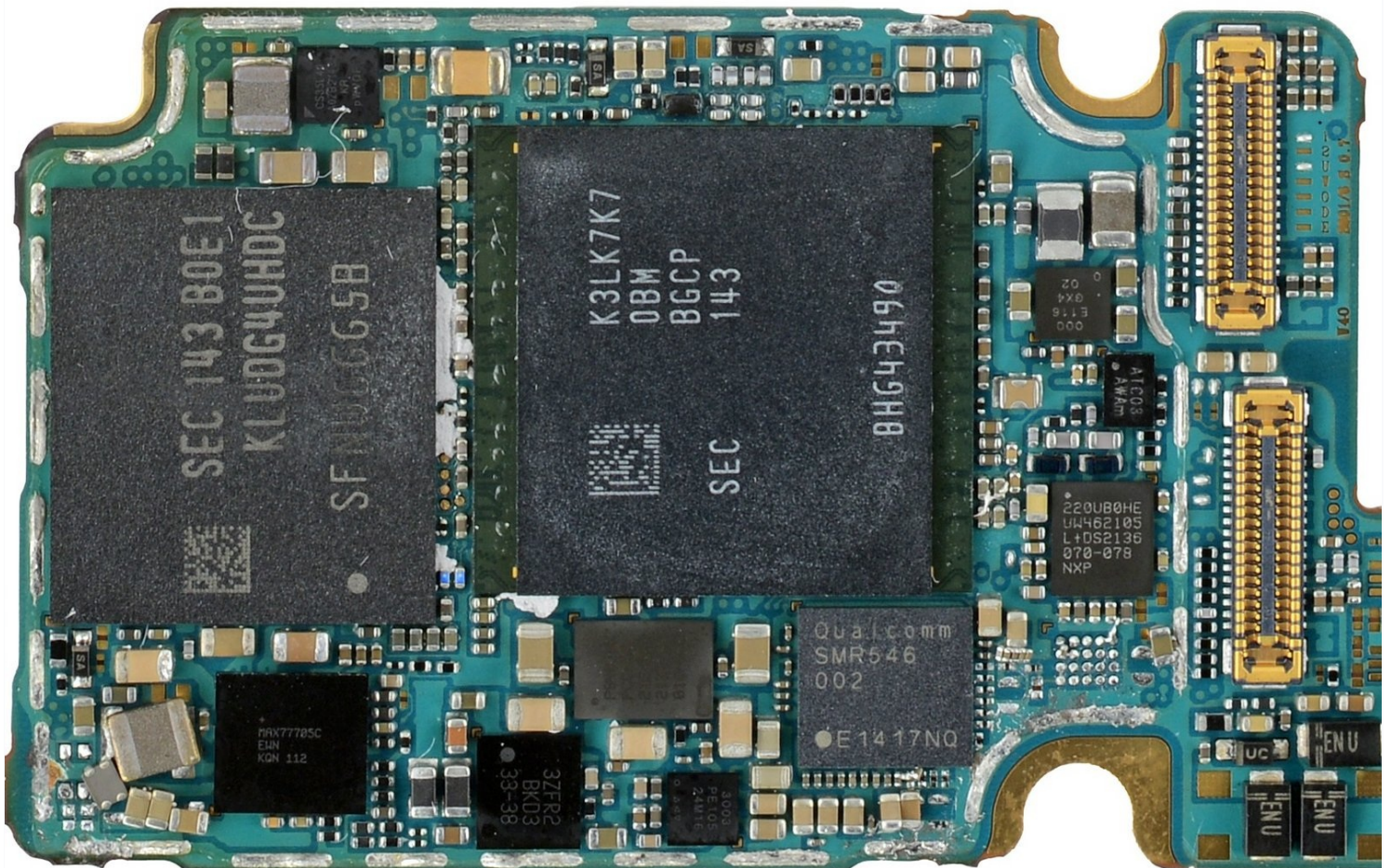




Samsung Galaxy S22 Chip ID

Chip ID for the Samsung Galaxy S22 smartphone....

