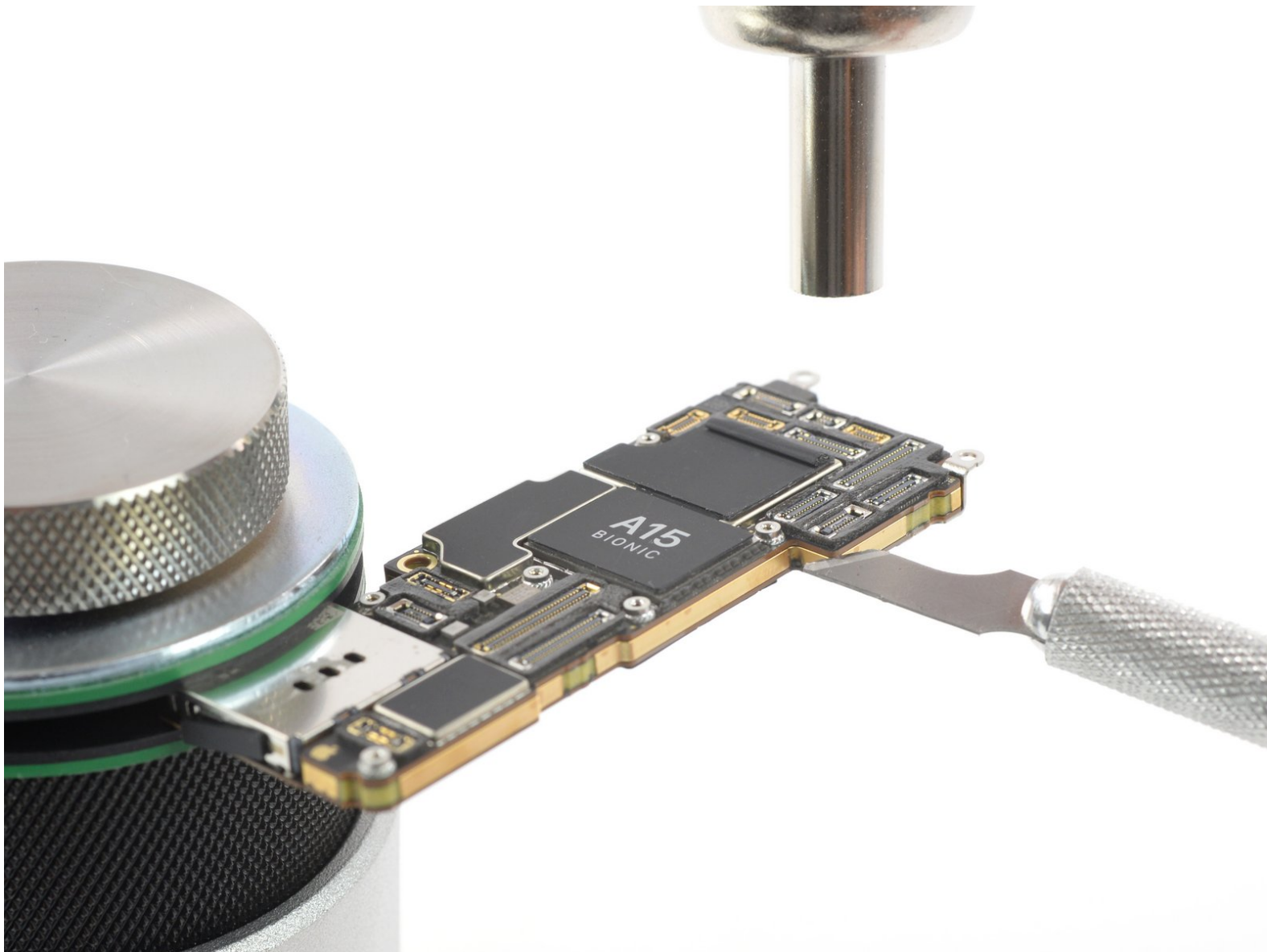




iPhone 13 Pro Full Chip ID

Full reference guide for iPhone 13 Pro logic board chips.

