

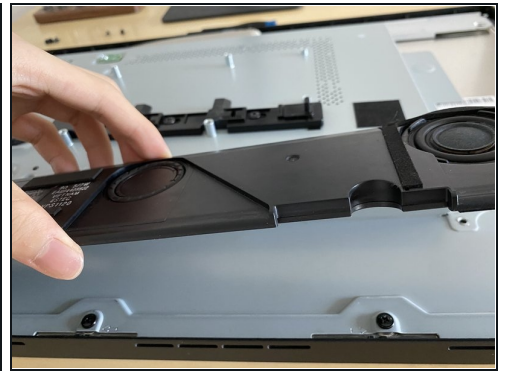
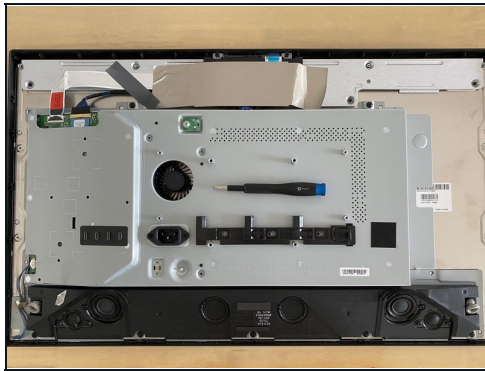
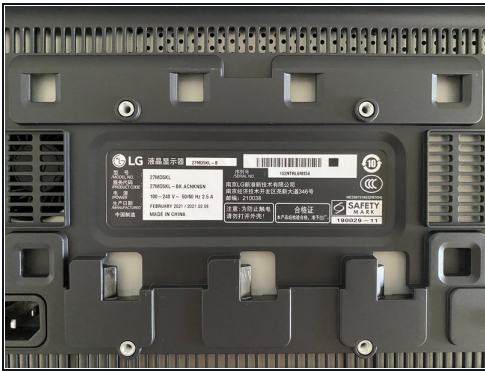


LG UltraFine 5K Teardown

Written By: Andy Zeng



Step 1 — LG UltraFine 5K Teardown



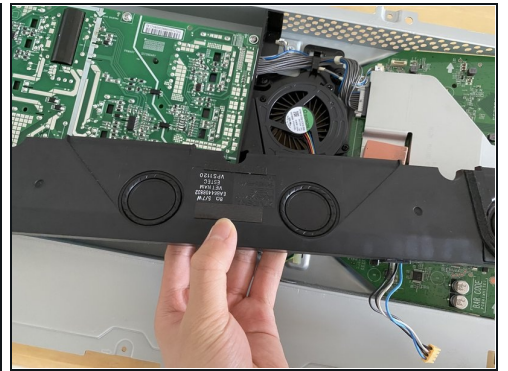
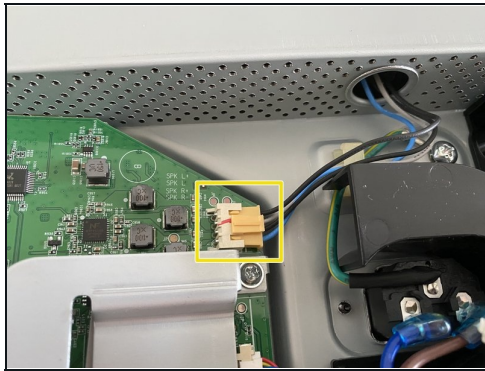
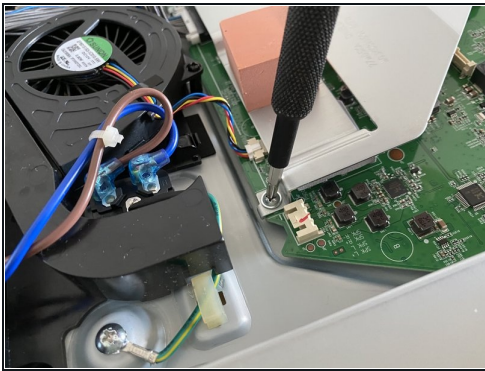
- LG 27MD5KL

