



MacBook Air WiFi Upgrade Kit

Installation Instructions

Thanks for purchasing a MacBook Air WiFi upgrade kit please follow the instructions below to install your kit, if you have any issues or questions please contact [Support](#) or check the [FAQs](#)

Compatibility

- 11inch MacBook Air A1370 (Late 2010, Mid 2011)
- 11inch MacBook Air A1465 (Mid 2012)
- 13inch MacBook Air A1369 (Late 2010, Mid 2011)
- 13inch MacBook Air A1466 (Mid 2012)

Time

The installation of the adapter is intricate, and will take at least 1Hr.

Preparation

Make sure you have a clean well lit workspace and have taken the appropriate anti-static precautions. Please read all the instructions carefully before proceeding.

You will need:

- The Kit:
 - 3x custom antenna extensions (1 spare)
 - Heat shrink for both the card and antenna extensions
 - 3M VHB Tape
- A BCM94360CS2
- Tape (kapton or thin electrical tape)
- This guide, preferably on another device

You will need the following tools:

- 5 point Pentalobe and T5 screwdrivers
- Plastic Spudger
- A hot air gun or hairdryer
- Scalpel or knife

*****It is always good practice to back up your data and make sure your machine has been shut down properly before you start any work. This is a DIY unsupported modification to your laptop that you are undertaking at your own risk and intriguing industries will take no responsibility for any damage or data loss*****

1. Remove the bottom cover and the existing WiFi card

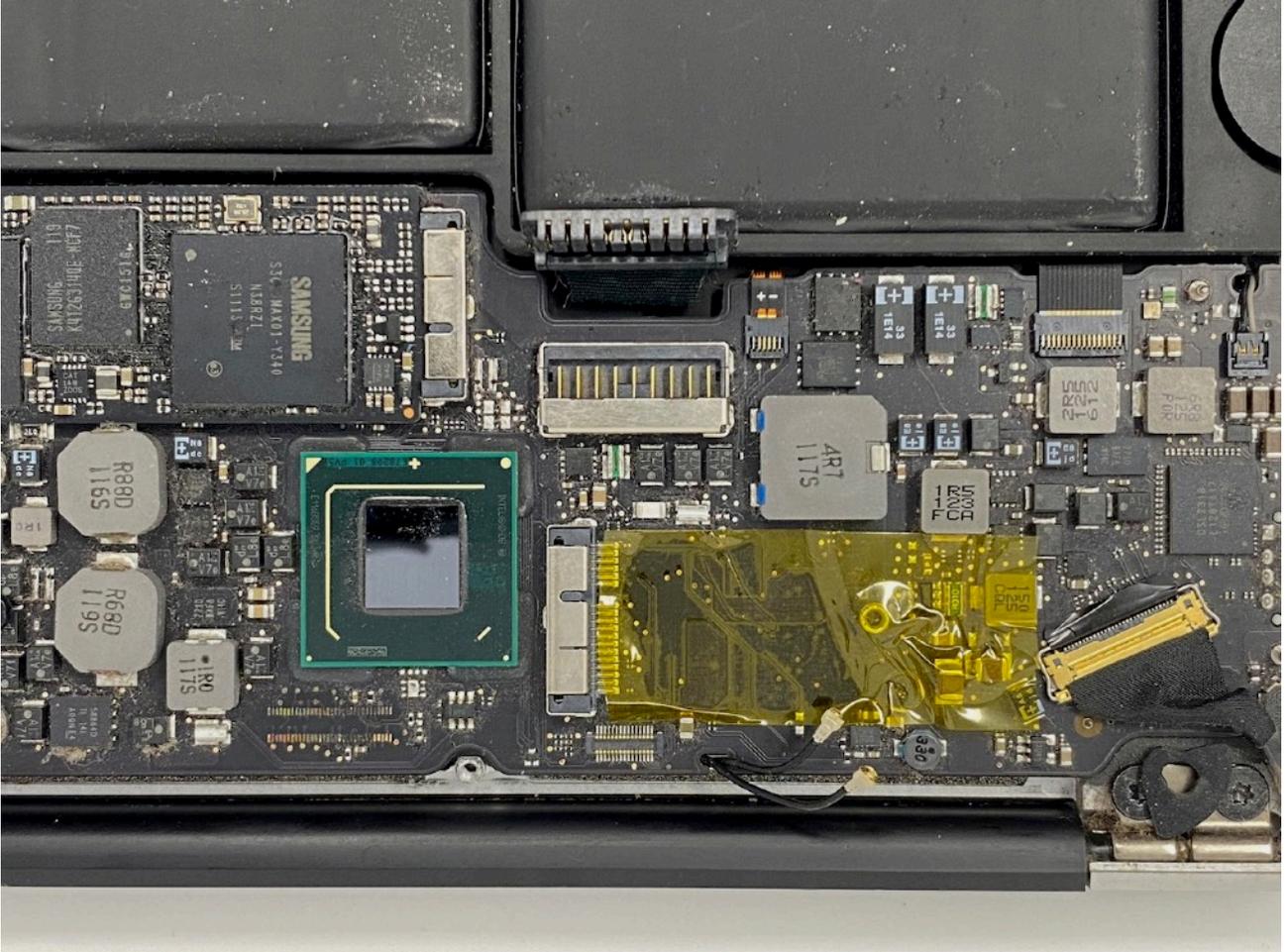
Follow the great iFixit instructions to remove the bottom case and wifi card.