Written By: Craig Lloyd

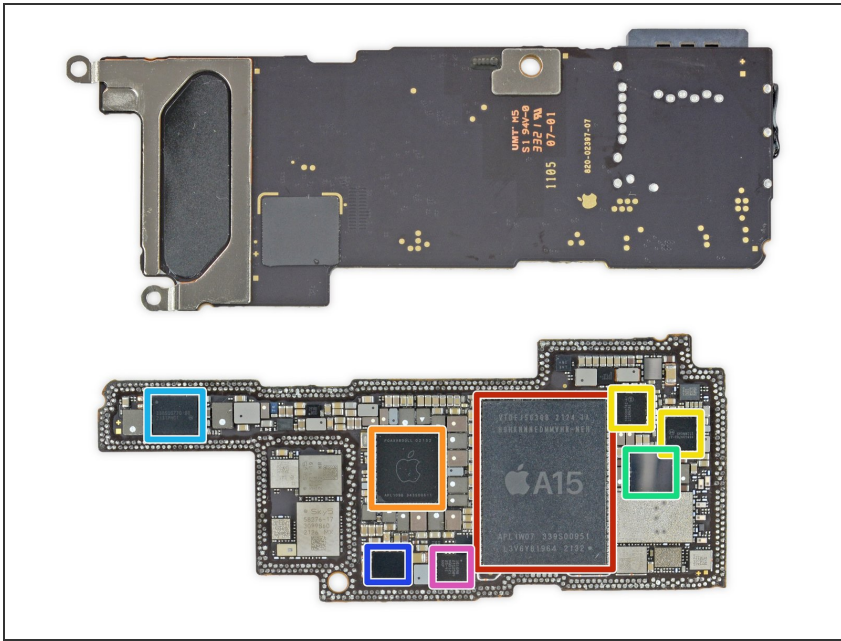


INTRODUCTION

We couldn't quite fit every last drop of chip ID into our [iPhone 13 Pro teardown](#). So if you're yearning for more, here is a much more thorough look into the chips found on the iPhone 13 Pro's logic board.

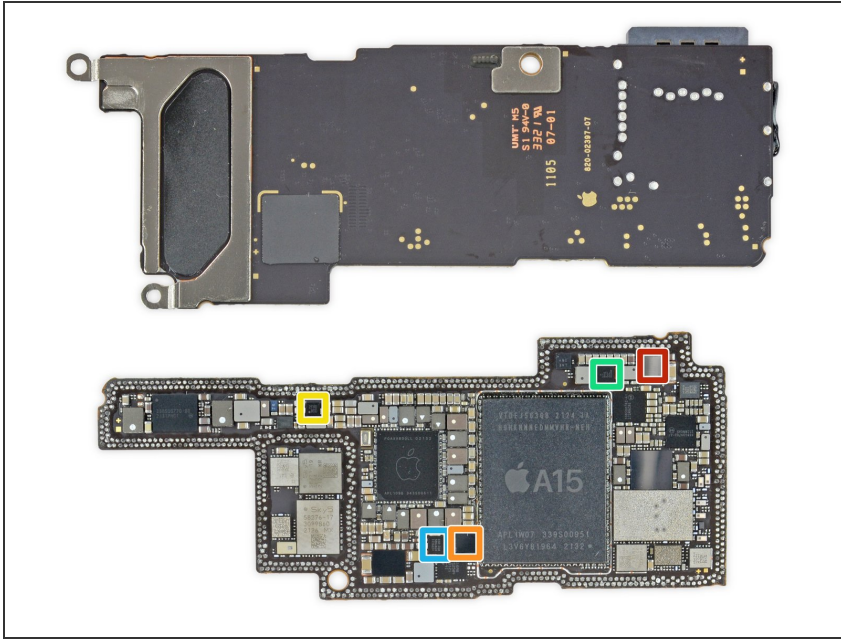
Special thanks to our community member [Chunglin Chin](#) for contributing to this!

