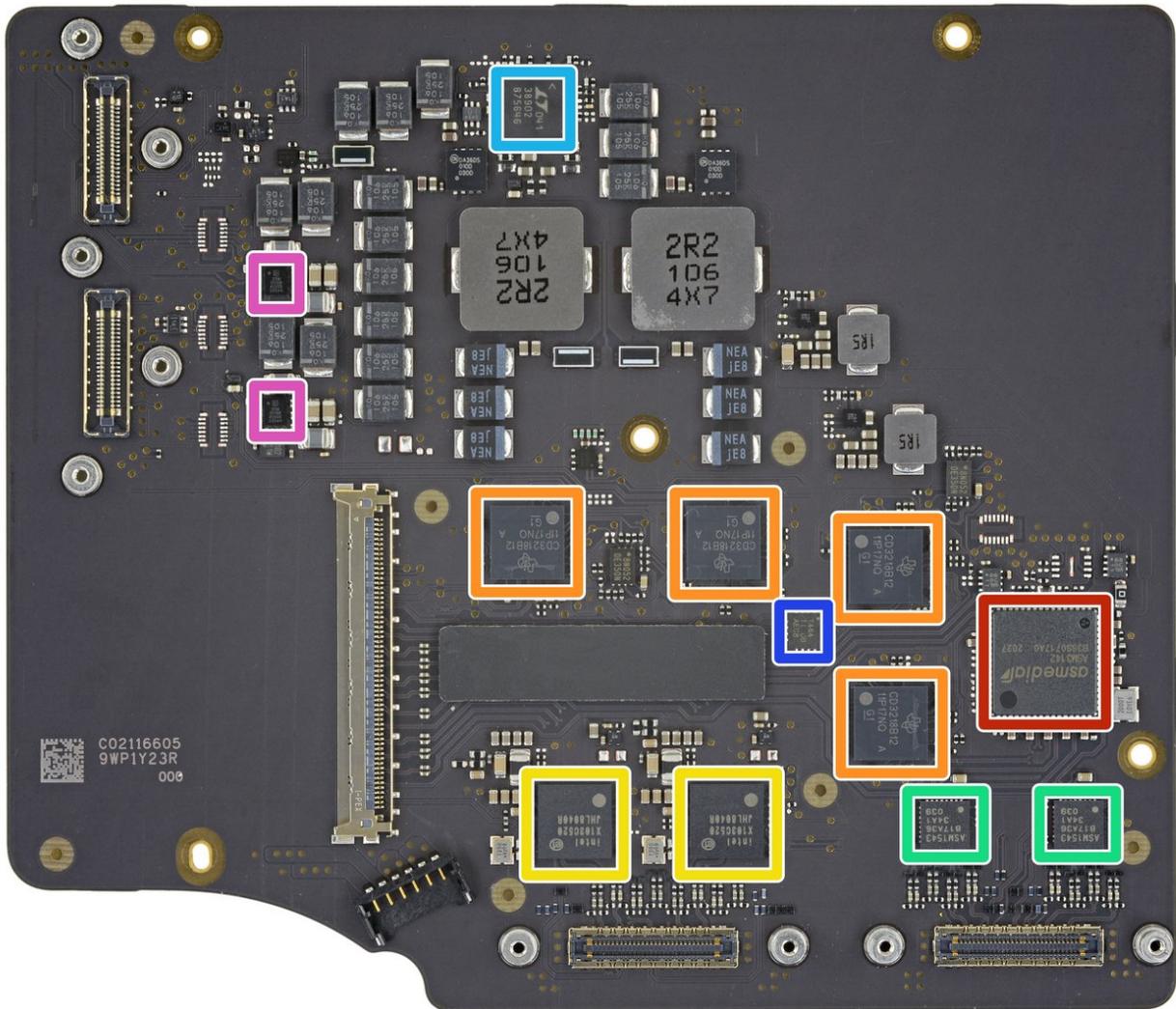




iMac M1 24" Full Chip ID

Full reference guide for iMac M1 24" board chips, including logic board, interconnect board, and display board.