Step 2



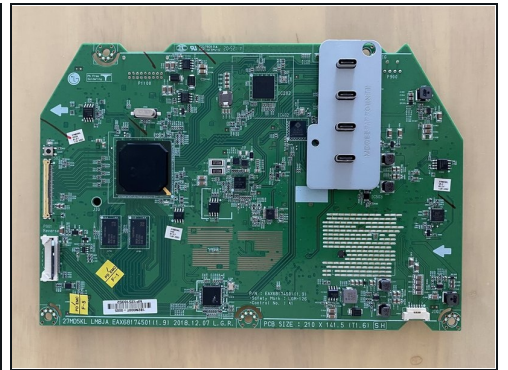
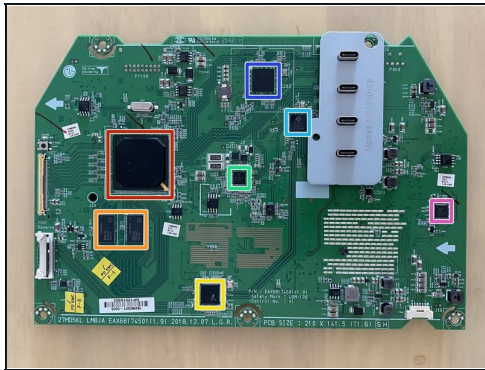
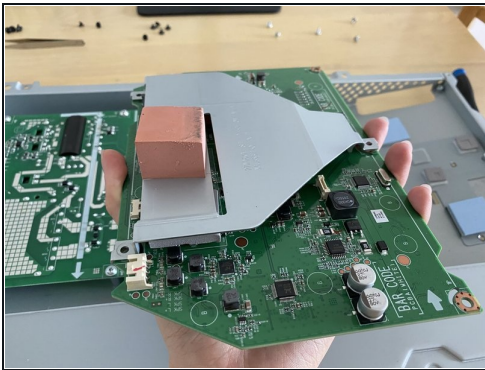
- Disconnect the cables
- Webcam module cable
- Display panel cable
- Service button (Factory testing)
- LG Display LM270QQ2 LCD Panel

Step 3



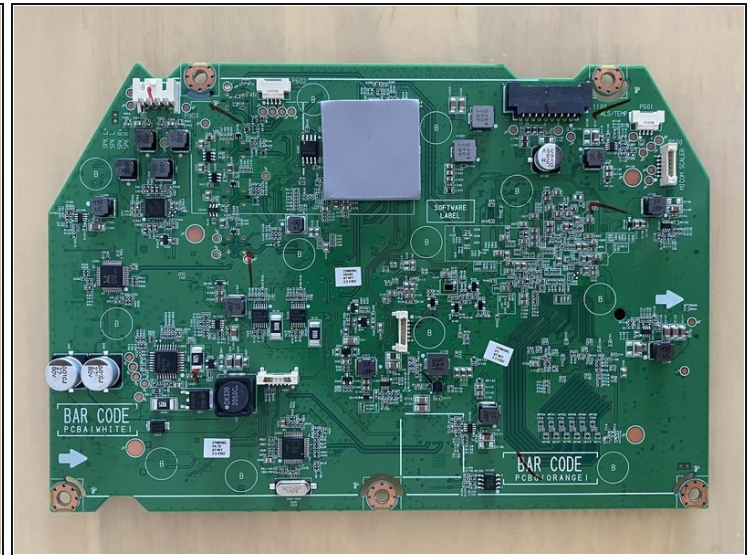
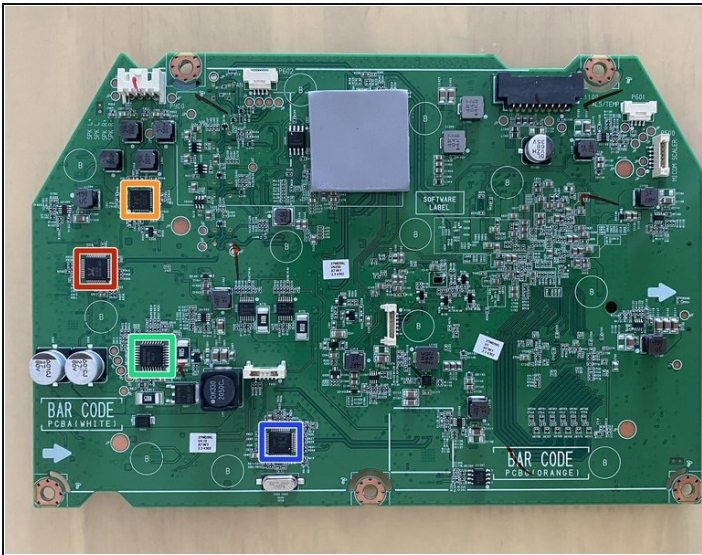
- Speaker cable
- Speaker module