Step 1 — iPhone 13 Pro Full Chip ID



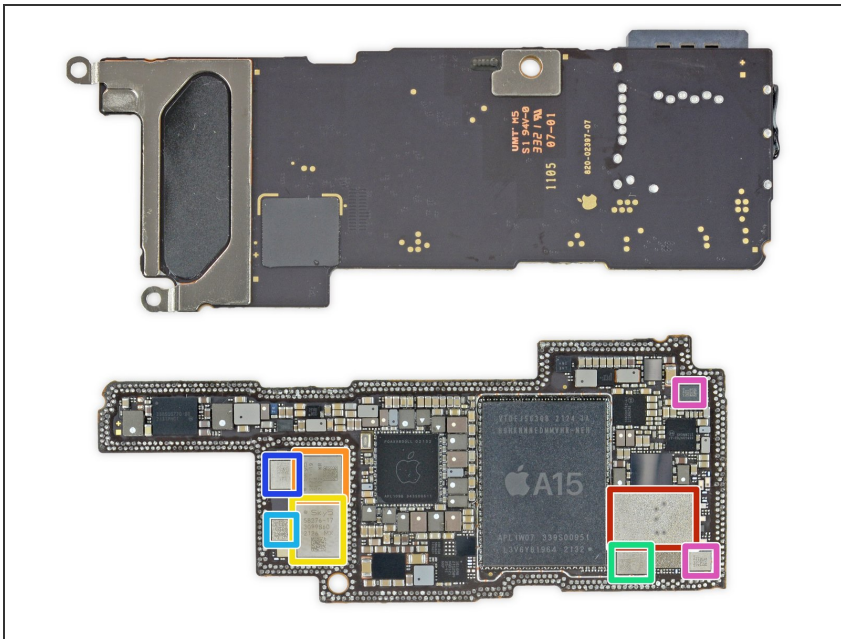
- Logic board, side 1:
 - Apple APL1W07 A15 Bionic SoC layered with what's most likely 6 GB of SK Hynix LPDDR4X SDRAM
 - Apple APL1098 power management IC
 - Apple 338S00762-A1 power management IC
 - STMicroelectronics STB601A05 power management IC
 - Apple 338S00770-B0 power management IC
 - Texas Instruments TPS65657B0 display power management IC
 - NXP Semiconductor CBTL1616A0 display port multiplexer

Step 2



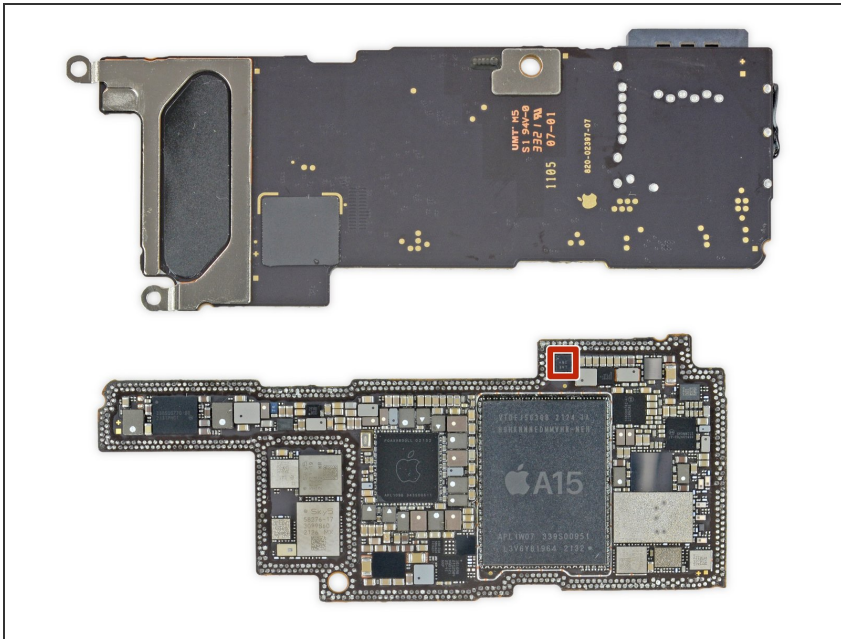
- Logic board, side 1 (cont.):
 - Texas Instruments CD3710A1 VCSEL array driver
 - Texas Instruments USB 2.0 dual repeater
 - ON Semiconductor DC-DC converter
 - Possibly a NXP Semiconductor power management IC
 - Possibly a NXP Semiconductor load switch