- [11inch MacBook Air A1370 \(Late 2010\)](#)
- [11inch MacBook Air A1370 \(Mid 2011\)](#)
- [11inch MacBook Air A1465 \(Mid 2012\)](#)
- [13inch MacBook Air A1369 \(Late 2010\)](#)
- [13inch MacBook Air A1369 \(Mid 2011\)](#)
- [13inch MacBook Air A1466 \(Mid 2012\)](#)

The screenshot shows the iFixit website interface. At the top, there is a navigation bar with the iFixit logo, links for 'Fix Your Stuff', 'Right to Repair', 'Store', and a currency selector set to 'GBP'. A search bar is also present. Below the navigation bar, the page title is 'MacBook Air 11" Mid 2012 AirPort/Bluetooth Board Replacement'. The author is listed as 'Written By: Andrew Optimus Goldheart (and one other contributor)'. There are 14 comments, 11 favorites, and 10 completions. A difficulty level of 'Moderate' is indicated. The page features a main image of a hand working on the internal components of a MacBook Air. To the right of the image is a sidebar with details: 'Steps: 6', 'Time Required: Suggest a time ??', 'Sections: 3', and 'Flags: 0'. Below the image is an 'Introduction' section stating 'Use this guide to replace a failed AirPort/Bluetooth card.' Underneath, there are 'Tools' listed: 'MacBook Pro and Air 5-Point Pentalobe Screwdriver', 'T5 Torx Screwdriver', and 'Spudger'. A 'Parts' section lists 'MacBook Air (Late 2010-Mid 2012) AirPort/Bluetooth Board' with a 'View' button and a 'Not for sale' status.

2. Insulate the Logic Board

Insulate the logic board that will be covered by the larger WiFi card with tape.

