FAIRPHONE

Fairphone 5: Information on how to repair and recycle

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1. Product Identification

This document refers to the Fairphone 5 5G, a product by Fairphone, that was launched in the market on October 15, 2023.

The main technical specifications are as follows:

Display

6.46 inch Full HD+ OLED, 1224×2700 resolution

90 Hz refresh rate

300 Hz touch screen sample rate

880 nits peak brightness (800 nits typical brightness)

1.07 billion colors (P3)

1.000.000:1 contrast ratio

Pixelworks Processor for image enhancements including adaptive tone

Corning Gorilla Glass 5, fully laminated, oleophobic coating

20:9 aspect ratio

Sound

Stereo speaker

The supported formats include: SBC, AAC, aptX, aptX HD, LDAC

Main Camera:

50MP Sony IMX 800 sensor, 1/1.49”, 1.0µm pixel size

Pixel Binning: 12.5MP, 2.0 µm effective pixel size

26 mm full frame equivalent, F1.88 lens, 6 lens elements

Autofocus, 10 cm minimum focusing distance, time of flight sensor

Up to 8x digital zoom

Optical image stabilization + electronic image stabilization

Ultra Wide camera:

Image sensor: 50 megapixels SONY IMX 858, 1/2.51”, 0.7 µm pixel size

Pixel binning 12.5 MP, 1.4 µm effective pixel size

13 mm full frame equivalent, F2.2, 6 elements

Autofocus, Macro Mode, 2.5 cm minimum focusing distance, time of flight sensor

Electronic image stabilization

Selfie camera

Image Sensor: 50MP Samsung JN1, 1/2.76", 0,64 µm pixel size

Pixel binning 12.5 MP, 1.28 µm effective pixel size

22 mm full frame equivalent, F2.45 lens

Up to 1,5x digital zoom

Electronic Image Stabilization

Display usable as flash

Camera Modes

Super night mode, portrait, stop-motion, panorama, slow motion, pro mode, high pixel mode

Video

4k: 3840×2160p, 30 fps

Full HD: 1920×1080p, 30 fps or 60 fps

Slow Motion: Full HD: 1920×1080p,120 fps or HD: 1280×720p, 240 fps

Operating system

Android™ 13

Android Enterprise Recommended

Software updates until 2031

Performance

Qualcomm QCM 6490 (extended life chipset)

64-bit Octa-Core processor

1x “Gold +” high performance core 2,7GHz

3x “Gold” high performance core 2,4GHz

4x “Silver” efficiency core 1,9 GHz

Qualcomm Adreno 643 @ 812MHz

8 GB Ram

Storage

256 GB internal storage

External storage capacity: micro-SD up to 2 TB

Battery

4200mAh removable Li-ion battery

459 hours idle

38 hours phone calls

18 hours web browsing

50% charge in 20 minutes, 30W charging

Connectivity & location

Wi-Fi 6E

Bluetooth® 5.2 LE

NFC

GPS/A-GPS, Beidou, Galileo, GLONASS,

Dual SIM (nano-SIM + eSIM, both 5G enabled)

Bands and Band-Combinations:

4G: B1/2/3/4/5/7/8/12/20/28/32/38/40/41/42/48/66/71

5G: n1/2/3/5/7/8/20/28/38/41/48/66/71/77/78

USB-C 3.0 (OTG capable)

Durability

IP 55

CE 60058-2-31 (1.8m)

MIL-810H (1.5m)

Sensors & Security

Fingerprint scanner (integrated in power button)

Facial recognition

Magnetometer

Accelerometer

Gyroscope

Compass

Hall Switch

Light Sensor

Proximity Sensor

2. Repairs done by Fairphone

If you can not or do not want to repair the device yourself, you can always send it to us for repair. There are a few spare parts that we cannot offer for repair. At the time of writing this guide, the following components could be replaced by us:

1. Battery
2. Back Cover
3. Display
4. Top Unit
5. Wide Camera
6. Ultra-Wide Camera
7. Selfie Camera
8. Earpiece
9. Loud Speaker and Vibration Motor
10. USB-C Port
11. Mid-Frame
12. Top PCBA
13. Bottom PCBA

3. List of repair and test equipment needed

Repairing the Fairphone 5 is very simple, and the list of required tools is short. Most of the repairs will only require a Phillips screwdriver (PH00). For more complex repairs, you will need tools 2–8.

1. Phillips screwdriver PH00
2. Prying tool
3. USB-C cable (to test charging)
4. Battery Discharge Power measurement equipment
5. ESD protection gear
6. RF Connector tool
7. Soldering gun and soldering tin
8. Computer with Software flashing tool. You can find the instructions here.

4. Technical manual

Anyone can access our technical manual online. There are tens of different guides depending on the needs. See below for a selection of the 10 most important articles.

1. FP5. Charge your phone
2. FP5. Set up SIM card
3. FP5. Set up eSIM card (embedded SIM)
4. FP5. Connect to Mobile data
5. FP5. Connect to Bluetooth
6. FP5. Connect to a Wi-Fi
7. FP5. Migrate data from another phone
8. FP5. Update to the latest Fairphone OS
9. FP5. Maximize battery lifespan
10. FP5. Replace a spare part

You can access all the rest here

5. Diagnostic faults and error codes

- We make use of Android's (AOSP) default logging and tracing mechanisms, which mostly means Android *logcat* messages generated by the Android framework, apps and HAL implementations, as well as kernel logs.

- Additionally, we use logging and diagnostics in components of third party suppliers, most of which comes from Qualcomm. These components use the same technical mechanisms as AOSP code: Android *logcat* and kernel logs.
- For modem and low-level implementations, we fully rely on the logging and diagnostics implemented by our chipset vendor Qualcomm and their proprietary tooling.
- We currently mostly use a "pure-AOSP" approach -- keeping customization compared to AOSP to a minimum -- which facilitates maintenance and longevity
- For any customization we add on top of AOSP and device-specific code (from Qualcomm and other suppliers), we again make use of Android *logcat* and kernel log.
- If you encounter a pop-up with an error code "There has been an error" then you can use USB debugging https://developer.android.com/studio/debug/dev-options and the "adb logcat" tool to get the full log that contains all the strings to help you figure out what the error code is.

  In summary, our failure analysis relies on analyzing Android logcat, Linux kernel logs, and additionally Qualcomm modem logs where applicable, making use of existing tagging mechanisms from Android and Linux to identify failing components. Within the scope of the Android and Linux kernel, we currently do not have any proprietary formal error/fault codes (e.g., numerical error codes that follow certain specifications to identify which code would be related to what fault state). Our fault analysis relies on the mostly text-based analysis of Android and Linux logs.

6. Component information

For any question on this chapter, please contact product.management@fairphone.com.
Fairphone 5 contains the following key components with the following key data points:

Component	Part details	Vendor	Key specs
Battery	Model: F5AC1	Kayo	Capacity : 4200 mAh Nominal Voltage: 3.87 V Cut off Voltage: 3.0 V Charging Voltage: 4.45 V Dimensions: 77.4 x 60.45 x 6.2 mm DC Internal Impedance < 130 mΩ Standard discharge: Continuous 0.2 to 3.0 V Operational Charging Temperature Range: 0-60 ℃ Operational Discharge Temperature Range: -20 - 60 ℃ Recommend full charge & discharge cycle once every 3-6 months.
Chipset	QCM6490	Qualcomm	64 bit application processor Low-power island (LPI): contains DSP and embedded AI accelerator Supports: GNSS, WLAN/BT, LTE, TD-SCDMA, WCDMA, GSM 5G NR and EN-DC. Support camera interfaces: 3 x 14 bit ISP + 2x ISP-lite, 22+22+22 MP Adreno 642L GPU Qualcomm® Universal Bandwidth Compression (UBWC) with camera, display, GPU, video, and compute DSP FHD+, 10 bit DisplayPort, eight hardware layers, improved HDR10+, and wide color Gamut, Qualcomm® Low-Power Picture Enhancement display feature, and Qualcomm® True Palette Display feature, VESA DSC 1.2 One 4-lane DSI DSC1.2, D-PHY 1.2, or C-PHY 1.0
Display	BF065GBM-TK0-7DP0	BOE	6.46” Outline: 68.15(W)*149.85(H)*0.038(T) mm Active area: 67.7484(W)*149.445(H) mm Number of dots: 1224(W)* 27000(H) Frequency: 60/90 Hz MIPI Differential Input: -0.3 to 1.35 V Supply Voltage -(I/II/LV): -0.3 to 3.6/5.5/1.26 V Logical input & output voltage: -0.3 to 0.3 V ELVDD: 4.6 V (4.6 to 5.0 V) ELVSS: -3.5 V (-6 to -0.8 V) AVDD: 7.6 V (4.5 to 8 V) VCI: 3.0 V (2.6 to 3.6 V) VDDIO: 1.8 V (1.65 to 1.95 V) DVDD: 1.2 V (1.1 to 1.25 V) VGH: 3 V to 15 V VGL: -15 V to -3 V Operating Temp: -40 to 85 °C

Board to Board Connector	BM23PF0.8-20DP-0.35V	Tohoku Hirose Electric Co.	Voltage 30 V AC/DC Signal contact 0.3 A Power Contact 5.0 A Operating Temperature: -55 ℃ to 85 ℃ Storage Temperature: -10 ℃ to 60 ℃
Board to Board Connector	BM24-20DP /2-0.35V	Tohoku Hirose Electric Co.	Voltage 30 V AC/DC Signal contact 0.25 A Power Contact 5.0 A Operating Temperature: -40 ℃ to 85 ℃ Storage Temperature: -10 ℃ to 60 ℃
Speaker Top	SLS1012A	AAC	Dimensions: 10 x 12 x 2.8 mm Impedance: 7 Ω @ 2 kHz Input DC Resistance: 6 Ω 50 mW Rated Power Operating Temperature: -20 ℃ to +70 ℃ Storage Temperature: -40 ℃ to 85 ℃
Speaker Bottom	SLS1115D-01	AAC	Dimensions: 11 x 15 x 2.35 mm 8 Ω @ 2 kHz, 1 Vrms Input 1 W Rated Noise (1.5W Max) in 0.7cc 200-20 kHz Frequency range Operating Temperature: -20 ℃ to +70 ℃ Storage Temperature: -40 ℃ to 85 ℃
Microphone	SM0103B-R S421-M02	AAC	Sensitivity: -42 dB Output Impedance: 450 Ω Supply Voltage: 2.75V to 3.6 V Rated Current: 100uA S/N Ratio: 64dB Power Supply Rejection -95dBV Load Resistor 5 kΩ Operating Temperature: -40 to +85 ℃ Soldering Information: Preheat 150-180℃ for a maximum of 120 secs. Soldering Above 220℃ for a maximum of 90 secs. Peak 260℃ for a maximum of 30 seconds. Do not reflow more than 3 times.

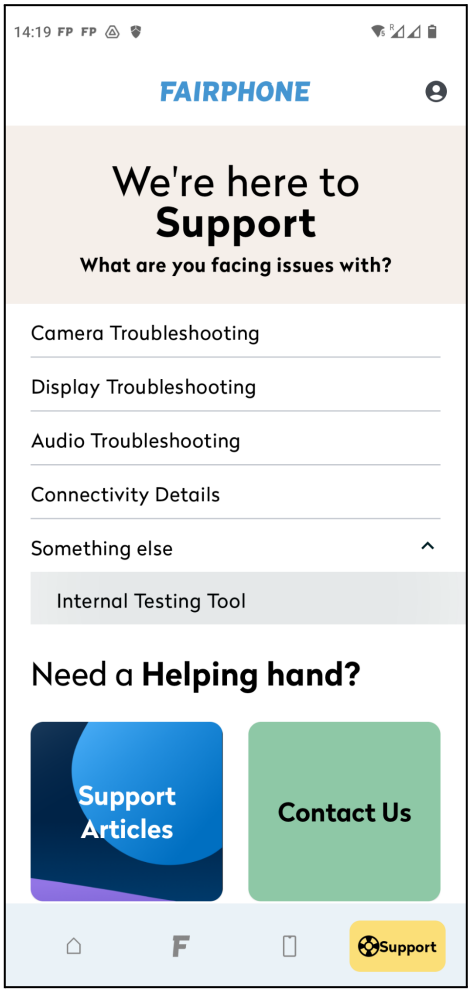
7. Diagnosis information

There are several components in your device that can be diagnosed. We advise you to follow our diagnosis tree on our website.

You can also test one of the phone functions or components directly. To do so, please go to **My Fairphone App** on your phone. Please only do this under the instruction of our customer support :

- Open MyFairphone App
- Click on "Support" (4th item in Bottom Navigation Bar)
- Click on “Something else”
- Click on "Internal Testing Tool"

To exit the test mode, scroll down and press exit.



Internal Testing Tool in the MyFairphone-App

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Diagnostic tests you can perform:

a. Traceability test
b. Fingerprint sensor (raw data)
c. Touch panel (raw data)
d. Sensor (raw data)
e. SD Memory card
f. SIM
g. eSIM
h. Earpiece (top speaker)
i. Speaker (bottom speaker)
j. Bluetooth
k. Wi-Fi 2.4G
l. Wi-Fi 5G
m. GPS
n. Fingerprint enroll (image capture)
o. Touch panel
p. LCD
q. LCD Backlight LEDs
r. Keyboard
s. E-compass
t. G-Sensor
u. Gyroscope
v. Front Camera
w. Main Camera
x. Ultra Wide Camera
y. Camera LED
z. Audio
aa. Vibration sensor
bb. NFC
cc. Proximity sensor
dd. Light sensor
ee. Backlight Sensor
ff. USB / Charger
gg. USB Type-C
hh. Accessory
ii. USB 3.0
jj. DP (video output)
kk. USB NTC (for temperature)
ll. Camera OTP
mm. Attestation Key Check (tests public and private keys to validate SW in the device)
nn. Calling

8. Instructions for software updates.

Fairphone OS releases for Fairphone 5 5G, based on Android 13 (A13), and we provide regular software updates.

Instructions on how to download and **install** these updates **directly on your phone** are here.
Instructions on how to download and **install** these updates **using your computer** can be found here.
Here you will also find the updated list of new features, bug fixes, and security patches for each release. The date and availability of system updates may vary by network carriers or country.
Instructions on how to make a factory reset can be found here.

9. Data records of reported failure incidents

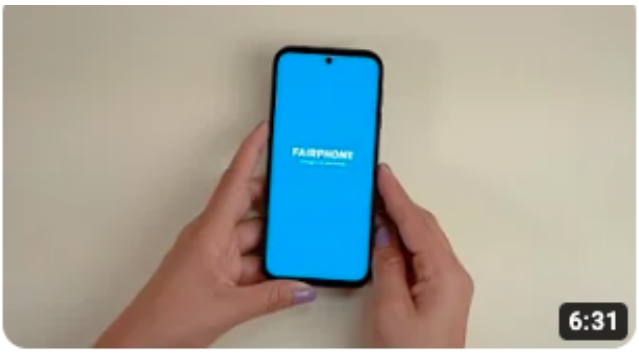
Fairphone maintains data records of failure incidents in accordance with GDPR regulations. When customers contact us about a reported failure, it is necessary for us to hold a certain amount of data to be able to process this failure and the potential return of the product to our repair center. We also maintain records of reported failures in an anonymized way where no customer data is required for varied business related purposes such as cost management and future warranty provisioning. We do not make this information available publicly. Furthermore, we do make information available about certain known failures of our products on a case-by-case basis. For any questions on this chapter, please contact product.management@fairphone.com.

10. Guidance for self-repair and technical manual.

Repairing the Fairphone 5 is very easy. The actions contained in this chapter have no consequence for your warranty coverage.

You can find any of our video self repair videos and a simple self-repair guide in this link.

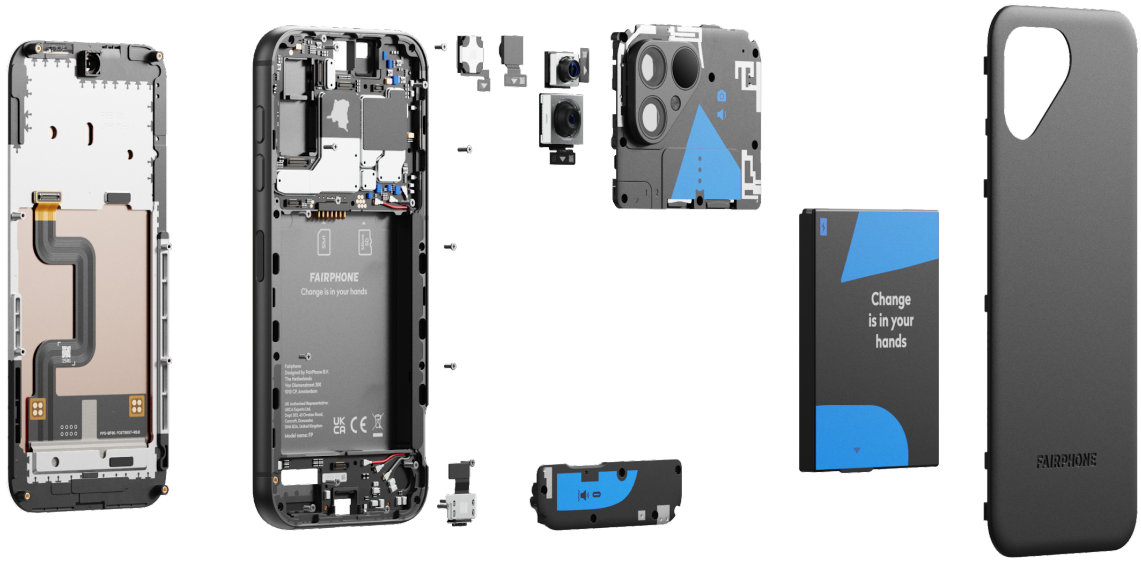
In this document, you can also find a printed version of our repair manuals.



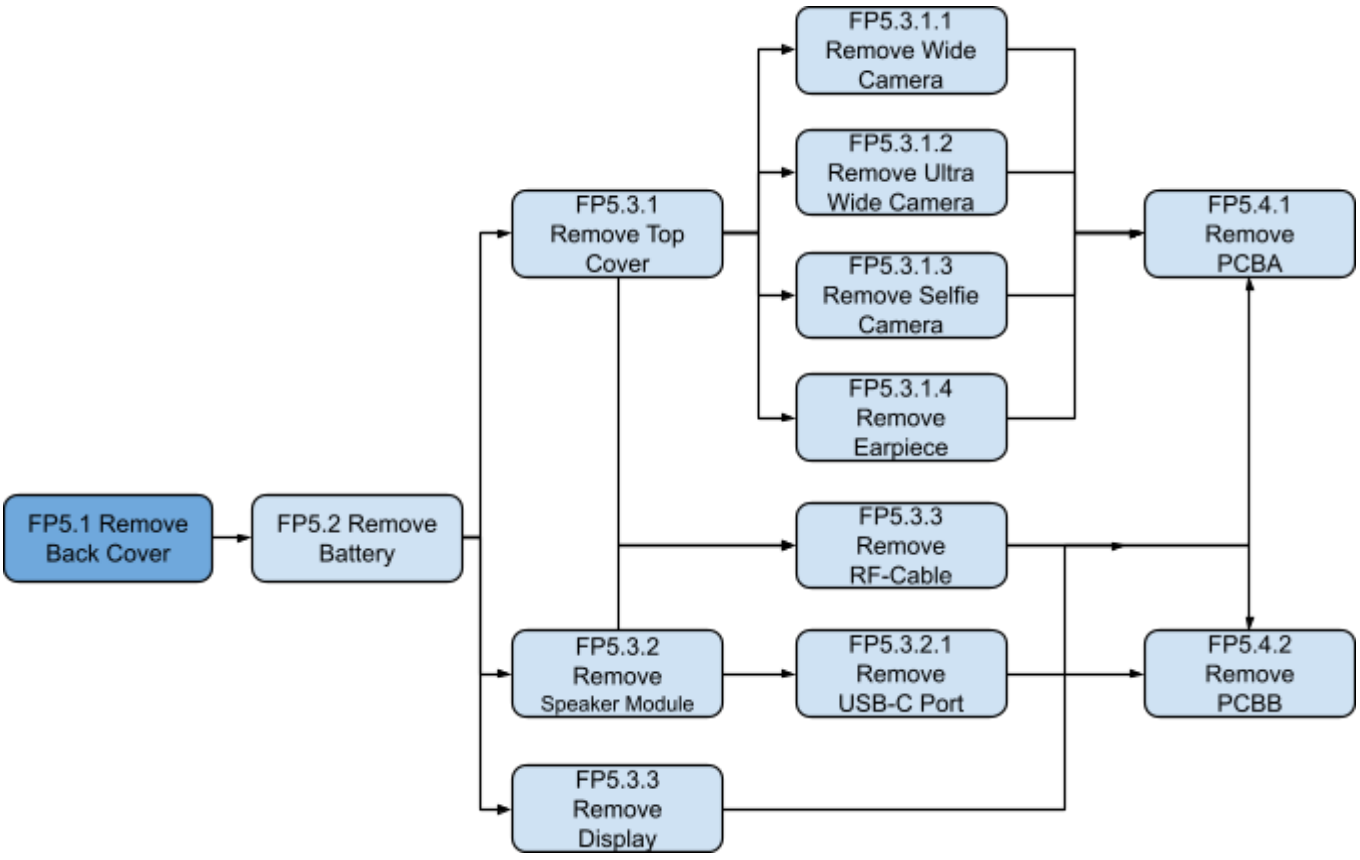
Getting Started | HOW TO FAIRPHONE 5

FAIRPHONE

a. Spare parts overview and disassembly map



b. Disassembly flow



c. Cautions before disassembly

i. **Power off the device:** Before disassembly, please power off the device and take out the battery.

ii. **Press the power button** more than 5 seconds after the battery is removed, to release the electricity residual in capacitors.

iii. **ESD Protection:** Electronic-sensitive components inside (especially in winter); suggest releasing the static electricity on the body (e.g., finger touch metal objects).

iv. **Pay attention to the two different types of screws:**

1. Black Phillips head (M1.4) (for display repairs)
2. Silver Phillips head (M1.4) (for other repairs)

v. **Prepare your tools:**

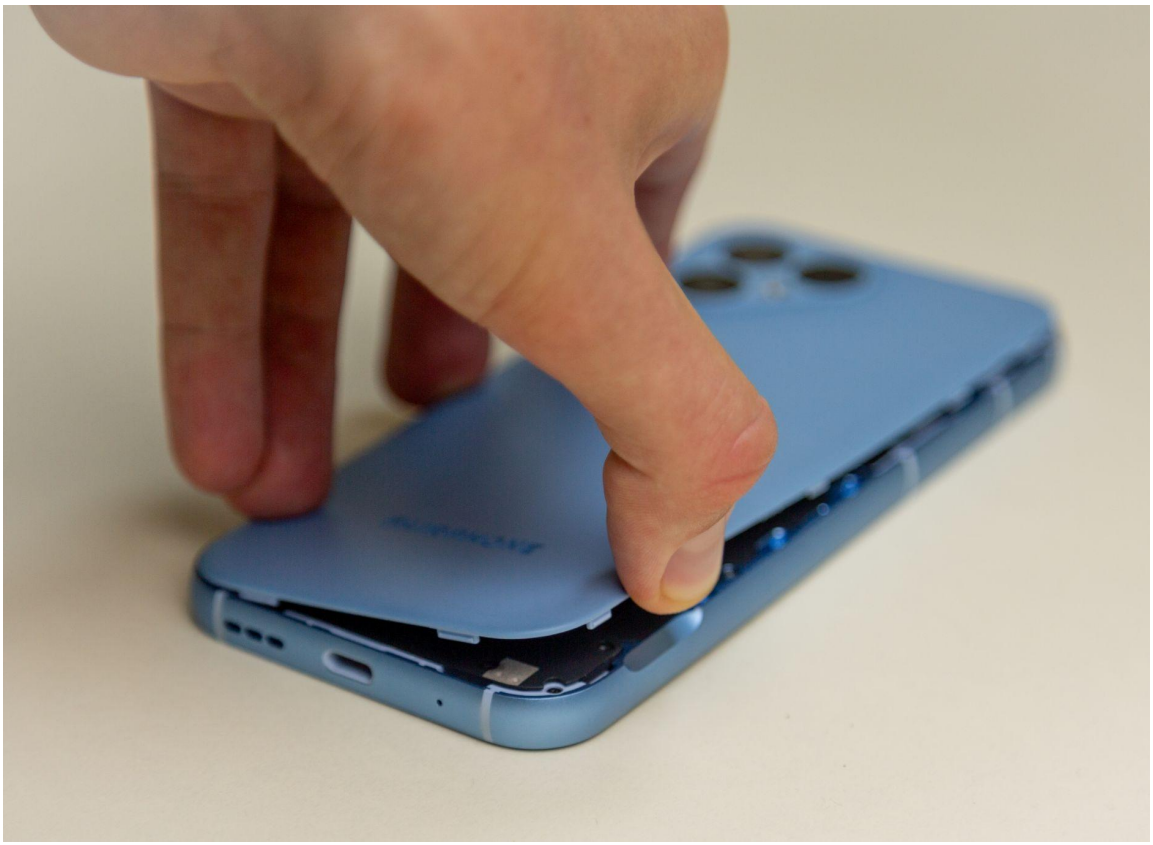
1. Phillips screwdriver PH00.

vi. **If you are a professional repairer, consider the torque force** needed for screw/unscrew operation:

1. Torque force for Philips screws: 0.8±0.15KGF

d. Replacing back cover and battery

Step 1: Lift the back cover, starting at the opening position on the bottom right, and then remove it completely.