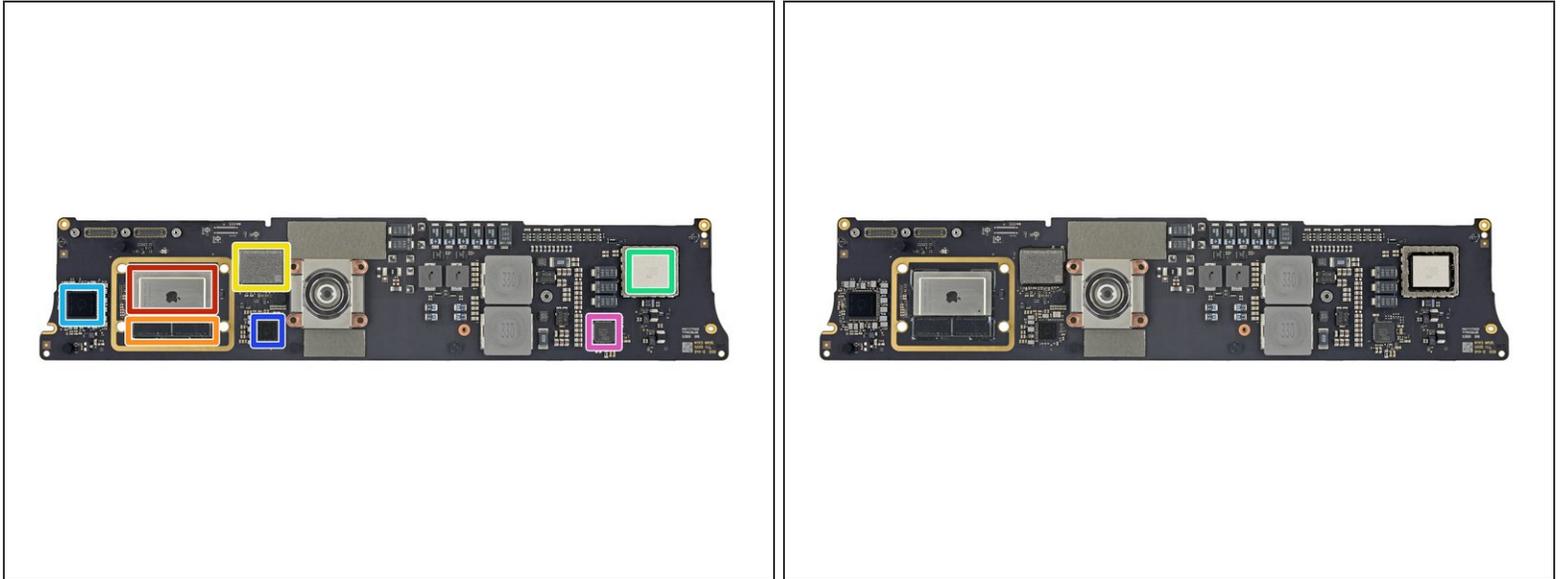
Written By: Craig Lloyd



INTRODUCTION

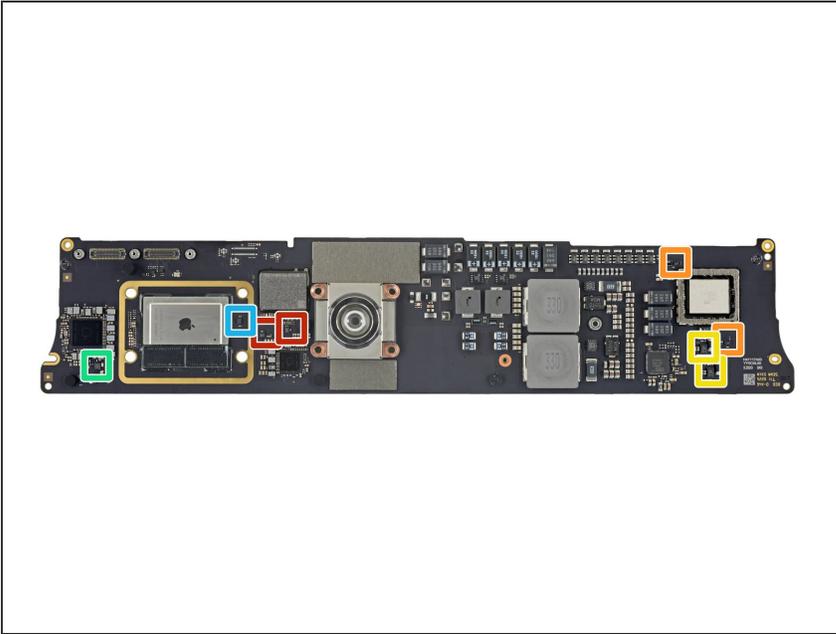
We couldn't squeeze every last ounce of chip ID into our [iMac M1 24" teardown](#). So if you couldn't get enough of that sweet silicon, here is a much more thorough look into the chips found on the logic board, interconnect board, and display board.