Step 3



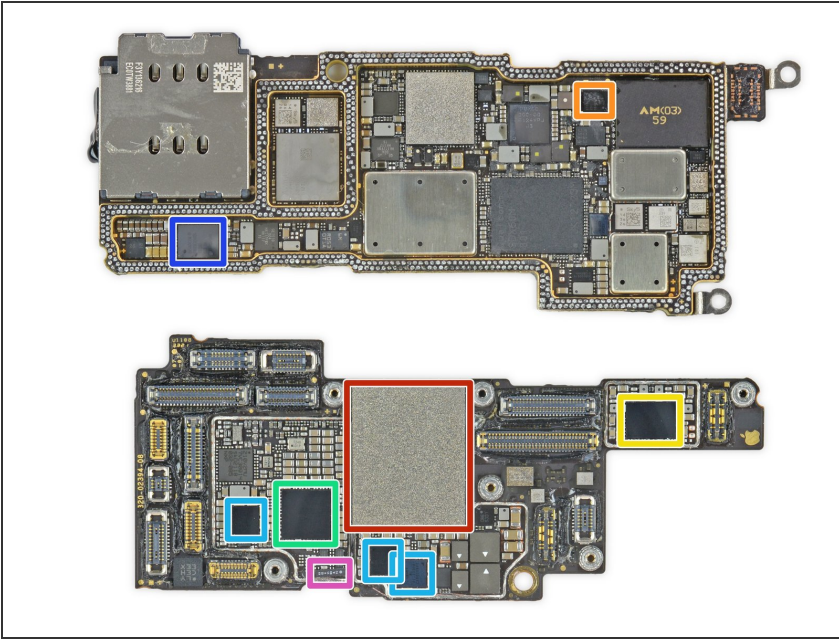
- Logic board, side 1 (cont.):
 - Apple/USI U1 ultra-wideband chip
 - Skyworks SKY58271-19 front-end module
 - Skyworks SKY58276-17 front-end module
 - Likely a Broadcom AFEM-8225 front-end module
 - Likely a Skyworks SKY59723 power amplifier module
 - Likely a Murata 141 RF switch module
 - Likely Broadcom filters

Step 4



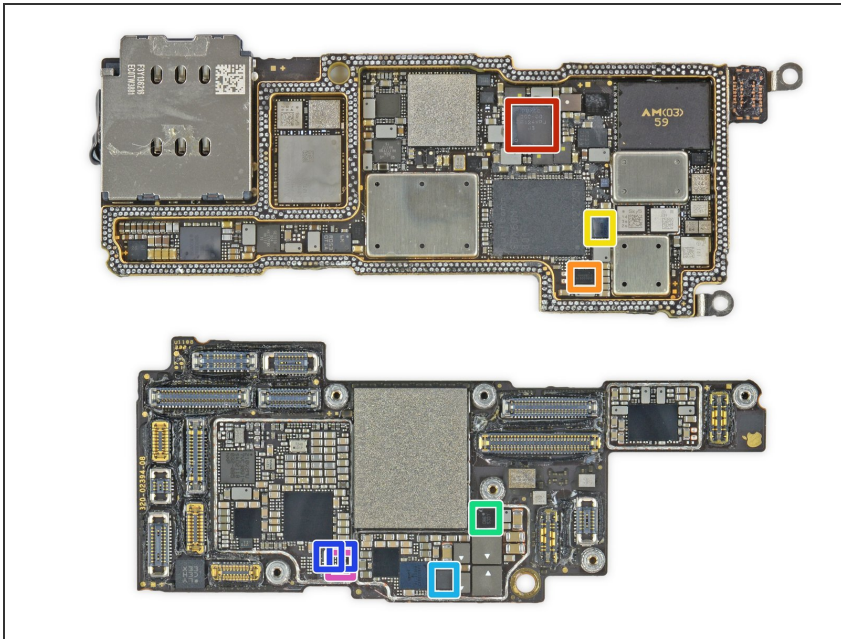
- Logic board, side 1 (cont.):
- Alps HSCDTD00xA electronic compass