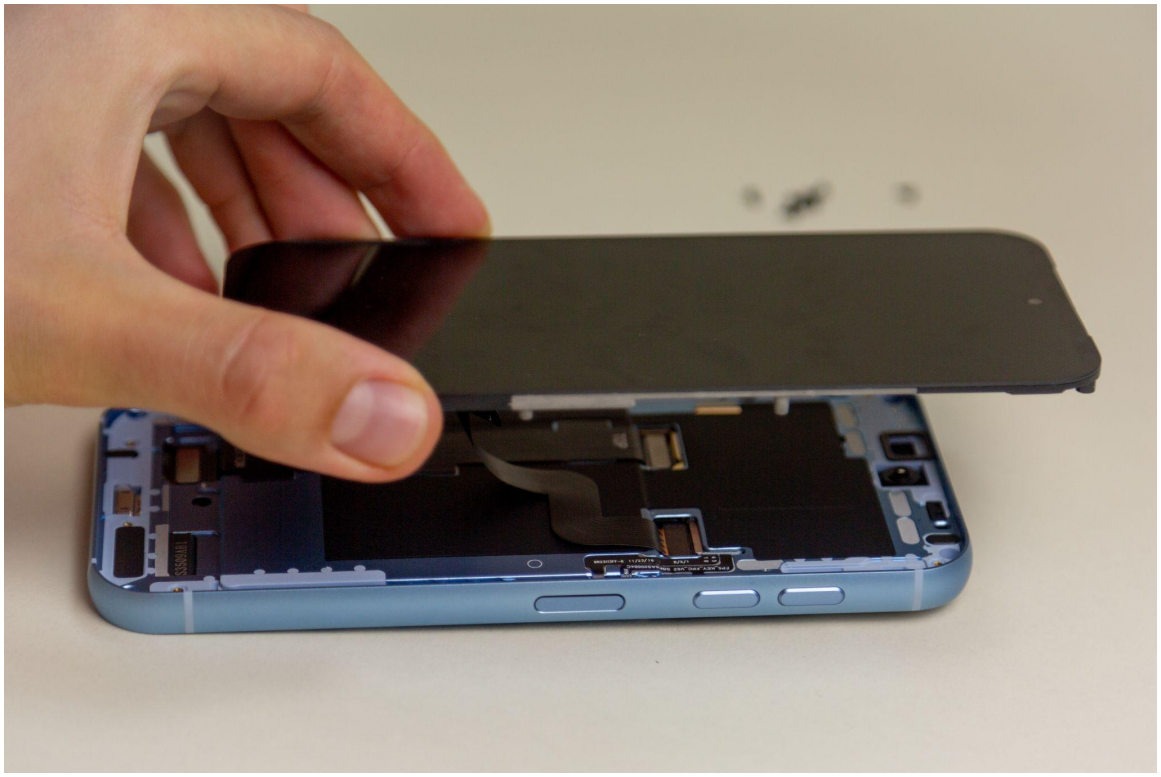
Step 2: Remove the battery by lifting it up from the tab at the bottom of the battery.

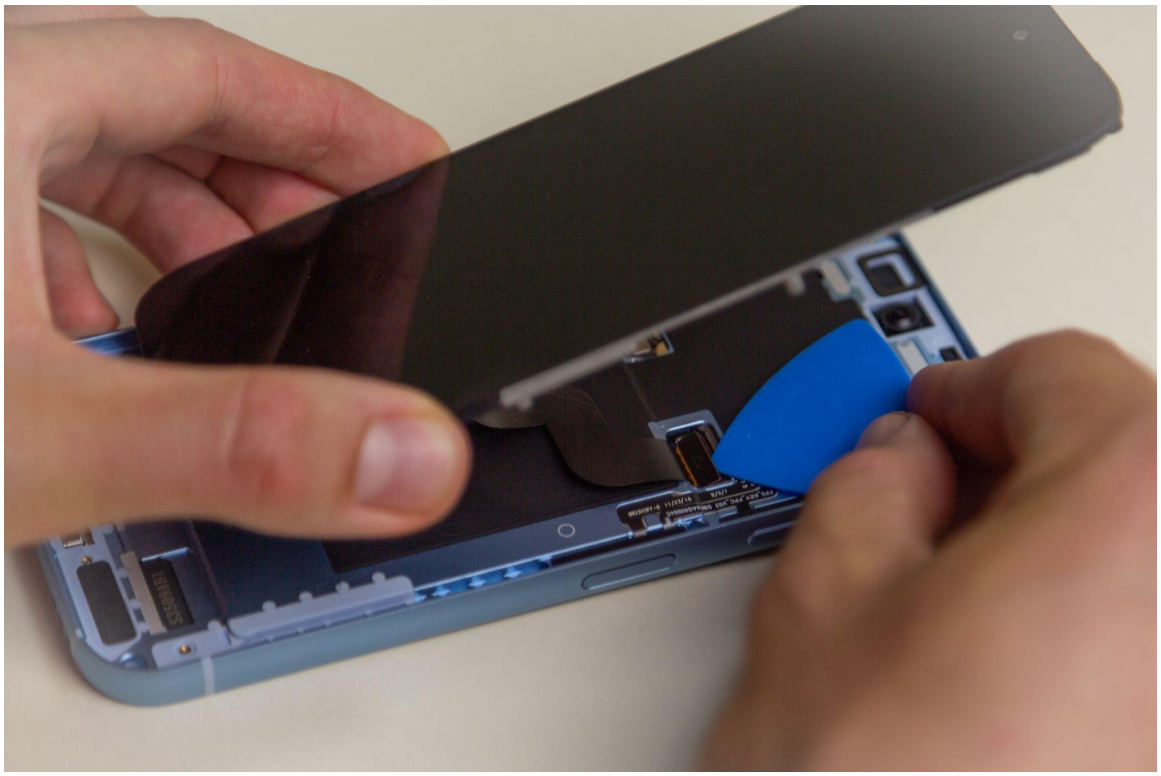
e. Replacing display

Step 1: Follow previous steps (d) to remove the back cover and the battery

Step 2: Remove the 8 black Phillips screws indicated in the picture below.

Step 3: Lift the display and disconnect the cable behind it.





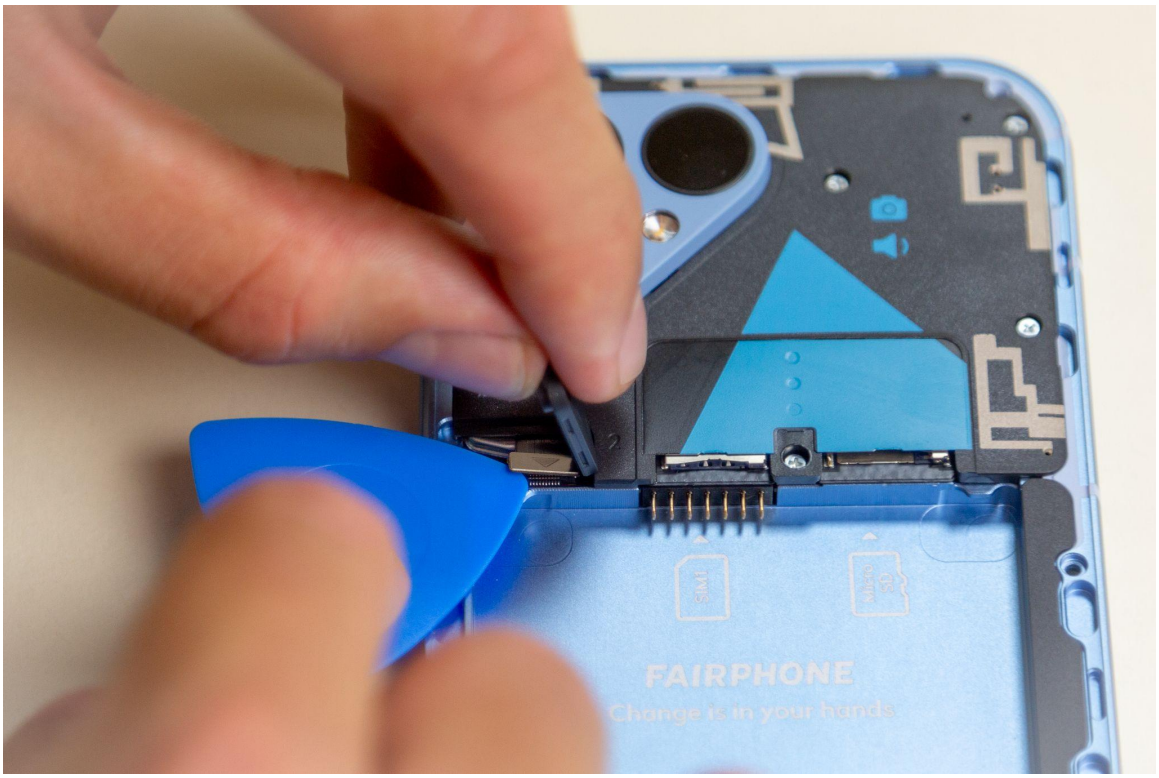
Step 4: Connect the new display by first connecting the cable back. Simply push the connector in until you hear a click.

Step 5: To assemble again, repeat the actions in steps 3, 2, and 1 in reverse order.

f. Replacing the rear cameras, selfie camera, or earpiece

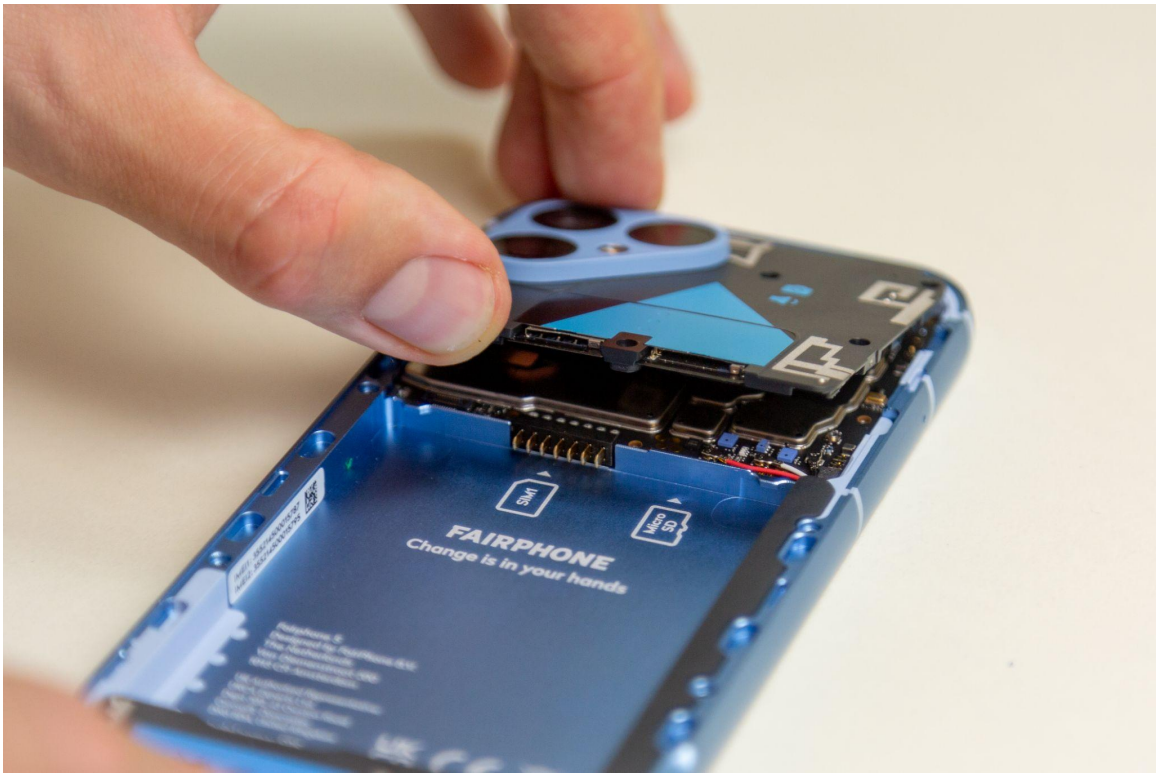
Step 1: Follow instructions for replacing the back cover and battery (e).
Step 2: Remove the top cover lid screw.

Step 3: Lift the top connector lid and disconnect the connector.

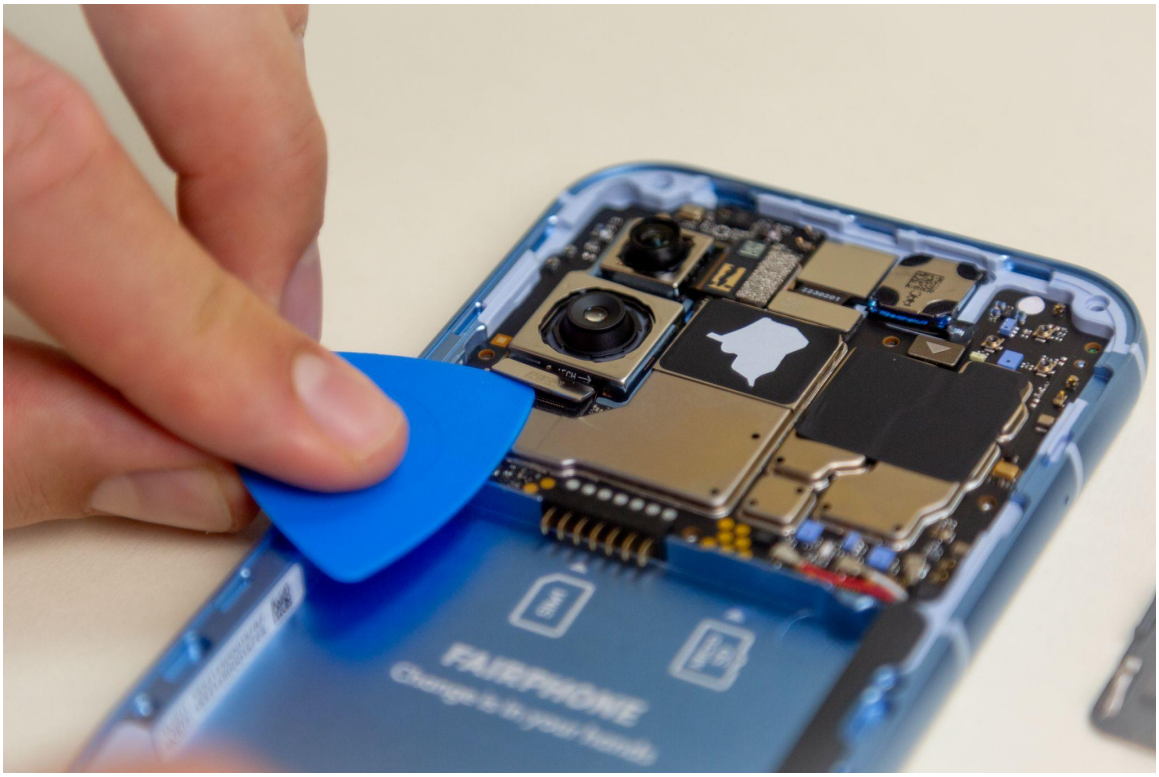


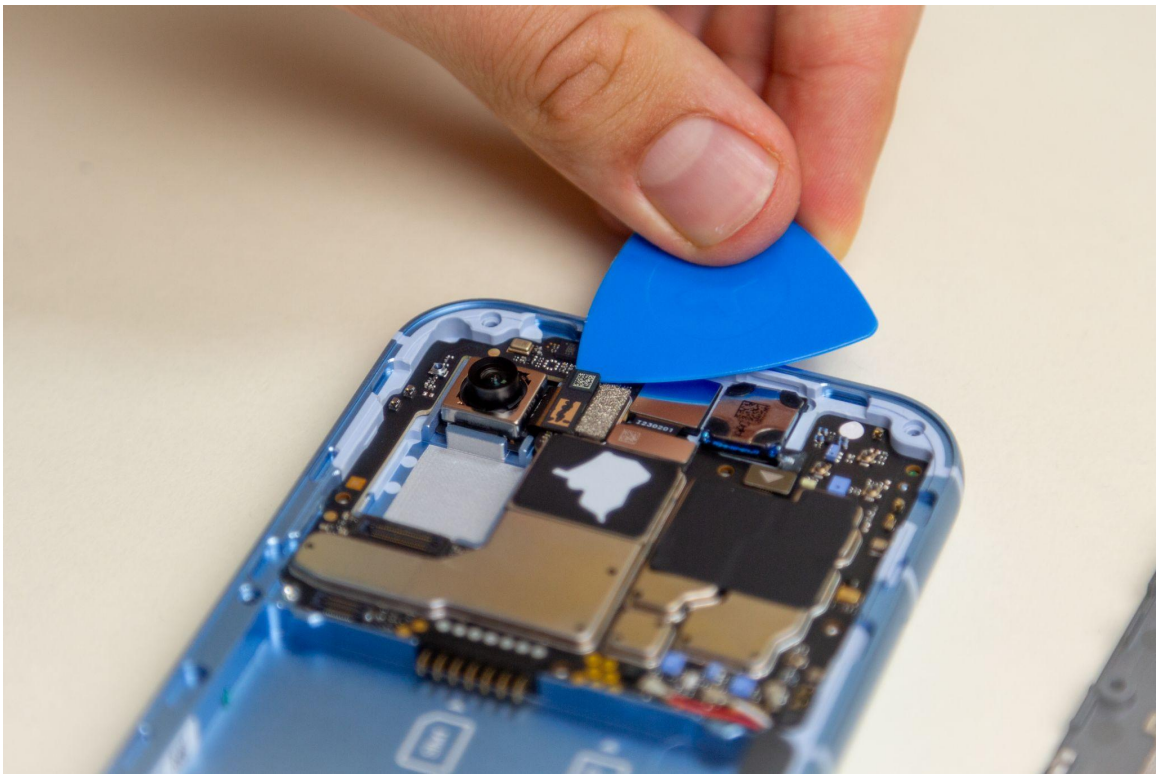
Step 4: Remove the remaining six silver rear camera screws.

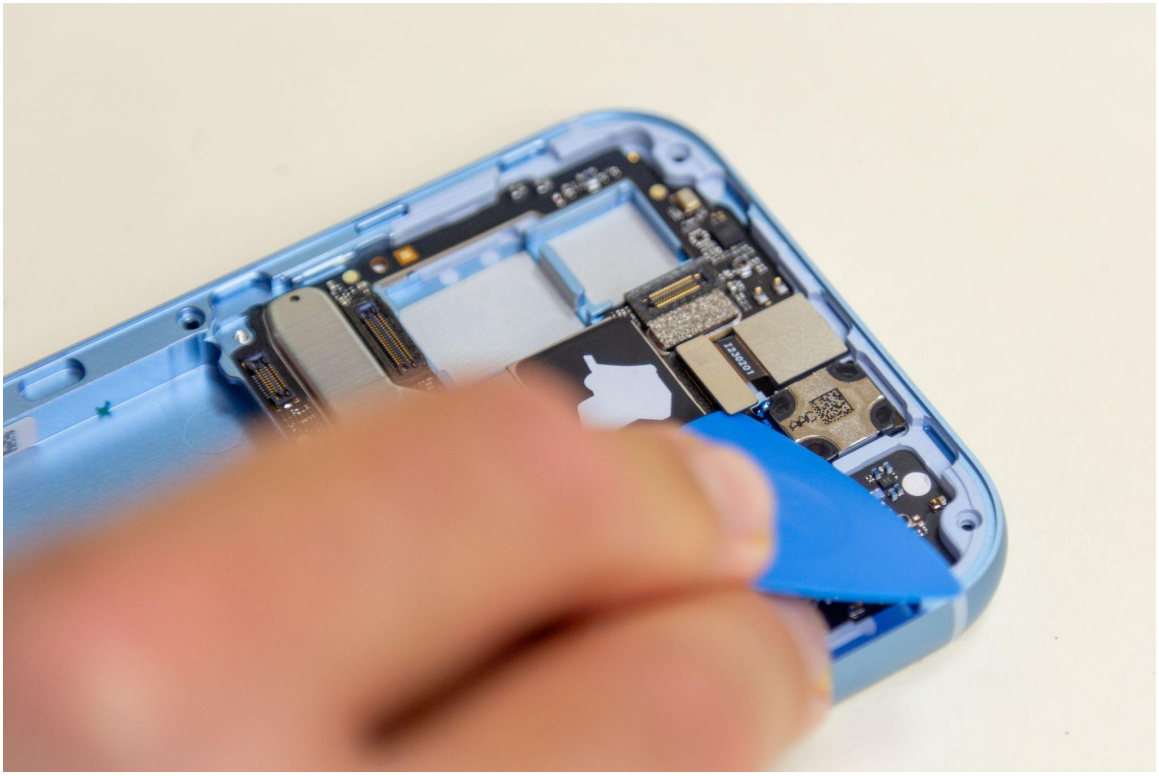
Step 5: Lift the top cover.