Step 1 — iMac M1 24" Full Chip ID



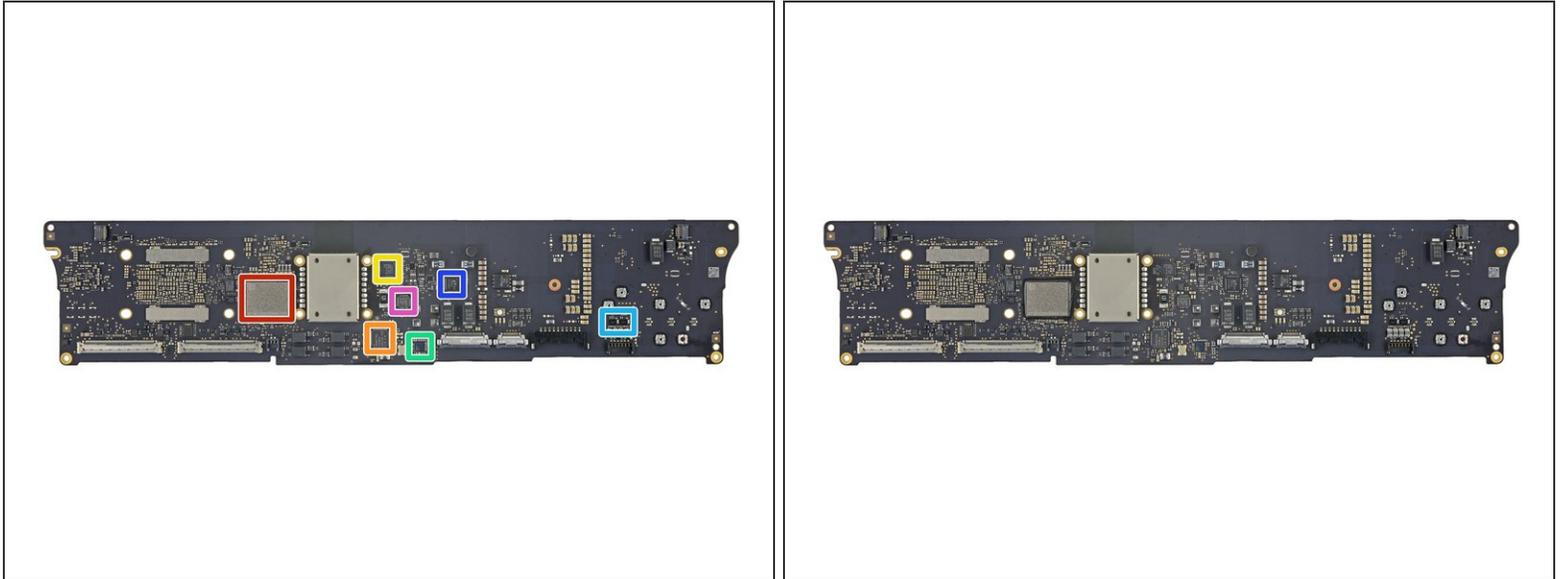
- Back side of the logic board:
 - Apple [APL1102/339S00817](#) 64-bit M1 8-core SoC (system on a chip).
 - SK hynix H9HCNNNCRMMVGR-NEH 8 GB (2 x 4 GB) LPDDR4 SDRAM memory
 - Kioxia KICM225VE4779 128 GB NAND Flash
 - Murata 339S00763 Wi-Fi/Bluetooth module
 - Apple APL1096/343S00474 power management IC
 - Apple APL1097/343S00475 power management IC
 - Richtek RT4541GQV power management IC

