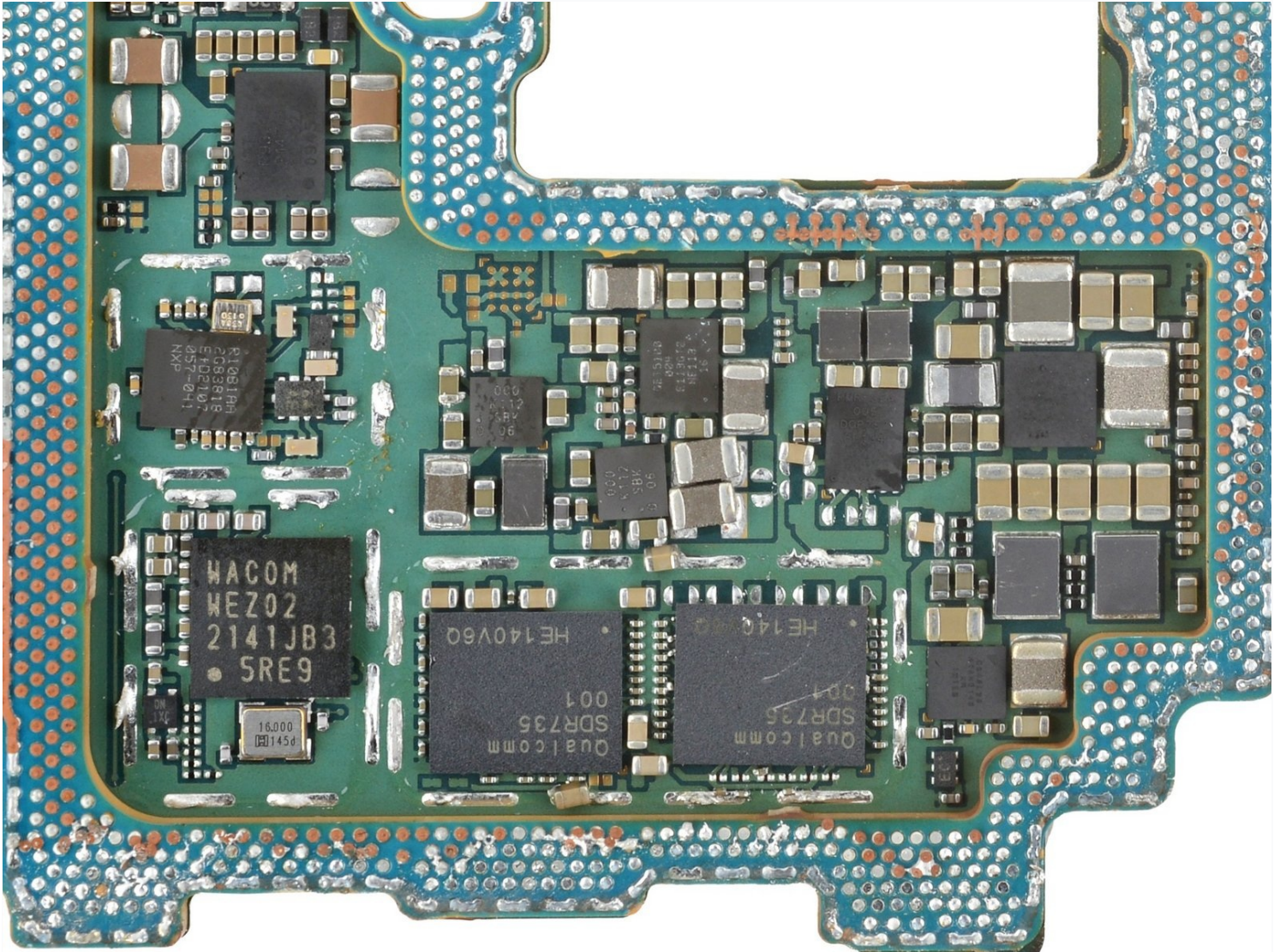




Samsung Galaxy S22 Ultra Chip ID

Chip ID for the Samsung Galaxy S22 Ultra...