Written By: Arthur Shi



INTRODUCTION

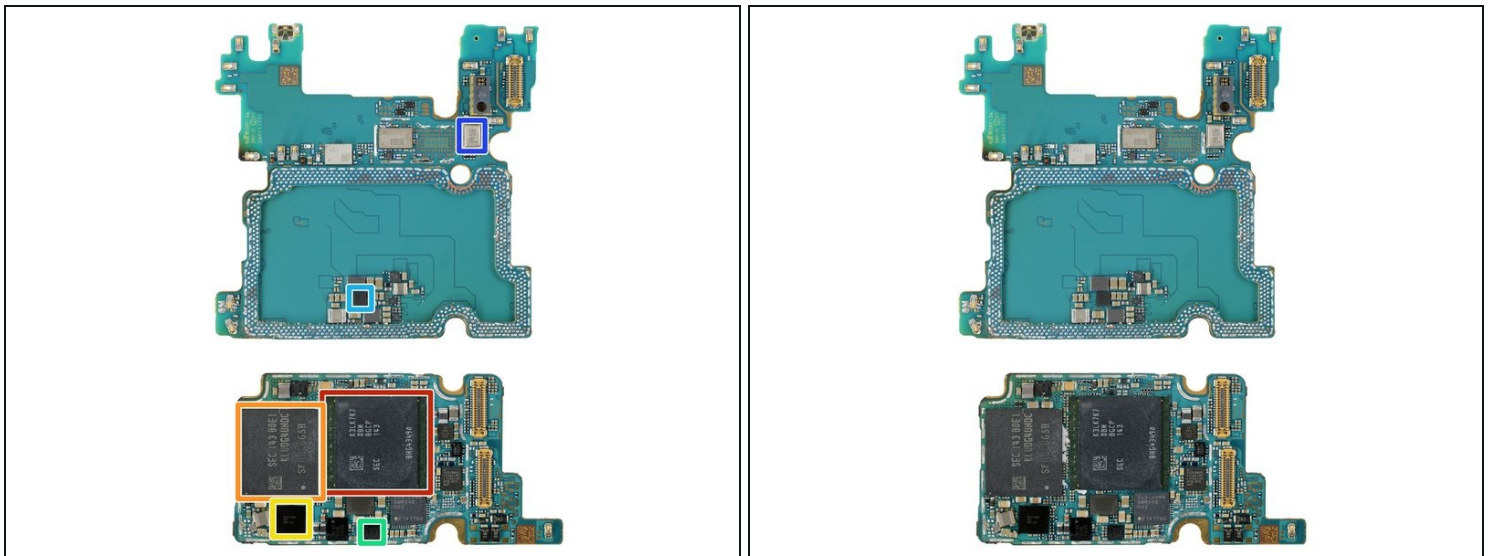
Chip ID for the Samsung Galaxy S22 smartphone.

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

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

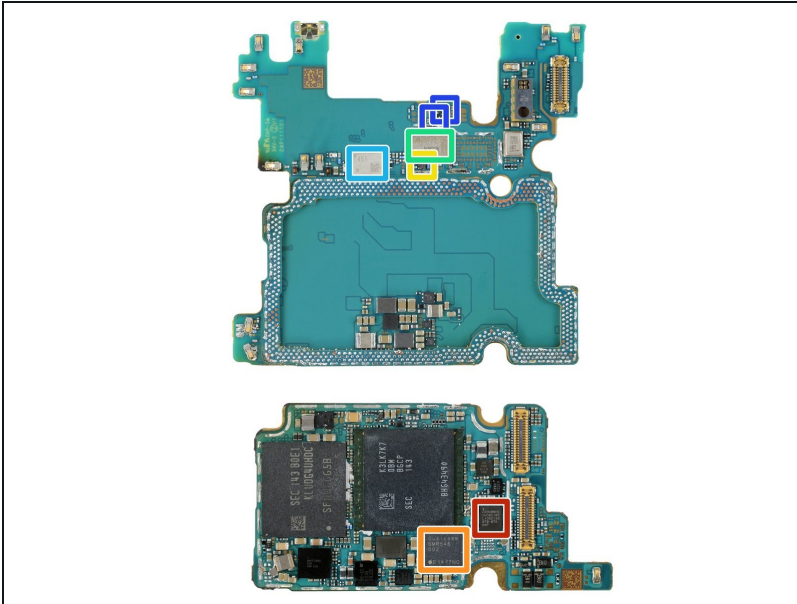
[video: <https://www.youtube.com/watch?v=pSP6kCjTaSE>]