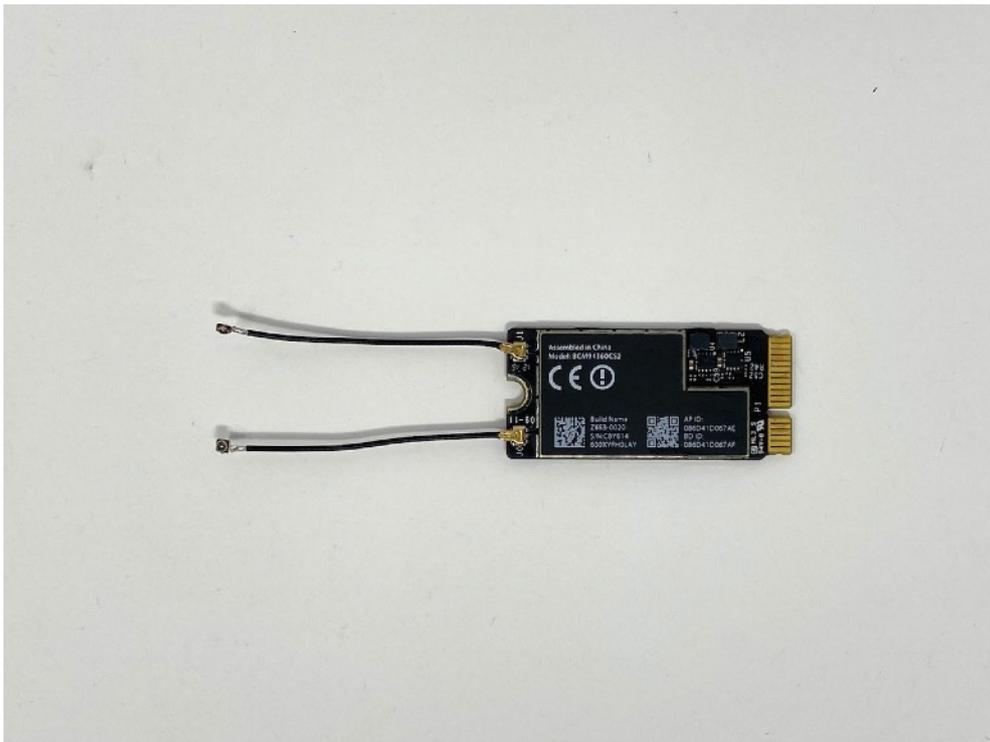


(Note the 2010 11inch A1370 WiFi card is at 90 degrees to all the photos but the installation is the same.)

3. Install the IPEX antenna adapters to the WiFi Card

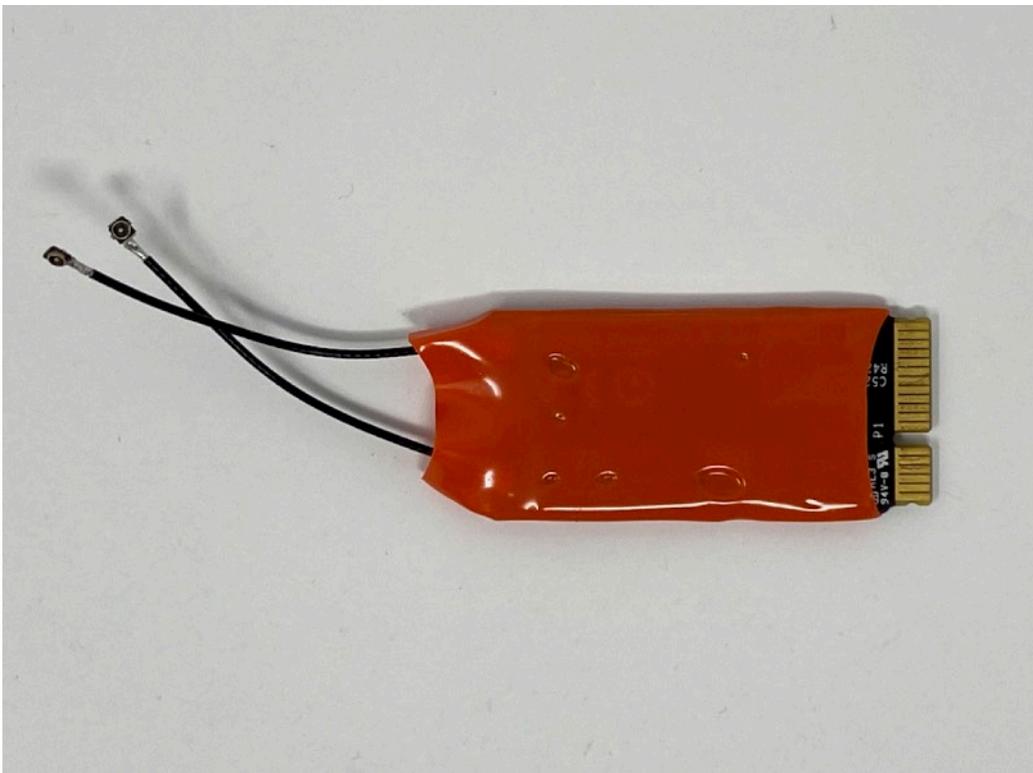
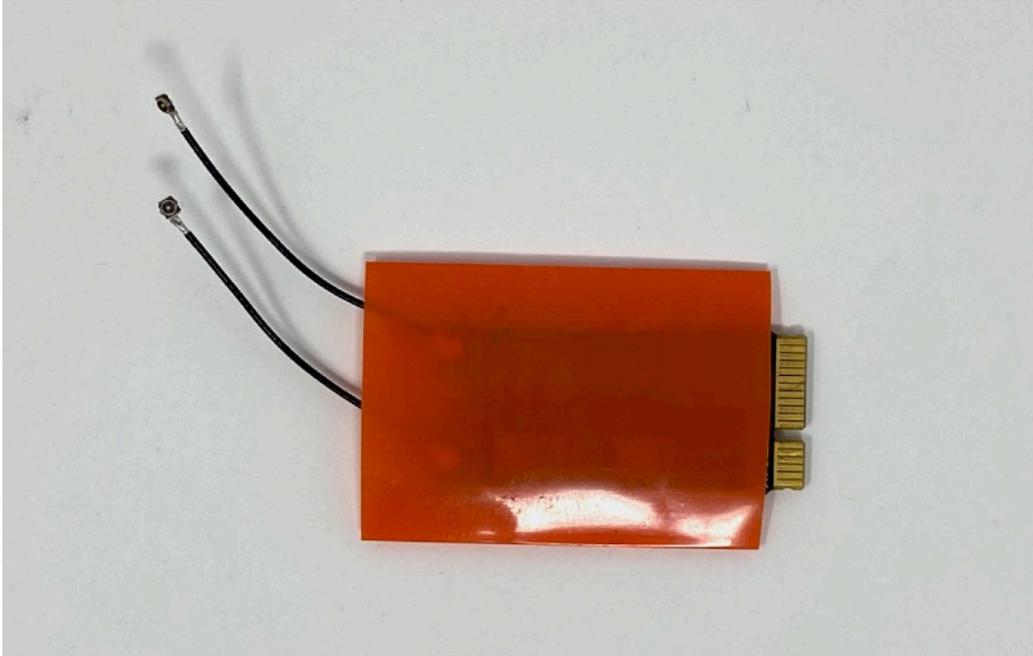
*****These are fragile please be careful ! Try not to pull or bend at the conector, a spare is supplied with the kit if you have any issues. Once in the heat shrink they are much stronger*****

