HP Omen 15 Disassembly and SSD, HDD, RAM Upgrade Options

In my case, the laptop is HP OMEN by HP 15-ax219TX. You can use this guide on all HP OMEN by HP 15-ax series laptops.
In this guide, I will remove the back cover, battery, SSD, RAM, Wi-Fi card, hard drive, cooling fan, heat sink and motherboard. Refer to the guide. You can replace and upgrade SSD, RAM and HDD for your HP Omen 15 laptop.

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1. Remove the back cover

Remove all screws that securing the back cover to the laptop.
Insert a thin plastic tool or credit card under the back cover. Slide the credit card along the edge of

the back cover. Then the back cover comes off easily.

With the back cover removed, you can get access to the battery, SSD, RAM, Wi-Fi card, hard drive, cooling fan and heat sink.

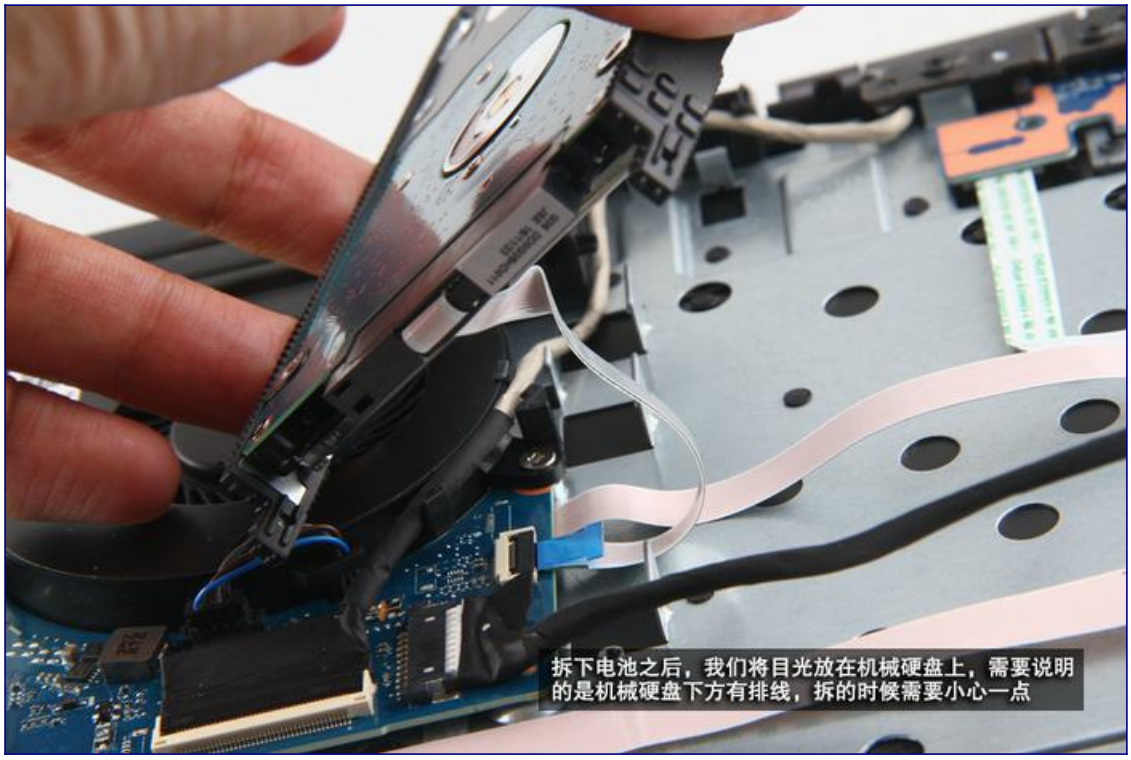
2. Remove the battery

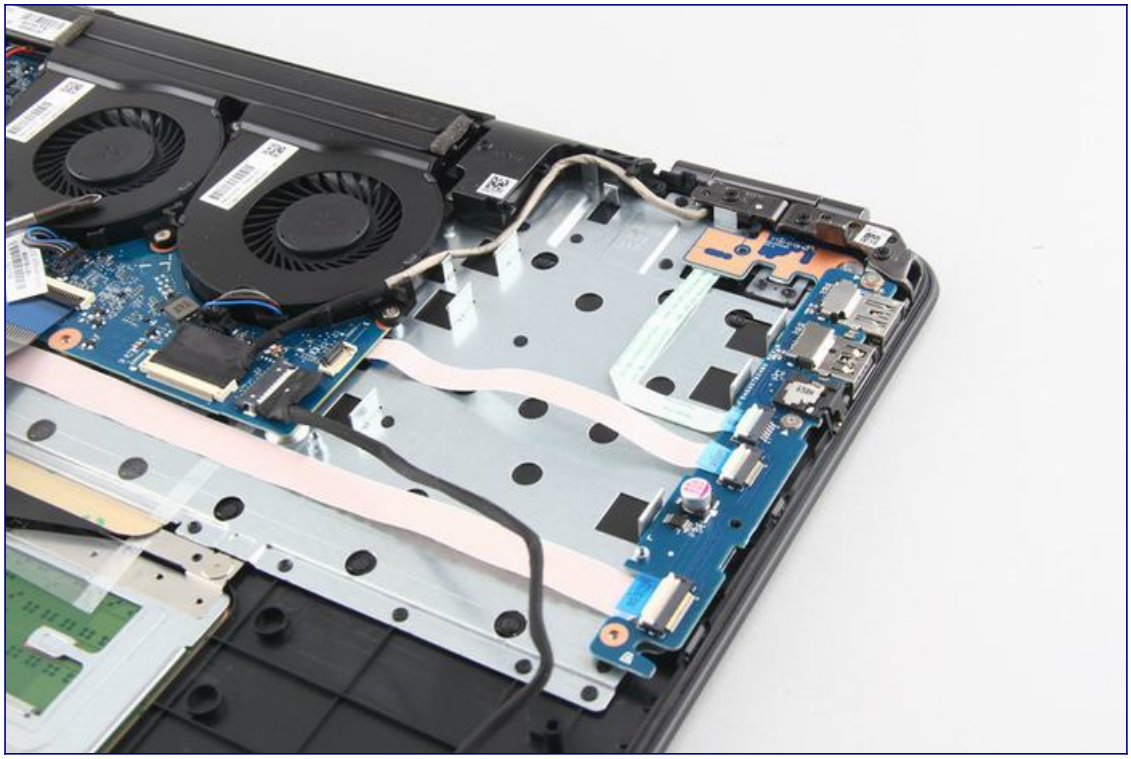
Disconnect the battery cable from the motherboard.
Remove all screws that securing the battery to the laptop.
Lift up and remove the battery.

The HP Omen 15 comes with a 15.4V, 63.3Wh, 4112mAh Li-ion battery, HP P/N: HSTNN-DB7T.

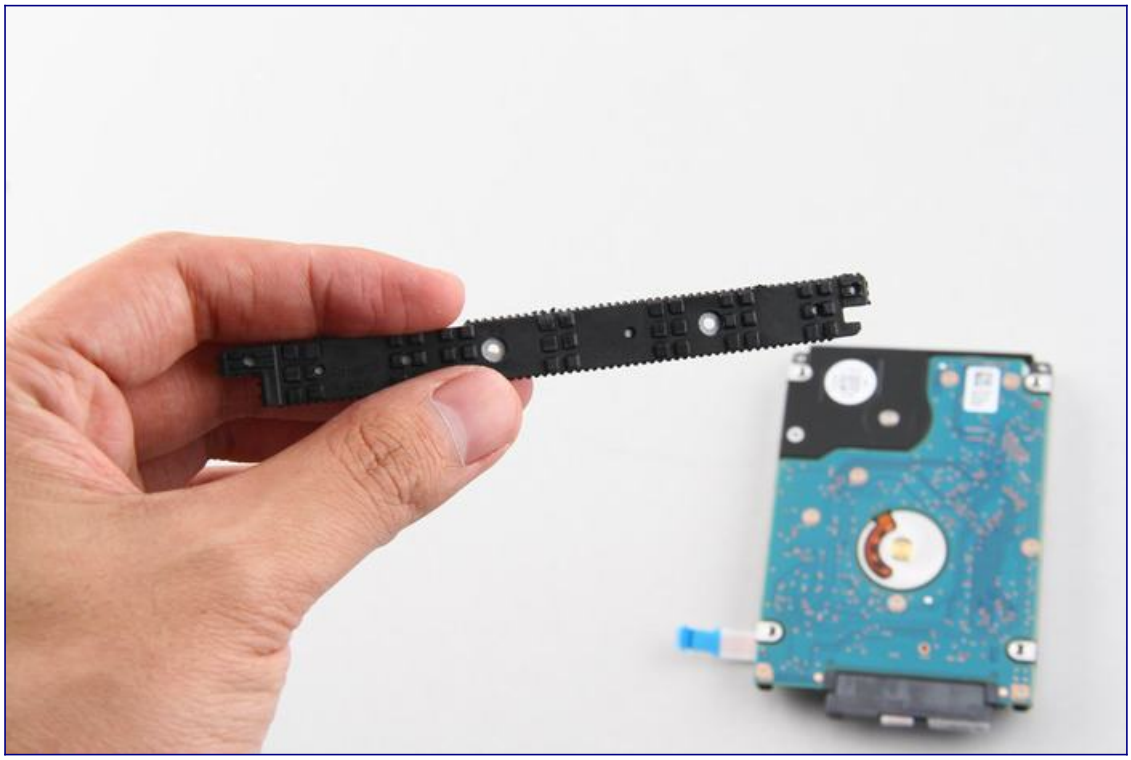
3. Remove the hard drive

Disconnect the HDD cable from the hard drive.
Lift up and remove the hard drive module.





Vibration will cause irreversible damage to the mechanical hard disk, so the HP Omen in the mechanical hard disk on both sides.