Step 1 — Main Board Side 1



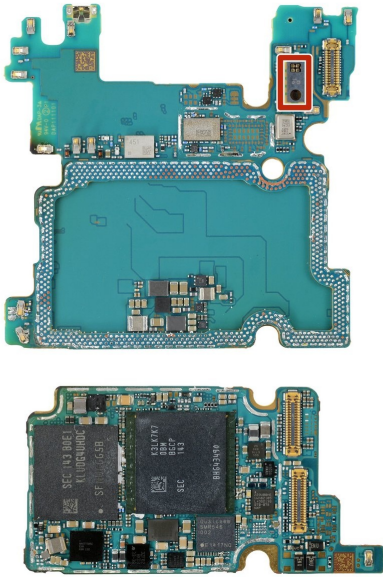
- IC Identification pt. 1:
 - Qualcomm [SM8450](#) Snapdragon 8 Gen 1 Octa-Core Processor layered under a Samsung K3LK7K70BM-BGCP 8 GB Mobile LPDDR5 SDRAM Memory
 - Samsung [KLUDG4UHDG-B0E1](#) 128 GB NAND Flash Memory (UFS 3.1)
 - Maxim MAX77705C Power Management
 - Qualcomm PM3003 Power Management
 - Silicon Mitus SM3010 Power Management
 - Knowles MEMS Microphone

Step 2



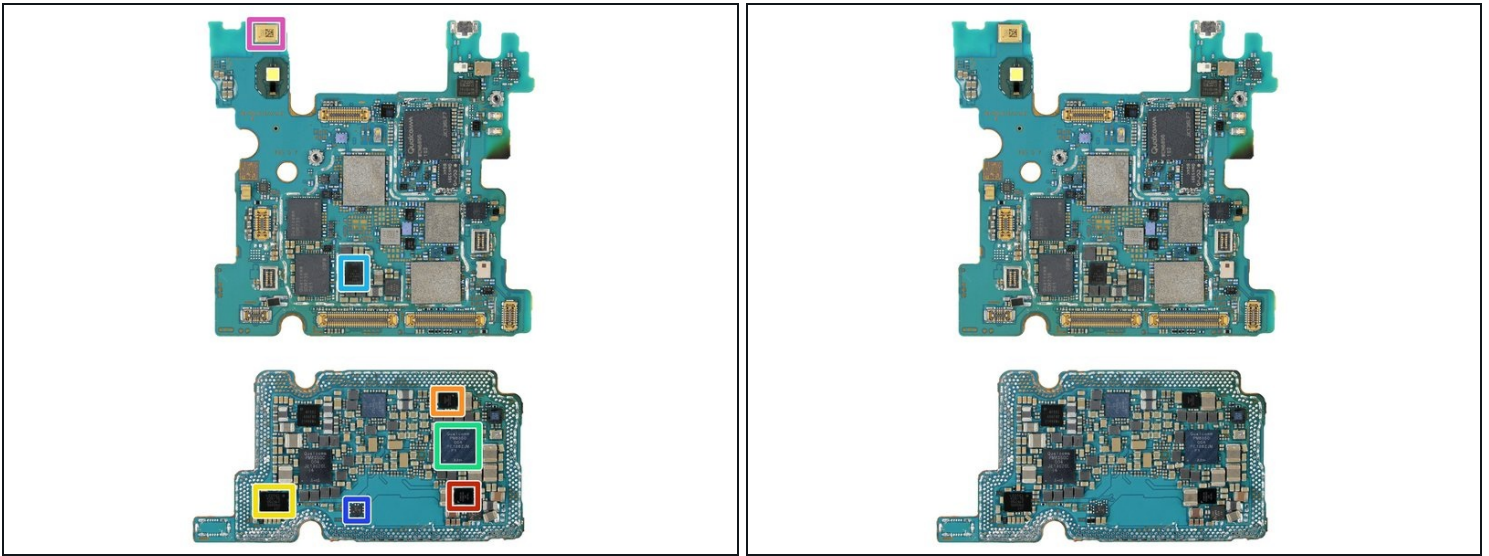
- IC Identification pt. 2:
 - NXP Semiconductor SN220U NFC Controller w/ Secure Element
 - Qualcomm SMR546 RF Transceiver
 - NXP Semiconductor [BGU8103](#) GPS / GLONASS / Galileo / BeiDou Low Noise Amplifier
 - Qualcomm 1G2W5 ? Front End Module (Likely)
 - Murata 451 ? Antenna Switch Module (Likely)
 - Infineon [BGSA20UGL8](#) Dual SPST Antenna Aperture Shunt Switch