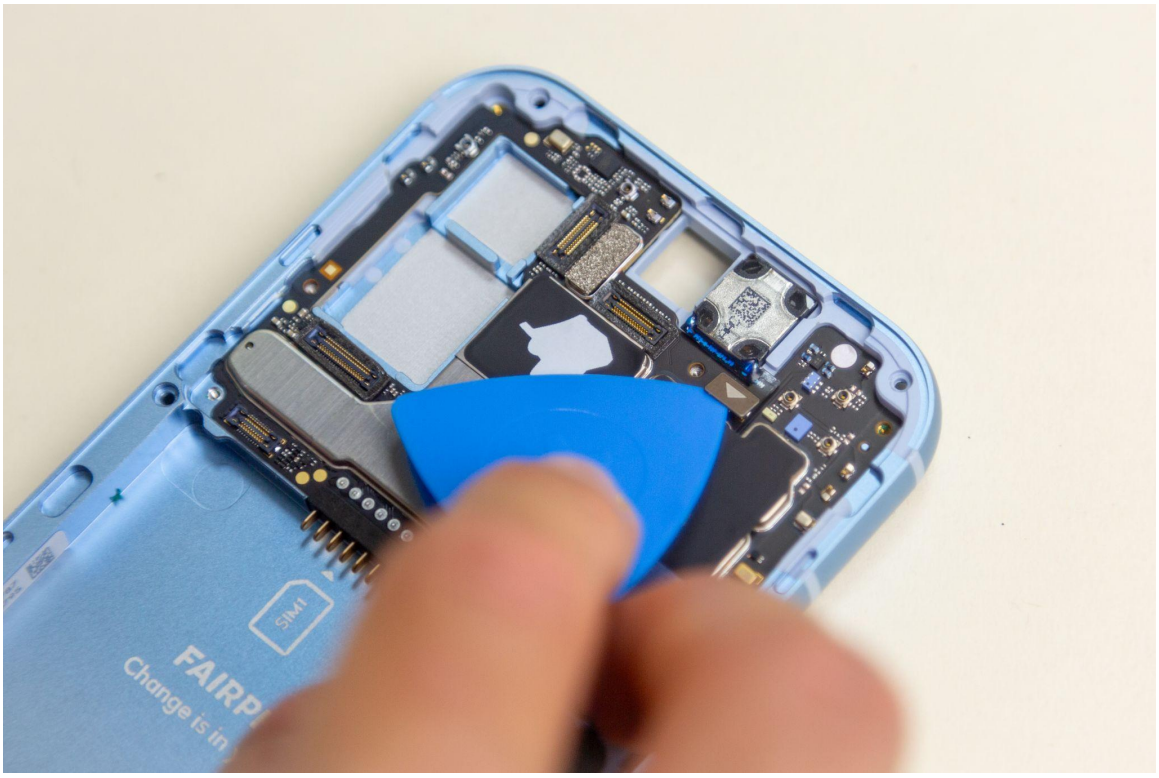


Step 5: Disconnect the according Camera or Earpiece Connector








SIM1

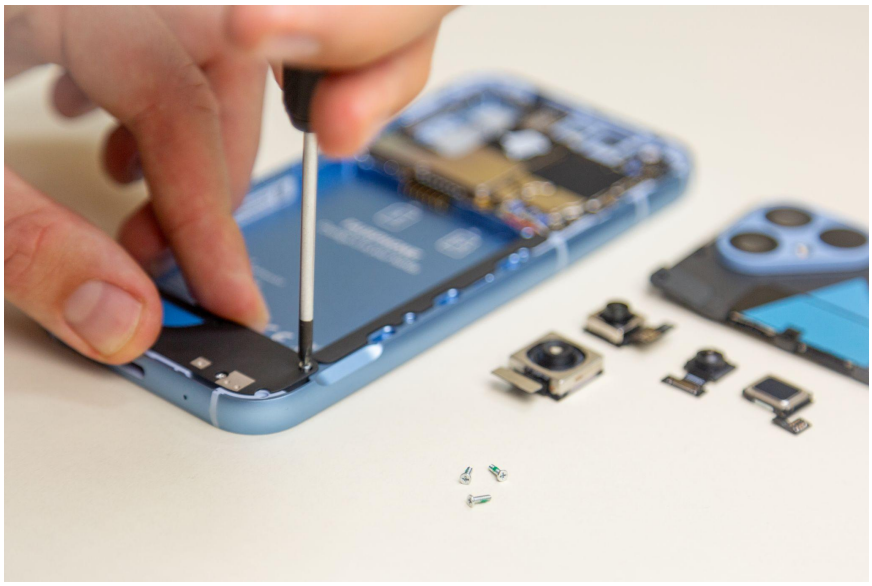
Step 6: Remove the camera or earpiece.

Step 7: Insert the new camera or earpiece and connect it to its appropriate connector.
Step 8: repeat actions in the steps 5 to 1 in reverse order

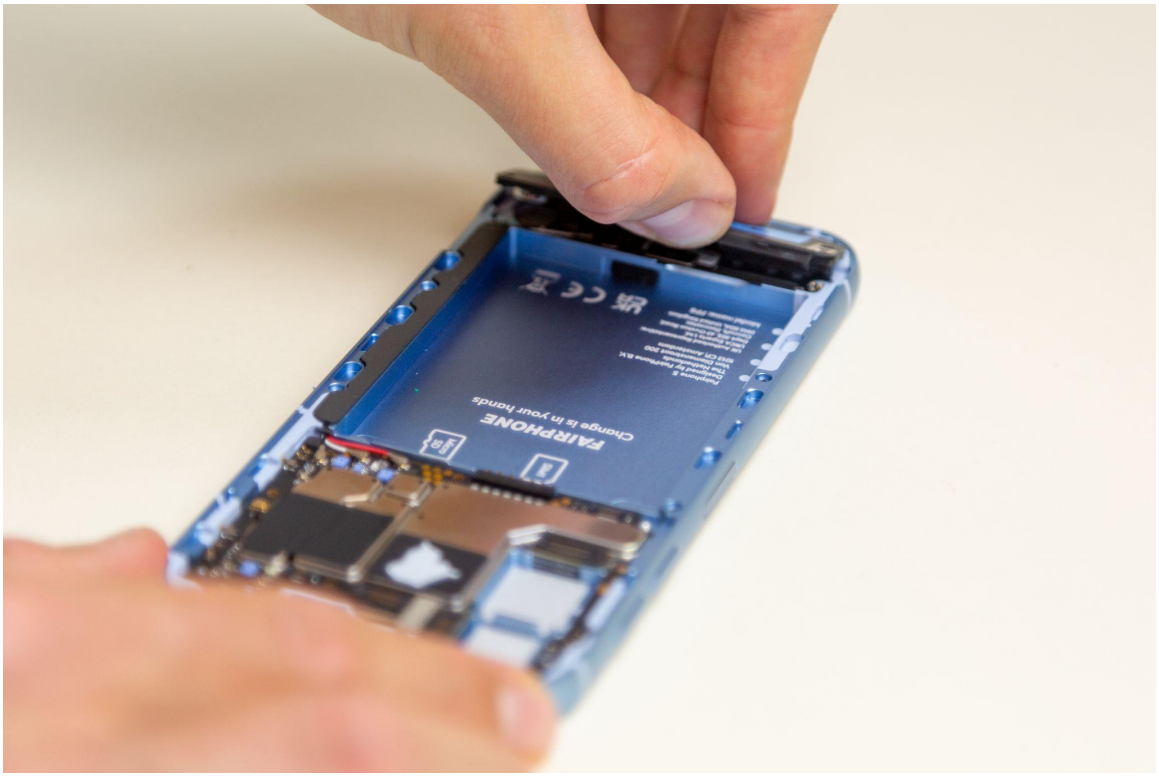
g. Replacing the loudspeaker, vibration motor, or USB-C port

Step 1: Follow the steps in e.

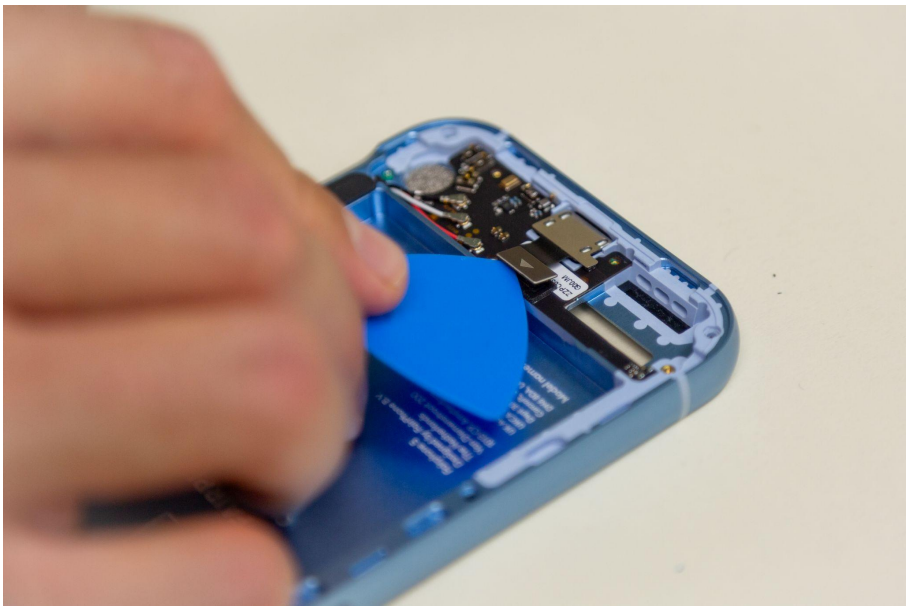
Step 2: Remove the five loudspeaker Phillips screws (silver).



Step 3: Lift the loudspeaker by lifting the central lip and removing it. This part also contains the vibration mechanism.



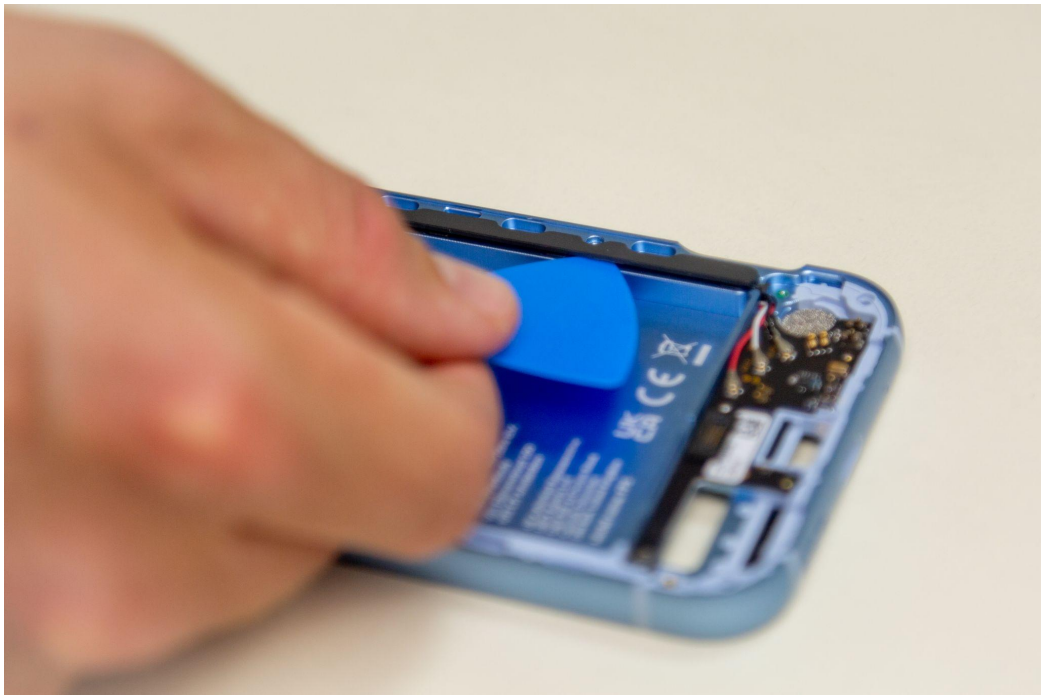
Additional step: *If you are replacing the USB-C port, you can now access it. For this, disconnect the USB-C port connector first. Please keep in mind that there is no screw holding the USB-C port at this point. You have already removed it when removing the loudspeaker screws. Place the new USB-C back in place and push the connector until you feel a click.*



Step 4: Put the (new) loudspeaker in place. Click it in and place back the six screws.

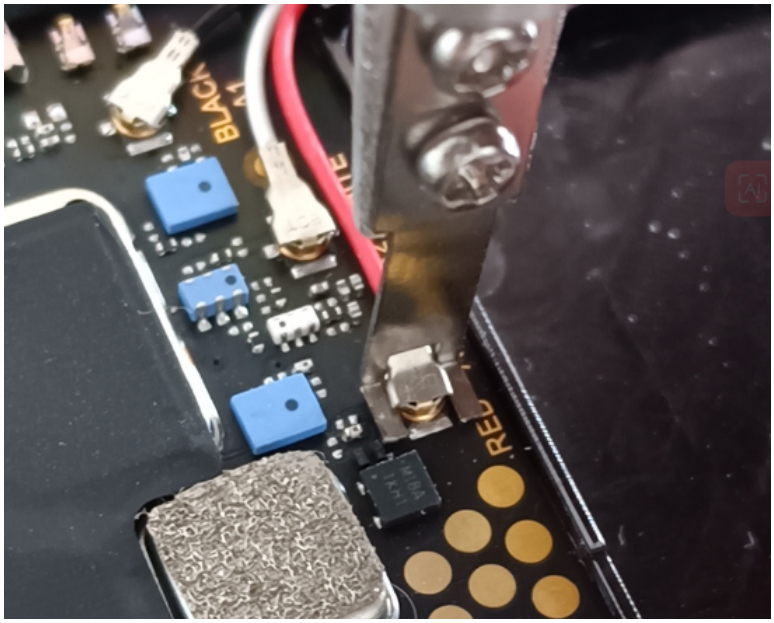
h. Replacing the PCB and mid-frame

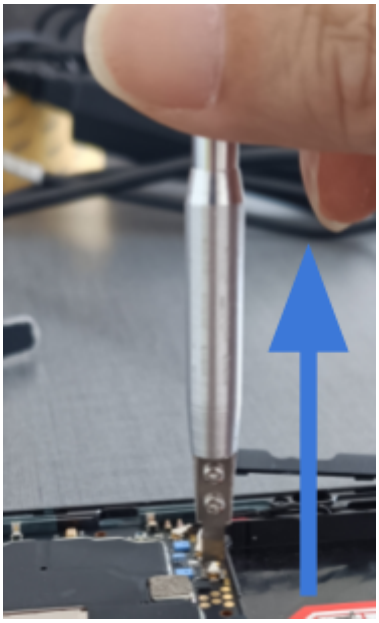
Step 1: Follow the steps in **e** to remove the back cover and battery.
Step 2: Follow the steps in **f** to remove the display.
Step 3: Follow steps in **g** to remove cameras and earpiece
Step 4: Follow steps in **h** to remove the loudspeaker and USB-C port.
Step 5: Use a prying tool to remove the FP5 coaxial cable cover.



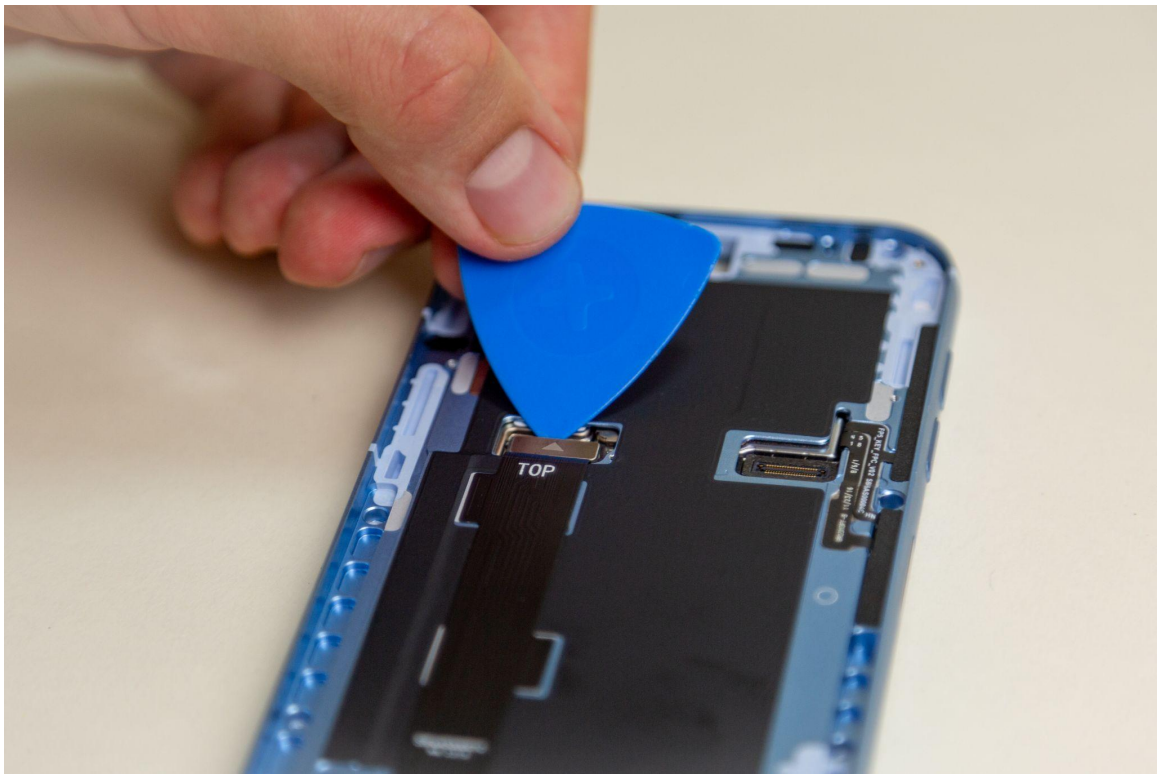
Step 6: Remove the RF cable rubber.

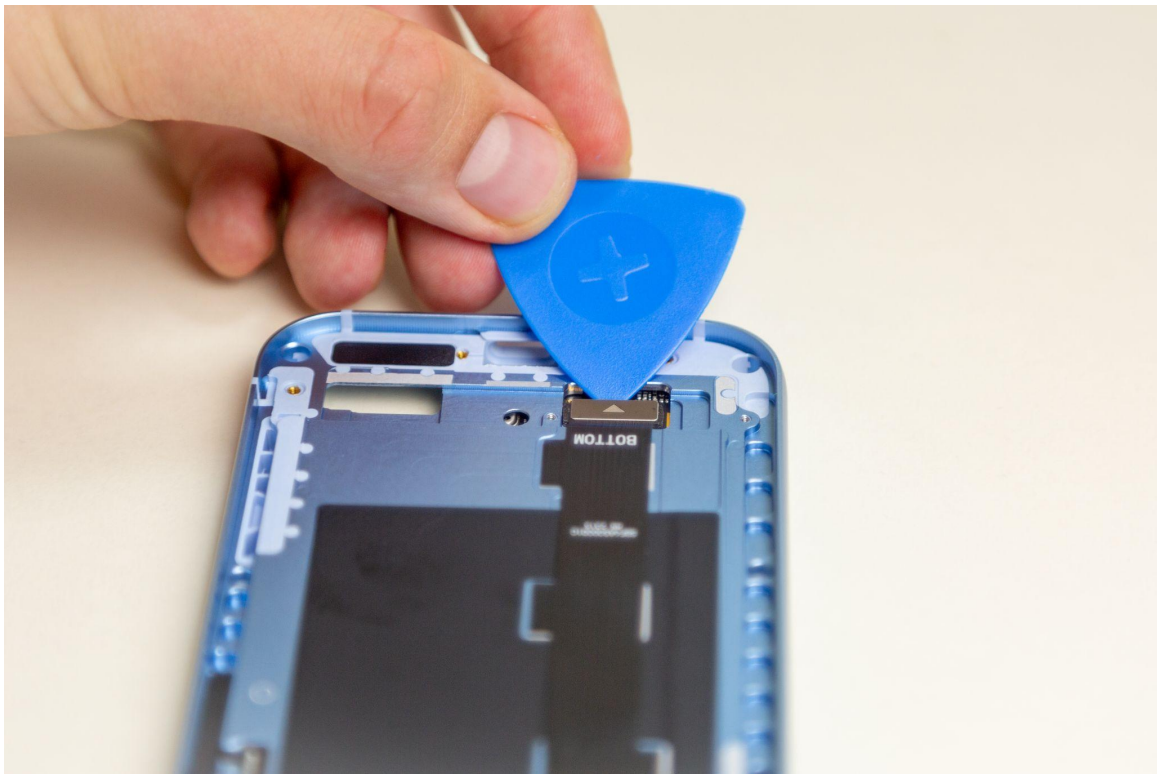
Step 7: Gently disconnect the red, black, and white RF-Cables, connected to the top PCBA and bottom PCBB, by hooking the RF-Cable connectors and then applying the force upward (vertical) to the receptacle.

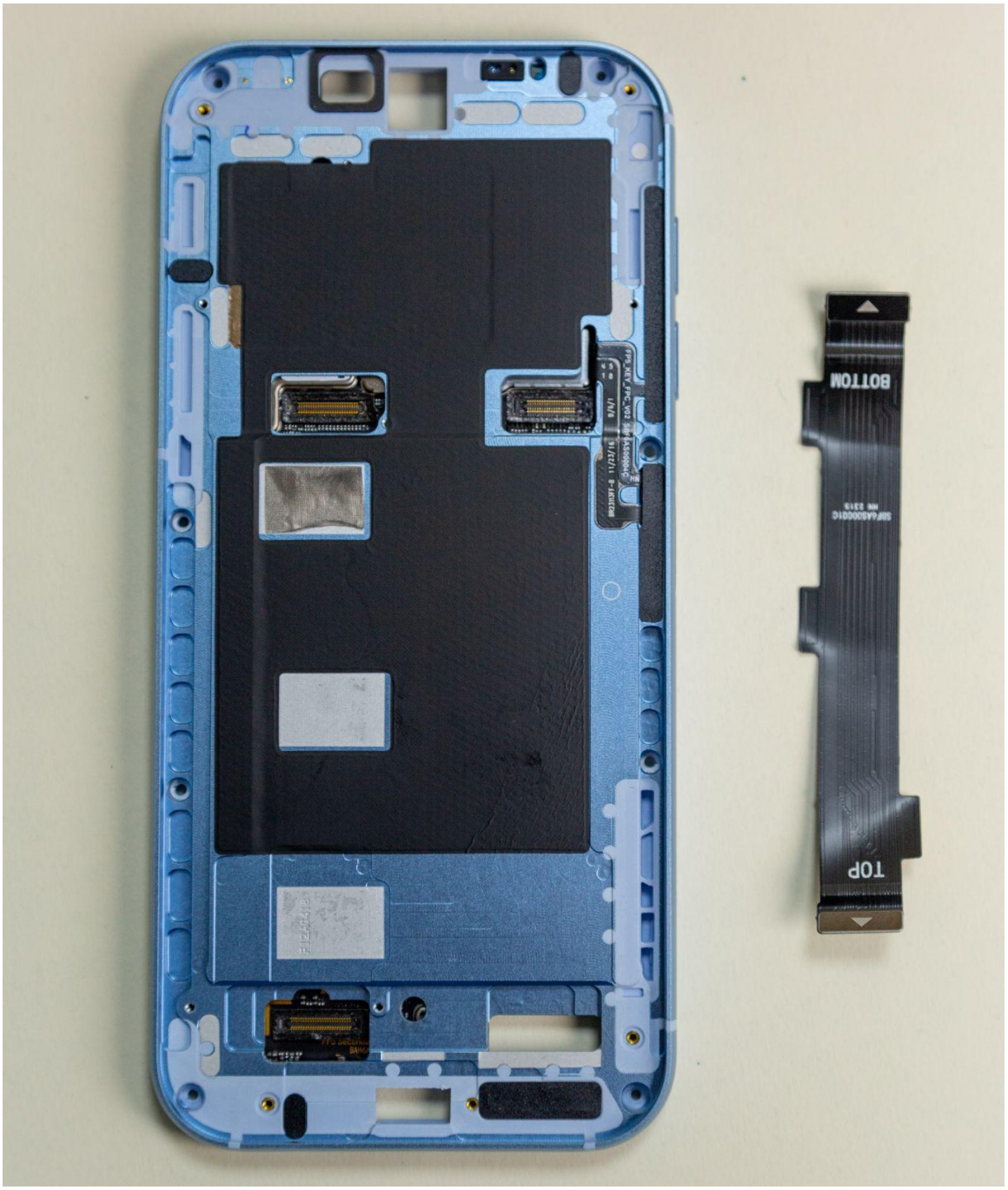




Step 8: Gently disconnect the PCB connector cable, which is located between the display and the mid-frame.

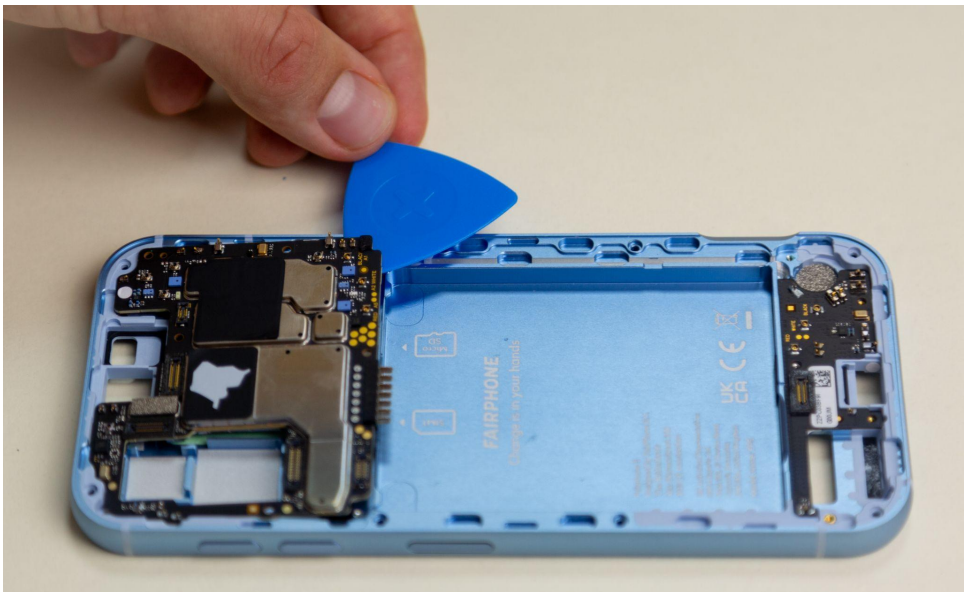





BOTTOM
TOP

Step 9: Gently push the top PCBA with your fingers through the two holes in the direction of the display.