Written By: Arthur Shi



INTRODUCTION

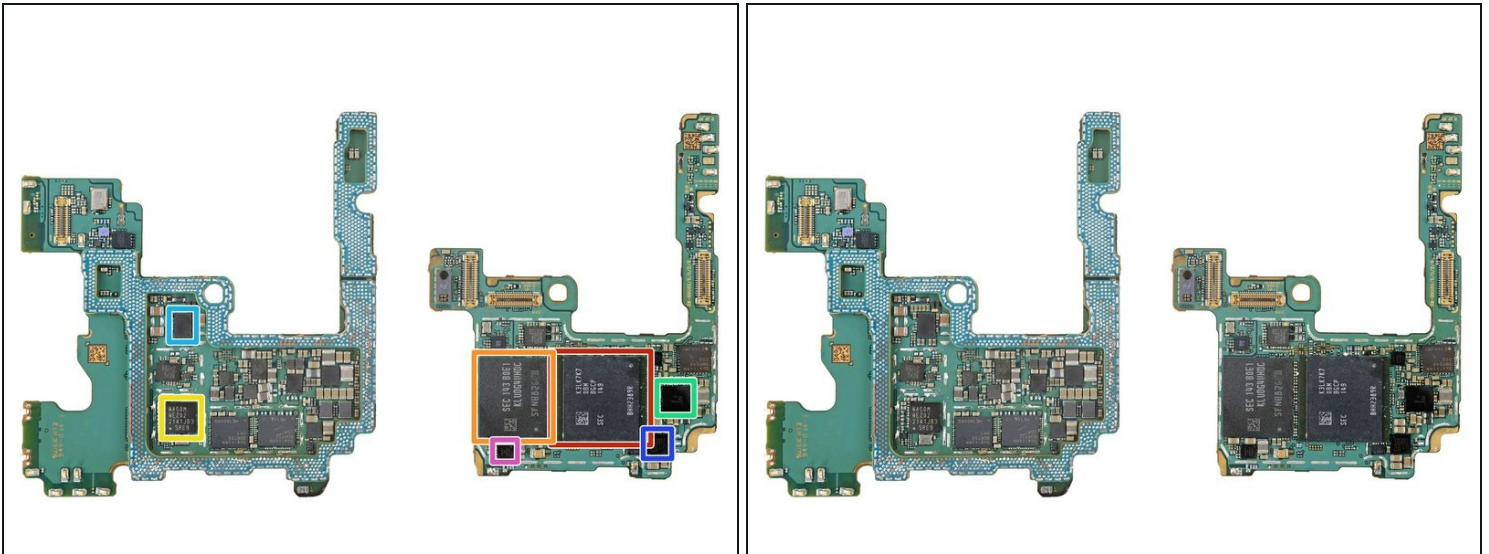
Chip ID for the Samsung Galaxy S22 Ultra smartphone.

Check out our [Samsung Galaxy S22 teardowns](#) for more details.

Many thanks to our community member [CChin](#) for his contributions!

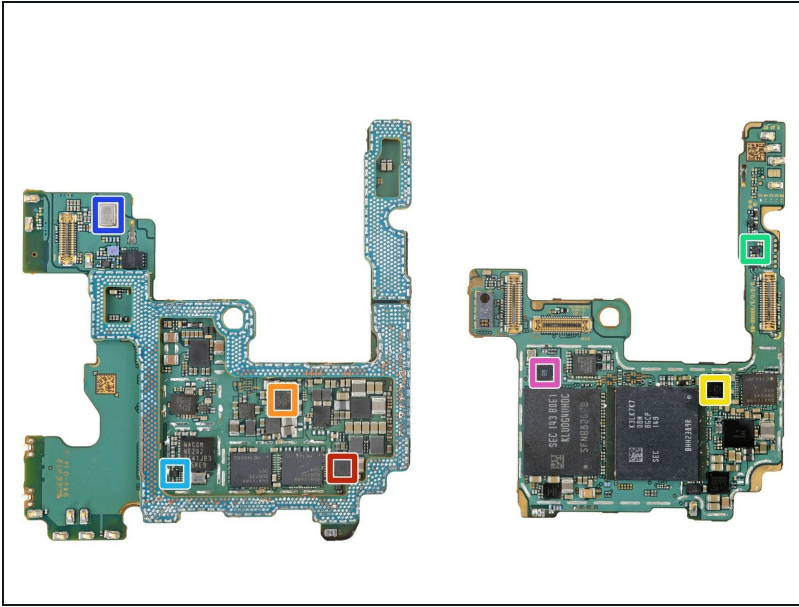
[video: <https://www.youtube.com/watch?v=pSP6kCjTaSE>]