Step 2



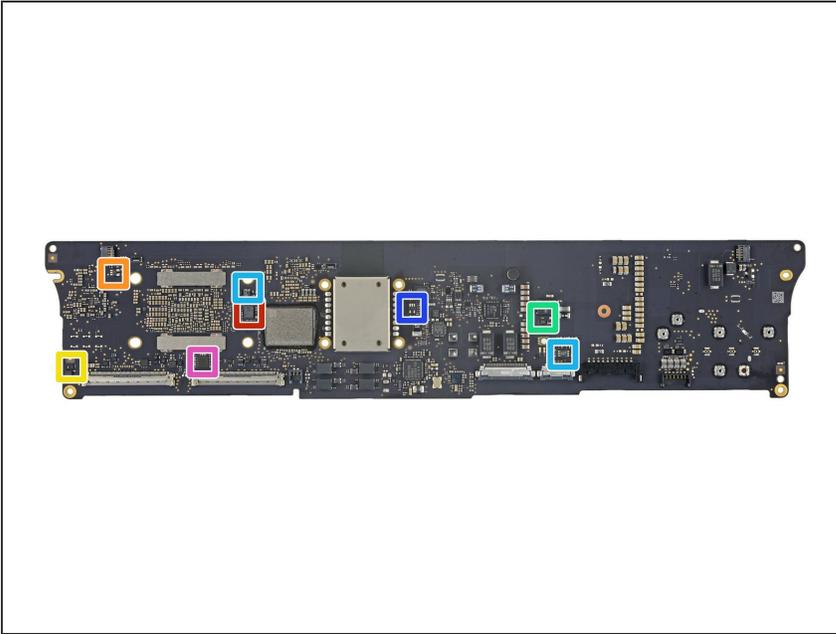
- Back side of the logic board, continued:
 - Texas Instruments [INA210](#) bi-directional current sense amplifier
 - Texas Instruments [INA214](#) bi-directional current sense amplifier
 - Texas Instruments TPS62137 DC-DC converter
 - Dialog Semiconductor (formerly Silego) [SLG59M301V](#) 4-amp load switch
 - Texas Instruments [SN74AVC4T234](#) 4-bit bus transceiver

Step 3



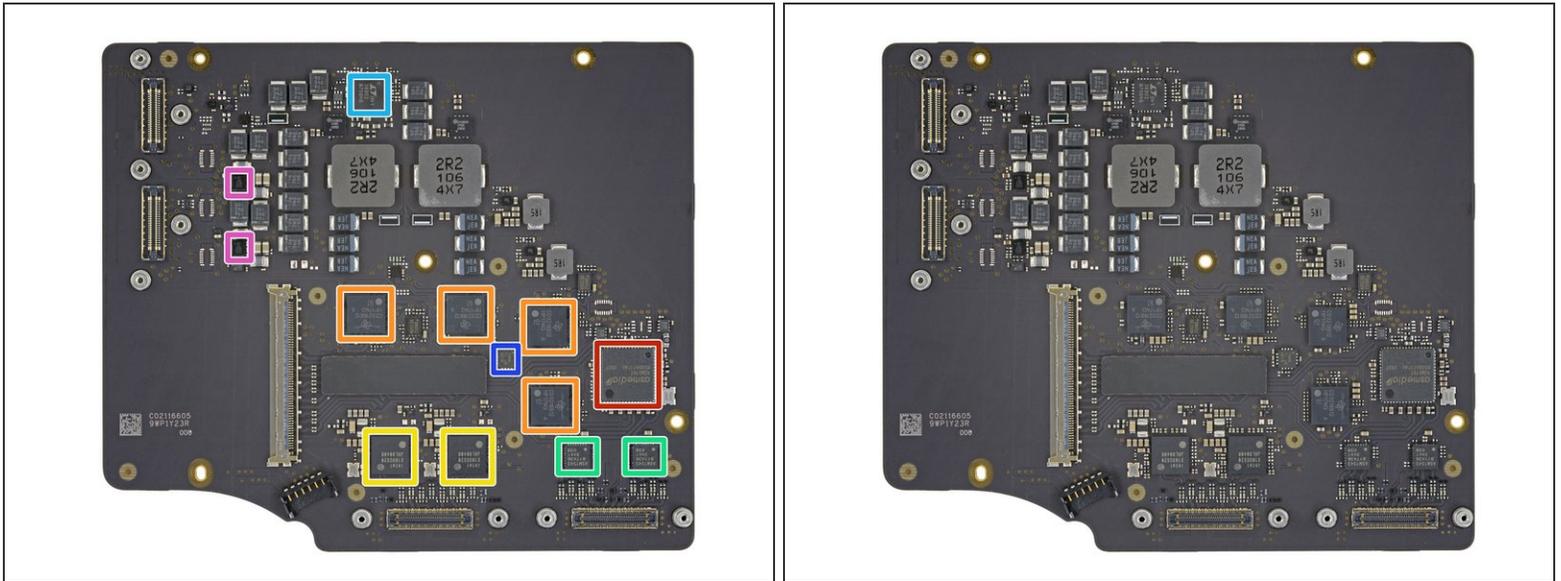
- Front side of the logic board:
 - Kioxia K1CM225VE4779 128 GB NAND Flash
 - Broadcom BCM57762 ethernet controller
 - Infineon (formerly Cypress Semiconductor) [CYPD1185B2-32LQXQ](#) USB-C cable controller
 - Cirrus Logic CS42L83A audio codec
 - Analog Devices [SSM3515B](#) 31-watt class-D audio amplifier
 - Analog Devices (formerly Linear Technology) [LTC3890-2](#) two-phase synchronous step-down converter
 - Texas Instruments [TPS259827ON](#) 15-amp eFuse with load current monitoring and transient fault management