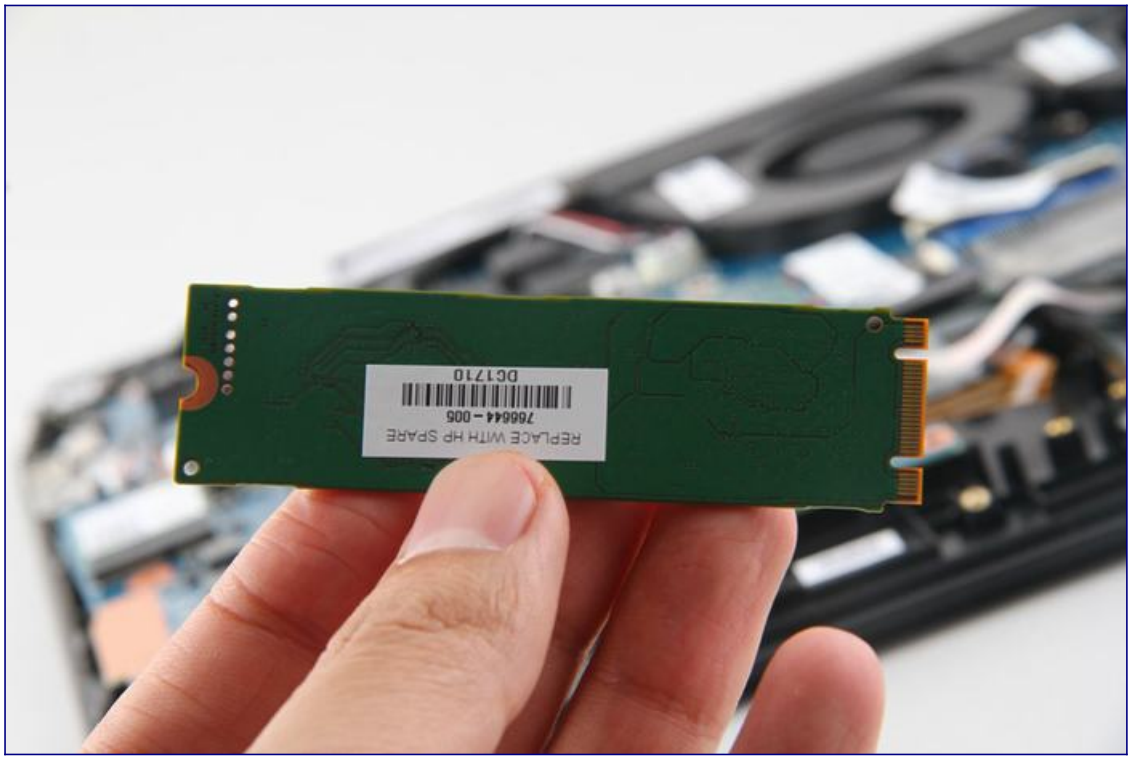


In my case, the HP Omen comes with an HGST 1TB 7200RPM SATA 6.0Gb/s hard drive.

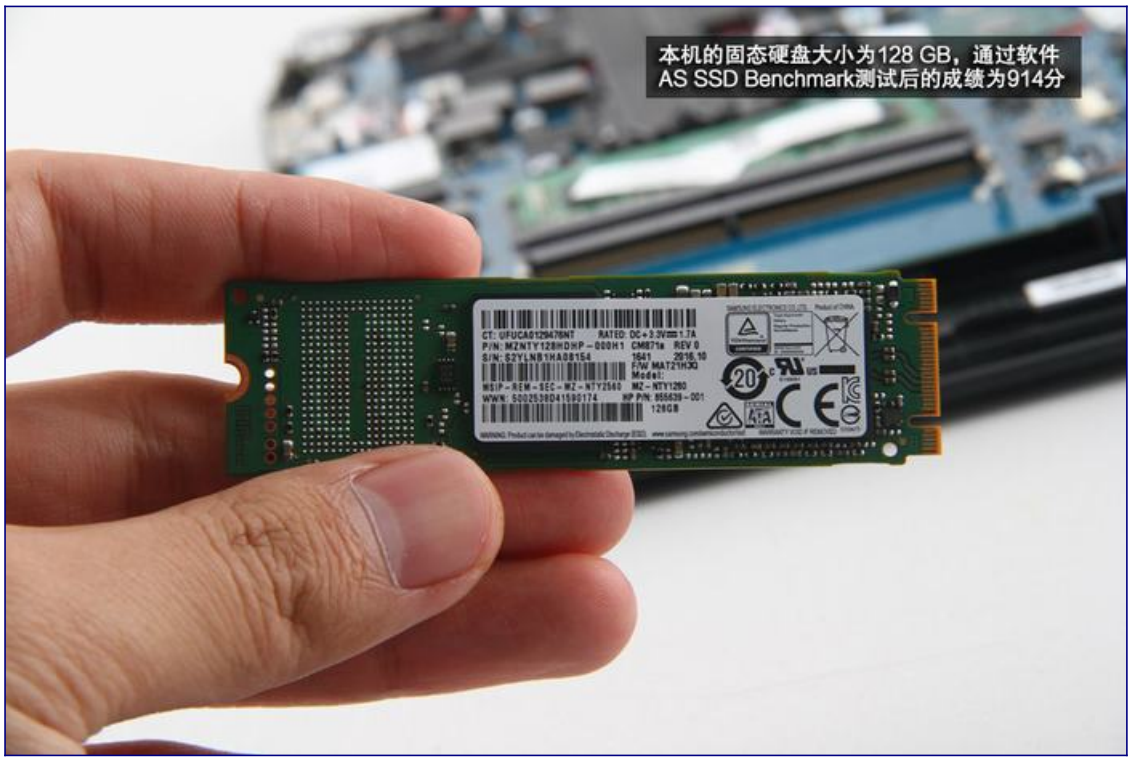
4. Remove the SSD

Remove the screws that securing the SSD.
Take out the SSD from its slot.