Step 10: Gently lift the top PCBA and bottom PCBA each from the bottom right.

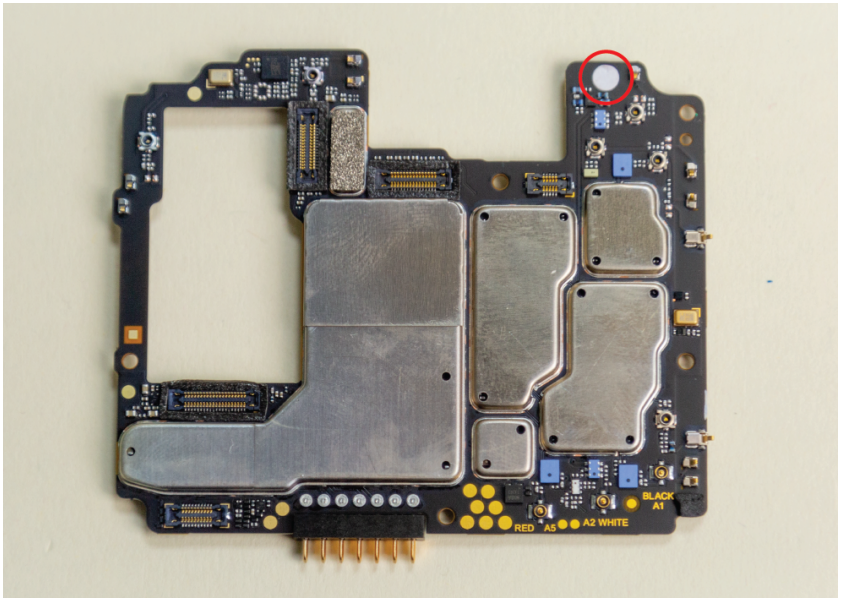


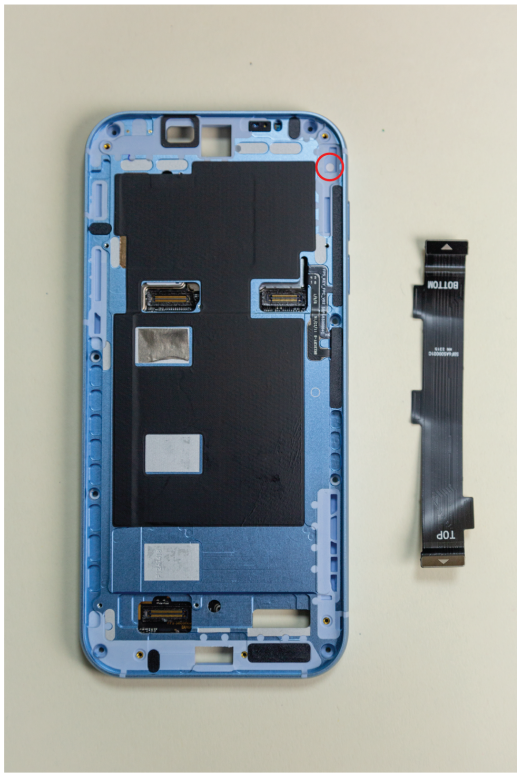
Attention: *The PCBA will include a copy of the IMEI sticker. Every time there is a PCBA or mid-frame swap, please make sure the IMEI on the PCBA matches the IMEI label on the mid-frame.*

i. Check for water ingress

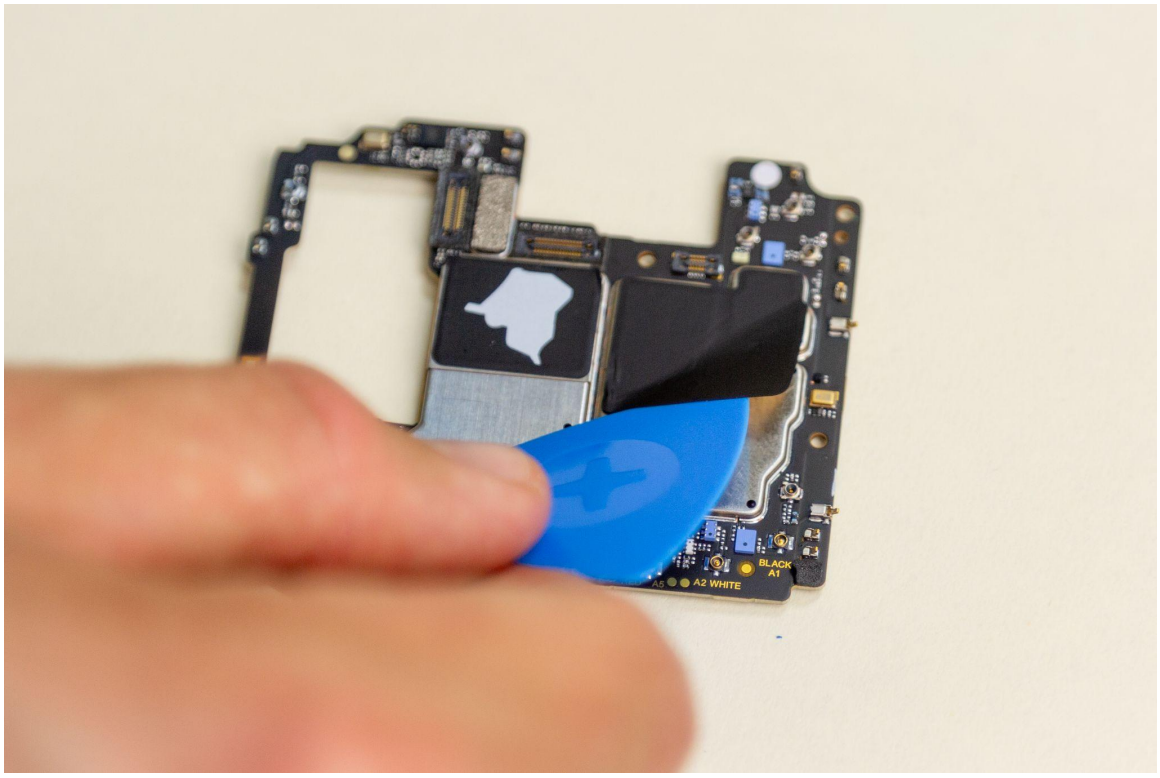
Step 1: Disassemble the device as described in steps (d) to (h)

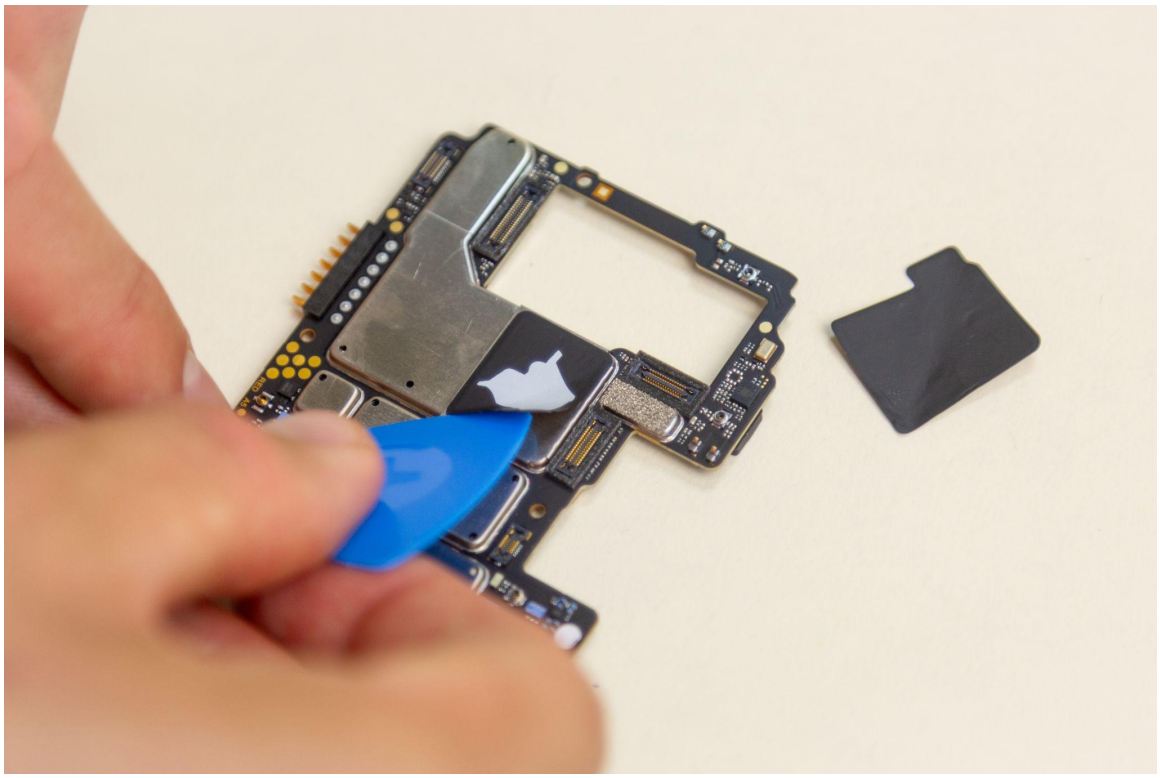
Step 2: Check the rear water marker



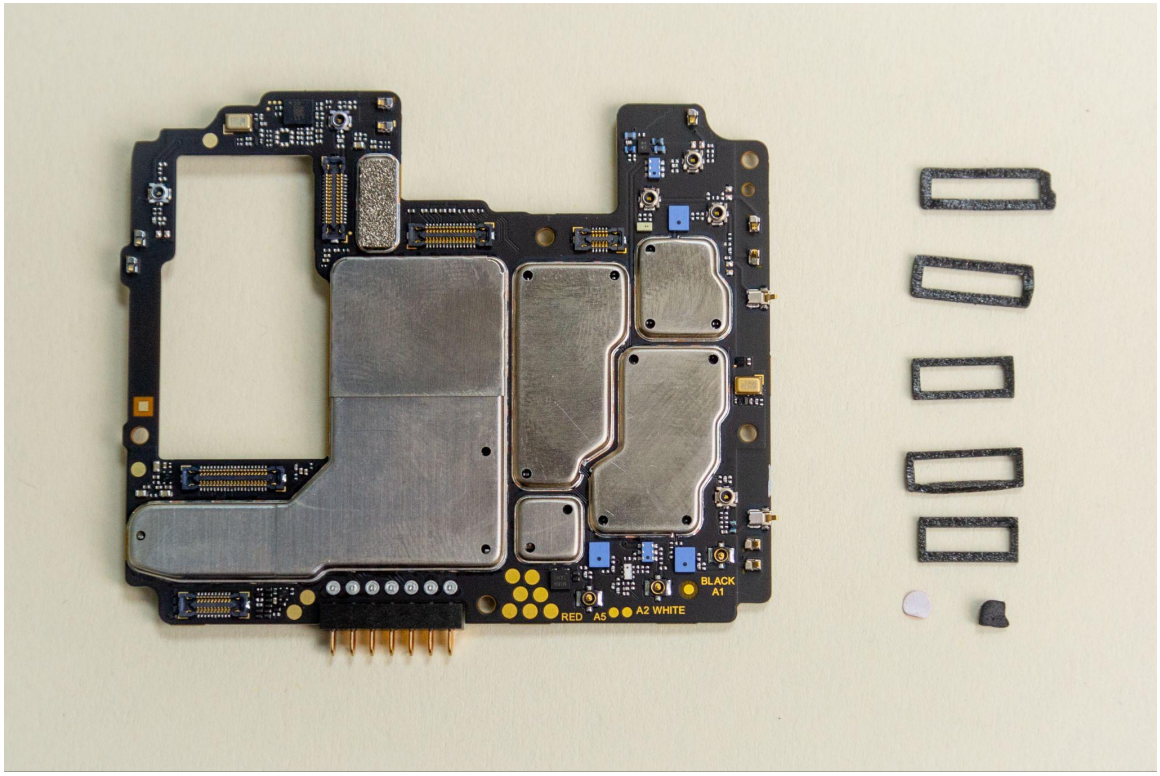


j. Remove the accessories from the main PCBA

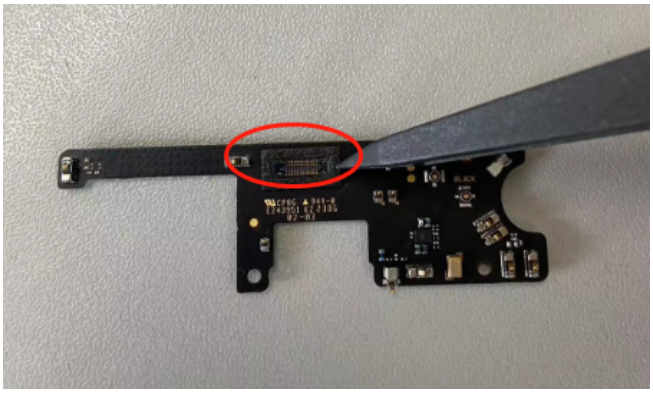


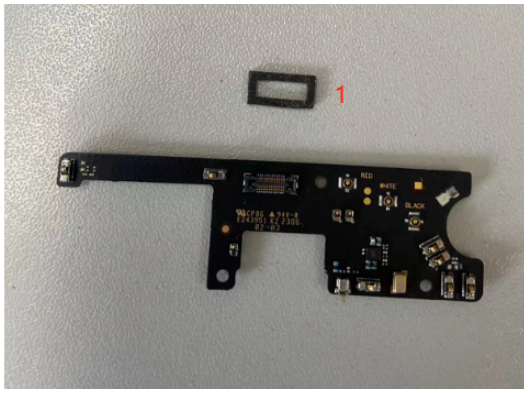


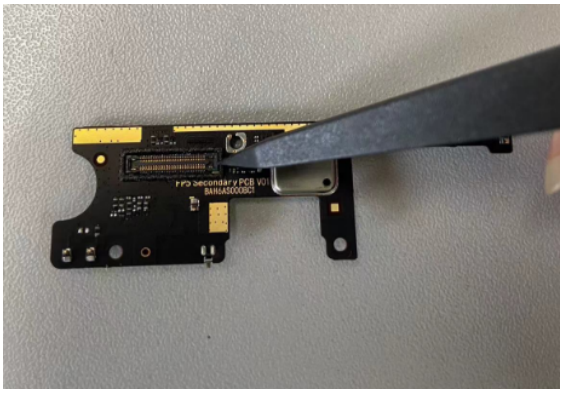
FAIRPHONE

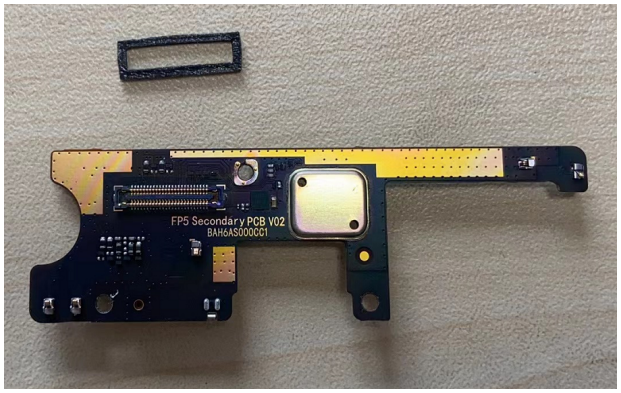


k. Remove accessories from the secondary PCBA









l. Complete disassembly

m. Additional resources

Fairphone Website (where you can find our spare parts)
Fairphone Support Page (where you can ask us questions)
Fairphone YouTube channel (with all video repair guides)

11. Material information for recyclers

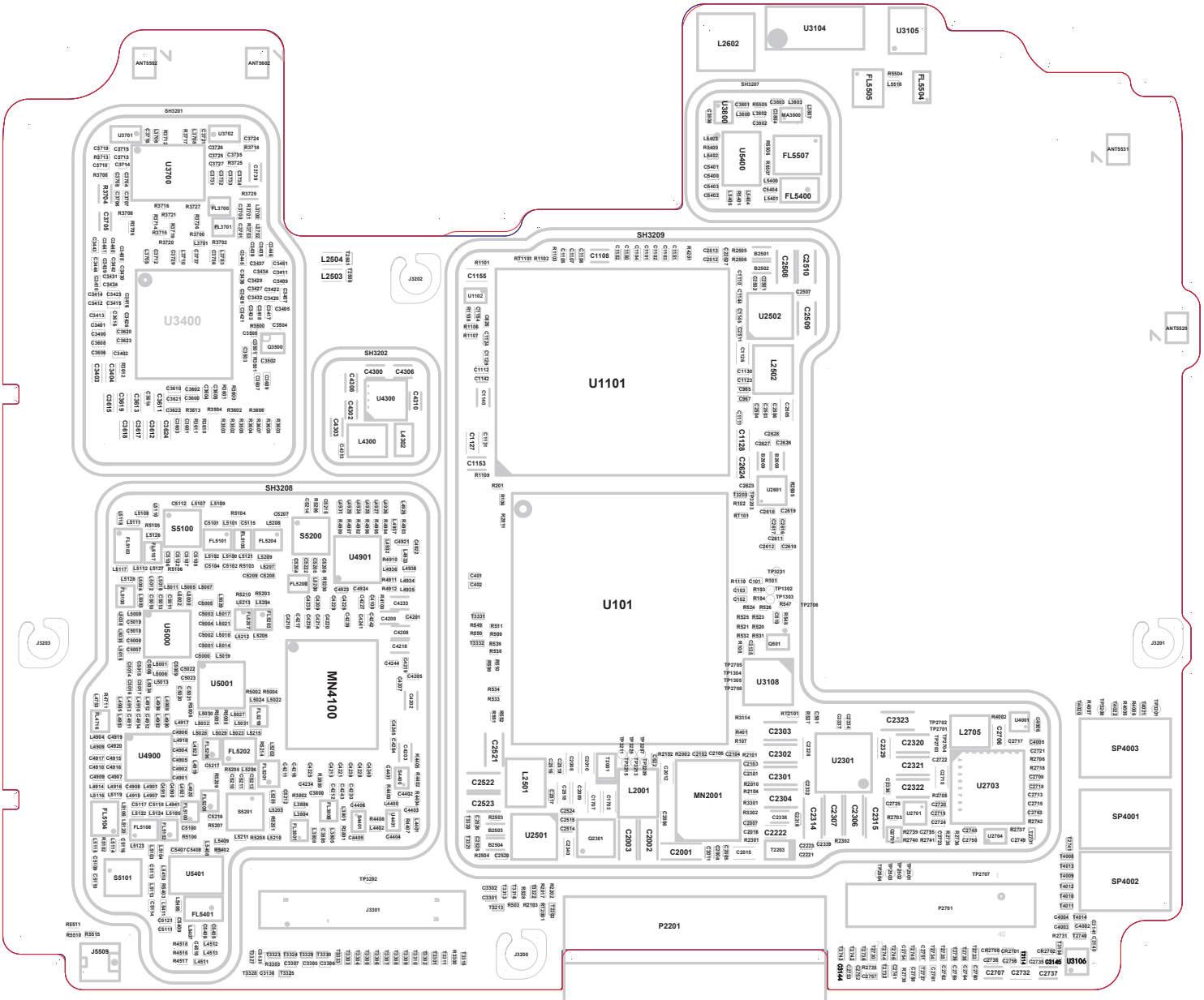
Below, you can find materials and information about the Fairphone 5. We have focused on the materials that we think are most important for recyclers and indicated where they are mostly situated. This weight information is to help recyclers estimate the value of recycling the phone. The exact weight of each material can vary due to the calculation method and the limitations of the analytical techniques.

Material	CAS no.	Total mass in FP5 (g)	Components	% of total mass in FP5
Tungsten	7440-10-0	0.75	Vibration Mechanism	99%
Tin	7440-10-0	0.87	Solder paste in PCBA	51%
			Solder paste in Battery	25%
Aluminum	7429-90-5	38.69	Mid-frame	94.40%
Rare Earth Elements	see rare earth	0.15	Speaker, Vibration Mechanism, cameras	100%
Nickel	7440-02-0	3.05	Shields Copper alloy	41.50%
			Battery cell	16.80%
			Battery steel sheet	19.50%
Zinc	7440-10-0	1.03	Shields Copper alloy	94%
Copper	7440-50-8	16.85	Shields Copper alloy	25.60%
			PCB	28.40%
			Battery	6.10%
			Copper foil	9.00%
Magnesium	7439-95-4	4.96	Display frame	91.00%
Gold	7440-57-5	0.023	Cameras, PCB, connectors, etc.	100.00%
Plastics	PC+30%GF	3.06	FP5-display-frame	100%
	PBT+30%GF	5.75	FP5-middle-frame	
	PC	5.33	FP5-top-antenna -cover	

FAIRPHONE

	PC	0.56	FP5-camera-island	
	PC	0.17	FP5-connector-cover	
	PC	0.44	FP5-rf-cable-frame	
	PC	1.94000	FP5-SPK-cover	
	PC	12.68	FP5-Back-cover	
	PC/ABS	2.32	FP5- battery frame	
Indium	7440-74-6	0.00	Display panel	76.80%
Cobalt	7440-48-4	12.32	battery	99.80%
Lithium	7439-93-2	1.47	battery	98.80%
Silver	7440-22-4	0.083	Solder paste	22%
			battery package	14%
			passives	19%
Mica	12001-26-2	0.01700	BTB connector	100%
Palladium	7440-05-03	0.00	ICs, passive	100%
Platinum	7440-06-04	0.00	ICs	100%
Cobalt	7440-48-4	12.2971	Battery	<99%
Neodymium	7440-00-8	0.10236	Camera, Speaker, Linear vibrator	100%
Tantalum	7440-25-7	0.02176	SAW filter	<99%
		0	Capacitors	0%