Step 3



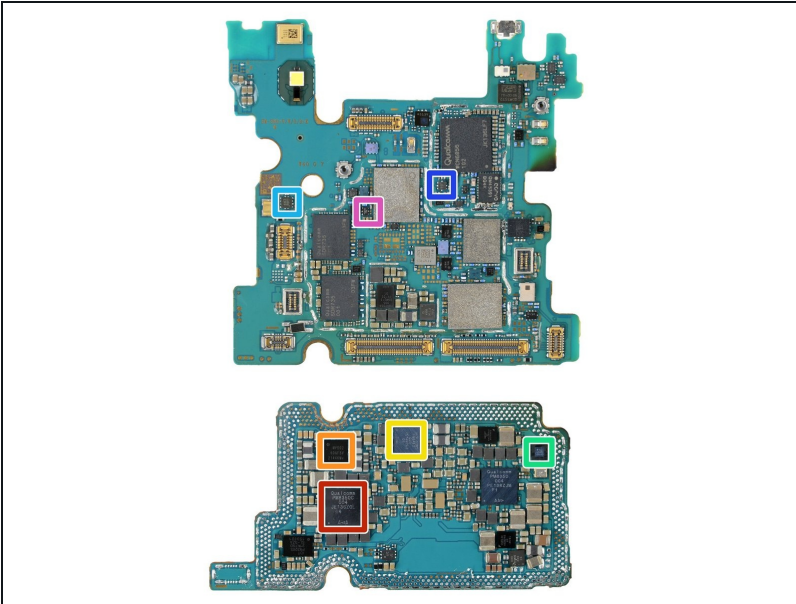
- IC Identification pt. 3 (sensors):
 - Austria Microelectronics
Ambient
Light/Color/Gesture/Proximity Sensor

Step 4 — Main Board Side 2



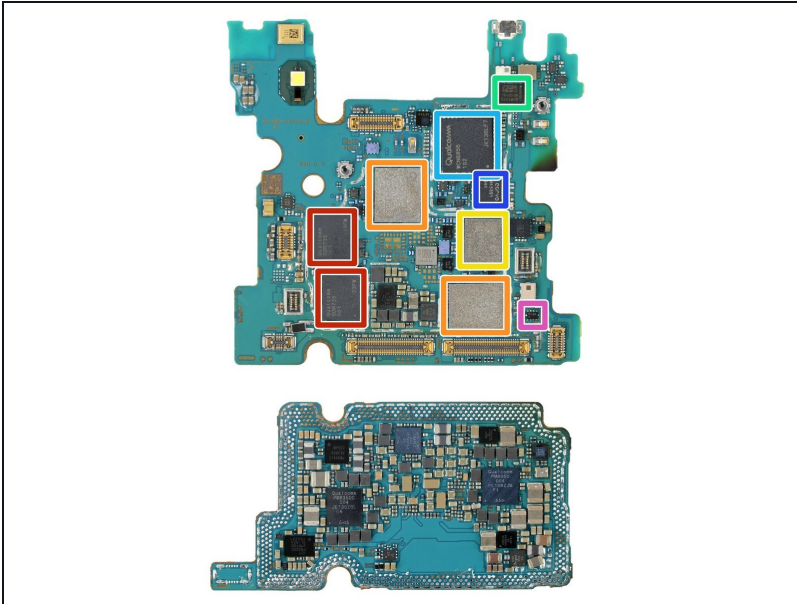
- IC Identification pt. 1:
 - Cirrus Logic CS35L40 Audio Amplifier
 - Cirrus Logic [CS40L26](#) Haptic Driver
 - Renesas P9320S Wireless Power Transceiver
 - Qualcomm PM8350 Power Management
 - Qualcomm PMR735A Power Management
 - Vishay [DG2730](#) 2-Port DPDT Analog Switch
 - Goertek MEMS Microphone