HP P/N: 766644-005



Samsung MZ-NTY1280 CM871a 128GB M.2 SSD, speed evaluation: Read 535M/S, Write:515M/S (This is the Samsung official specifications, the actual speed may have some difference due to the use of the scene and Device configuration).



5. Remove the RAM

The motherboard holds two RAM slots and in our case, one slot is occupied by a Samsung 8GB PC4-2400T RAM.
So you can add another Samsung 8GB PC4-2400T RAM.

6. Remove the wireless card

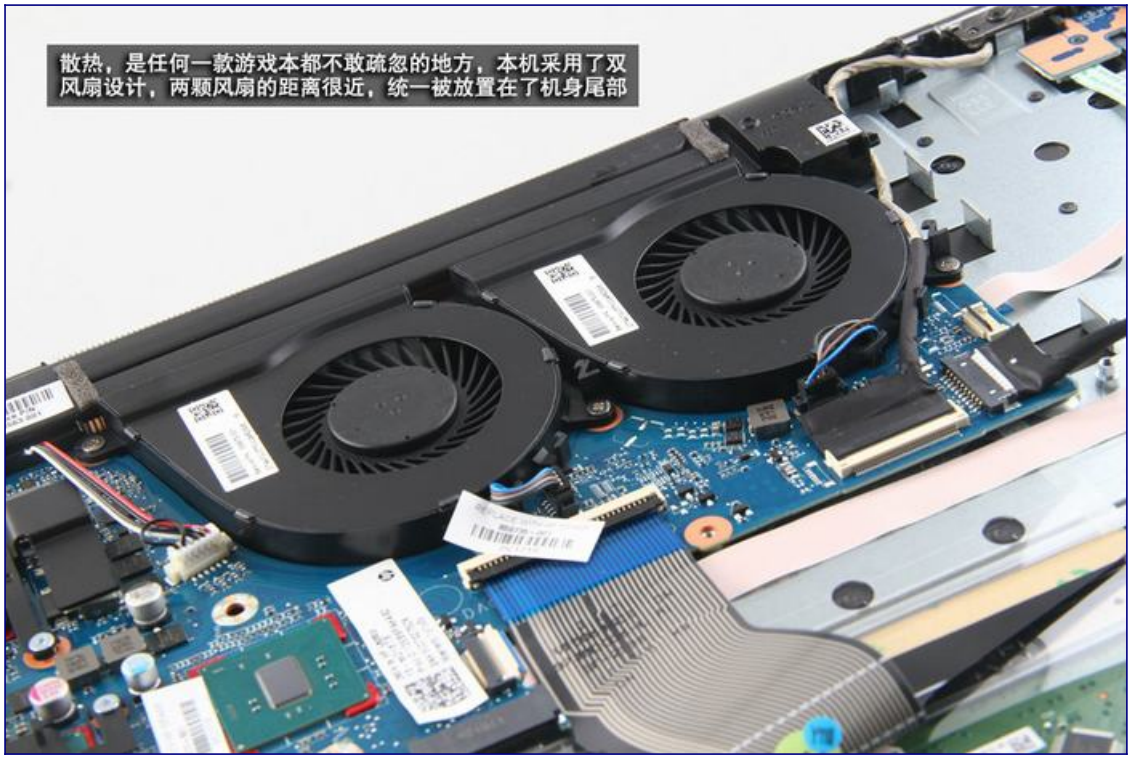
Remove one screw securing the wireless card.
Unplug two antenna cables from the card.
Take it out of its M.2 slot.