TOP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U3700
U3400
SH3202
U4300
L4300
L4302
L2504
L2503
SH3209
U1101
U2502
L2502
U101
U3108
U2301
U2703
SH3208
S5100
S5200
U4901
U5000
U5001
MN4100
U4900
S5201
S5101
U5401
FL5401
L2501
U2501
L2001
MN2001
L2002
L2003
U3104
U3105
L2602
FL5505
FL5504
SH3207
U3800
U5400
FL5507
FL5400
ANT5531
ANT5520
SP4003
SP4001
SP4002
P2201
P2701
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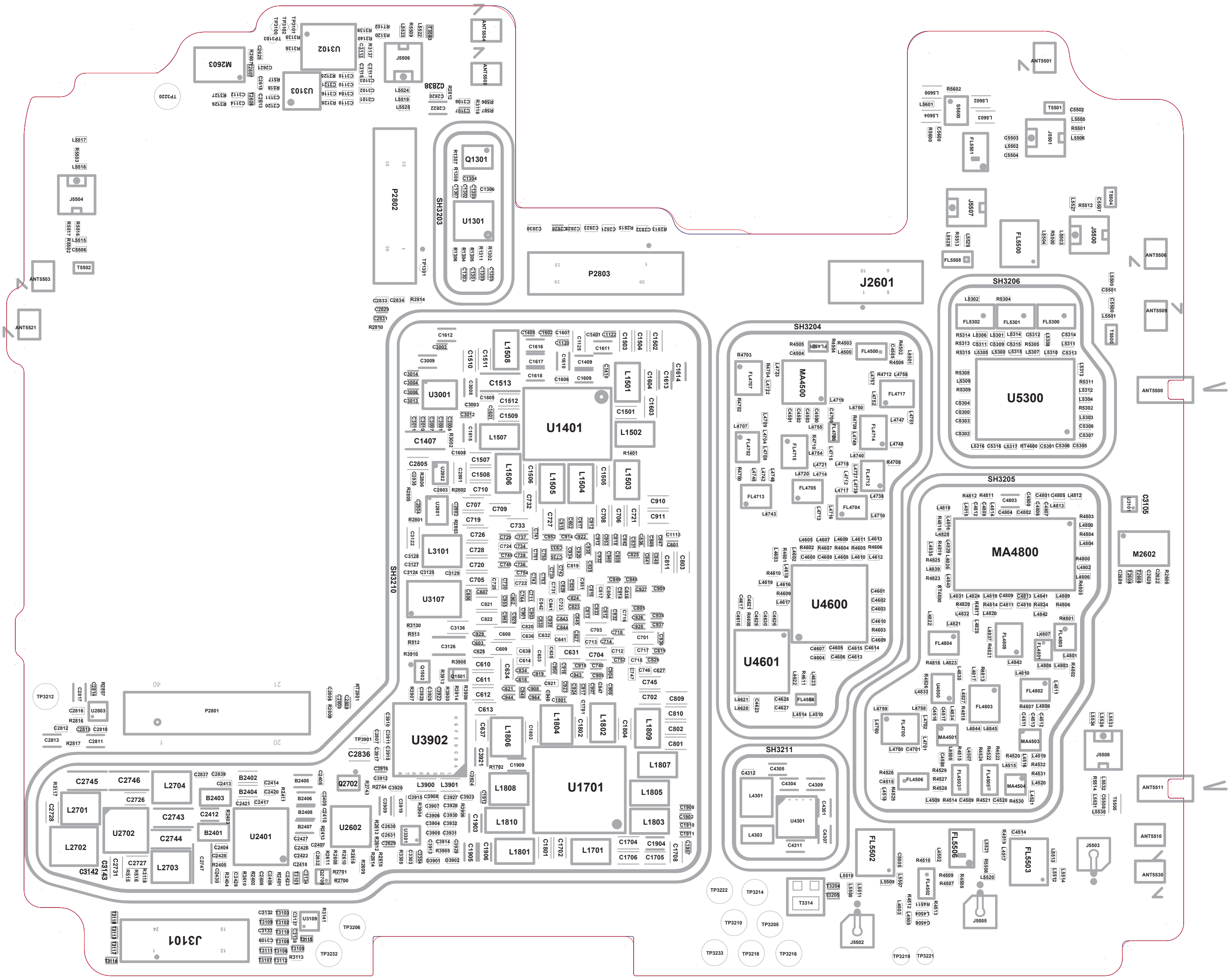
J3200
J3201
J3202
J3203
J3301
U3106

BOT



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U3103
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C2838
ANT5504
ANT5505
TP3220
J5504
ANT5503
ANT5521
T5502
P2802
SH3203
Q1301
U1301
P2803
J2601
ANT5501
S5600
FL5501
J5501
T5501
J5507
FL5500
J5500
T5504
FL5508
ANT5506
ANT5509
ANT5500
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FL5302
FL5301
FL5300
U5300
SH3204
MA4500
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FL4702
FL4715
FL4714
FL4713
FL4705
FL4712
FL4704
FL4500
U4600
U4601
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MA4800
M2602
C3105
FL4804
FL4805
FL4800
FL4801
FL4802
FL4803
U4800
FL4700
MA4501
MA4503
MA4504
FL4506
FL4503
FL4505
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ANT5530
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L4303
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SH3210
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U1401
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C1407
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L1501
L1502
L1503
L1504
L1505
L1506
L1507
L3101
U3107
U3902
U1701
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L3900
L3901
C2836
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U2401
B2401
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B2403
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C3143
P2801
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TP3212
J3101
U3109
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TP3214
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TP3216
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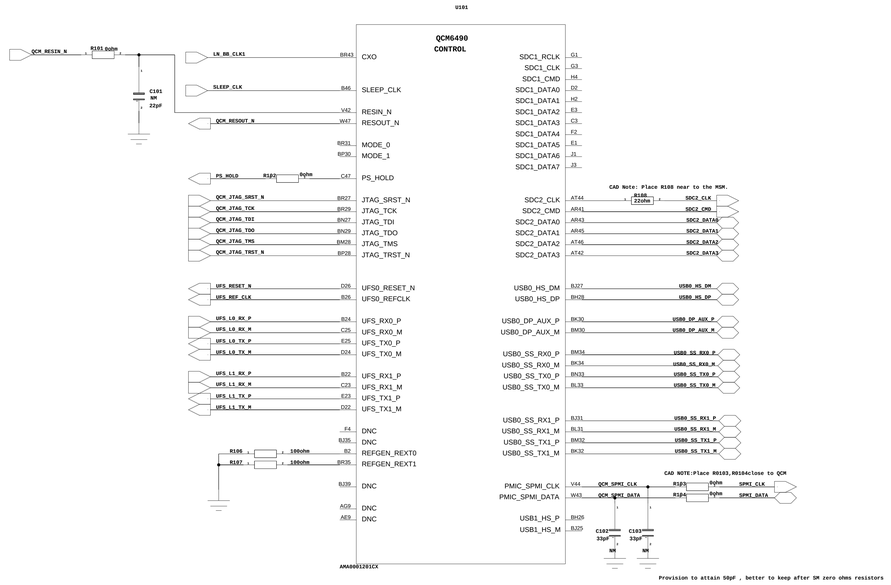
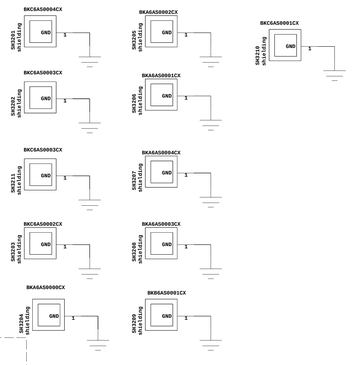
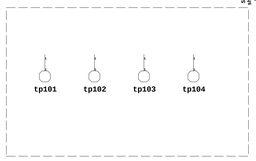
TP3221

QCM6490 CONTROL

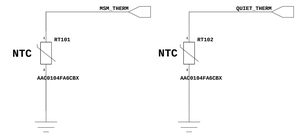




MARK



Kodiak - Thermistors

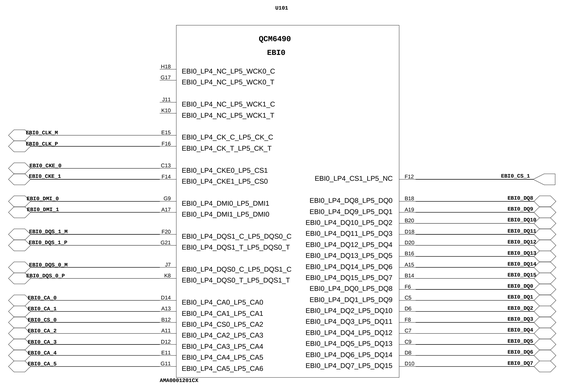


RT101:Place Near MSM

RT102:Place away from PMIC and heat-sources

20230216

QCM6490 EBI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J11
K10
E15
F16
C13
F14
G9
A17
F20
G21
J7
K8
D14
A13
B12
A11
D12
E11
G11
EBI0_CLK_M
EBI0_CLK_P
EBI0_CKE_0
EBI0_CKE_1
EBI0_DMI_0
EBI0_DMI_1
EBI0_DQS_1_M
EBI0_DQS_1_P
EBI0_DQS_0_M
EBI0_DQS_0_P
EBI0_CA_0
EBI0_CA_1
EBI0_CS_0
EBI0_CA_2
EBI0_CA_3
EBI0_CA_4
EBI0_CA_5
EBI0_LP4_NC_LP5_WCK0_C
EBI0_LP4_NC_LP5_WCK0_T
EBI0_LP4_NC_LP5_WCK1_C
EBI0_LP4_NC_LP5_WCK1_T
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EBI0_LP4_DMI1_LP5_DMI0
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EBI0_LP4_DQS1_T_LP5_DQS0_T
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F12
EBI0_CS_1
B18
A19
B20
D18
D20
B16
A15
B14
F6
C5
D6
F8
C7
C9
D8
D10
EBI0_DQ8
EBI0_DQ9
EBI0_DQ10
EBI0_DQ11
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EBI0_DQ13
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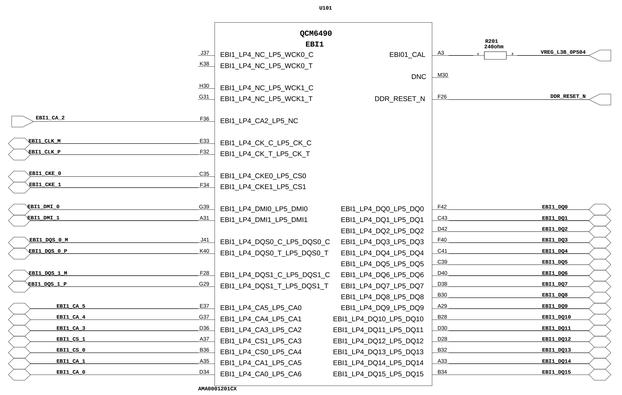
AMA0091201CX


U101
QCM6490
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J37
K36
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E33
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G29
E37
G37
D36
A37
B35
D34
EBI1_CA_2
EBI1_CLK_M
EBI1_CLK_P
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EBI1_DMI_0
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EBI1_CA_3
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A3
M30
F26
R201
240ohm
VREG_L3B_0P504
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EBI1_LP4_DQ14_LP5_DQ14
EBI1_LP4_DQ15_LP5_DQ15
F42
C43
D42
F40
C41
C39
D40
D38
B30
A29
B28
D30
D28
B32
A33
B34
EBI1_DQ0
EBI1_DQ1
EBI1_DQ2
EBI1_DQ3
EBI1_DQ4
EBI1_DQ5
EBI1_DQ6
EBI1_DQ7
EBI1_DQ8
EBI1_DQ9
EBI1_DQ10
EBI1_DQ11
EBI1_DQ12
EBI1_DQ13
EBI1_DQ14
EBI1_DQ15
AMA0091201CX

SM7325 DSI/CSI

50M OIS CAMERA-C-PHY

C_PHY ROUTE DIFFER 45OHM+/-5OHM

50M UW CAMERA

D_PHY ROUTE DIFFER 90OHM+/-10%

LCD

FRONT CAMERA

D_PHY ROUTE DIFFER 90OHM+/-10%

U101

QCM6490
CSI_DSI

		AU7	CSI0_NC_CLK_P	CSI3_NC_CLK_P	AB2	MIPI_CSI3_CLK_P
CSI0_A0_CLK_M		AU5	CSI0_A0_CLK_M	CSI3_A0_CLK_M	AC3	MIPI_CSI3_CLK_M
CSI0_B0_L0_P		AV6	CSI0_B0_LN0_P	CSI3_B0_LN0_P	AC1	MIPI_CSI3_L0_P
CSI0_C0_L0_M		AV4	CSI0_C0_LN0_M	CSI3_C0_LN0_M	AD2	MIPI_CSI3_L0_M
CSI0_A1_L1_P		AU1	CSI0_A1_LN1_P	CSI3_A1_LN1_P	AE1	MIPI_CSI3_L1_P
CSI0_B1_L1_M		AU3	CSI0_B1_LN1_M	CSI3_B1_LN1_M	AE3	MIPI_CSI3_L1_M
CSI0_C1_L2_P		AW1	CSI0_C1_LN2_P	CSI3_C1_LN2_P	AF2	MIPI_CSI3_L2_P
CSI0_A2_L2_M		AW3	CSI0_A2_LN2_M	CSI3_A2_LN2_M	AF4	MIPI_CSI3_L2_M
CSI0_B2_L3_P		AW5	CSI0_B2_LN3_P	CSI3_B2_LN3_P	AG3	MIPI_CSI3_L3_P
CSI0_C2_L3_M		AW7	CSI0_C2_LN3_M	CSI3_C2_LN3_M	AG5	MIPI_CSI3_L3_M
MIPI_CSI1_CLK_P		AN7	CSI1_NC_CLK_P	CSI4_NC_CLK_P	AC7	
MIPI_CSI1_CLK_M		AN5	CSI1_A0_CLK_M	CSI4_A0_CLK_M	AC5	
MIPI_CSI1_L0_P		AP6	CSI1_B0_LN0_P	CSI4_B0_LN0_P	AB8	
MIPI_CSI1_L0_M		AP4	CSI1_C0_LN0_M	CSI4_C0_LN0_M	AB6	
MIPI_CSI1_L1_P		AN1	CSI1_A1_LN1_P	CSI4_A1_LN1_P	AA7	
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MIPI_CSI1_L3_P		AR5	CSI1_B2_LN3_P	CSI4_B2_LN3_P	W5	
MIPI_CSI1_L3_M		AR7	CSI1_C2_LN3_M	CSI4_C2_LN3_M	W7	
		AJ7	CSI2_NC_CLK_P			
		AJ5	CSI2_A0_CLK_M			
		AK6	CSI2_B0_LN0_P			
		AK4	CSI2_C0_LN0_M			
		AJ1	CSI2_A1_LN1_P			
		AJ3	CSI2_B1_LN1_M			
		AL1	CSI2_C1_LN2_P			
		AL3	CSI2_A2_LN2_M			
		AL5	CSI2_B2_LN3_P			
		AL7	CSI2_C2_LN3_M			
MIPI_DSI0_CLK_P		AC43	DSI0_B1_CLK_P			
MIPI_DSI0_CLK_M		AC45	DSI0_C1_CLK_M			
MIPI_DSI0_L0_P		AG43	DSI0_A0_LN0_P			
MIPI_DSI0_L0_M		AG45	DSI0_B0_LN0_M			
MIPI_DSI0_L1_P		AE43	DSI0_C0_LN1_P			
MIPI_DSI0_L1_M		AD44	DSI0_A1_LN1_M			
MIPI_DSI0_L2_P		AF44	DSI0_A2_LN2_P			
MIPI_DSI0_L2_M		AF46	DSI0_B2_LN2_M			
MIPI_DSI0_L3_P		AE45	DSI0_C2_LN3_P			
MIPI_DSI0_L3_M		AD46	DSI0_NC_LN3_M			

AMA000129ICX

U101

QCM6490

EDP0_AUX_M	AN45
EDP0_AUX_P	AN43
EDP0_TX0_M	AM46
EDP0_TX0_P	AM44
EDP0_TX1_M	AL47
EDP0_TX1_P	AL45
EDP0_TX2_M	AK46
EDP0_TX2_P	AK44
EDP0_TX3_M	AJ45
EDP0_TX3_P	AJ43

AMA000129ICX

U101

QCM6490
PCIE

PCIE0_REFCLK_P
PCIE0_REFCLK_M
PCIE0_RX_P
PCIE0_RX_M
PCIE0_TX_AC_P
PCIE0_TX_AC_M
C401 - 220nF
C402 - 220nF

R3 PCIE0_REFCLK_P
T2 PCIE0_REFCLK_M
U1 PCIE0_RX_P
U3 PCIE0_RX_M
V4 PCIE0_TX_P
V2 PCIE0_TX_M

BM36 PCIE1_REFCLK_P
BP36 PCIE1_REFCLK_M
BP40 PCIE1_RX0_P
BM40 PCIE1_RX0_M
BR39 PCIE1_TX0_P
BN39 PCIE1_TX0_M
BL37 PCIE1_RX1_P
BN37 PCIE1_RX1_M
BP38 PCIE1_TX1_P
BM38 PCIE1_TX1_M

AMA0001201CX

U101

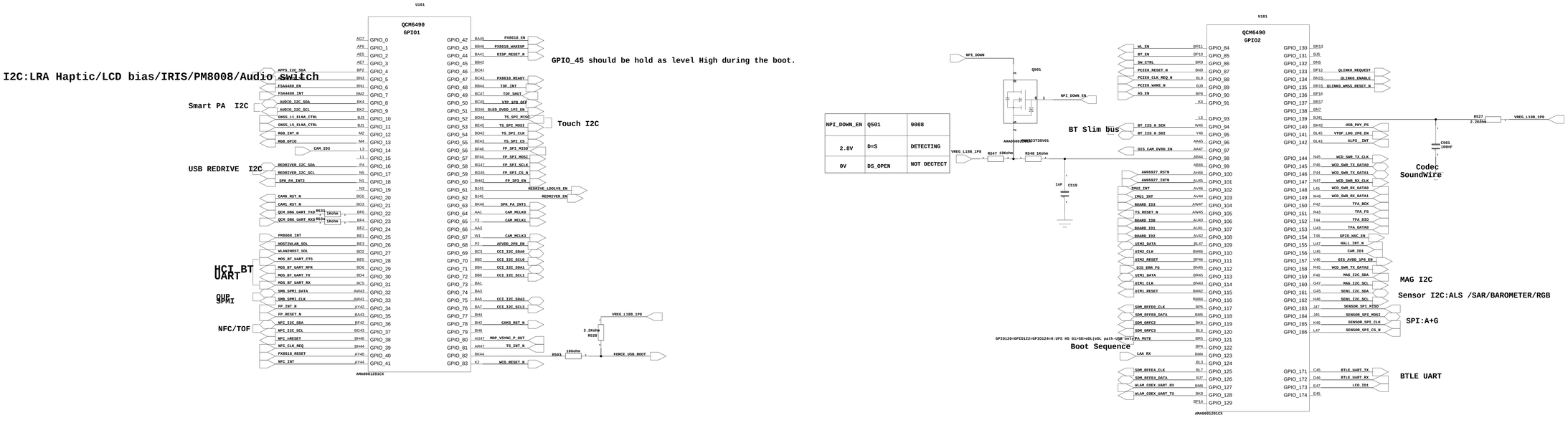
QCM6490
WLAN_QLINK

R402 3.01Kohm BP42
QREFS_CXO_REXT

QLINK0_CLK_P BM12 QLINK0_CLK_P
QLINK0_CLK_M BK12 QLINK0_CLK_M
QLINK0_L0_P BL13 QLINK0_L0_P
QLINK0_L0_M BJ13 QLINK0_L0_M
QLINK0_L1_P BK10 QLINK0_L1_P
QLINK0_L1_M BH10 QLINK0_L1_M
QLINK0_L2_P BK14 QLINK0_L2_P
QLINK0_L2_M BH14 QLINK0_L2_M
QLINK0_L4_P BJ11 QLINK0_L4_P
QLINK0_L4_M BL11 QLINK0_L4_M
QLINK0_L3_P BJ15 QLINK0_L3_P
QLINK0_L3_M BL15 QLINK0_L3_M

QLINK1_CLK_P BP20
QLINK1_CLK_M BM20
QLINK1_L0_P BL21
QLINK1_L0_M BN21
QLINK1_L1_P BN19
QLINK1_L1_M BL19
QLINK1_L2_P BM18
QLINK1_L2_M BK18
QLINK1_L3_P BM24
QLINK1_L3_M BP24
QLINK1_L4_P BN25
QLINK1_L4_M BL25
QLINK1_L7_P BM22
QLINK1_L7_M BP22
QLINK1_L8_P BP23
QLINK1_L8_M BN23

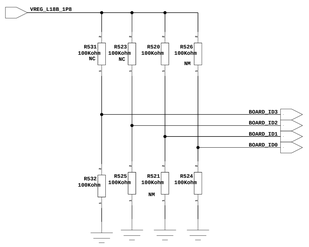
AMA0001201CX

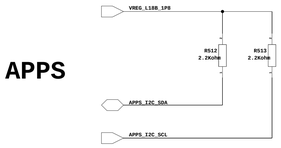


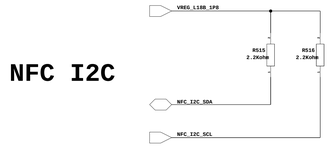
NPI_DOWN_EN	Q501	9008
2.8V	D=S	DETECTING
0V	DS_OPEN	NOT DECTECT

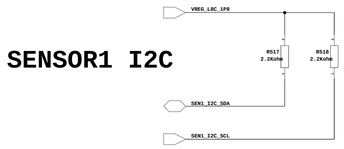
I2C PULL- UP RESISTORS

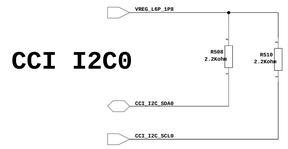
Board ID3	Board ID2	Board ID1	Board ID0	Options
0	0	0	0	V00
0	0	0	1	V01
0	0	1	0	V02
0	1	0	0	V03
0	0	1	1	
0	1	0	1	
0	1	1	0	
0	1	1	1	
0	0	0	0	

