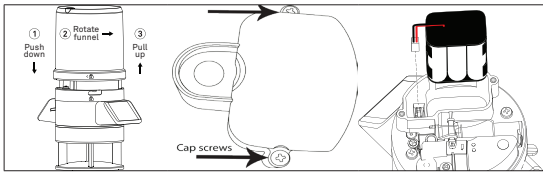


**CAUTION:** Only replace the ATMOS 41W cellular board indoors. Replacing the cellular board outdoors may result in damage to the board and/or internal mechanisms of the ATMOS 41W.

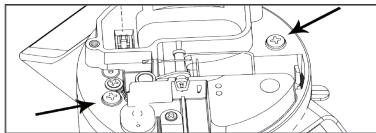
## ACCESSING THE ATMOS 41W CELLULAR BOARD

1. Put on the nitrile glove to protect cellular board and other internal components.
2. Remove the ATMOS 41W rain funnel and unscrew the battery cap to access and remove the battery pack. Gently unplug the battery pack wire connector to disconnect the battery pack from the ATMOS 41W.

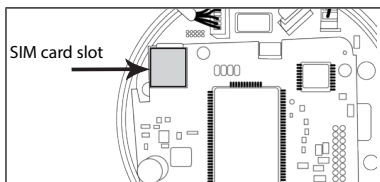
**NOTE:** Do not lift the batter pack out by the wire. Removing the battery pack before accessing the cellular board is critical for protecting the board and other internal components from damage.



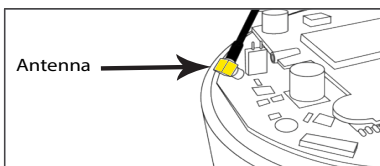
3. Using the Philips head screw driver, unscrew the rain assembly screws and set aside. Discard the old O-rings.



4. Turn the rain gauge assembly on it's side and remove the SIM card from the slot by pushing the SIM card in and releasing.

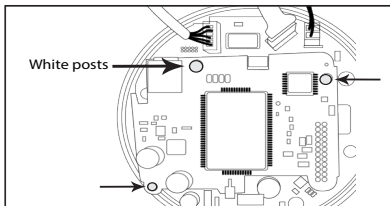


5. Gently unplug the antenna connector pulling directly from the cellular board, making sure to not damage the wire as it is pulled out.



6. Take the wooden stick and insert it underneath cellular board near the white posts.
7. Gently apply leverage to slowly lift up the cellular board.

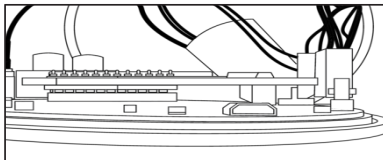
**NOTE:** Internal cables may need to be moved in order to properly lift cellular board. Adjust cables as needed but do not unplug.



8. Position new board so the port is aligned with the white posts and communication pins.
9. Once the new board is aligned correctly, gently push the board straight into place.

**NOTE:** Do not apply too much pressure to cellular board.

10. Check that the new board is snugly in place and the communication pins are connected correctly as depicted below.

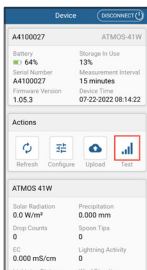


11. Install the SIM card into the SIM card slot, and plug the antenna back in.
12. Put the rain gauge assembly back into place.
13. Slide the new O-rings onto screws and place them into the screw holes and tighten.

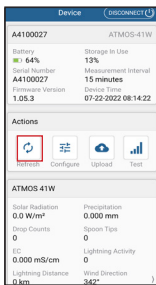
Do **not** over tighten. If the gasket is bulging the screws are likely too tight. The gasket **must** be flush with the sides of the unit.

**NOTE:** If the screws do not easily screw into place they may be caught on a cable. Lift the rain gauge assembly and adjust cables as needed.

14. Re-install battery pack.
15. Check for configuration updates. On the main connection screen of ZENTRA Utility Mobile. Tap **Configure** on the main screen. Connect to the preferred network.
16. Tap **Test** in ZENTRA Mobile to confirm the quality of the communications.



17. Re-install the ATMOS 41W rain funnel.
18. Verify that all measurements are within the expected range. If they are not, see the ATMOS 41W User Manul (<https://meter.ly/atmos41wUM>) for troubleshooting options.



**METER Group, Inc.**  
E [info@metergroup.com](mailto:info@metergroup.com)  
W [metergroup.com](http://metergroup.com)

**EUROPE**  
E [support.europe@metergroup.com](mailto:support.europe@metergroup.com)  
T +49 89 12 66 52 0

**NORTH AMERICA**  
E [support.environment@metergroup.com](mailto:support.environment@metergroup.com)  
T +1.509.332.5600