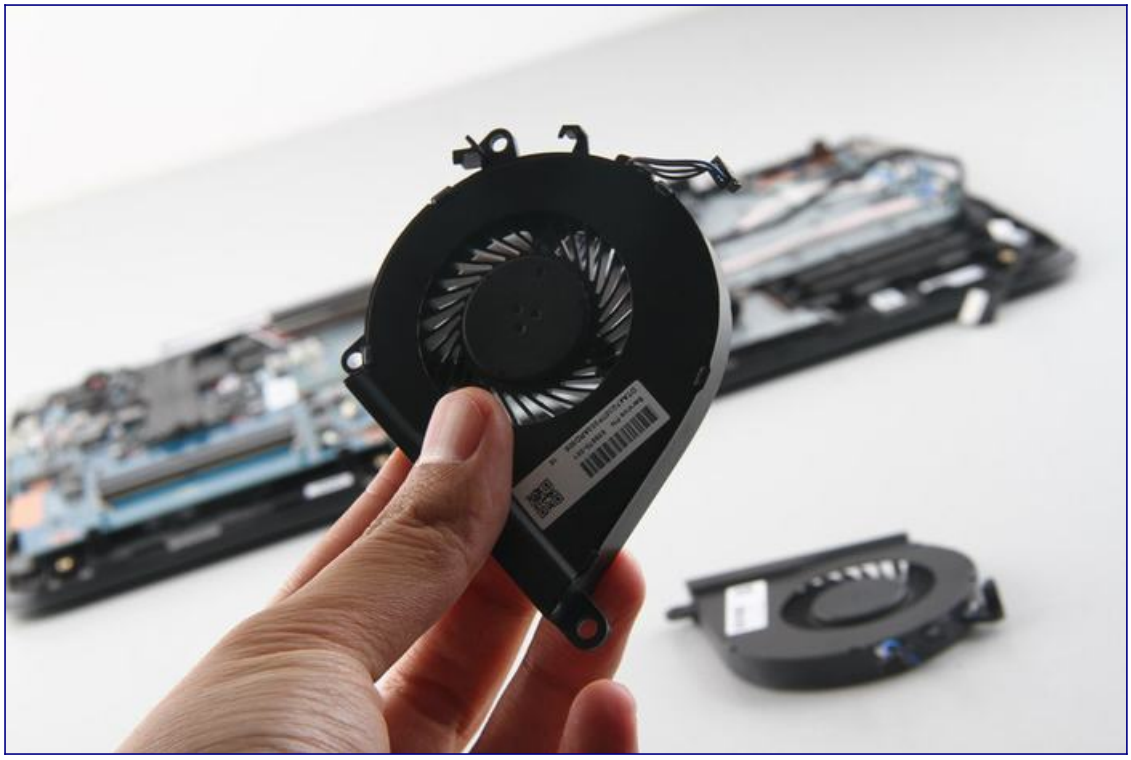
Intel Dual Band Wireless-AC 7265NGW wireless card, it supports 802.11ac, 2 x 2 Wi-Fi* and Bluetooth 4.0.

HP P/N: 793840-001.

7. Remove the cooling fan

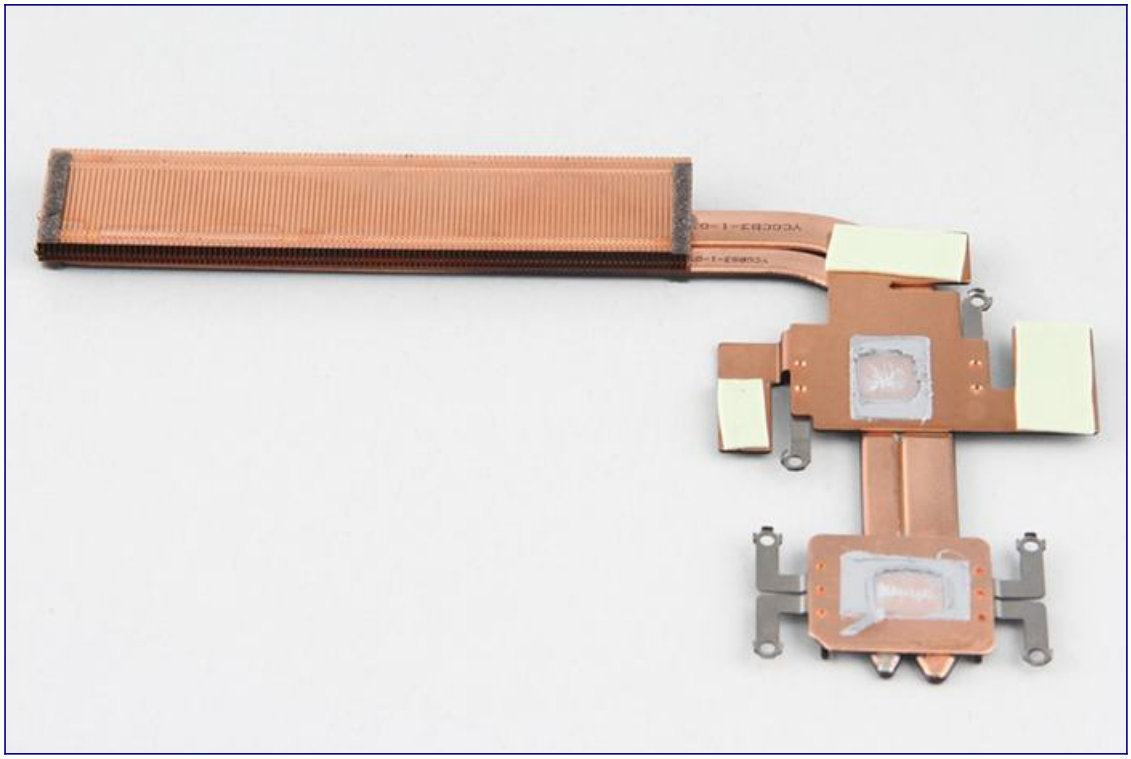
Remove all screws that securing the cooling fan.
Disconnect the cooling fan cable from the motherboard.