Step 4



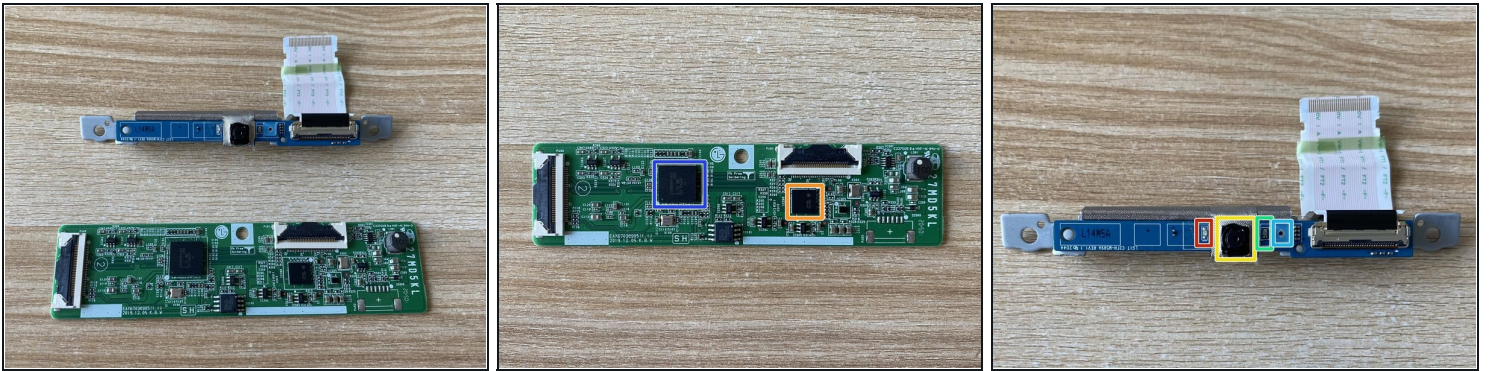
- Chip ID for the logic board
- Realtek RTD2799 Monitor Controller
- Samsung DDR3 RAM
- Texas Instruments TUSB8041 Four-Port Super-Speed USB 3.0 Hubs
- Texas Instruments TPS65983B USB Type-C and Power Delivery (PD) 3.0 Controller
- Genesys Logic GL3523 USB 3.1 Gen 1 Hub Controller
- Intel JHL7440 Thunderbolt 3 Controller (Titan Ridge)
- NTP7515D Audio Amp