Step 5



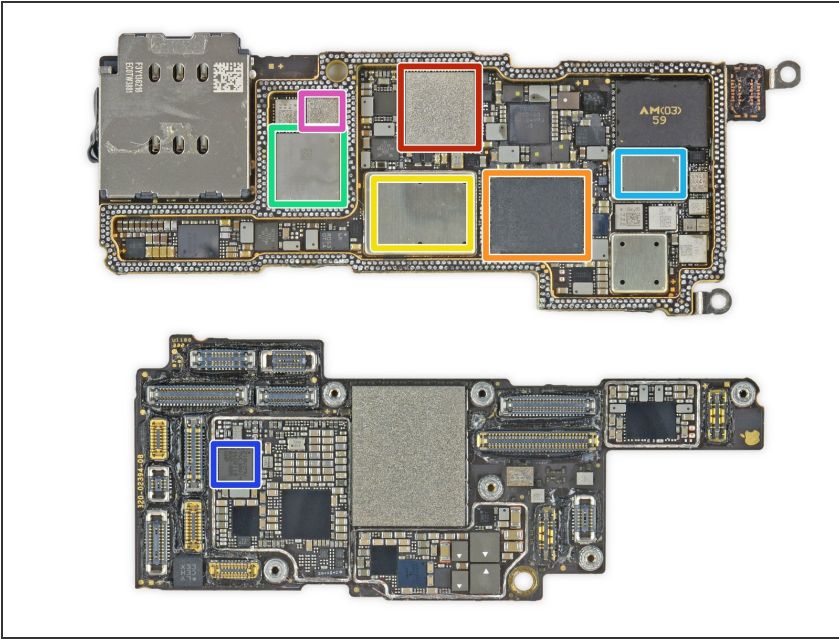
- Logic board, sides 2 and 3:
 - 128 GB of [Kioxia NAND flash](#) memory
 - STMicroelectronics ST33Jxxx secure microcontroller w/ eSIM
 - Possibly an Apple/Cirrus Logic 338S00817 audio processor
 - Apple/Cirrus Logic 338S00739 audio codec
 - Apple/Cirrus Logic 338S00537 audio amplifier
 - Broadcom BCM59365 wireless power receiver
 - Likely an Analog Devices haptic driver