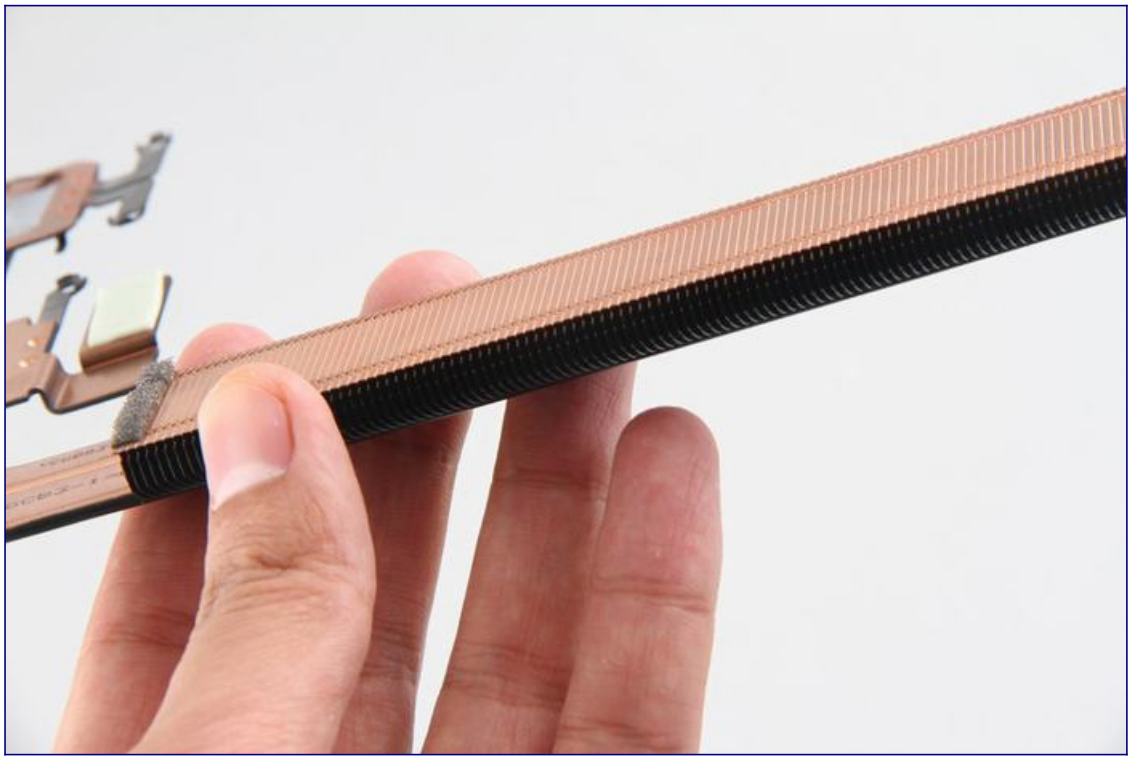


7. Remove the heat sink

Remove six screws securing the heat sink to the motherboard.
Lift up and remove the heat sink.

