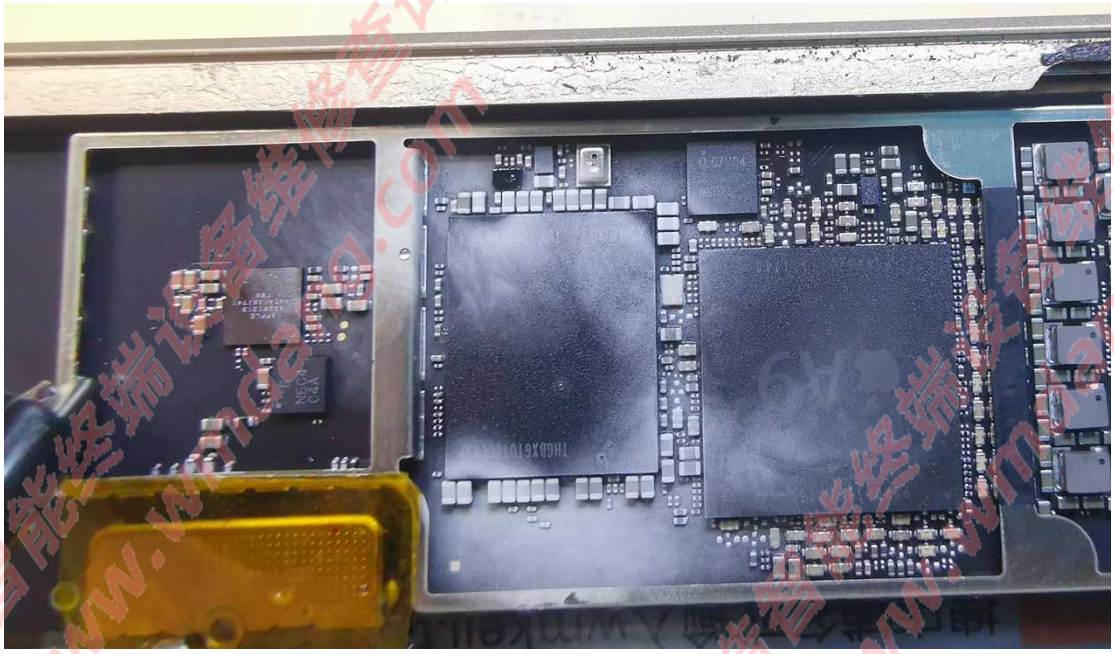
Model: iPad a1822
Fault: high power on current.
Maintenance process: the customer described that the machine did not start.
After the machine is disassembled, it is found that the battery has no voltage. The main board is connected to the regulated power supply to start up, and the current is directly up to about 1.2A.



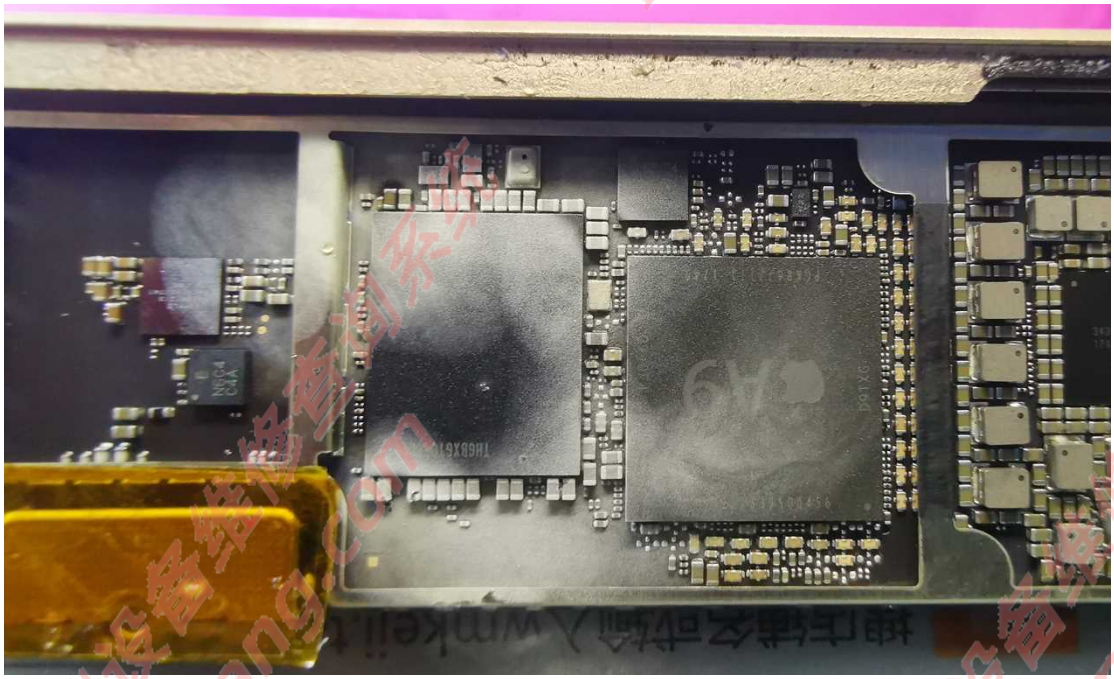
Many of the power on current directly up to 1a in the mobile phone are caused by the 3V power supply short circuit of the hard disk. The capacitance around the hard disk is measured directly, and it is found that there is a capacitance resistance short circuit.