Step 5



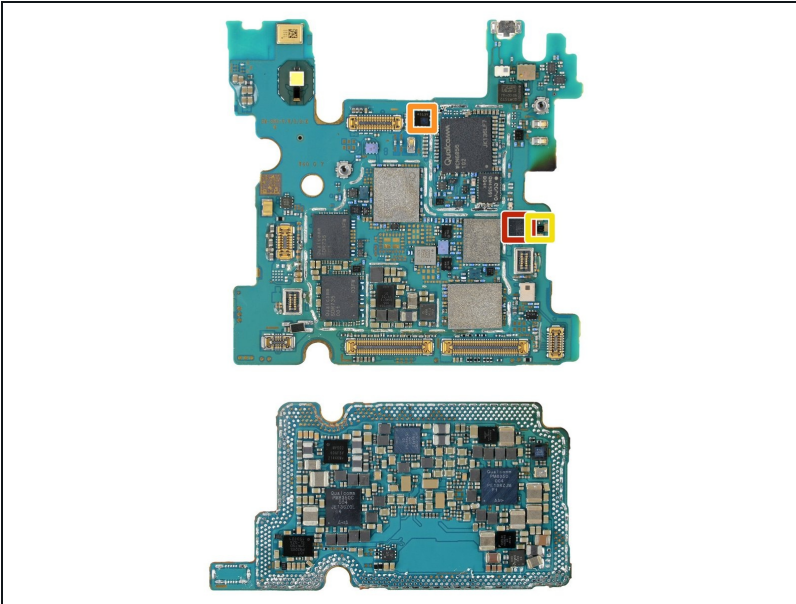
- IC Identification pt. 2:
 - Qualcomm PM8350C Power Management
 - Samsung S2MPB02 Power Management
 - Qualcomm PM8450 Power Management
 - Qualcomm PMK8450 ? Clock Generator
 - Maxscend MXD8643 SP4T Antenna Switch (likely)
 - Maxscend MXD8638C SP3T Antenna Switch
 - Maxscend MXDLN16GE GPS/GLONASS/Galileo/BeiDou Low Noise Amplifier

Step 6



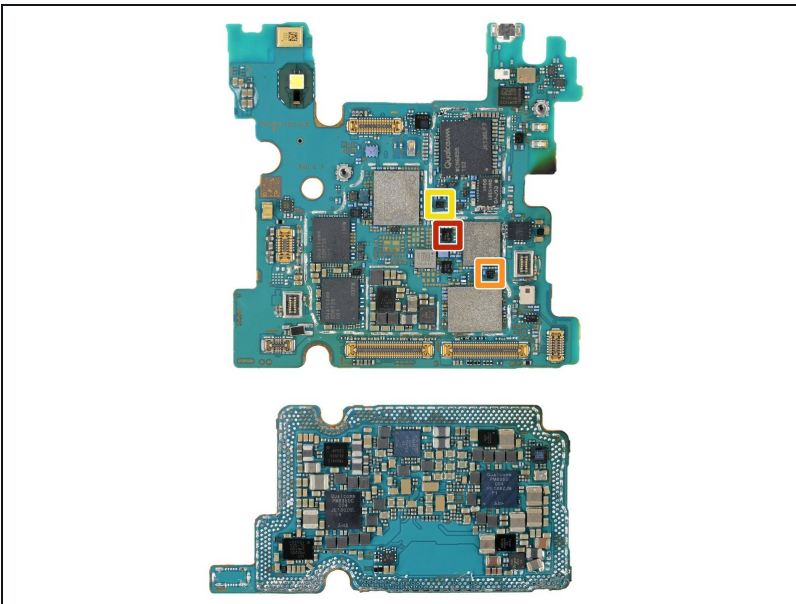
- IC Identification pt. 3:
 - Qualcomm SDR735 RF Transceiver
 - Qualcomm QPM6815 Front-End Module
 - Qualcomm QPM6810 Front-End Module
 - Qualcomm QDM3572 Antenna Switch Module
 - Qualcomm [WCN6856](#) WiFi 6/6E & Bluetooth 5.3
 - Qorvo QM45391 Front-End Module
 - Infineon [BGSX22G5A10](#) DPDT Antenna Cross Switch

Step 7



- IC Identification pt. 4 (sensors):
 - STMicroelectronics 6-Axis Accelerometer & Gyroscope
 - STMicroelectronics Pressure Sensor
 - AKM Semiconductor 3-Axis Electronic Compass

Step 8



- Radio Module Identification:
 - Murata [SAYRH634MBA0C0A](#) band 71 SAW duplexer
 - Murata [SAFFB722MAA0F0A](#) band 29 SAW filter
 - Murata [SAFFB2G45MA0F0A](#) ISM 2.4G SAW filter

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