Step 5



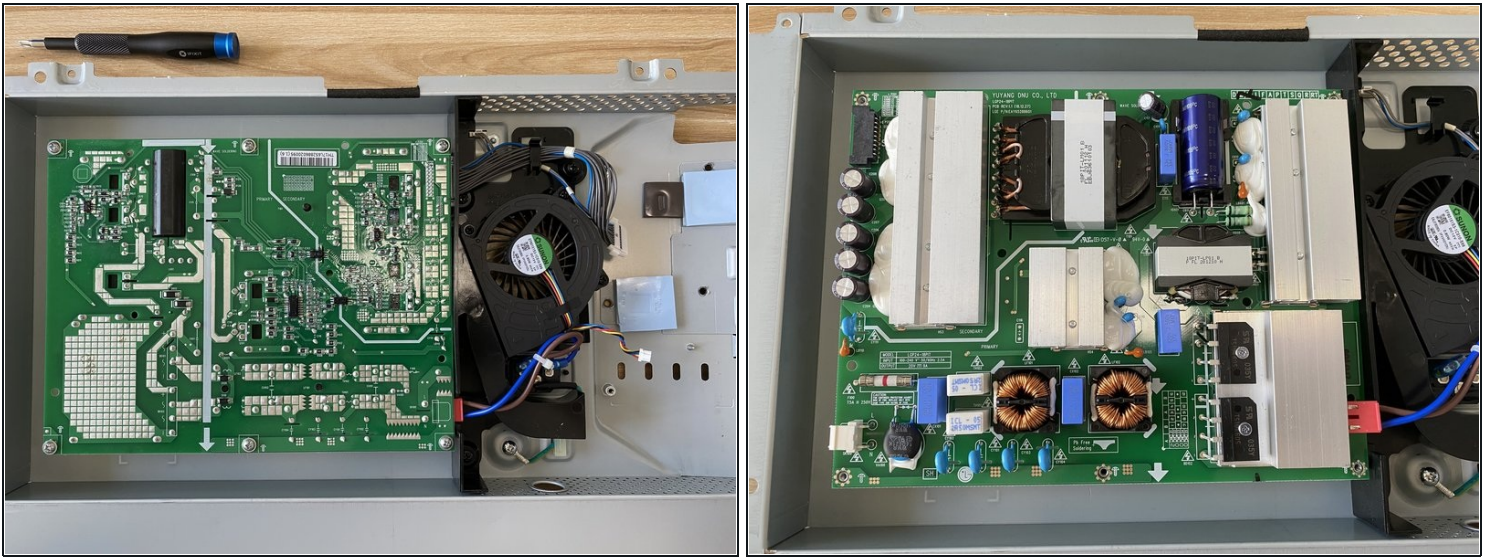
- Chip ID for the logic board
- Realtek ALC4020 Audio IC
- NTP7515D Audio Amp
- Texas Instruments LP8860AQ1 LED Driver
- NXP Semiconductors LPC1114U68J 32-bit Microcontroller

Step 6



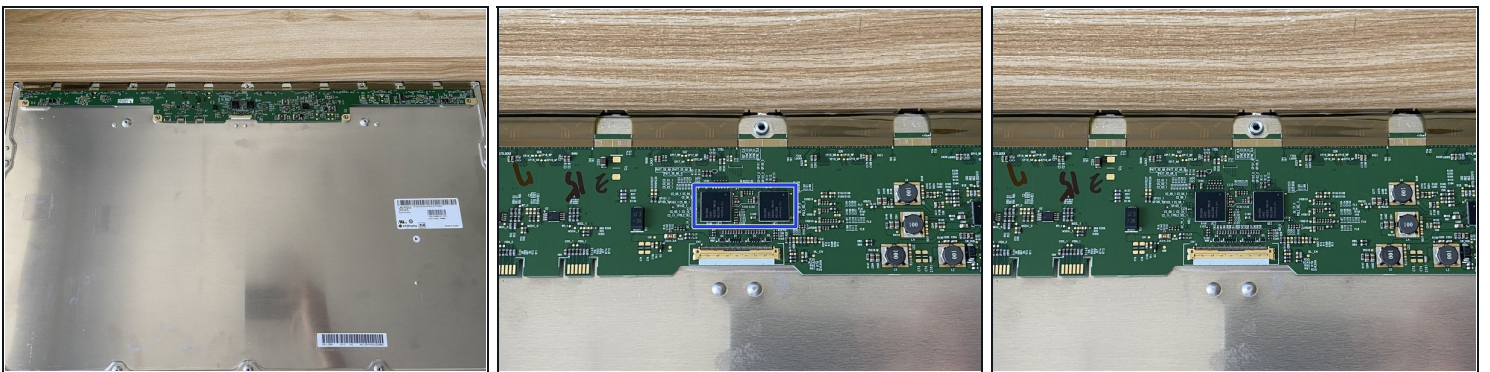
- Webcam module with Microphone, Ambient light sensor and Camera indicator light.
- Cypress Semiconductor CYUSB3064-BZXC USB SuperSpeed Camera Controller
- STMicroelectronics Image Signal Processor (ISP)
- Camera indicator light
- Camera
- Ambient light sensor
- Microphone