Turn on the hard disk and find a small chip burning.



If you change this small chip at this time, the maintenance direction is wrong. Directly add a voltage to the surrounding capacitance of the hard disk to burn directly. The power supply to the hard disk is only two ways, one is 1.8V and the other is 3V. I don't know how much voltage it is to burn the main board. You can adjust 1.8V to burn first, and then adjust 3V to burn if 1.8 can't burn. Connect the 3V burning machine and find a capacitor under the small chip Melting.



Directly remove the faulty capacitance, measure the resistance again, and remove the short circuit.

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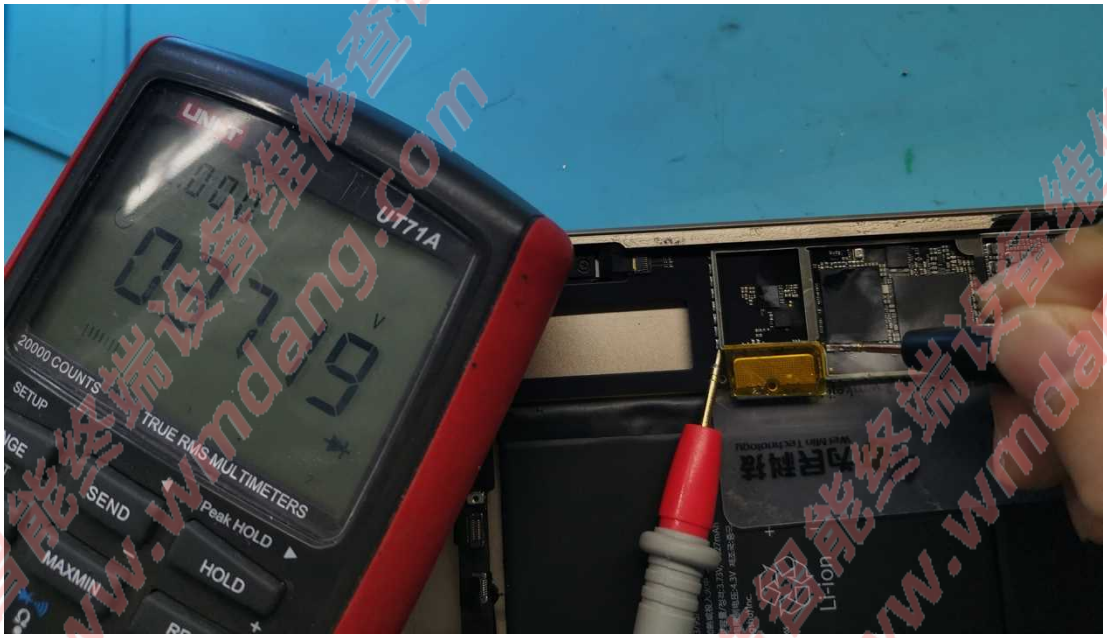

After the battery is activated, it is charged and turned on, and the fault is repaired.



Because there is no drawing for specific analysis, the melted microchip should be similar to the 9-pin converter in the mobile phone. The main power supply gives the microchip a 3V voltage, and the microchip converts the 3V voltage to power the hard disk.

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