

The device that we chose was a Samsung Tab Pro 8.4 that was released in 2014. It didn't work anymore so we decided to use it to extract some parts out of it. Using eBay, iifixit.com, and groupvertical.com, we were able to identify nearly all the parts. The device had a battery, a front and back camera, a charging port, a headphone jack, a home power and volume buttons, a motherboard, a right and left speaker, an antenna contact, an antenna board, and a headphone jack. None of these components seemed to be TI parts as there was no clear indication of so. The only brandings we could find were GoerTek (an asian company) on the right and left speakers. The absence of TI Parts could be because Samsung is a foreign company but that's only a theory. For the role of each component, the speakers, buttons, and camera are all self explanatory as they allow you to play sound, adjust volume and turn on and off the device, and take pictures and record respectively. The headphone Jack allows you to plug in your headphones and the Charging Port to charge the device/battery, also self explanatory. The antenna components were the parts we did not really know about. We could not find anything about the individual parts we had, but through research, it can be assumed that they were used to pick signals such as WiFi, bluetooth, or GPS. Lastly, there is the Motherboard which basically connects all these components, the "backbone" of the device. In summary, we found out how surprisingly simple a device like a Samsung Tablet can be. We were expecting a whole bunch of parts and complicated things but it was neat, organized, and just simple cracking open the device and seeing the innerworkings. We may not have found any TI Parts, but it was educational and fun, giving us a new perspective of our devices during quarantine.