Step 1 — Main Board Side 1



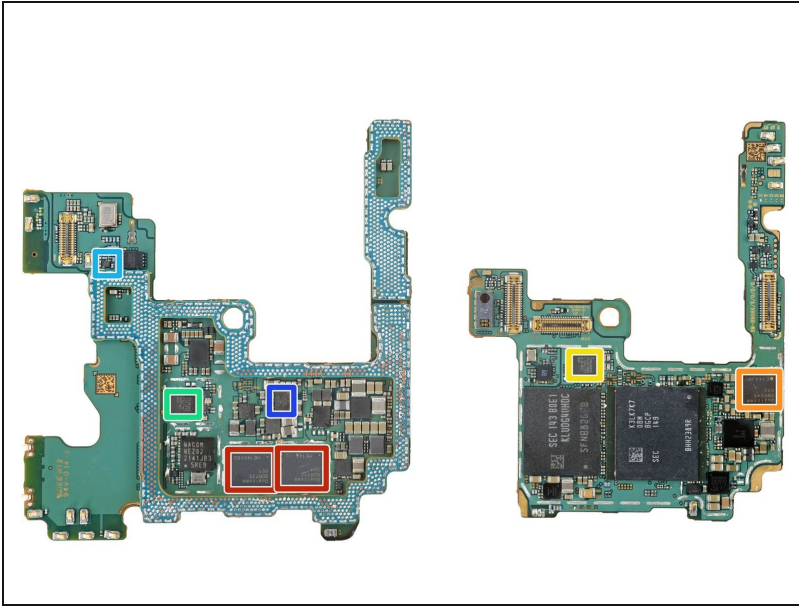
- IC Identification Pt. 1:
 - Qualcomm [SM8450](#) Snapdragon 8 Gen 1 Octa-Core Processor layered under a Samsung K3LK7K70BM-BGCP 8 GB Mobile LPDDR5 SDRAM Memory
 - Samsung [KLUDG4UHDC-B0E1](#) 128 GB NAND Flash Memory (UFS 3.1)
 - Wacom WEZ02 Digitizer Controller
 - Maxim MAX77705C Power Management
 - Renesas P9320S Wireless Power Transceiver
 - NXP Semiconductor PCA9468 Battery Charger
 - Cirrus Logic CS35L40 Audio Amplifier

Step 2



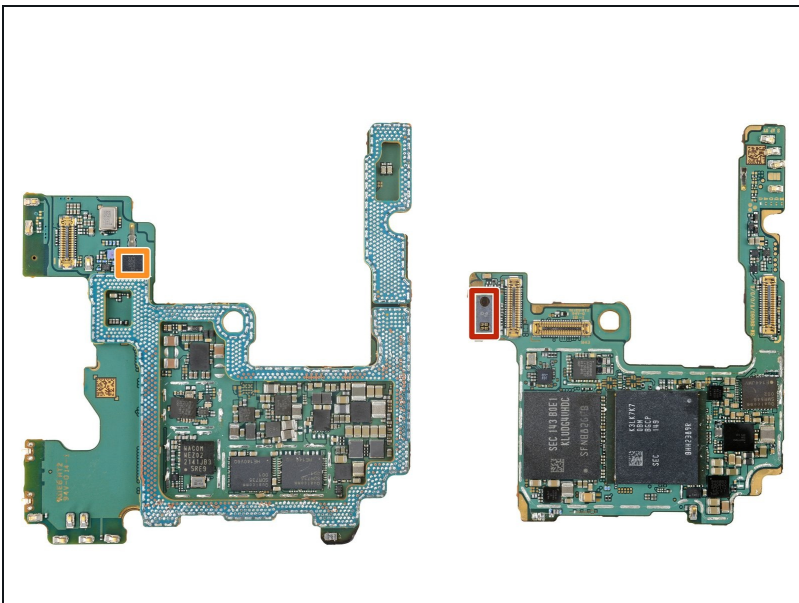
- IC Identification, pt. 2:
 - Cirrus Logic [CS40L26](#) Haptic Driver
 - Qualcomm PMR735A Power Management
 - Qualcomm PM3003 Power Management
 - Diodes Incorporated [AP7340D-30FS4-7](#) 150 mA / 3.0 V LDO Regulator
 - Diodes Incorporated [AP7340D-33FS4-7](#) 150 mA / 3.3 V LDO Regulator
 - Knowles MEMS Microphone
 - Qualcomm PMK8450 ? Clock Generator