Step 7



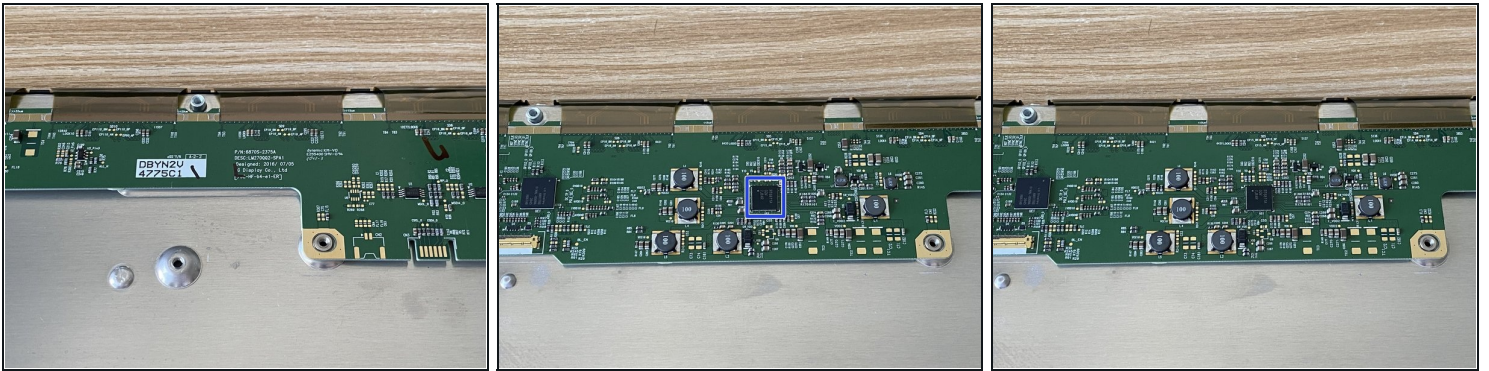
- AC-DC Adapter module

Step 8



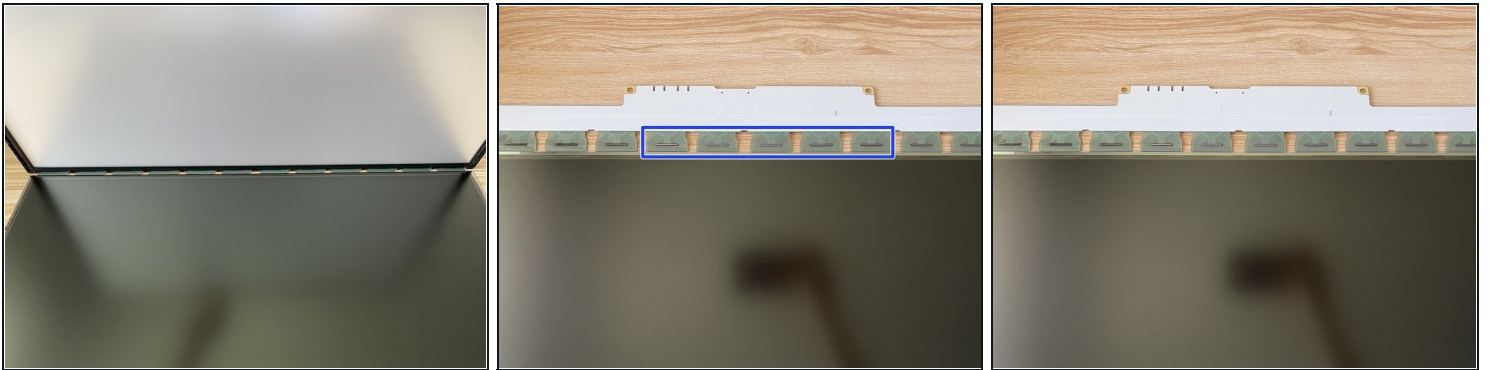
- Chip ID for the LCD control board
- Analogix/LG Display ANX1706 Display Controller