Front

Back



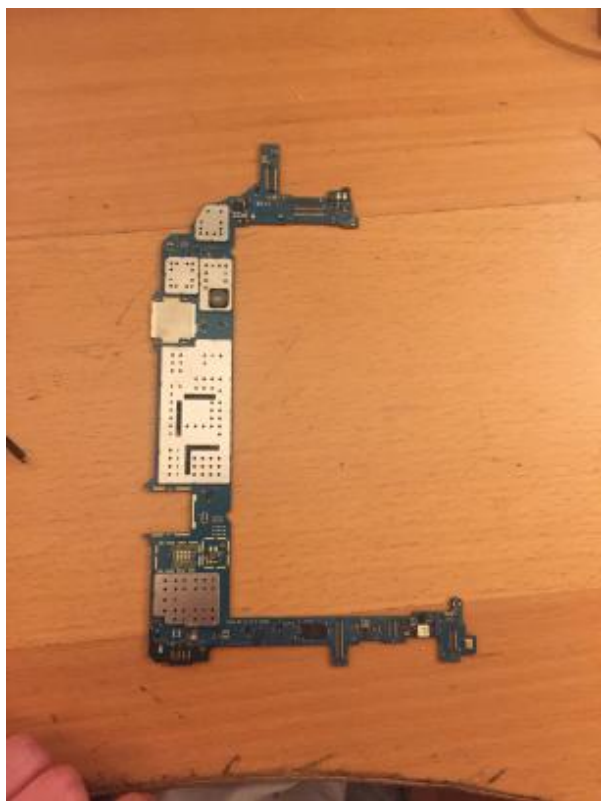
Inside



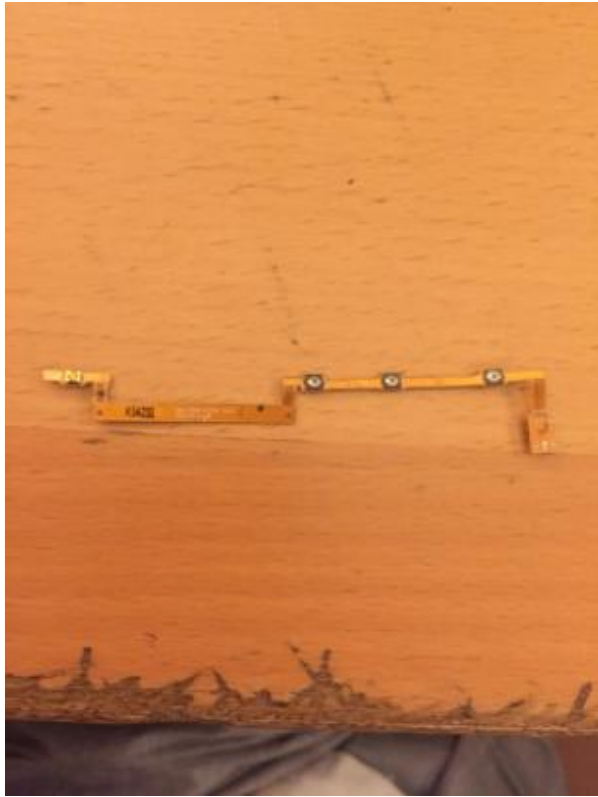
Inside



Battery



Motherboard



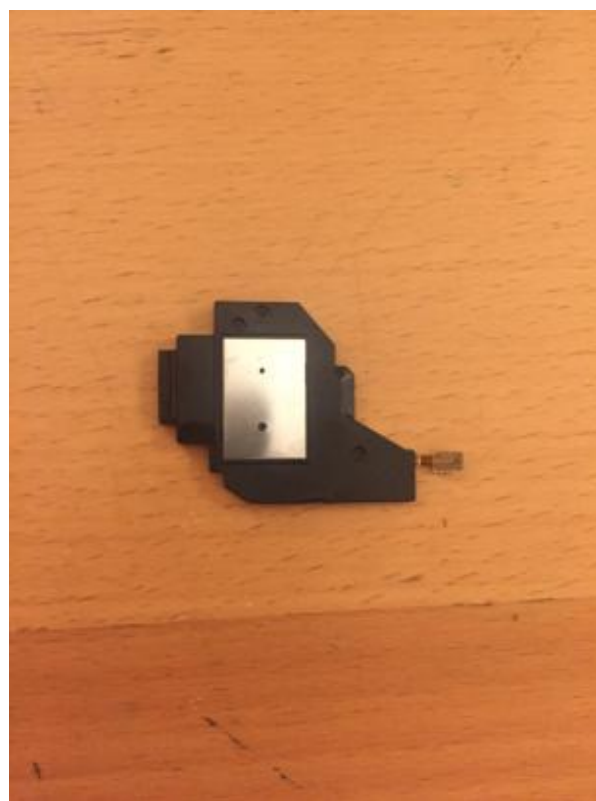
Power and Volume Buttons Cable



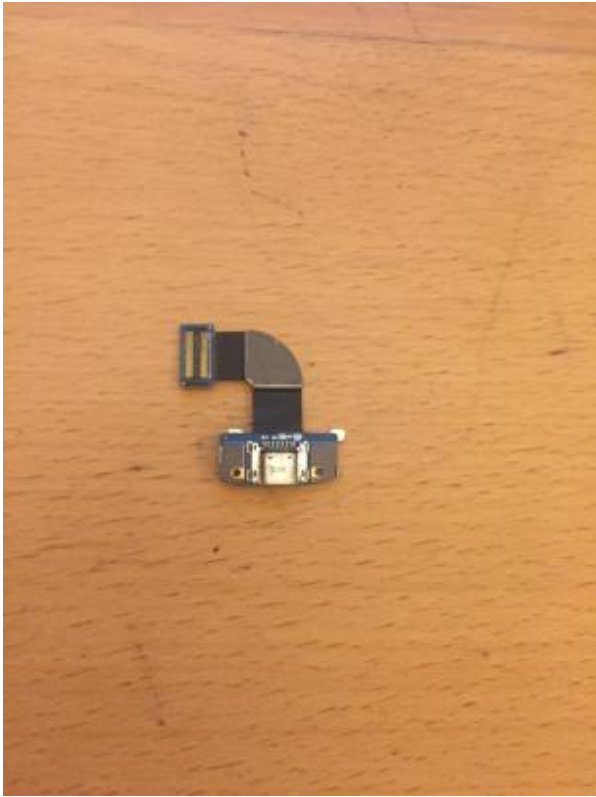