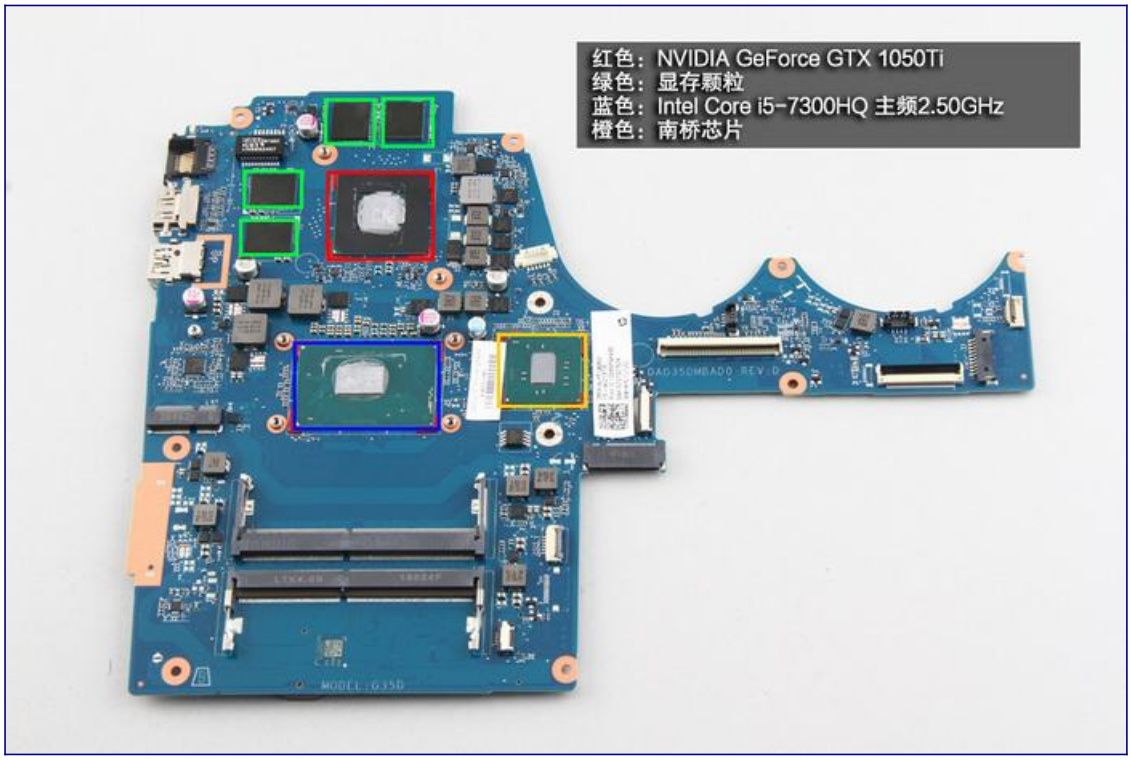


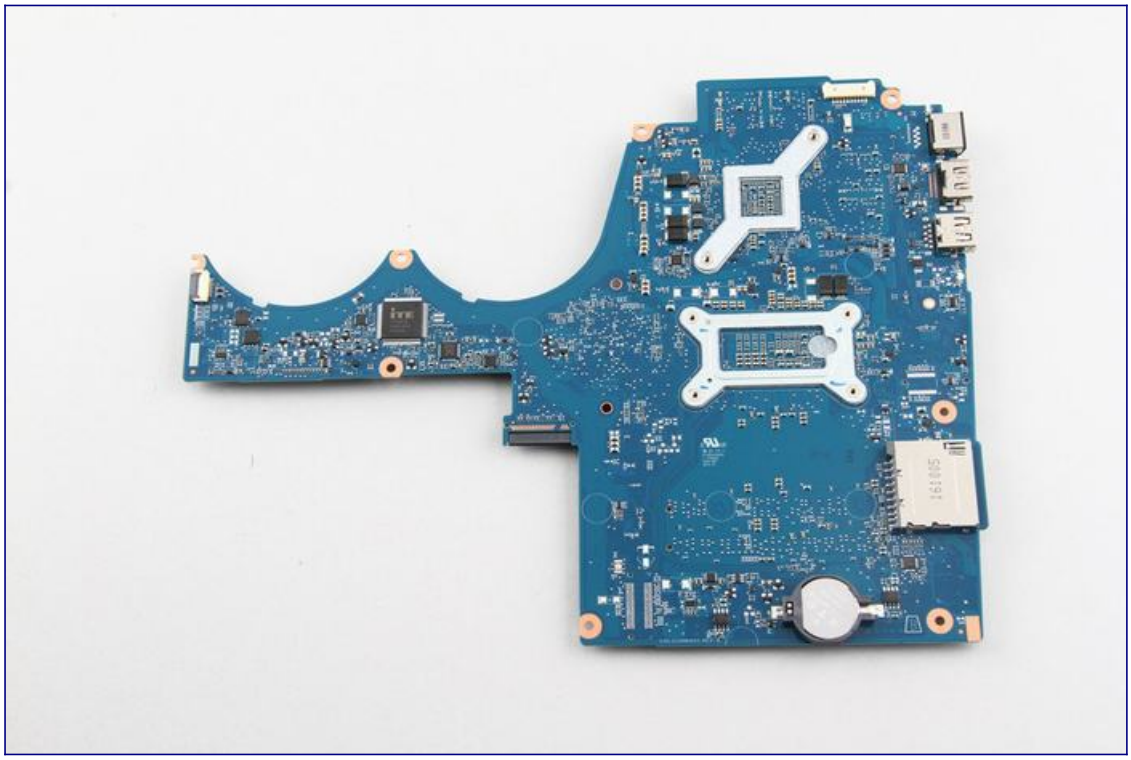
The heat sink and the copper tube are connected together. This advantage is more conducive to heat dissipation.