Step 9



- Chip ID for the LCD control board
- Richtek Technology RT6811A IC

Step 10



- Separate the LCD structure inside the panel
- The cable between control board and panel

Step 11



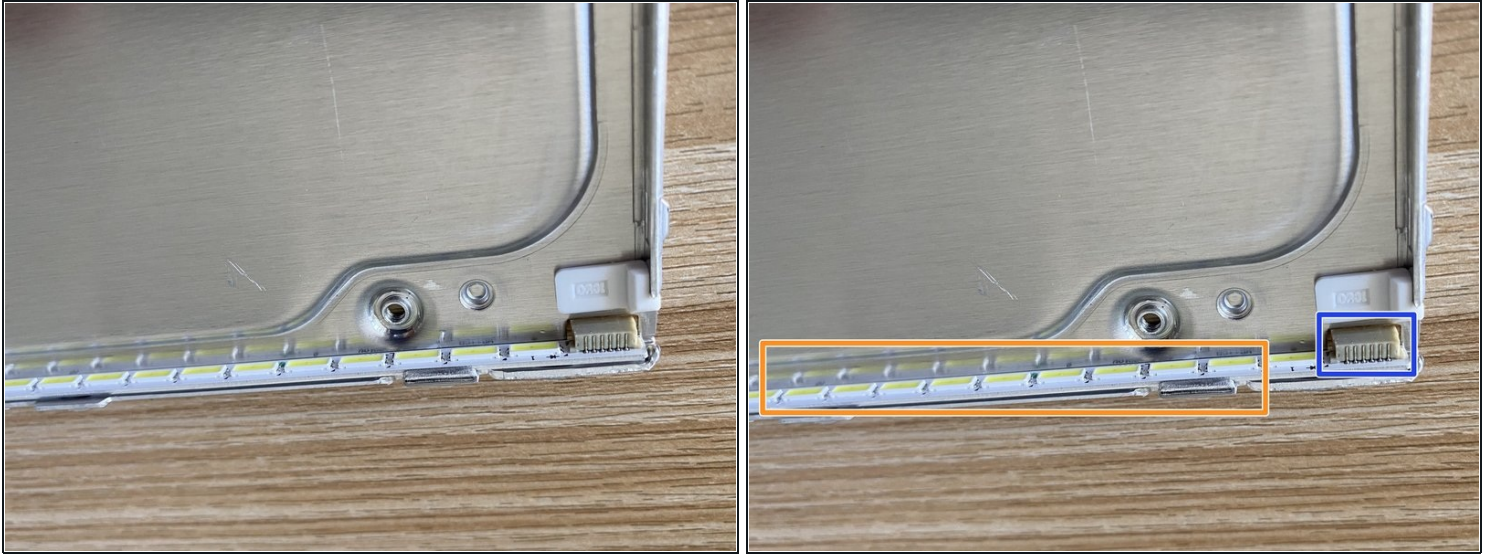
- Lift the holder

Step 12



- Polarizing filter film

Step 13



- LCD Backlight module (LEDs)
- Backlight Connector

To reassemble your device, follow these instructions in reverse order.