Home Button Flex Cable



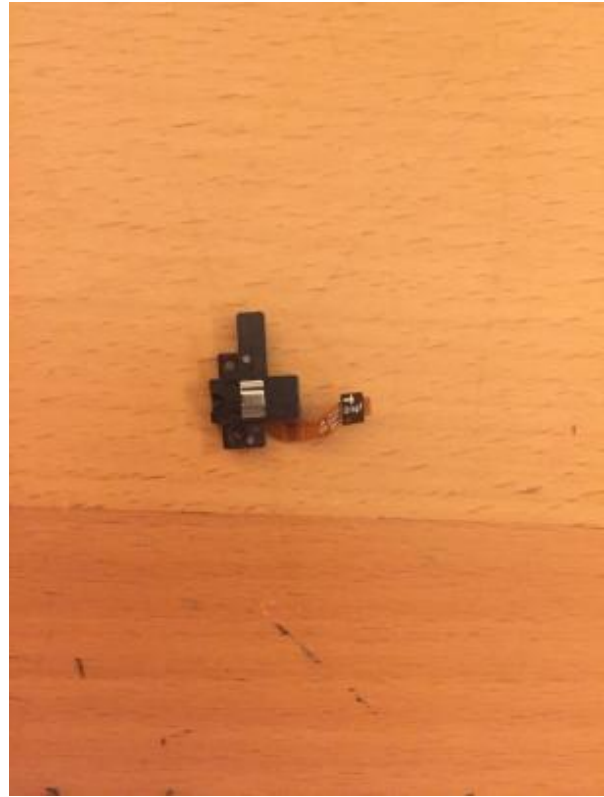
Right Loudspeaker and Vibrator



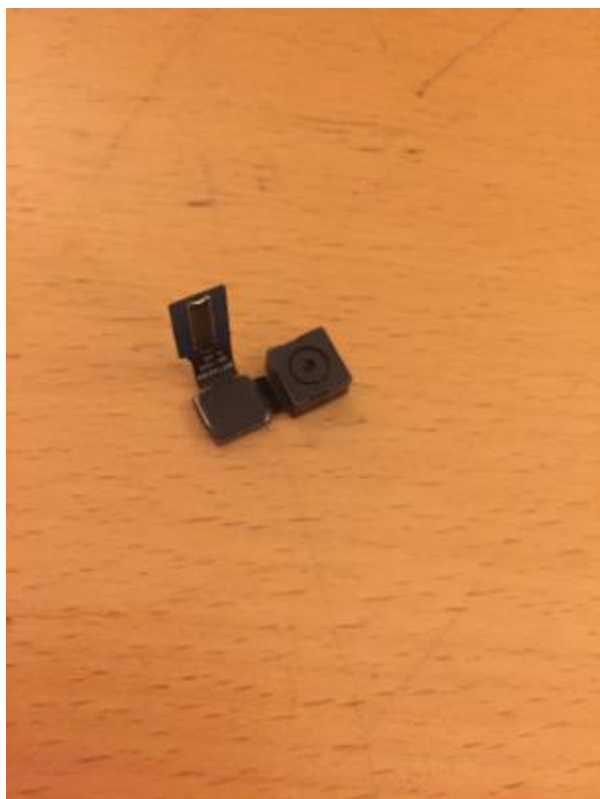
Left Loudspeaker



Charging Port/Micro USB Connector



Headphone Jack