Step 6



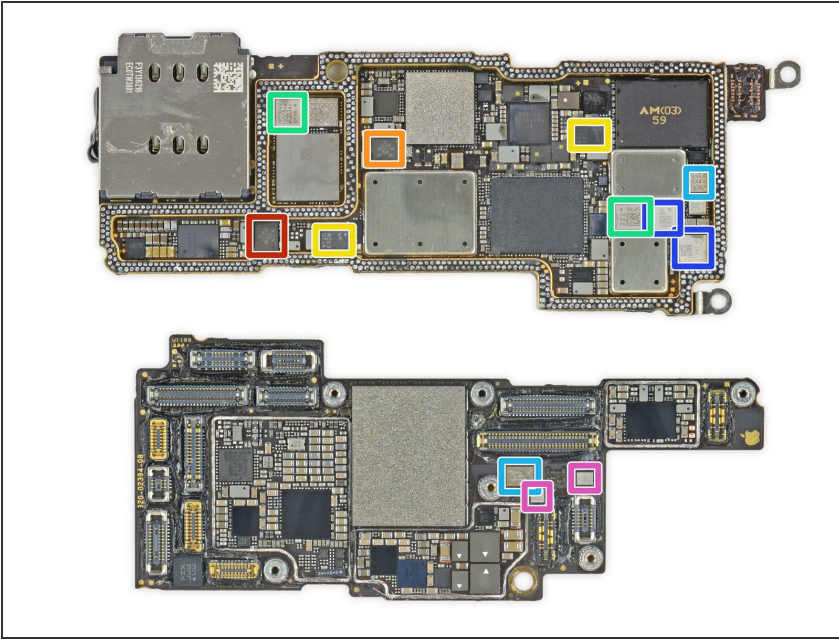
- Logic board, sides 2 and 3 (cont.):
 - Qualcomm PMX60 power management IC
 - Apple 338S00616 power management IC
 - Texas Instruments LM3567A1 LED flash driver
 - ON Semiconductor DC-DC converter
 - Likely a STMicroelectronics DC-DC converter
 - Nexperia [74AVC1T45](#) 3-state voltage level translator/transceiver
 - Nexperia [LSF0101](#) 1-bit bidirectional voltage level translator

Step 7



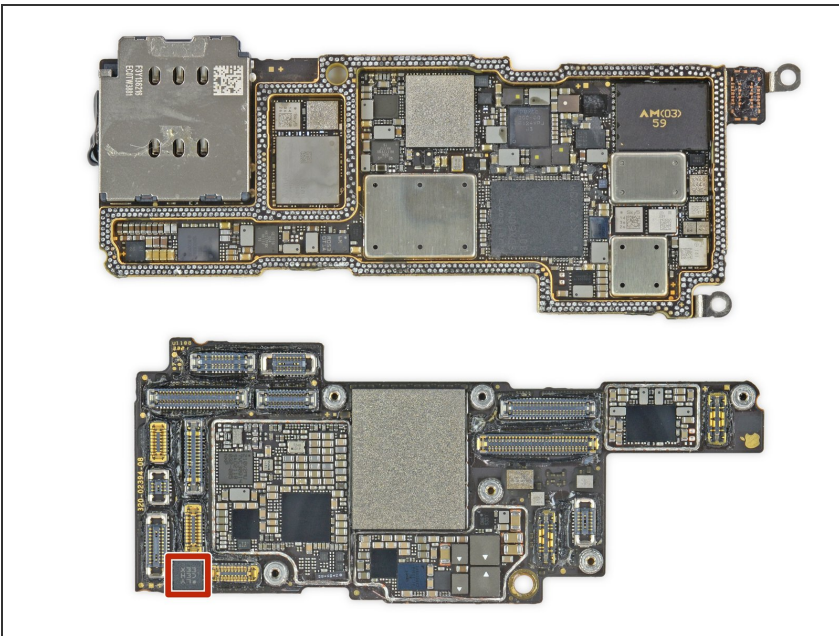
- Logic board, sides 2 and 3 (cont.):
 - USI 339S00761 WiFi/Bluetooth module
 - Qualcomm [SDX60M](#) 5G modem
 - [Possibly](#) a Qualcomm [SDR868](#) 5G RF transceiver
 - Broadcom AFEM-8215 front-end module
 - [Possibly](#) a Skyworks SKY53838-17 front-end module
 - NXP Semiconductor SN210V NFC controller with secure element
 - Likely a Skyworks SKY57217 power amplifier module

Step 8



- Logic board, sides 2 and 3 (cont.):
 - Qualcomm QET510 envelope tracker
 - Qualcomm QET5100 envelope tracker
 - Likely a Qorvo envelope tracker
 - Likely a Skyworks SKY514xx RF switch module
 - Likely Skyworks RF switch
 - Likely Murata antenna switch module
 - Antenna tuning switch

Step 9



- Logic board, sides 2 and 3 (cont.):
 - Bosch Sensortec 6-axis accelerometer/gyroscope

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