Carefully attach the antenna cables to the card these will be stiff, compress them between your thumb and forefinger, trying not to bend them. These connectors will be tight you may find compressing them with the flat end of a spudger will help you attach them.



4. Insulate the WiFi Card

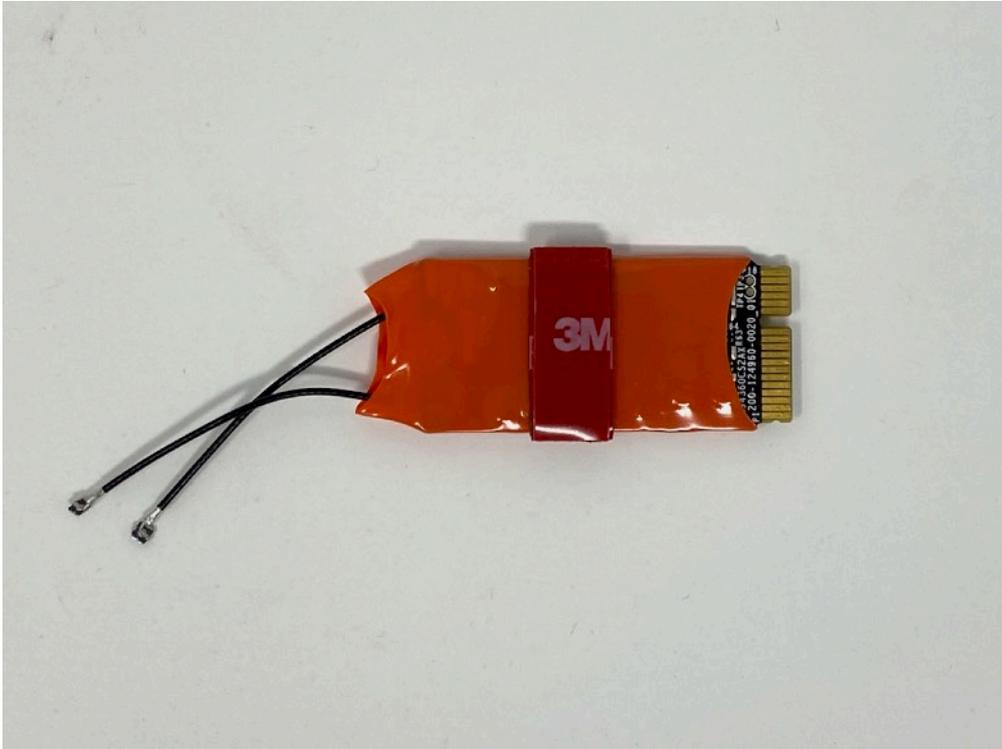
Using the **Orange** heat shrink cut it to 5cm for a BCM94360CS2 slide it over the card and adapter and shrink it either using a hot air gun or hair dryer. For this heat shrink start on a low temperature and slowly increase it until it has conformed to the shape the card and adapter.