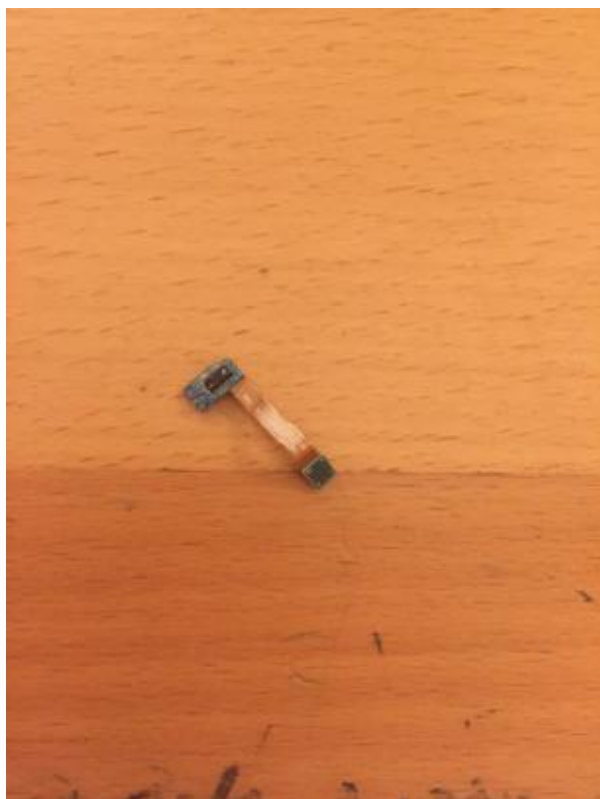


Back Camera

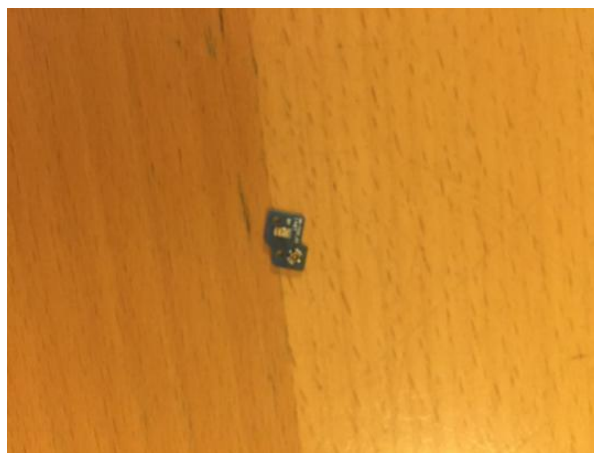


Front Camera



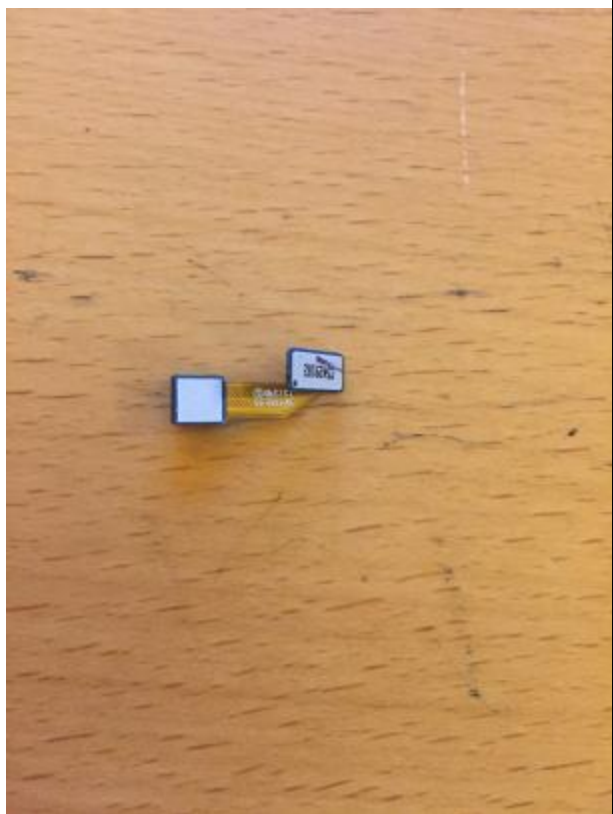


Antenna Contact



Antenna Board Coax Cable





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