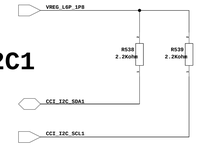


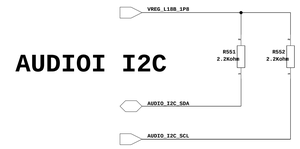


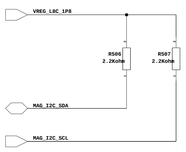


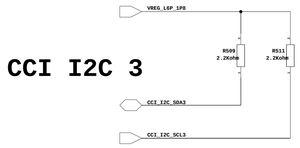


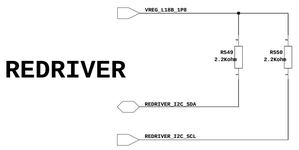


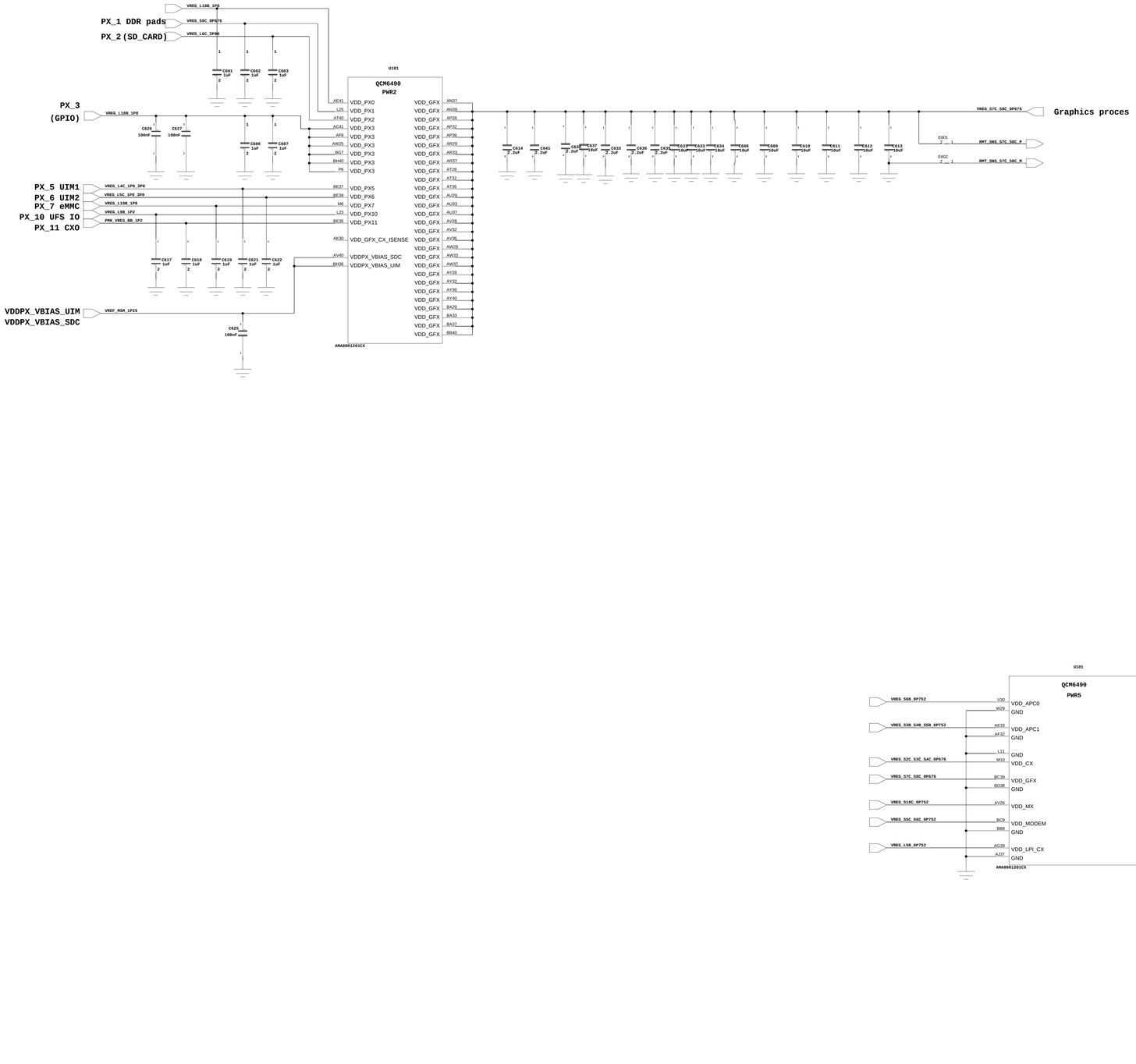











U101
QCM6490
PWR2
PX_1 DDR pads
PX_2 (SD_CARD)
PX_3
(GPIO)
PX_5 UIM1
PX_6 UIM2
PX_7 eMMC
PX_10 UFS IO
PX_11 CXO
VDDPX_VBIAS_UIM
VDDPX_VBIAS_SDC
VREG_L18B_1P8
VREG_S5C_0P676
VREG_L6C_2P96
VREG_L4C_1P8_3P0
VREG_L5C_1P8_3P0
VREG_L1SB_1P8
VREG_L9B_1P2
PMK_VREG_BB_1P2
VREF_MSM_1P25
C601 1uF
C602 1uF
C603 1uF
C626 100nF
C627 100nF
C606 1uF
C607 1uF
C617 1uF
C618 1uF
C619 1uF
C621 1uF
C622 1uF
C625 100nF
AE41 VDD_PX0
L25 VDD_PX1
AT45 VDD_PX2
AC41 VDD_PX3
AF8 VDD_PX3
AW25 VDD_PX3
BG7 VDD_PX3
BH45 VDD_PX3
P6 VDD_PX3
BE37 VDD_PX5
BE39 VDD_PX6
M6 VDD_PX7
L23 VDD_PX10
BE35 VDD_PX11
AK30 VDD_GFX_CX_ISENSE
AV40 VDDPX_VBIAS_SDC
BH36 VDDPX_VBIAS_UIM
AMA0001201CX
AN37 VDD_GFX
AN39 VDD_GFX
AP28 VDD_GFX
AP32 VDD_GFX
AP36 VDD_GFX
AR29 VDD_GFX
AR33 VDD_GFX
AR37 VDD_GFX
AT28 VDD_GFX
AT32 VDD_GFX
AT36 VDD_GFX
AU29 VDD_GFX
AU33 VDD_GFX
AU37 VDD_GFX
AV28 VDD_GFX
AV32 VDD_GFX
AV36 VDD_GFX
AW29 VDD_GFX
AW33 VDD_GFX
AW37 VDD_GFX
AY28 VDD_GFX
AY32 VDD_GFX
AY36 VDD_GFX
AY40 VDD_GFX
BA29 VDD_GFX
BA33 VDD_GFX
BA37 VDD_GFX
BB40 VDD_GFX
C614 2.2uF
C641 2.2uF
C635 2.2uF
C637 10uF
C632 2.2uF
C636 2.2uF
C631 2.2uF
C633 10uF
C634 10uF
C608 10uF
C609 10uF
C610 10uF
C611 10uF
C612 10uF
C613 10uF
VREG_S7C_S8C_0P676
RMT_SNS_S7C_S8C_P
RMT_SNS_S7C_S8C_M
E601
E602
Graphics proces

U101
QCM6490
PWR5
VREG_S6B_0P752
VREG_S3B_S4B_S5B_0P752
VREG_S2C_S3C_S4C_0P676
VREG_S7C_S8C_0P676
VREG_S10C_0P752
VREG_S5C_S6C_0P752
VREG_L5B_0P752
V30 VDD_APC0
W29 GND
AF33 VDD_APC1
AF32 GND
L11 GND
M10 VDD_CX
BC39 VDD_GFX
BD38 GND
AV26 VDD_MX
BC9 VDD_MODEM
BB8 GND
AG39 VDD_LPI_CX
AJ37 GND
AMA0001201CX

U101

QCM6490

PWR1

MODEM

APC1

APC0

VREG_S5C_S6C_BP752

RMT_SNS_S5C_S6C_P

RMT_SNS_S5C_S6C_M

E701

E702

C701 10uF
C702 10uF
C703 10uF
C704 10uF
C745 10uF

C752 1uF
C747 2.2uF
C748 2.2uF
C712 2.2uF
C713 2.2uF
C714 1uF
C715 2.2uF
C716 2.2uF
C717 2.2uF
C740 1uF
C718 1uF

AH14 VDD_MODEM
AJ11 VDD_MODEM
AJ13 VDD_MODEM
AK14 VDD_MODEM
AL13 VDD_MODEM
AM14 VDD_MODEM
AN13 VDD_MODEM
AN17 VDD_MODEM
AN19 VDD_MODEM
AP10 VDD_MODEM
AP14 VDD_MODEM
AP18 VDD_MODEM
AR9 VDD_MODEM
AR13 VDD_MODEM
AR17 VDD_MODEM
AR21 VDD_MODEM
AT10 VDD_MODEM
AT14 VDD_MODEM
AT18 VDD_MODEM
AT22 VDD_MODEM
AU13 VDD_MODEM
AU17 VDD_MODEM
AU21 VDD_MODEM
AV10 VDD_MODEM
AV14 VDD_MODEM
AV18 VDD_MODEM
AV22 VDD_MODEM
AW13 VDD_MODEM
AW17 VDD_MODEM
AW21 VDD_MODEM
AY10 VDD_MODEM
AY14 VDD_MODEM
AY18 VDD_MODEM
AY22 VDD_MODEM
BA13 VDD_MODEM
BA17 VDD_MODEM
BA21 VDD_MODEM
BB10 VDD_MODEM
BB14 VDD_MODEM
BB18 VDD_MODEM
BB22 VDD_MODEM
BC17 VDD_MODEM
BD18 VDD_MODEM
BE17 VDD_MODEM
BF18 VDD_MODEM

AMA0012201CX

VDD_APC1 AA29
VDD_APC1 AA31
VDD_APC1 AA33
VDD_APC1 AA35
VDD_APC1 AA37
VDD_APC1 AA39
VDD_APC1 AA41
VDD_APC1 AA43
VDD_APC1 AD30
VDD_APC1 AD32
VDD_APC1 AD34
VDD_APC1 AD36
VDD_APC1 AD38
VDD_APC1 AE29
VDD_APC1 AE31
VDD_APC1 AE35
VDD_APC1 AE37
VDD_APC1 M38
VDD_APC1 M42
VDD_APC1 N39
VDD_APC1 N41
VDD_APC1 N43
VDD_APC1 P40
VDD_APC1 R39
VDD_APC1 T40
VDD_APC1 U39
VDD_APC1 V40
VDD_APC1 W39
VDD_APC1 Y28
VDD_APC1 Y30
VDD_APC1 Y32
VDD_APC1 Y34
VDD_APC1 Y36
VDD_APC1 Y40
VDD_APC1 Y42

VDD_APC0 M36
VDD_APC0 N35
VDD_APC0 P36
VDD_APC0 R35
VDD_APC0 T36
VDD_APC0 U29
VDD_APC0 U31
VDD_APC0 U33
VDD_APC0 U35
VDD_APC0 V32
VDD_APC0 V34
VDD_APC0 V36

C705 10uF
C706 10uF
C707 10uF
C708 10uF
C709 10uF
C710 10uF
C711 1uF

C719 10uF
C720 10uF
C721 10uF
C722 2.2uF
C723 2.2uF
C724 2.2uF
C725 2.2uF

C726 10uF
C727 10uF
C728 10uF
C729 1uF
C730 1uF
C731 2.2uF
C743 1uF
C744 1uF
C748 1uF
C749 1uF
C753 1uF
C754 1uF

C750 1uF
C751 1uF
C732 10uF
C733 10uF

C734 1uF
C735 1uF
C736 1uF
C737 1uF
C738 1uF
C739 1uF
C741 1uF
C742 1uF

VREG_S3B_S4B_S5B_BP752

E703 RMT_SNS_S3B_S4B_S5B_P

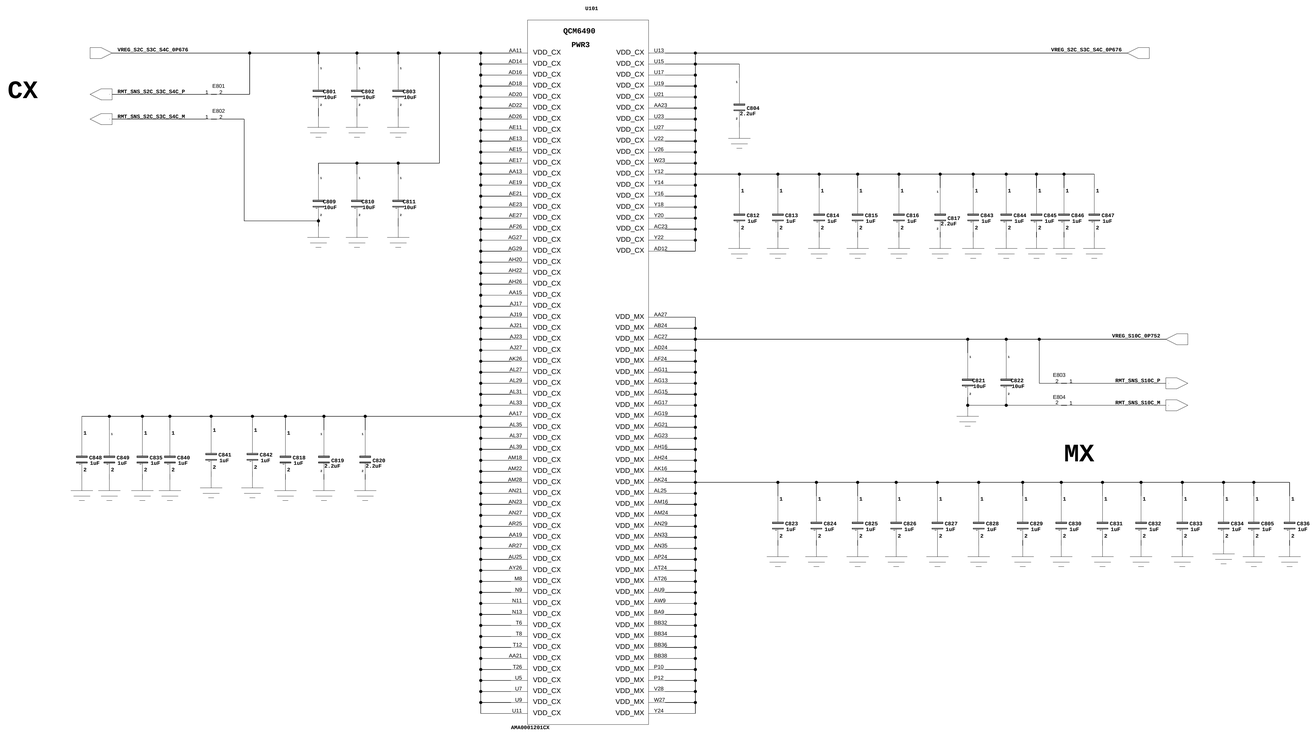
E704 RMT_SNS_S3B_S4B_S5B_M

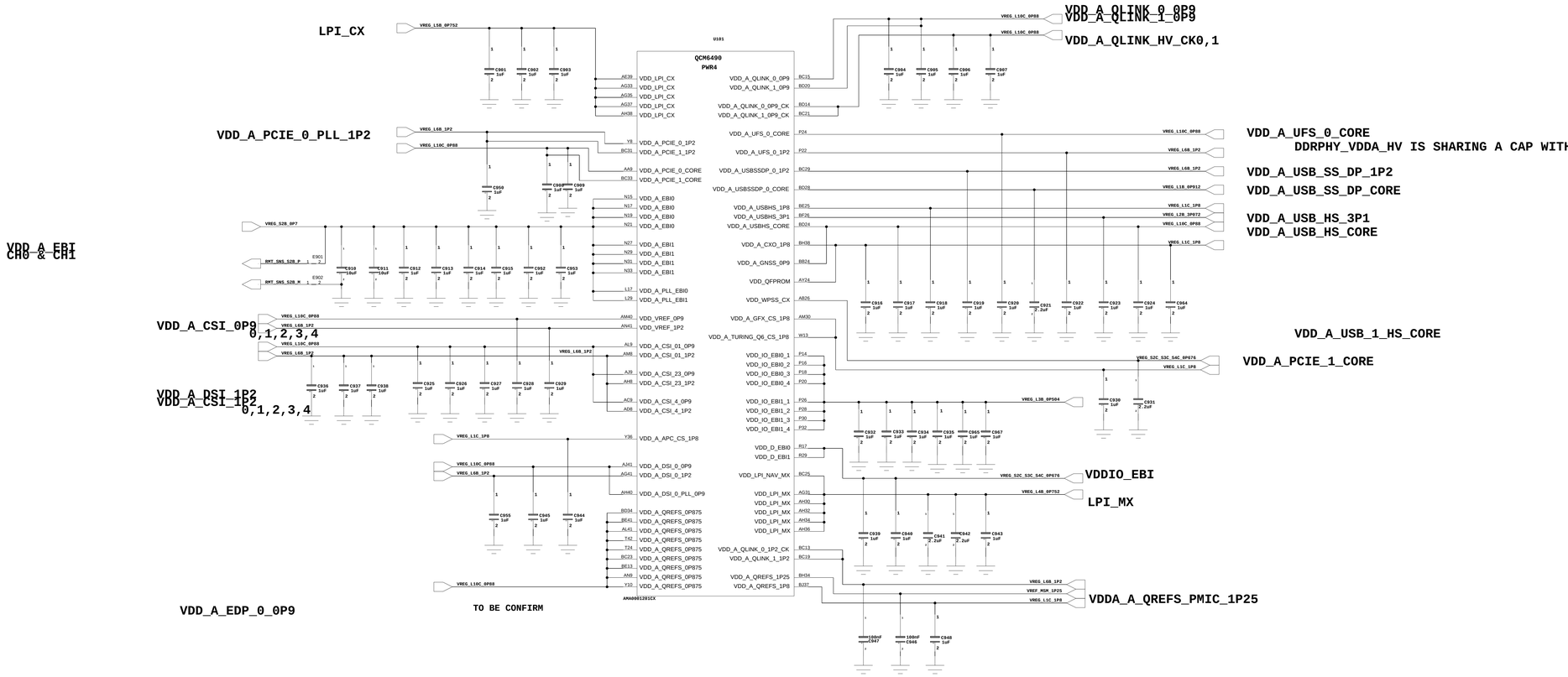
GND

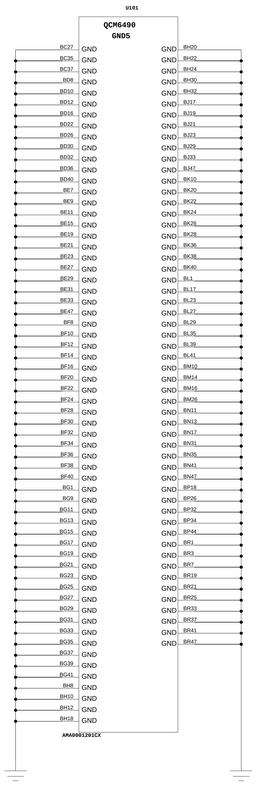
VREG_S6B_6P752

E705 RMT_SNS_S6B_P

E706 RMT_SNS_S6B_M


CX
MX
U101
QCM6490
PWR3
VREG_S2C_S3C_S4C_0P676
RMT_SNS_S2C_S3C_S4C_P
RMT_SNS_S2C_S3C_S4C_M
E801
E802
C801 10uF
C802 10uF
C803 10uF
C809 10uF
C810 10uF
C811 10uF
C804 2.2uF
C812 1uF
C813 1uF
C814 1uF
C815 1uF
C816 1uF
C817 2.2uF
C843 1uF
C844 1uF
C845 1uF
C846 1uF
C847 1uF
C848 1uF
C849 1uF
C835 1uF
C840 1uF
C841 1uF
C842 1uF
C818 1uF
C819 2.2uF
C820 2.2uF
VREG_S10C_0P752
E803
E804
RMT_SNS_S10C_P
RMT_SNS_S10C_M
C821 10uF
C822 10uF
C823 1uF
C824 1uF
C825 1uF
C826 1uF
C827 1uF
C828 1uF
C829 1uF
C830 1uF
C831 1uF
C832 1uF
C833 1uF
C834 1uF
C805 1uF
C836 1uF
VDD_CX
VDD_MX
AMA0012801CX


LPI_CX
VDD_A_PCIE_0_PLL_1P2
VDD_A_EBI
CH0 & CH1
VDD_A_CSI_0P9
0,1,2,3,4
VDD_A_DSI_1P2
VDD_A_CSI_1P2
0,1,2,3,4
VDD_A_EDP_0_0P9
TO BE CONFIRM
U101
QCM6490
PWR4
VDD_LPI_CX
VDD_A_PCIE_0_1P2
VDD_A_PCIE_1_1P2
VDD_A_PCIE_0_CORE
VDD_A_PCIE_1_CORE
VDD_A_EBI0
VDD_A_EBI1
VDD_A_PLL_EBI0
VDD_A_PLL_EBI1
VDD_VREF_0P9
VDD_VREF_1P2
VDD_A_CSI_01_0P9
VDD_A_CSI_01_1P2
VDD_A_CSI_23_0P9
VDD_A_CSI_23_1P2
VDD_A_CSI_4_0P9
VDD_A_CSI_4_1P2
VDD_A_APC_CS_1P8
VDD_A_DSI_0P9
VDD_A_DSI_1P2
VDD_A_DSI_0_PLL_0P9
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QREFS_0P875
VDD_A_QLINK_0_0P9
VDD_A_QLINK_1_0P9
VDD_A_QLINK_0_0P9_CK
VDD_A_QLINK_1_0P9_CK
VDD_A_UFS_0_CORE
VDD_A_UFS_0_1P2
VDD_A_USBSSDP_0_1P2
VDD_A_USBSSDP_0_CORE
VDD_A_USBHS_1P8
VDD_A_USBHS_3P1
VDD_A_USBHS_CORE
VDD_A_CXO_1P8
VDD_A_GNSS_0P9
VDD_QFPROM
VDD_WPSS_CX
VDD_A_GFX_CS_1P8
VDD_A_TURING_Q6_CS_1P8
VDD_IO_EBI0_1
VDD_IO_EBI0_2
VDD_IO_EBI0_3
VDD_IO_EBI0_4
VDD_IO_EBI1_1
VDD_IO_EBI1_2
VDD_IO_EBI1_3
VDD_IO_EBI1_4
VDD_D_EBI0
VDD_D_EBI1
VDD_LPI_NAV_MX
VDD_LPI_MX
VDD_LPI_MX
VDD_LPI_MX
VDD_LPI_MX
VDD_LPI_MX
VDD_A_QLINK_0_1P2_CK
VDD_A_QLINK_1_1P2
VDD_A_QREFS_1P25
VDD_A_QREFS_1P8
VREG_S2B_0P7
RMT_SNS_S2B_P
RMT_SNS_S2B_M
E901
E902
VREG_L10C_0P88
VREG_L6B_1P2
VREG_L4B_0P752
VREG_L5C_S3C_S4C_0P676
VREG_L3B_0P504
VREG_L1C_1P8
VREF_MSM_1P25
VDD_A_QLINK_0_0P9
VDD_A_QLINK_1_0P9
VDD_A_QLINK_HV_CK0,1
VDD_A_UFS_0_CORE
DDRPHY_VDDA_HV IS SHARING A CAP WITH VDD_A_UFS_1P2
VDD_A_USB_SS_DP_1P2
VDD_A_USB_SS_DP_CORE
VDD_A_USB_HS_3P1
VDD_A_USB_HS_CORE
VDD_A_USB_1_HS_CORE
VDD_A_PCIE_1_CORE
VDDIO_EBI
LPI_MX
VDDA_A_QREFS_PMIC_1P25
AMA00012301EX


U101
QCM6490
GND5
BC27 GND
BC35 GND
BC37 GND
BD8 GND
BD10 GND
BD12 GND
BD16 GND
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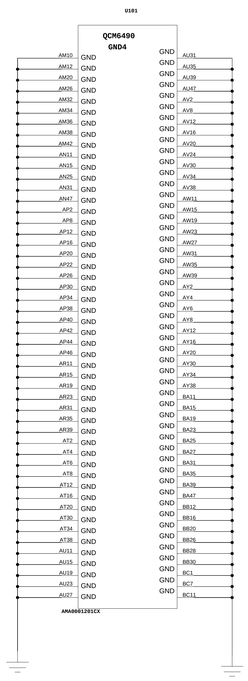
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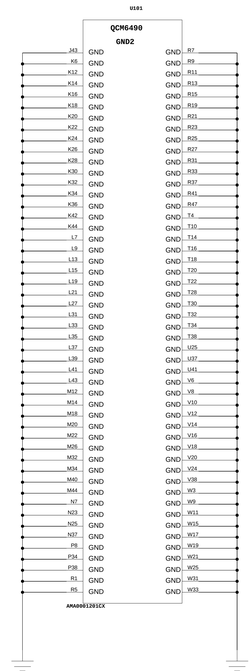
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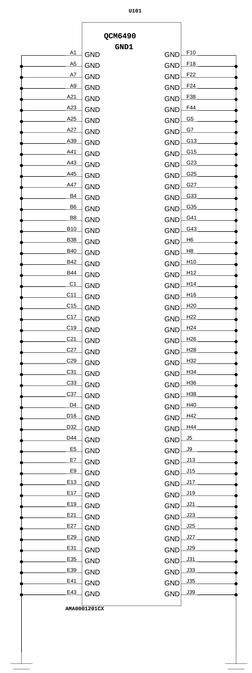
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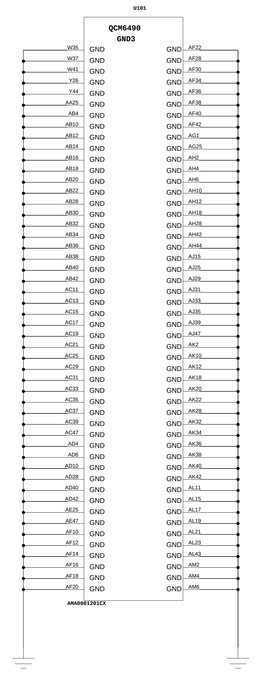
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AMA000129101CX

U1101
KM2V8001CM-B707

UFS Power

VCC 3.3V
VCCQ2 1.8V
VDD1/VDD2/VDDQ:18/1.1V/0.6V

NTC
EMMC_UFS_THERM
RT1101
AAC0104FA6CBX

EBI0_CA_0	G14	CA0_A	
EBI0_CA_1	F13	CA1_A	
EBI0_CA_2	C13	CA2_A	
EBI0_CA_3	D13	CA3_A	
EBI0_CA_4	E13	CA4_A	
EBI0_CA_5	C15	CA5_A	
EBI0_CS_0	E15	CS0_A	
EBI0_CS_1	F15	CS1_A	
EBI0_CKE_0	E16	CKE0_A	
EBI0_CKE_1	F16	CKE1_A	
EBI0_CLK_P	H16	CLK_t_A	
EBI0_CLK_M	G16	CLK_c_A	
EBI0_DQ0	A3	DQ0_A	
EBI0_DQ1	B3	DQ1_A	
EBI0_DQ2	C3	DQ2_A	
EBI0_DQ3	D3	DQ3_A	
EBI0_DQ4	B7	DQ4_A	
EBI0_DQ5	C6	DQ5_A	
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EBI0_DQ7	C8	DQ7_A	
EBI0_DMI_0	D5	DMI0_A	
EBI0_DQS_0_P	C9	DQS0_t_A	
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EBI0_DQ8	K5	DQ8_A	
EBI0_DQ9	K6	DQ9_A	
EBI0_DQ10	K3	DQ10_A	
EBI0_DQ11	J3	DQ11_A	
EBI0_DQ12	J7	DQ12_A	
EBI0_DQ13	G3	DQ13_A	
EBI0_DQ14	H6	DQ14_A	
EBI0_DQ15	H8	DQ15_A	
EBI0_DMI_1	H3	DMI1_A	
EBI0_DQS_1_P	K9	DQS1_t_A	
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EBI1_CA_2	AB13	CA2_B	
EBI1_CA_3	AA13	CA3_B	
EBI1_CA_4	Y13	CA4_B	
EBI1_CA_5	AB15	CA5_B	
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EBI1_DQ4	AC7	DQ4_B	
EBI1_DQ5	AB6	DQ5_B	
EBI1_DQ6	AA7	DQ6_B	
EBI1_DQ7	AB8	DQ7_B	
EBI1_DMI_0	AA5	DMI0_B	
EBI1_DQS_0_P	AB9	DQS0_t_B	
EBI1_DQS_0_M	AA9	DQS0_c_B	
EBI1_DQ8	R5	DQ8_B	
EBI1_DQ9	R6	DQ9_B	
EBI1_DQ10	R3	DQ10_B	
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EBI1_DQS_1_M	T9	DQS1_c_B	
VREG_SSC_0P676	J13	ODT_A	
	T13	ODT_B	
DDR_RESET_N	AA16	RESET_n	