5. Attach the 3M VHB Tape

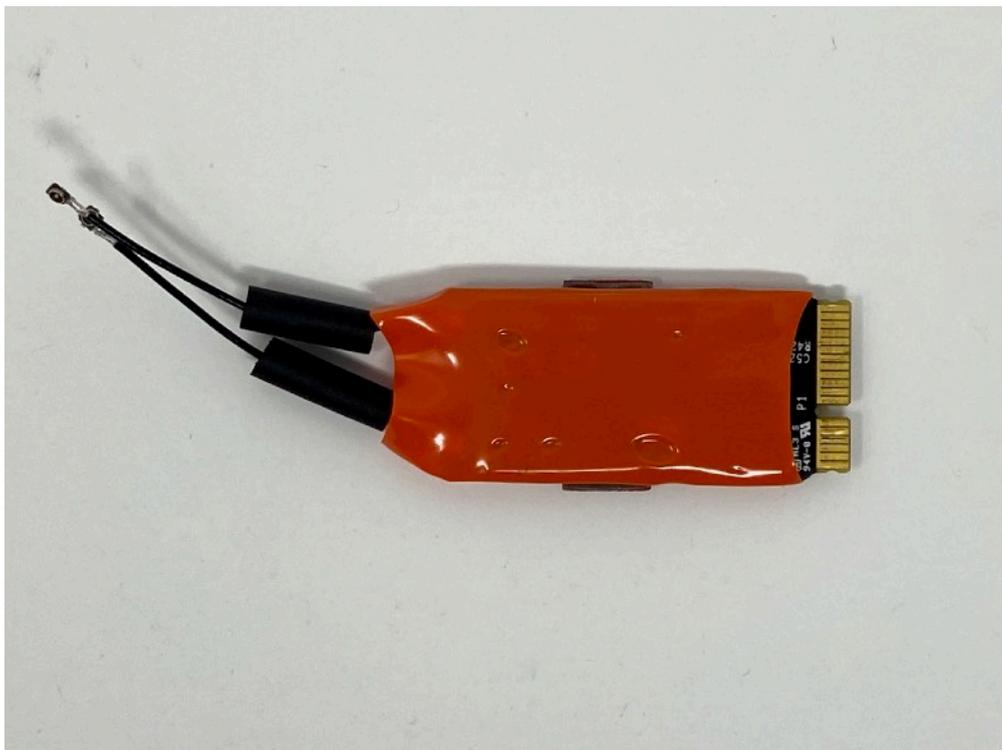
Attach a small piece of .5cm wide 3m VHB tape to the bottom of the card, roughly in the center making sure it doesn't foul on the screw standoff.

(You may need to double this up so that the card sticks to the board if in doubt test fit.)