Step 4



- Front side of logic board, continued:
 - Macronix [MX25U6472F](#) 64 MB serial NOR flash memory
 - Texas Instruments [OPA333](#) single zero-drift CMOS operational amplifier
 - Temperature sensor (likely)
 - Texas Instruments [INA210](#) bi-directional current sense amplifier
 - Nexperia (formerly NXP Semiconductor) [74AVC2T45](#) 2-bit dual-supply voltage level translator/transceiver
 - Texas Instruments [SN74AHC1G32](#) single 2-input OR gate
 - NXP Semiconductor SN210V NFC controller with secure element

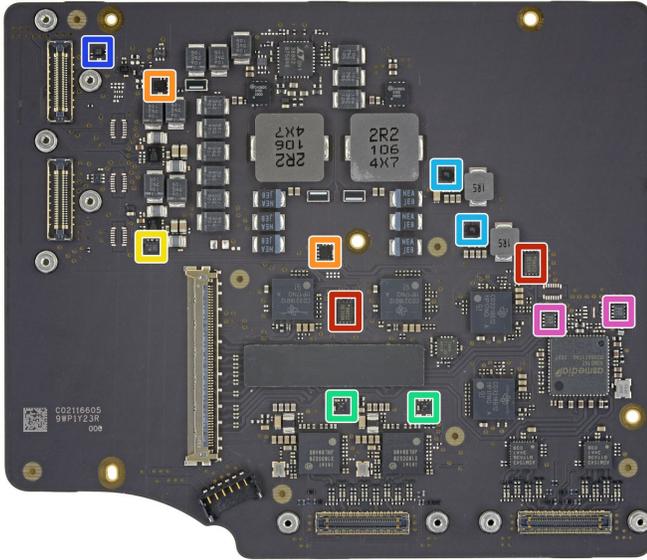
Step 5



- Interconnect board:

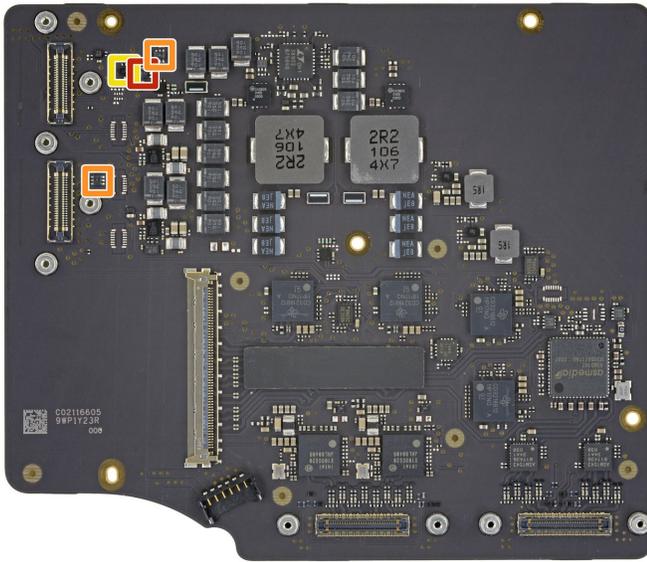
- ASMedia [ASM3142](#) PCIe-to-USB 3.1 Gen 2 controller
- Texas Instruments CD3218B12 USB-C port/power delivery controller
- Intel [JHL8040R](#) Thunderbolt 4 retimer
- ASMedia [ASM1543](#) 10 Gbps 4:2 mux switch with USB 3.1 type-C compatibility
- Analog Devices (formerly Linear Technology) [LTC3890-2](#) two-phase synchronous step-down converter
- Texas Instruments [TMP464](#) five-channel temperature sensor
- Analog Devices [SSM3515B](#) 31-watt class-D audio amplifier