Step 3



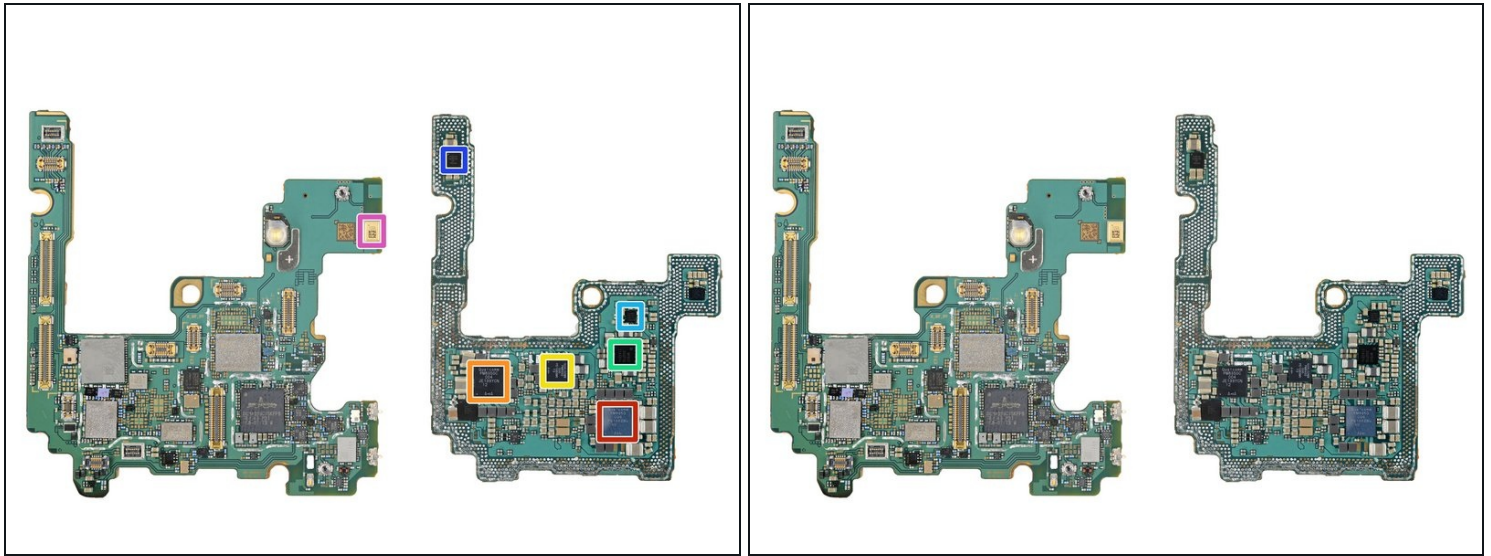
- IC Identification Pt. 3:
 - Qualcomm SDR735 RF Transceiver
 - Qualcomm SMR546 RF Transceiver
 - NXP Semiconductor SN220U NFC Controller w/ Secure Element
 - NXP Semiconductor [SR100T](#) Ultra-Wideband SoC
 - NXP Semiconductor [BGU8103](#) GPS / GLONASS / Galileo / BeiDou Low Noise Amplifier
 - Qualcomm [QET5100](#) Envelope Tracker

Step 4



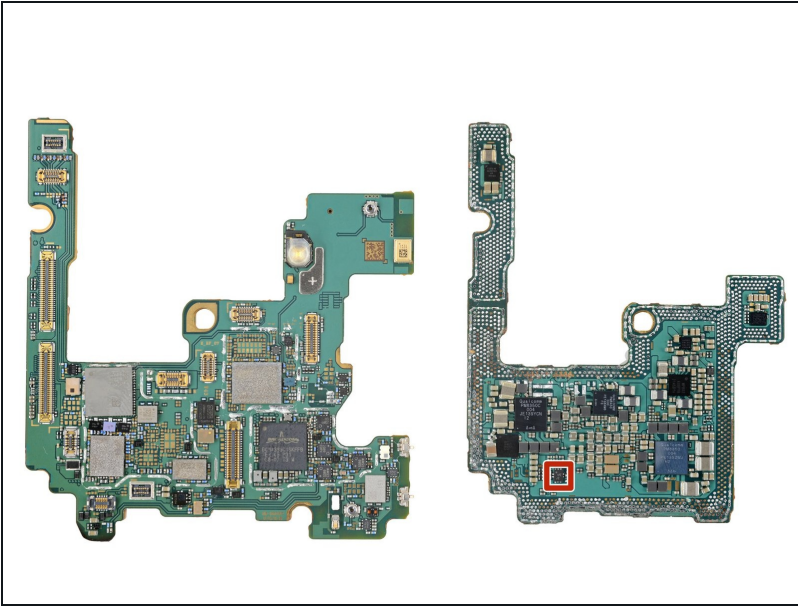
- IC Identification pt. 4 (sensors):
 - Austria Microelectronics Ambient Light/Color/Gesture/Proximity Sensor
 - STMicroelectronics 6-Axis Accelerometer & Gyroscope