VCC-1	M17	VREG_L7B_2P5	
VCC-2	N17		
VCC-3	P17		
VCCQ2-1	J15	VREG_ELDO1_1P8	
VCCQ2-2	J16		
VCCQ2-3	J17		
VCCQ2-4	K15		
VCCQ-1	R13		
VCCQ-2	R14		
VCCQ-3	T15	B13/B14/T15/T16 NC for UFS	
VCCQ-4	T16		
VDD1-3	A4	VREG_L18B_1P8	
VDD1-1	A9		
VDD1-8	A15		
VDD1-9	A16		
VDD1-10	B15		
VDD1-2	AC15		
VDD1-4	AD4		
VDD1-5	AD9		
VDD1-7	AD15		
VDD1-6	AD16		
VDD2-6	A5	VREG_SOC_0P676	
VDD2-5	A8		
VDD2-3	B9		
VDD2-4	B13		
VDD2-7	B14		
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VDD2-17	L8		
VDD2-18	L9		
VDD2-11	P7		
VDD2-19	P8		
VDD2-20	P9		
VDD2-21	V7		
VDD2-22	V8		
VDD2-23	V9		
VDD2-2	AC9		
VDD2-12	AC13		
VDD2-1	AC14		
VDD2-24	AD5		
VDD2-9	AD8		
VDD2-10	K2		
VDD2-13	R2		
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VDDQ-2	J4		
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VDDIQ2	K17		
VDDIQ	T17		
VDDI	L17		
RFE_CLK	P12	UFS_REF_CLK	
DOUT0_t	P16	UFS_L0_RX_P	
DOUT0_c	P15	UFS_L0_RX_M	
DOUT1_t	N14	UFS_L1_RX_P	
DOUT1_c	N13	UFS_L1_RX_M	
DIN0_t	M16	UFS_L0_TX_P	
DIN0_c	M15	UFS_L0_TX_M	
DIN1_t	L14	UFS_L1_TX_P	
DIN1_c	L13	UFS_L1_TX_M	
RFU-2	N9	R1131 0ohm NR	QCK_RESOUT_N
RFU-1	M9		
RST_n	M12	UFS_RESET_N	
ZQ0_A	B16	R1101 240ohm	VREG_L3B_0P504
ZQ1_A	C16	R1102 240ohm	
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VSF5	M6		
VSF6	N6		
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NC-3	AC16		
RFU-4	N7		
NC-6	D16	R1103 240ohm NR	
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NC-8	J14		
NC-9	T14		
NC-10	U14		
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DNU-2	A2		
DNU-10	A17		
DNU-5	A18		
DNU-12	B1		
DNU-11	B18		
DNU-6	AC1		
DNU-3	AC18		
DNU-8	AD1		
DNU-9	AD2		
DNU-4	AD17		
DNU-7	AD18		

LP-DDR4

VSS-33	B4	
VSS-32	B6	
VSS-18	B8	
VSS-17	C4	
VSS-16	C5	
VSS-19	C7	
VSS-11	C14	
VSS-10	D4	
VSS-9	D6	
VSS-51	D8	
VSS-23	D14	
VSS-52	D15	
VSS-31	E14	
VSS-30	F14	
VSS-29	G4	
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VSS-42	G6	
VSS-50	G13	
VSS-49	G15	
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VSS-47	H7	
VSS-41	H13	
VSS-40	H15	
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VSS-38	K4	
VSS-37	K7	
VSS-13	K8	
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VSS-22	R4	
VSS-21	R7	
VSS-20	T6	
VSS-15	U4	
VSS-14	U7	
VSS-34	U13	
VSS-12		
VSS-8	V4	
VSS-7	V5	
VSS-6	V6	
VSS-5	V13	
VSS-54	V15	
VSS-24	W14	
VSS-25	Y14	
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VSS-3	AB5	
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VSS-45	AC6	
VSS-46	AC8	

U15

VSS-G-1	K13	
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VSS-G-3	K16	
VSS-G-4	L12	
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VSS-G-13	N16	
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VSS-G-15	P14	
VSS-G-16	R15	
VSS-G-17	R16	
VSS-G-18	R17	

VREG_S1B_1P835
R1105 0ohm
C1154 1uF
U1102
VPH_PWR
Vin
Vout
VBIAS
SNS/FB
GND
EN
C1153 4.7uF
R1136 392kohm
R1135 392kohm
R1137 130kohm
C1155 10uF
VREG_ELDO1_1P8
AMY00917400CK
VREG_L9B_1P2

C1101 100nF
C1102 100nF
C1103 2.2uF
C1104 2.2uF
C1105 100nF
C1106 1uF
C1107 1uF
C1108 4.7uF
C1110 1uF
C1111 1uF
C1112 2.2uF
C1113 2.2uF
C1120 1uF
C1121
C1122 1uF
C1123 1uF
C1124 1uF
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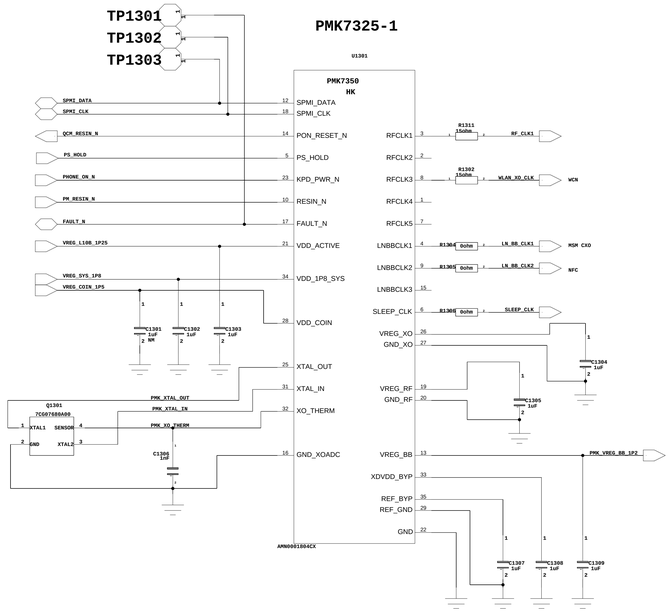
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TP1301
TP1302
TP1303
U1301
PMK7350
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SPMI_CLK
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PS_HOLD
KPD_PWR_N
RESIN_N
FAULT_N
VDD_ACTIVE
VDD_1P8_SYS
VDD_COIN
XTAL_OUT
XTAL_IN
XO_THERM
GND_XOADC
RFCLK1
RFCLK2
RFCLK3
RFCLK4
RFCLK5
LNBBCLK1
LNBBCLK2
LNBBCLK3
SLEEP_CLK
VREG_XO
GND_XO
VREG_RF
GND_RF
VREG_BB
XDVDD_BYP
REF_BYP
REF_GND
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AM8001804CK
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VREG_COIN_1P5
PMK_XTAL_OUT
PMK_XTAL_IN
PMK_XO_THERM
PMK_VREG_BB_1P2
Q1301
7C6076800A00
XTAL1
SENSOR
GND
XTAL2
C1304
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C1305
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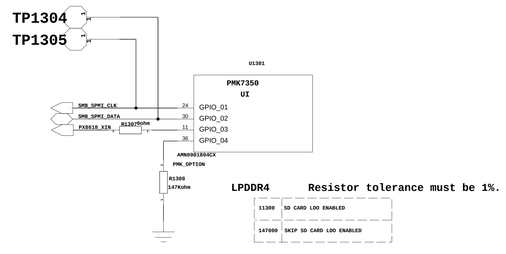
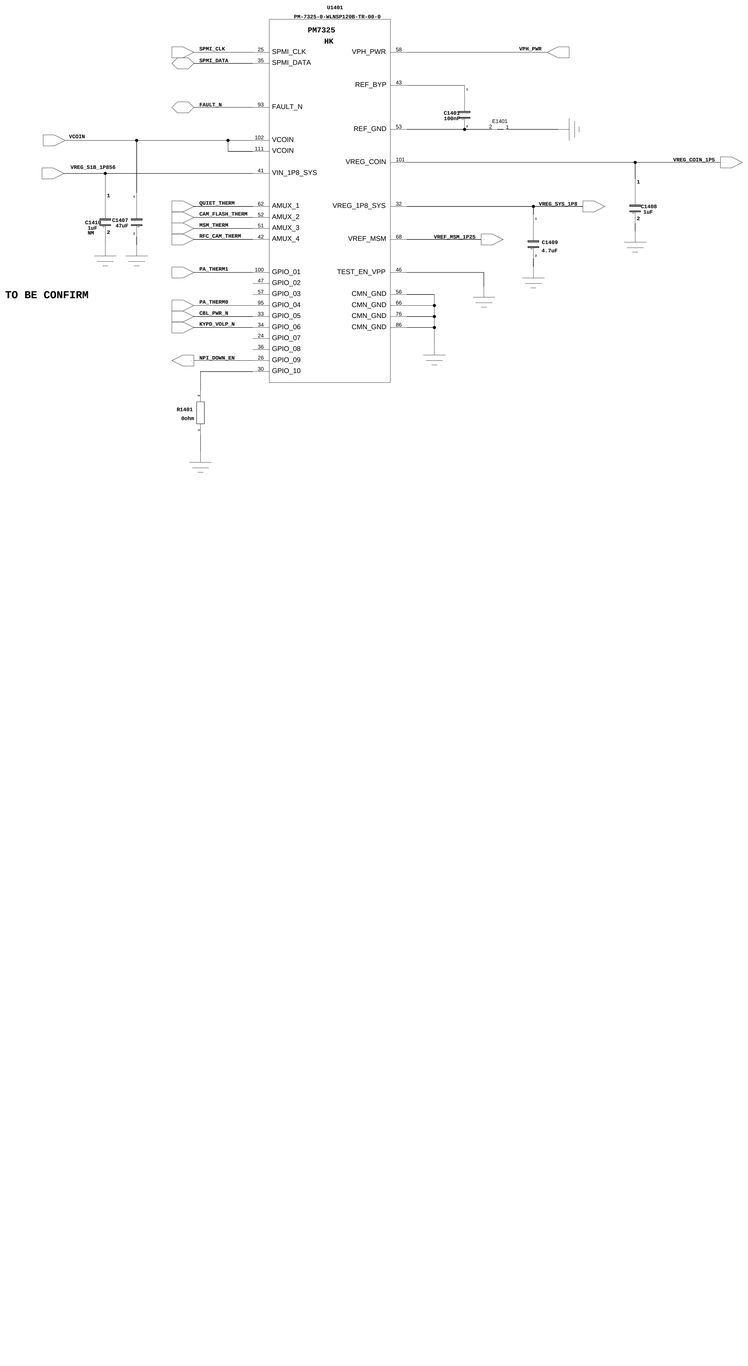
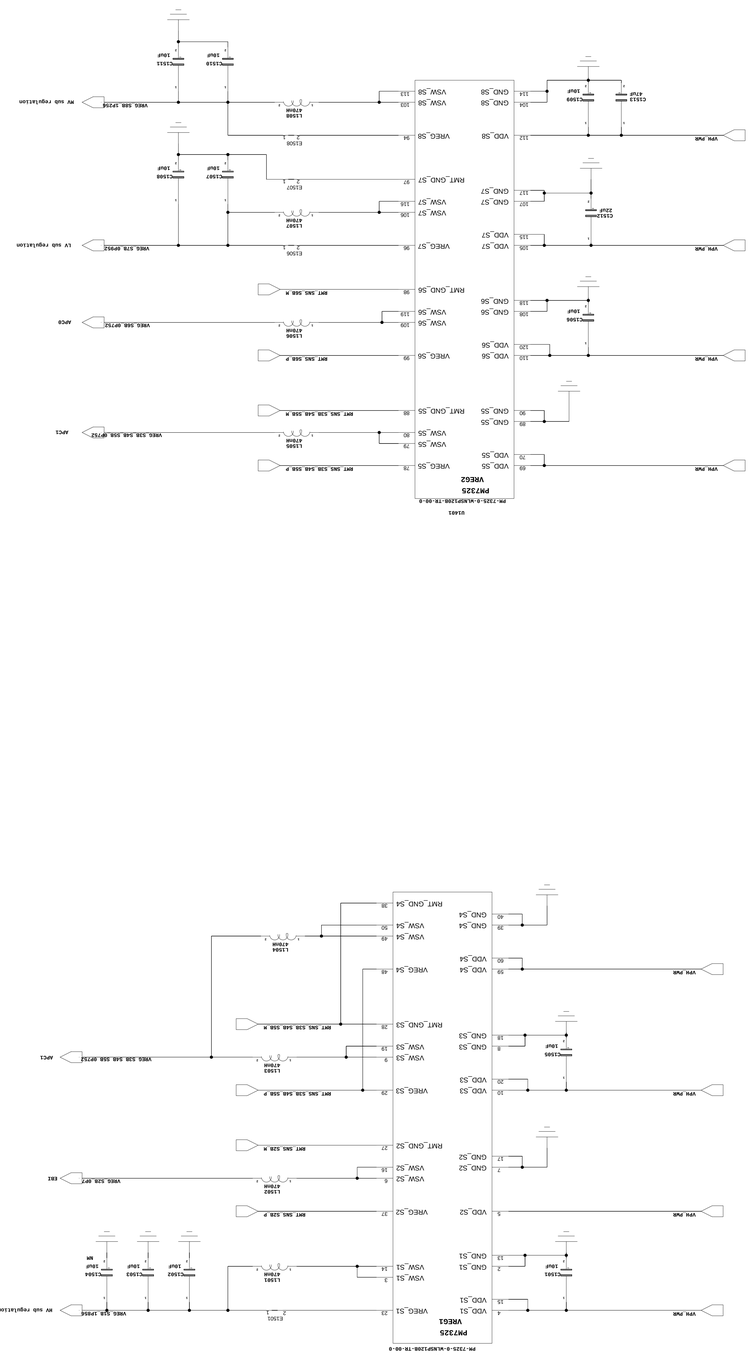
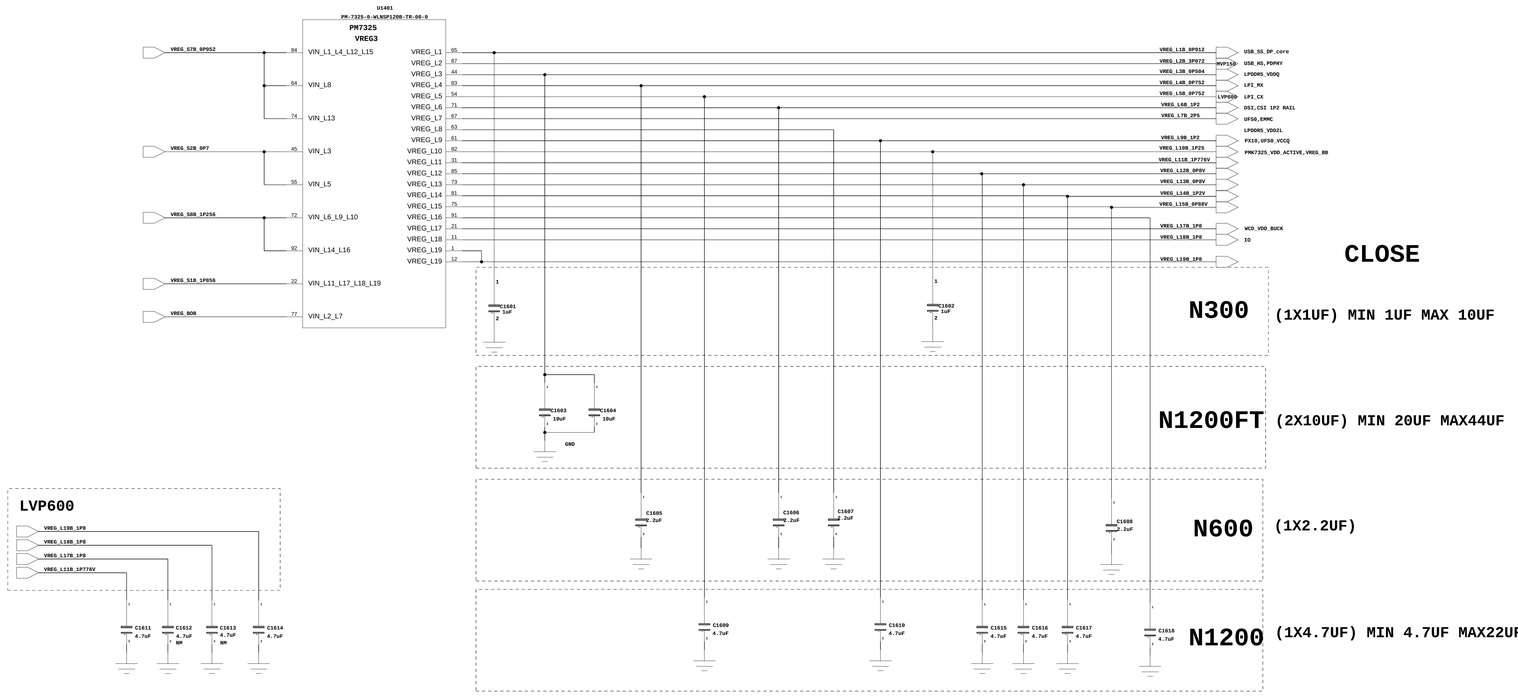
C1306
1uF
C1307
1uF
C1308
1uF
C1309
1uF
R1311
2kohm
R1302
2kohm
R1303
0ohm
R1304
0ohm
R1305
0ohm
R1306
0ohm
RF_CLK1
WLAN_XO_CLK
WCN
LN_BB_CLK1
MSM CXO
LN_BB_CLK2
NFC
SLEEP_CLK


TP1304
TP1305
U1301
PMK7350
UI
SMB_SPMI_CLK
SMB_SPMI_DATA
PX30S18_XIN
GPIO_01
GPIO_02
GPIO_03
GPIO_04
AM8001804CK
PMK_OPTION
R1308
147kohm
LPDDR4
Resistor tolerance must be 1%.
11300
SD CARD LDO ENABLED
147000
SKIP SD CARD LDO ENABLED



TO BE CONFIRM


U1401
PM-7225-0-WLNSP1208-TR-00-0
PM7225
VREG1
VDD_S1
VDD_S1
VDD_S1
GND_S1
GND_S1
GND_S1
VSW_S1
VSW_S1
VREG_S1
RMT_GND_S1
GND_S2
GND_S2
GND_S2
VSW_S2
VSW_S2
VREG_S2
RMT_GND_S2
GND_S3
GND_S3
GND_S3
VSW_S3
VSW_S3
VREG_S3
RMT_GND_S3
GND_S4
GND_S4
GND_S4
VSW_S4
VSW_S4
VREG_S4
RMT_GND_S4
VDD_S5
VDD_S5
VDD_S5
GND_S5
GND_S5
GND_S5
VSW_S5
VSW_S5
VREG_S5
RMT_GND_S5
GND_S6
GND_S6
GND_S6
VSW_S6
VSW_S6
VREG_S6
RMT_GND_S6
VDD_S7
VDD_S7
VDD_S7
GND_S7
GND_S7
GND_S7
VSW_S7
VSW_S7
VREG_S7
RMT_GND_S7
GND_S8
GND_S8
GND_S8
VSW_S8
VSW_S8
VREG_S8
VDD_S8
VPH_PWR
VPH_PWR
VPH_PWR
VPH_PWR
VPH_PWR
VPH_PWR
VPH_PWR
VPH_PWR
C1501
10uF
C1502
10uF
C1503
10uF
C1504
10uF
C1505
10uF
C1506
10uF
C1507
10uF
C1508
10uF
C1509
10uF
C1510
47uF
C1511
22uF
C1512
22uF
E1501
E1502
E1503
E1504
E1505
E1506
E1507
E1508
L1501
470nH
L1502
470nH
L1503
470nH
L1504
470nH
L1505
470nH
L1506
470nH
L1507
470nH
L1508
470nH
BMT_SNS_S1B_S4B_S5B_P
BMT_SNS_S1B_S4B_S5B_M
BMT_SNS_S2B_P
BMT_SNS_S2B_M
BMT_SNS_S3B_S4B_S5B_P
BMT_SNS_S3B_S4B_S5B_M
BMT_SNS_S4B_M
VBEC_S1B_SP65E
VBEC_S1B_S4B_S5B_SP75Z
VBEC_S2B_BMTZ
VBEC_S3B_S4B_S5B_SP75Z
VBEC_S4B_SP75Z
VBEC_S7B_BP65Z
VBEC_S8B_SP75E
BV sub regulation
APC1
EBI
APC0
1V sub regulation
RV sub regulation