Step 6



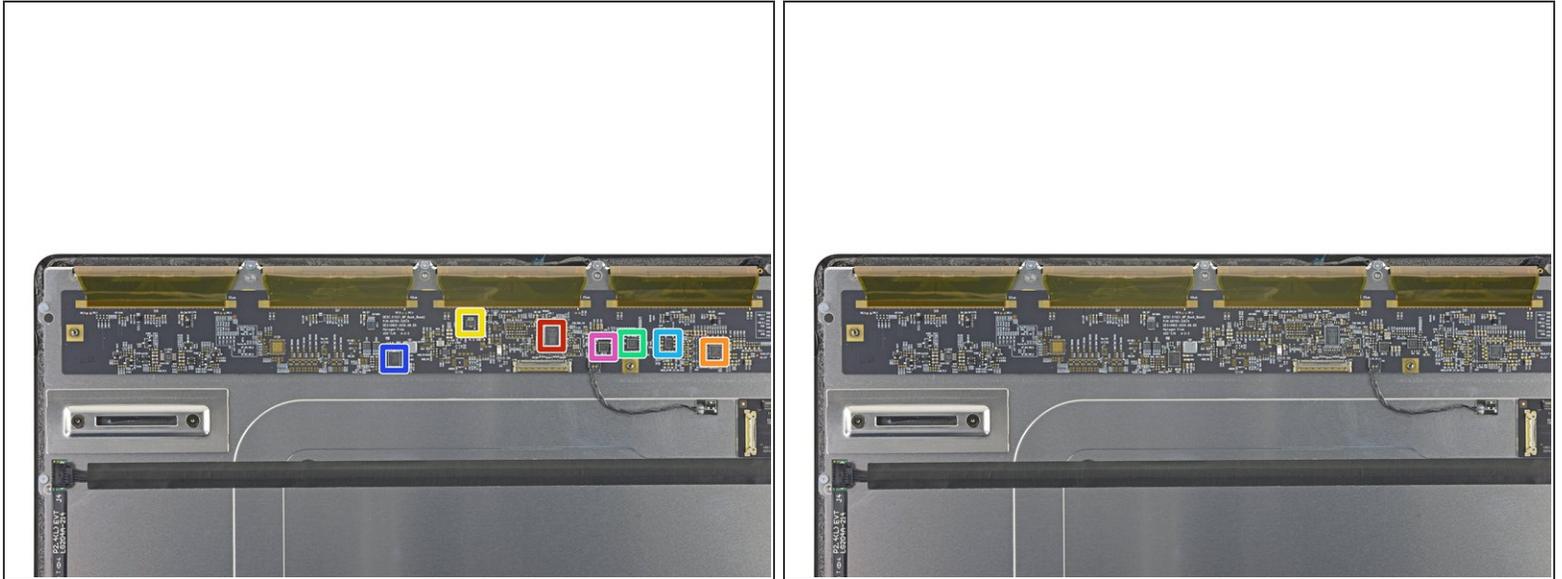
- Interconnect board, continued:
 - Winbond [W25Q80DVUXIE](#) 8 MB serial NOR flash memory
 - Texas Instruments [INA231BIYFD](#) 16-bit current/voltage/power monitor
 - Texas Instruments [TMUX1108](#) 1-channel analog multiplexer (likely)
 - Texas Instruments [TLV75533P](#) 500 mA LDO regulator
 - Maxim Integrated DC-DC converter
 - Nexperia (formerly NXP Semiconductor) [74AUP1G09](#) single AND gate
 - Dialog Semiconductor (formerly Silego) [SLG59M301V](#) 4-amp load switch