Step 5 — Main Board Side 2



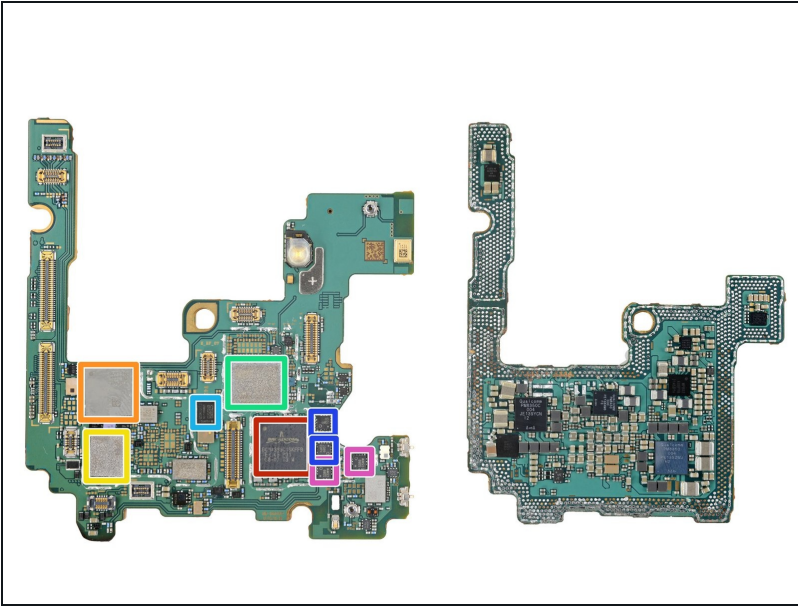
- IC Identification pt. 1:
 - Qualcomm PM8350 Power Management
 - Qualcomm PM8350C Power Management
 - Qualcomm PM8450 Power Management
 - Samsung S2MPB02 Power Management
 - Samsung S2MPBA3 Power Management
 - Cirrus Logic CS35L40 Audio Amplifier
 - Goertek MEMS Microphone

Step 6



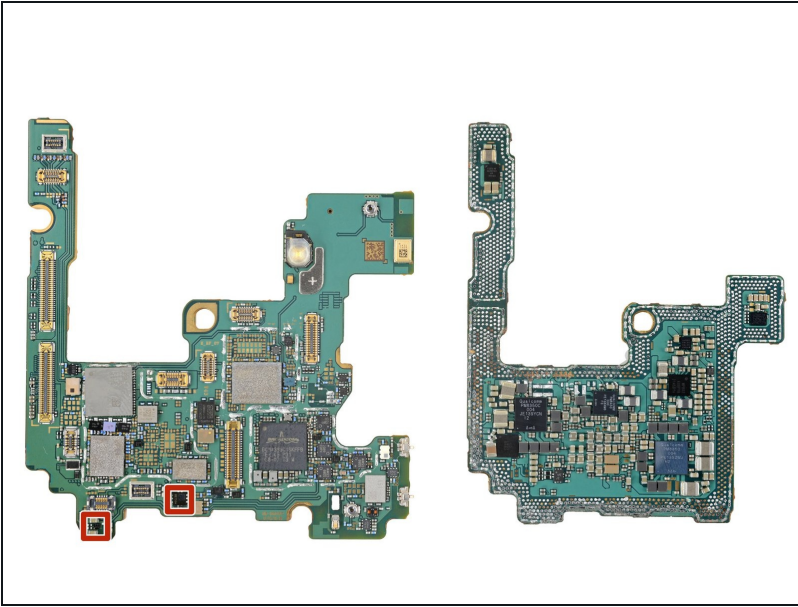
- IC Identification, pt 2:
 - Vishay [DG2730](#) 2-Port DPDT Analog Switch

Step 7



- IC Identification pt. 3:
 - Broadcom [BCM4389](#) Wi-Fi 6E & Bluetooth 5.0
 - Broadcom AFEM-9146 Front-End Module
 - Skyworks SKY58083-11 Front-End Module
 - Qualcomm QPM6815 Front-End Module
 - Qualcomm QDM3572 Antenna Switch Module
 - Qorvo 2389 RF Power Amplifier (likely)
 - Qorvo 5389 RF Power Amplifier (likely)

Step 8



- IC Identification pt. 4 (Sensors):
 - AKM Semiconductor 3-Axis Electronic Compass
 - STMicroelectronics Pressure Sensor

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