Samsung Galaxy S22 Ultra Chip ID

Chip ID for the Samsung Galaxy S22 Ultra smartphone.

Written By: Arthur Shi
INTRODUCTION

Chip ID for the Samsung Galaxy S22 Ultra smartphone.

*Many thanks to our community member [CChin](#) for his contributions!*
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 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)
To reassemble your device, follow these instructions in reverse order.

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