Step 7



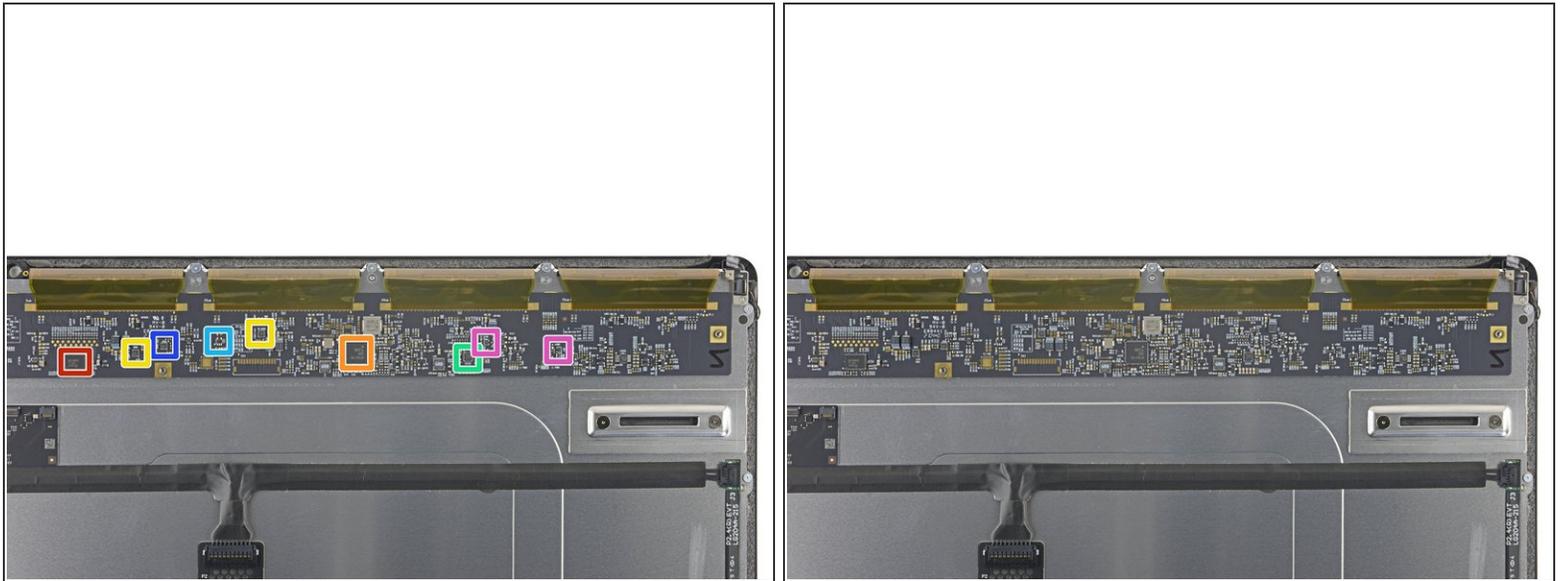
- Interconnect board, continued:
 - Nexperia (formerly NXP Semiconductor) [LSF0101](#) 1-bit bidirectional multi-voltage level translator
 - Texas Instruments [SN74AXC1T45](#) dual-supply bus transceiver
 - Texas Instruments [SN74AUP1G17](#) Schmitt trigger (likely)

Step 8



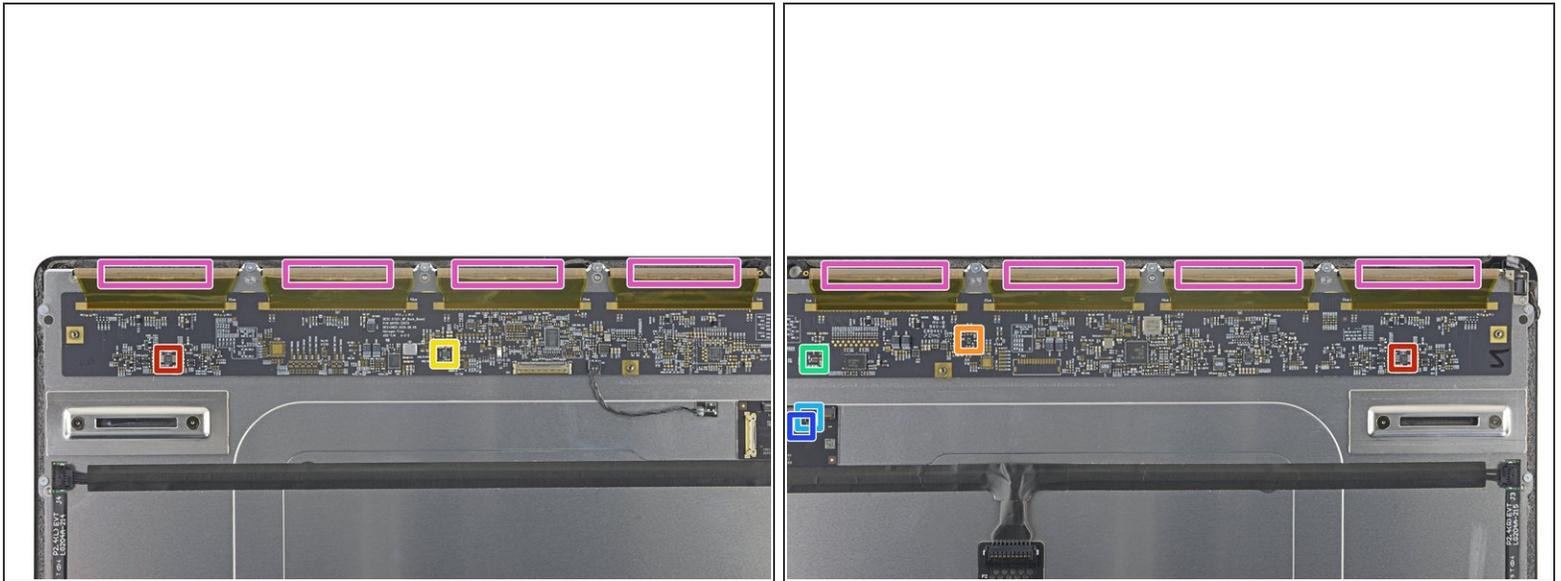
- Left side of the display board:
 - Parade Technologies DP855A DisplayPort timing controller
 - Silicon Works SW50024 LCD level shifter
 - Winbond [W25Q40EWUXIE](#) 4 MB serial NOR flash memory
 - Texas Instruments [TMP468](#) 9-channel temperature sensor
 - Dialog Semiconductor (formerly Silego) [SLG46826](#) mixed signal array
 - Analog Devices (formerly Linear Technology) [LTC3115-1](#) 2-amp synchronous buck converter
 - Texas Instruments [TPS62140](#) 2-amp step-down converter