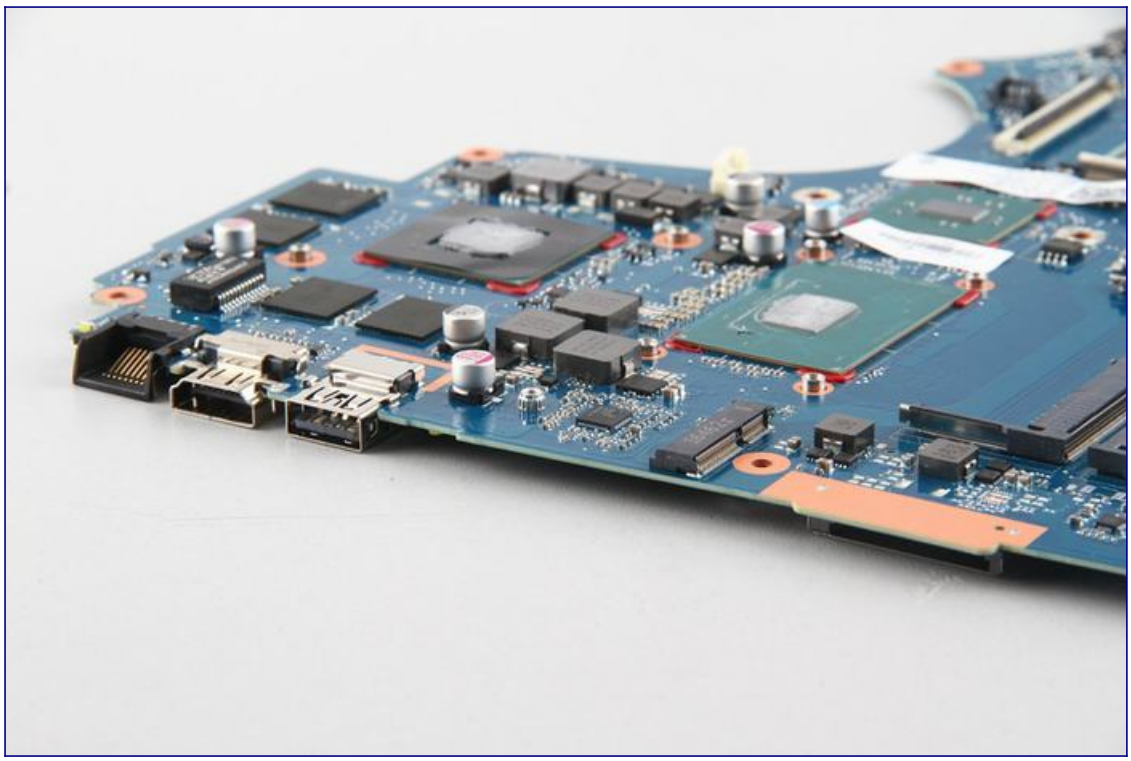


Red: NVIDIA GeForce GTX 1050Ti
Green: video memory
Blue: Intel Core i5-7300HQ 2.50 GHz Processor (6M Cache, up to 3.50 GHz), with Intel® HD 630 Graphics card

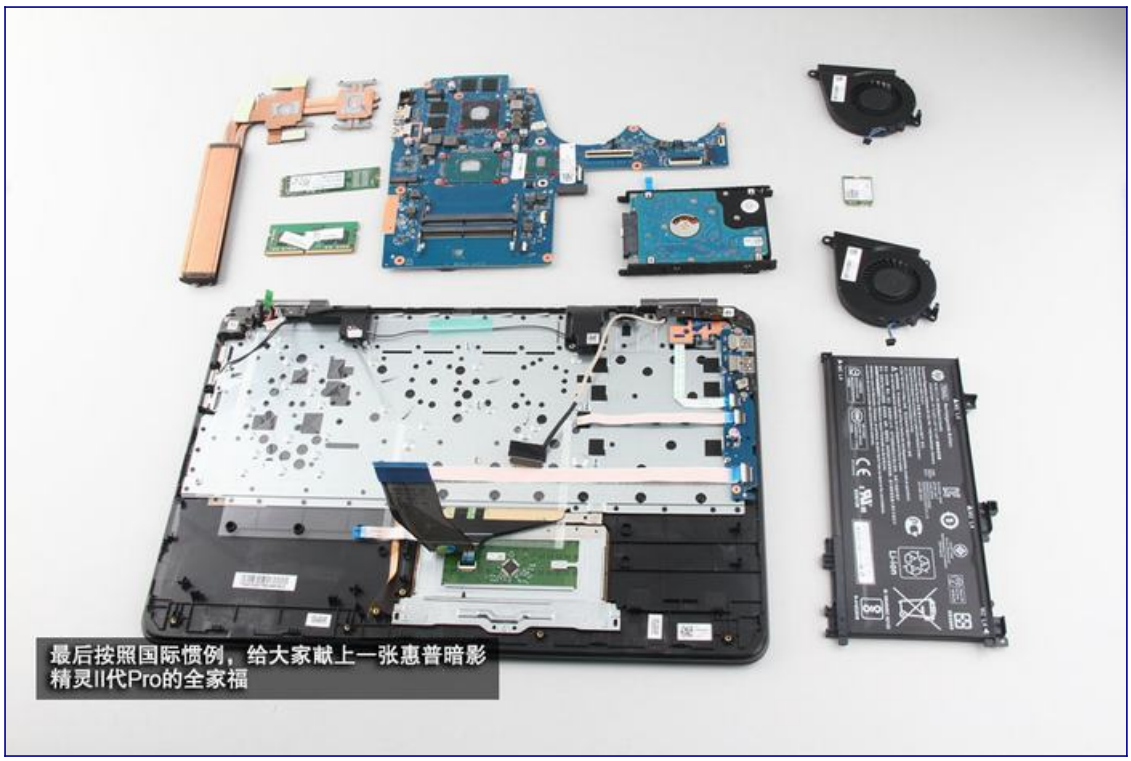
Orange: South Bridge







With the motherboard removed, you can get access to the keyboard cover. It would be very difficult to replace the keyboard.



Now HP Omen 15 disassemble process has been completed.

Related Parts

120Hz FHD IPS LCD Screen for HP Omen 15-ce – 752920-019
Original Cooling Fan for HP Omen 15-ce – L22261-001 929455-001 929456-001
Original Keyboard for HP Omen 15-ce – 929479-001 929478-001
Original LCD Cable for HP Omen 15-ce – 929451-001
144HZ FHD IPS screen for HP Omen 15-DC – L24378-001
FHD IPS screen for HP Omen 15-DC0051nr 15-DC0030nr – L24374-001

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