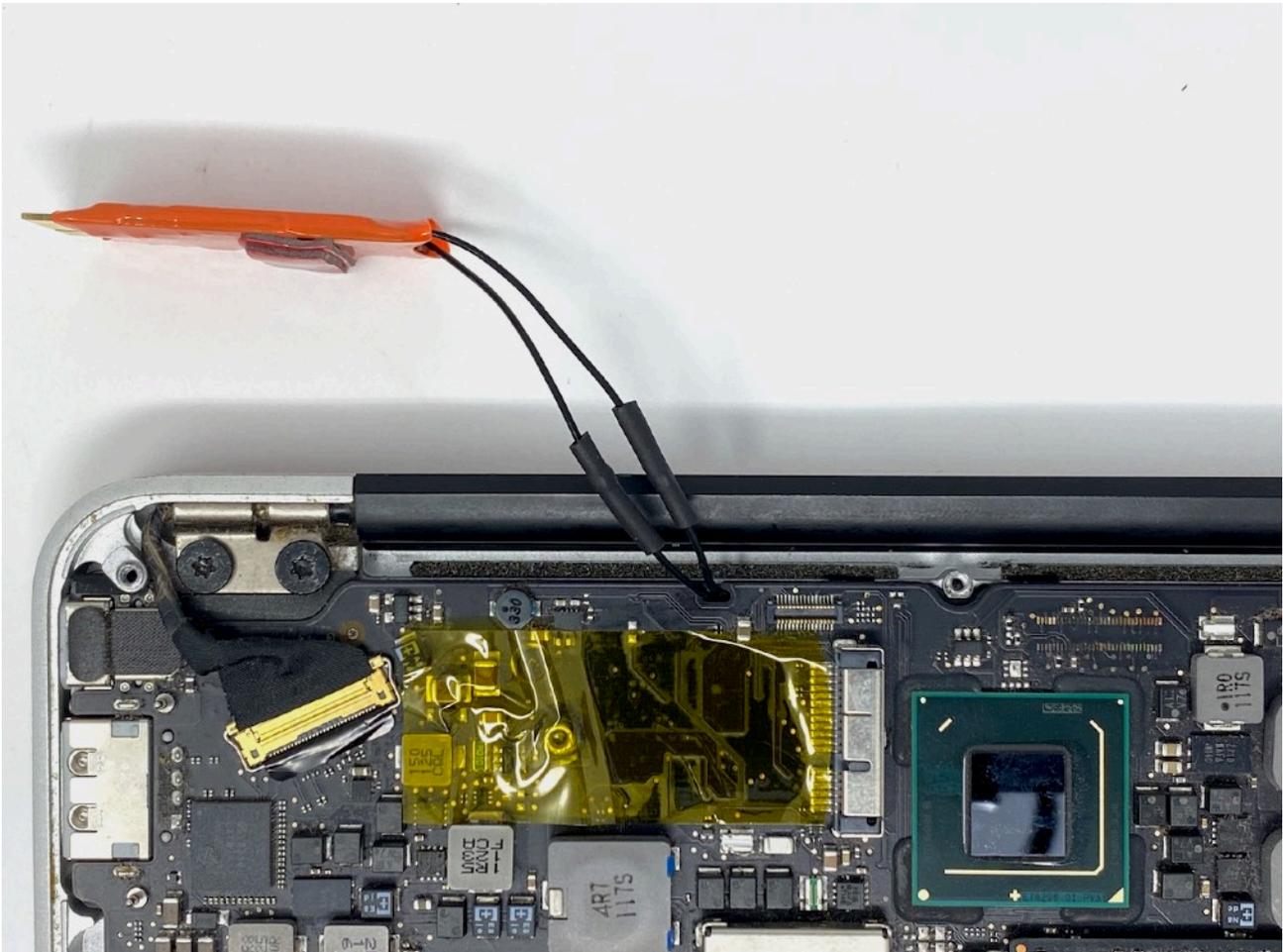
6. Cut the heat shrink

Cut 2 1cm pieces of the black heat shrink and slide them onto the antenna cables



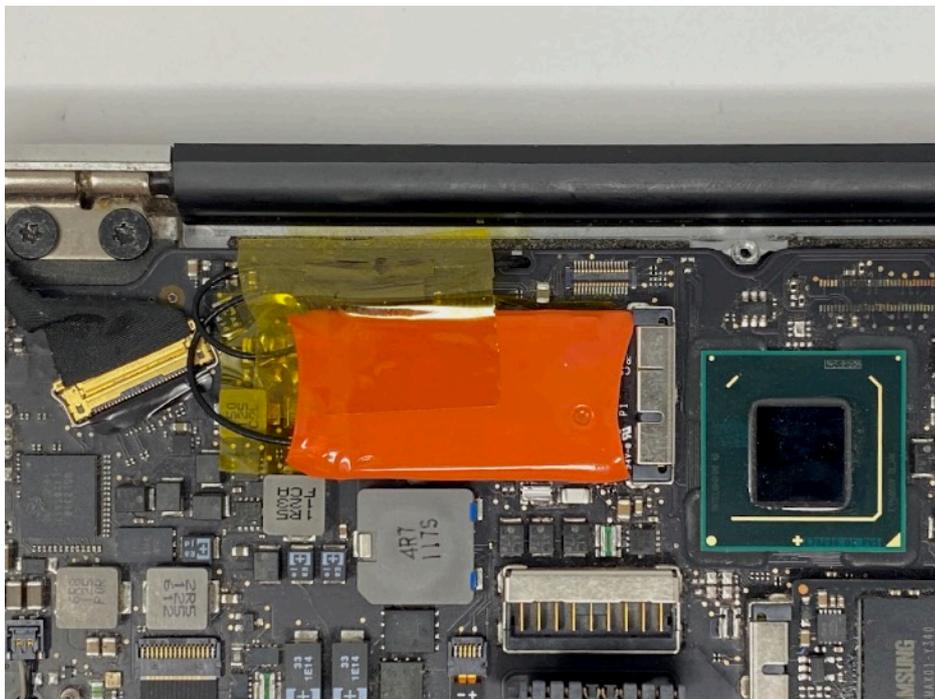
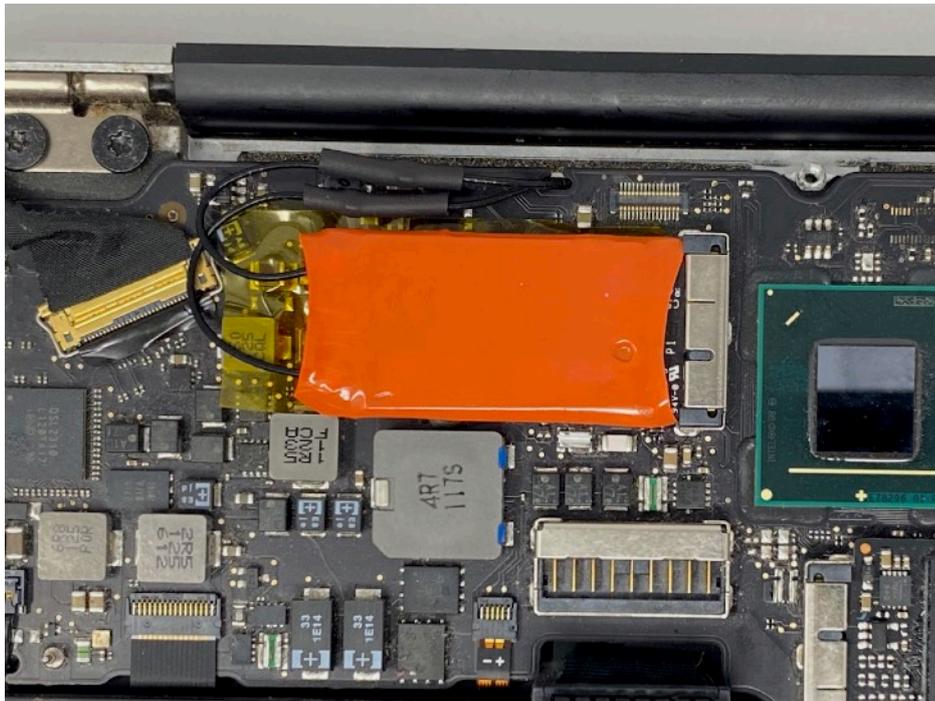
7. Attach the antenna adaptors

- a. Carefully attach the square end of the IPEX adapters to the antenna cables. This is best done by using your thumb and fore finger and carefully compressing them together. If the antenna cables have never been removed and reattached before they will be quite stiff. Be careful as the square end is very fragile and will break easily. Try not to bend the cables at the point they attach together. If one breaks they can be removed with the careful use of a set of tweezers or a knife, don't pull them out push the square end out
- b. Carefully slide the heat shrink over the connectors and shrink them either using a hot air gun or hair dryer.



8. Remove the tape backing and carefully stick the card in place

Install the card into the socket making sure it is seated correctly. The tape is activated by pressure and time so if you are careful you will be able to readjust it slightly quite easily. If you have issues with the fit and need to readjust latter you may find it easier to peel the tape of taking the whole assembly with it and readjusting. It will not sit completely flat but there is just enough clearance that the bottom case will fit back on. Tape down the antenna cables, making sure they are clear of the bottom case grill.



9. Reassemble the laptop

Reassemble the laptop using the iFixit Guide in reverse. Be very careful that the antenna cables are not squashed. The fit is tight, as the space is so limited but the case should close properly.

10. Test the card

Before testing be sure to [Reset the Pram](#) and [Reset the SMC](#)

You should be able to now connect via WiFi and Bluetooth as normal with the new features available with the card of your choice.

*****There is a small chance that you will have software issues because this will vary by OS etc they are out of the scope of this guide if so please contact [Support](#) and we will do our best to help you*****

Troubleshooting Links

[Continuity System Requirements](#)

[Apple Watch Unlocking](#)

[Handoff Support](#)

[Continuity Activation Tool](#)

[Pram Reset](#)

[SMC Reset](#)

Change Log

v1 - Initial version

v1.1 Added updated Troubleshooting Links

v1.2 Clarifications