Step 9



- Right side of the display board:
 - Texas Instruments [BUF18830](#) 18-channel gamma-voltage generator
 - Richtek RT6811HGQV display power management
 - Texas Instruments [TPS259571](#) eFuse with over-voltage protection
 - Texas Instruments [TPS26621](#) 800 mA eFuse with I/O reverse polarity protection
 - Texas Instruments [2N7001T](#) 1-bit dual-supply buffered voltage signal converter
 - Texas Instruments [TLV76701](#) 1-amp LDO Regulator
 - Texas Instruments [SN74LVC1G04](#) single inverter

Step 10



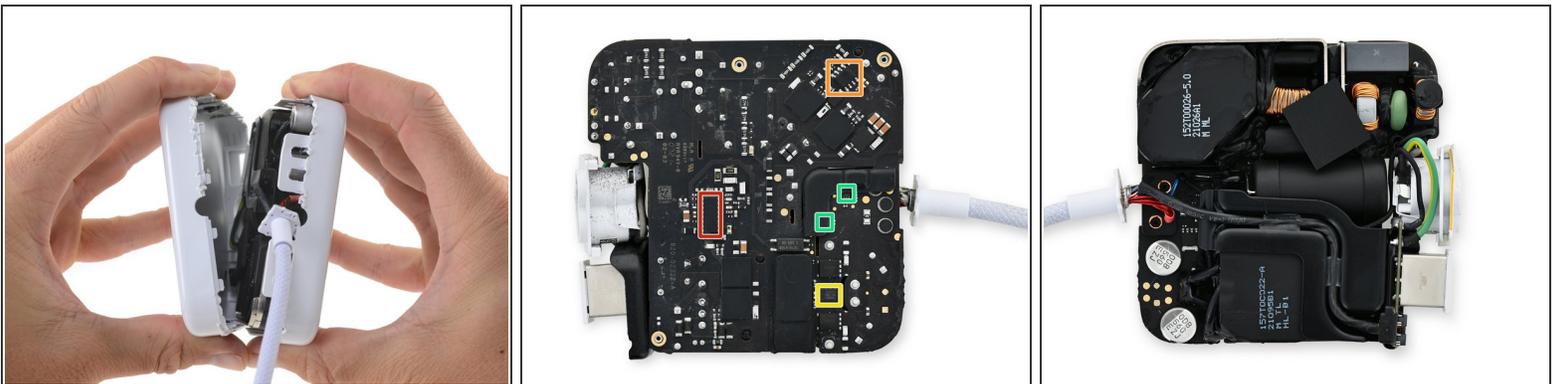
- Left and right side of the display board, continued:
 - Texas Instruments [OPA2810](#) dual rail-to-rail I/O operational amplifier
 - ON Semiconductor analog switch
 - Texas Instruments TPS62137 DC-DC converter
 - Dialog Semiconductor load switch (likely)
 - Texas Instruments microcontroller (likely)
 - Texas Instruments regulator (likely)
 - Display drivers

Step 11



- Texas Instruments [DRV10975](#) BLDC motor driver

Step 12



- A partial list of chips on the power supply board:
 - NXP Semiconductor [TEA19161T](#) digital power supply controller
 - NXP Semiconductor [TEA19162T](#) power factor correction controller
 - NXP Semiconductor [TEA2095TE](#) dual synchronous rectifier switching controller
 - Texas Instruments [OPA333](#) single zero-drift CMOS operational amplifier