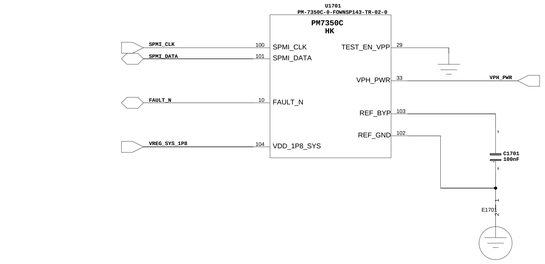
CLOSE

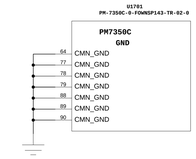
DON' T HAVE TO

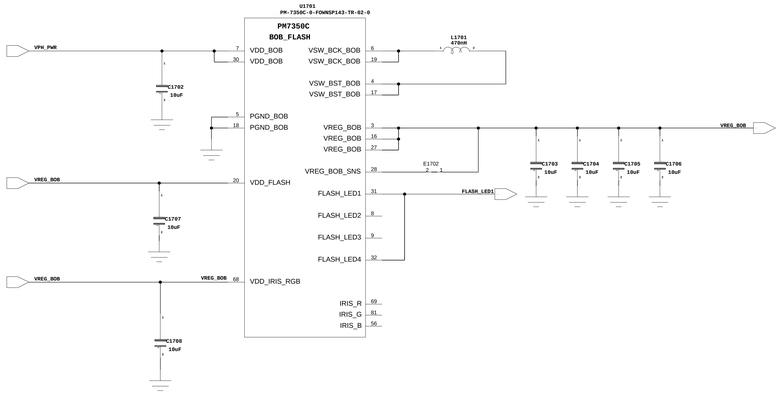
MVP150 MIN 0.47UF,MAX 5UF

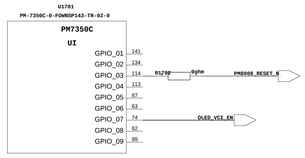
MVP600 MIN 4.7UF,MAX 23.5UF

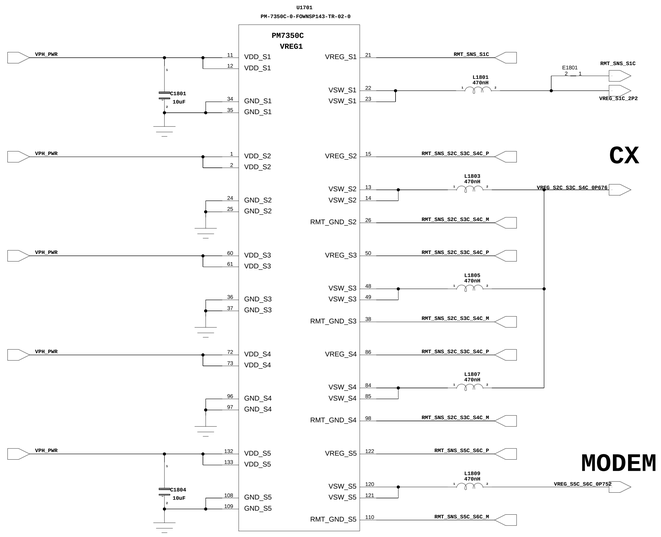
LVP600 MIN 0.47UF,MAX

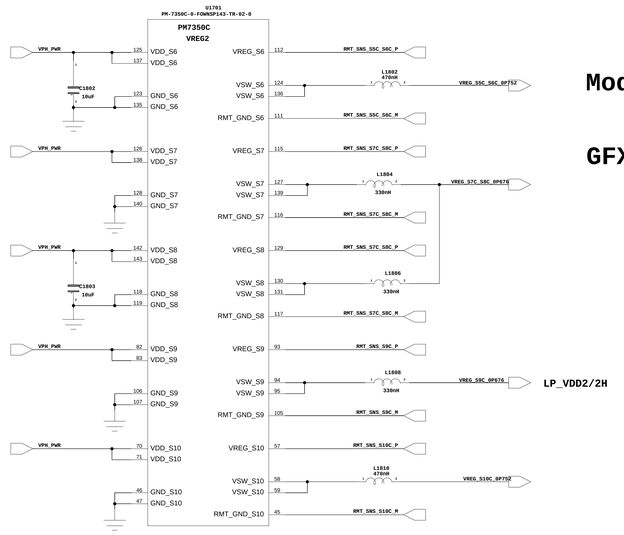

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
HK
SPMI_CLK
SPMI_DATA
FAULT_N
VREG_SYS_1P8
100
101
10
104
SPMI_CLK
SPMI_DATA
FAULT_N
VDD_1P8_SYS
TEST_EN_VPP
VPH_PWR
REF_BYP
REF_GND
29
33
103
102
VPH_PWR
C1701
100nF
E1701


U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
GND
64
77
78
79
88
89
90
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND

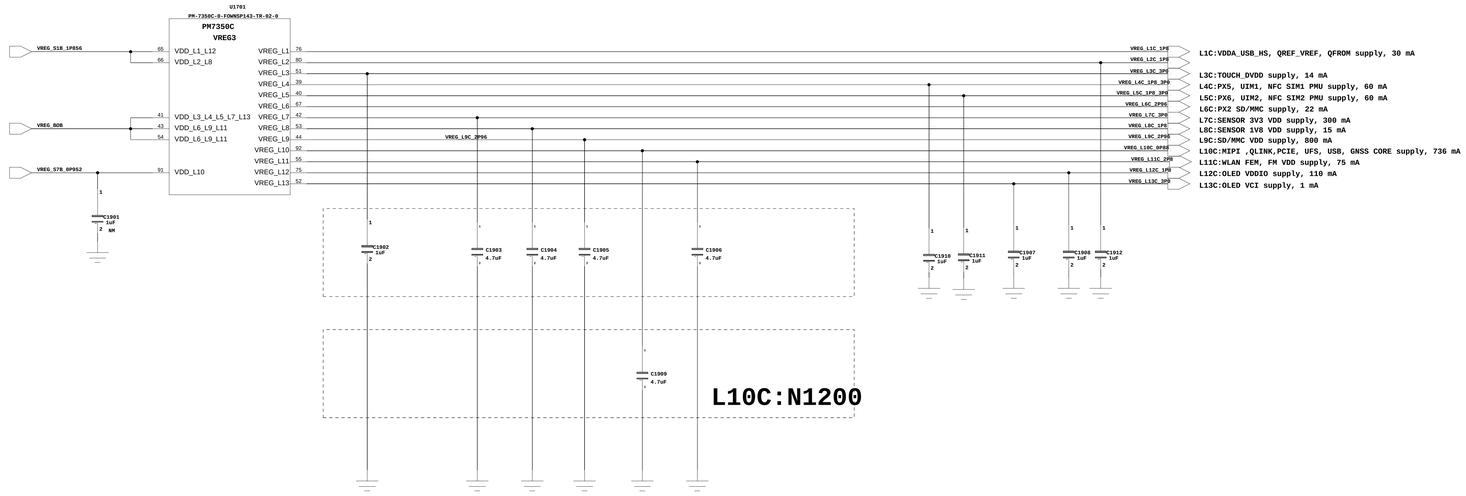

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
BOB_FLASH
VPH_PWR
VREG_BOB
VREG_BOB
VREG_BOB
VDD_BOB
VDD_BOB
PGND_BOB
PGND_BOB
VDD_FLASH
VDD_IRIS_RGB
VSW_BCK_BOB
VSW_BCK_BOB
VSW_BST_BOB
VSW_BST_BOB
VREG_BOB
VREG_BOB
VREG_BOB
VREG_BOB_SNS
FLASH_LED1
FLASH_LED2
FLASH_LED3
FLASH_LED4
IRIS_R
IRIS_G
IRIS_B
L1701
470nH
C1702
10uF
C1707
10uF
C1708
10uF
E1702
C1703
10uF
C1704
10uF
C1705
10uF
C1706
10uF
FLASH_LED1
VREG_BOB


U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
UI
GPIO_01
GPIO_02
GPIO_03
GPIO_04
GPIO_05
GPIO_06
GPIO_07
GPIO_08
GPIO_09
141
134
114
113
87
63
74
62
99
R1702
0ohm
PM8008_RESET_N
OLED_VCI_EN

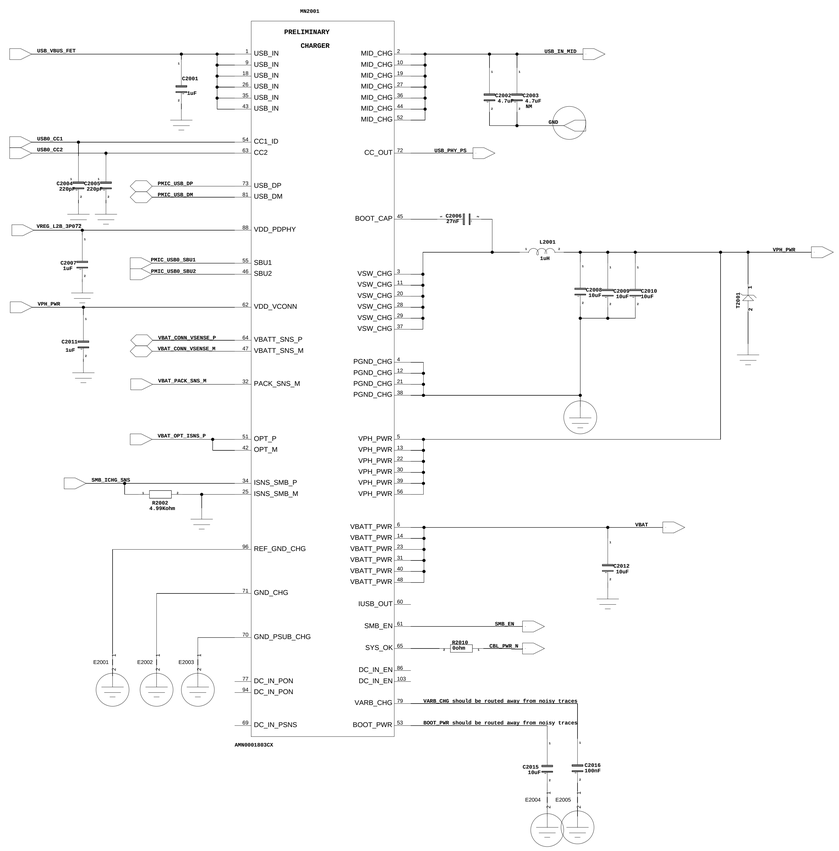

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
VREG1
VPH_PWR
VDD_S1
VDD_S1
GND_S1
GND_S1
C1801
10uF
VDD_S2
VDD_S2
GND_S2
GND_S2
VDD_S3
VDD_S3
GND_S3
GND_S3
VDD_S4
VDD_S4
GND_S4
GND_S4
VDD_S5
VDD_S5
GND_S5
GND_S5
C1804
10uF
VREG_S1
VSW_S1
VSW_S1
VREG_S2
VSW_S2
VSW_S2
RMT_GND_S2
VREG_S3
VSW_S3
VSW_S3
RMT_GND_S3
VREG_S4
VSW_S4
VSW_S4
RMT_GND_S4
VREG_S5
VSW_S5
VSW_S5
RMT_GND_S5
RMT_SNS_S1C
L1801
470nH
E1801
RMT_SNS_S1C
VREG_S1C_2P2
RMT_SNS_S2C_S3C_S4C_P
L1803
470nH
VREG_S2C_S3C_S4C_0P676
RMT_SNS_S2C_S3C_S4C_M
RMT_SNS_S2C_S3C_S4C_P
L1805
470nH
RMT_SNS_S2C_S3C_S4C_M
RMT_SNS_S2C_S3C_S4C_P
L1807
470nH
RMT_SNS_S2C_S3C_S4C_M
RMT_SNS_S5C_S6C_P
L1809
470nH
VREG_S5C_S6C_0P752
RMT_SNS_S5C_S6C_M
CX
MODEM


U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
VREG2
VPH_PWR
VDD_S6
VDD_S6
GND_S6
GND_S6
C1802
10uF
VDD_S7
VDD_S7
GND_S7
GND_S7
VDD_S8
VDD_S8
GND_S8
GND_S8
C1803
10uF
VDD_S9
VDD_S9
GND_S9
GND_S9
VDD_S10
VDD_S10
GND_S10
GND_S10
VREG_S6
VSW_S6
VSW_S6
RMT_GND_S6
VREG_S7
VSW_S7
VSW_S7
RMT_GND_S7
VREG_S8
VSW_S8
VSW_S8
RMT_GND_S8
VREG_S9
VSW_S9
VSW_S9
RMT_GND_S9
VREG_S10
VSW_S10
VSW_S10
RMT_GND_S10
RMT_SNS_S5C_S6C_P
L1802
470nH
VREG_S5C_S6C_0P752
RMT_SNS_S5C_S6C_M
RMT_SNS_S7C_S8C_P
L1804
330nH
VREG_S7C_S8C_0P676
RMT_SNS_S7C_S8C_M
RMT_SNS_S7C_S8C_P
L1806
330nH
RMT_SNS_S7C_S8C_M
RMT_SNS_S9C_P
L1808
330nH
VREG_S9C_0P676
RMT_SNS_S9C_M
RMT_SNS_S10C_P
L1810
470nH
VREG_S10C_0P752
RMT_SNS_S10C_M
Modem
GFX
LP_VDD2/2H

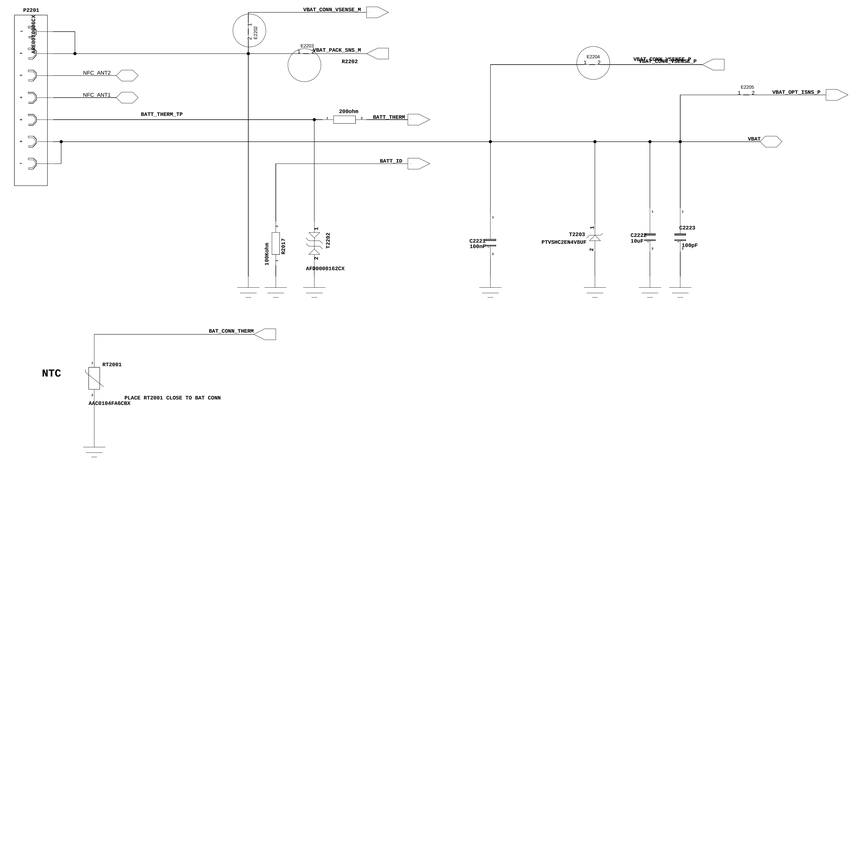
LDOs


U1701
PM-7350C-9-FOWSP143-TR-02-0
PM7350C
VREG3
VREG_S1B_1P856
VREG_B0B
VREG_S7B_0P952
VDD_L1_L12
VDD_L2_L8
VDD_L3_L4_L5_L7_L13
VDD_L6_L9_L11
VDD_L6_L9_L11
VDD_L10
VREG_L1
VREG_L2
VREG_L3
VREG_L4
VREG_L5
VREG_L6
VREG_L7
VREG_L8
VREG_L9
VREG_L10
VREG_L11
VREG_L12
VREG_L13
VREG_L9C_2P96
C1901 1uF NR
C1902 1uF
C1903 4.7uF
C1904 4.7uF
C1905 4.7uF
C1906 4.7uF
C1909 4.7uF
C1910 1uF
C1911 1uF
C1907 1uF
C1908 1uF
C1912 1uF
VREG_L1C_1P8
VREG_L2C_1P8
VREG_L3C_3P0
VREG_L4C_1P8_3P0
VREG_L5C_1P8_3P0
VREG_L6C_2P95
VREG_L7C_3P0
VREG_L8C_1P8
VREG_L9C_2P96
VREG_L10C_0P88
VREG_L11C_2P0
VREG_L12C_1P8
VREG_L13C_3P0
L10C:N1200
L1C:VDDA_USB_HS, QREF_VREF, QFROM supply, 30 mA
L3C:TOUCH_DVDD supply, 14 mA
L4C:PX5, UIM1, NFC SIM1 PMU supply, 60 mA
L5C:PX6, UIM2, NFC SIM2 PMU supply, 60 mA
L6C:PX2 SD/MMC supply, 22 mA
L7C:SENSOR 3V3 VDD supply, 300 mA
L8C:SENSOR 1V8 VDD supply, 15 mA
L9C:SD/MMC VDD supply, 800 mA
L10C:MIPI ,QLINK,PCIE, UFS, USB, GNSS CORE supply, 736 mA
L11C:WLAN FEM, FM VDD supply, 75 mA
L12C:OLED VDDIO supply, 110 mA
L13C:OLED VCI supply, 1 mA

PM7250B_CHARGE/FG

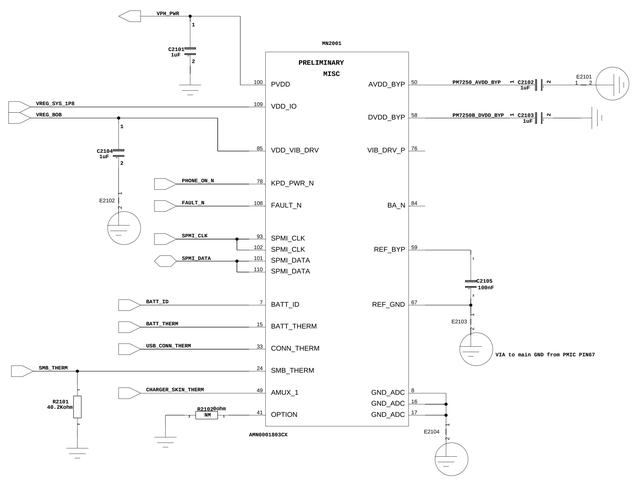


BATTERY CONNECTOR

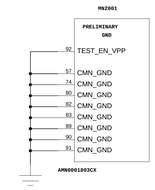


PON Configuration	OPTION Resistor Range
Micro USB,SPMI,FMB_DISABLE	R=(GND,1K,1.2K,2.2K,2.4K)
Micro USB,SPMI,FMB_ENABLE	R=(3.3K,3.6K,5.1K,5.6K)
Micro USB,I2C,FMB_DISABLE	R=(8.2K,10K,15K,16K)
Micro USB,I2C,FMB_ENABLE	R=(22K,27K,36K,39K)
Type-C,I2C,FMB_DISABLE	R=(56K,68K,91K,100K)
Type-C,I2C,FMB_ENABLE	R=(130K,150K,220K,240K)
Type-C,SPMI,FMB_ENABLE	R=(300K,330K,470K,560K)
Type-C,SPMI,FMB_DISABLE	R=(820K,910K,1.2M,Open)

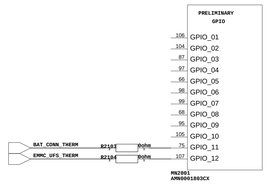
PM7250B_HK



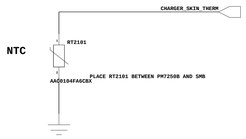
PM7250B_GND



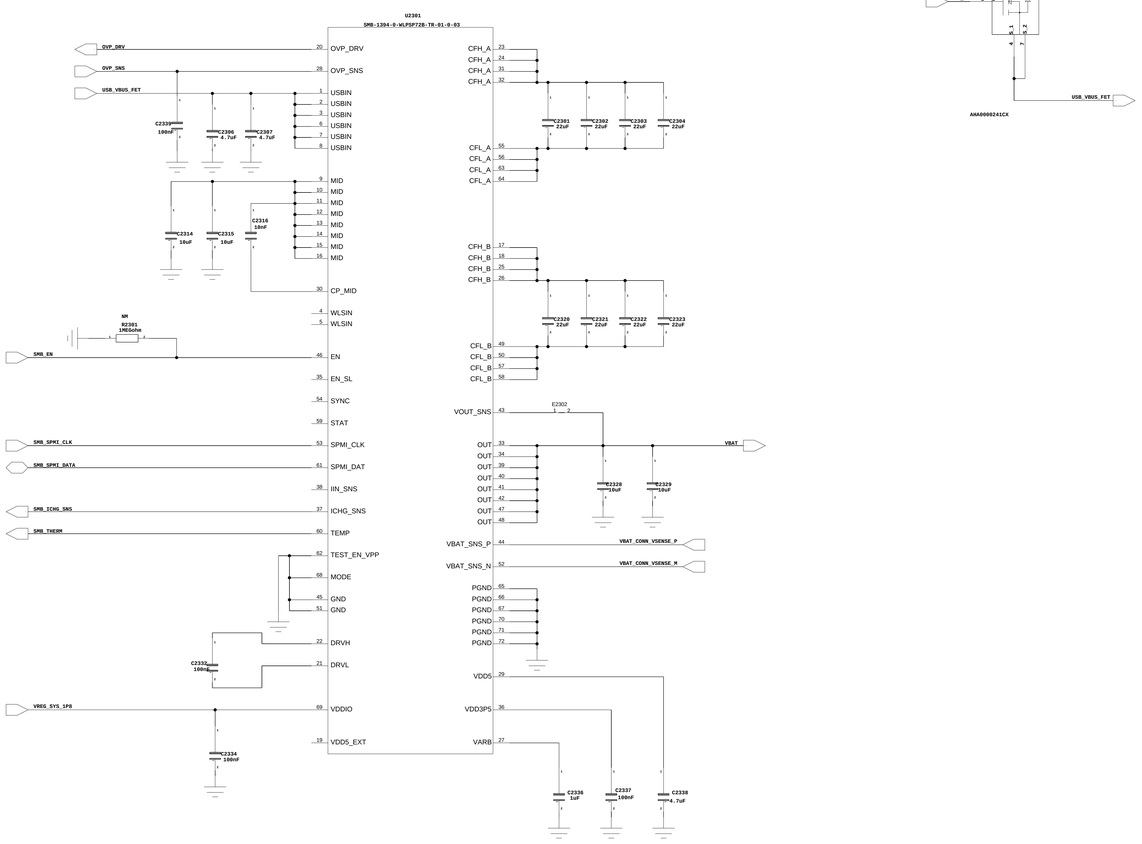
PM7250B_GPIO

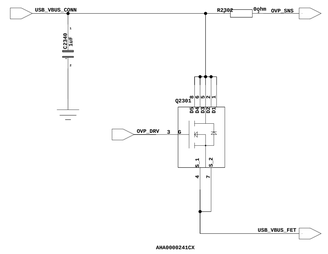


NTC

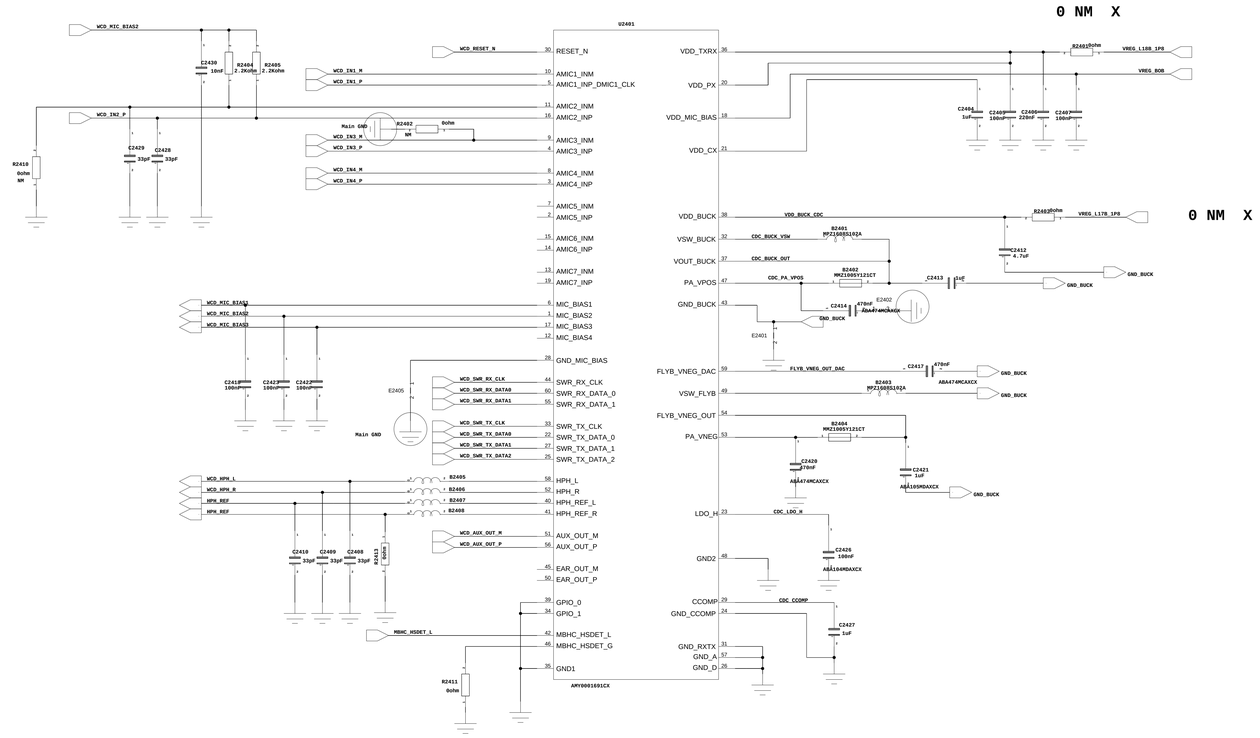


MASTER SMB1394

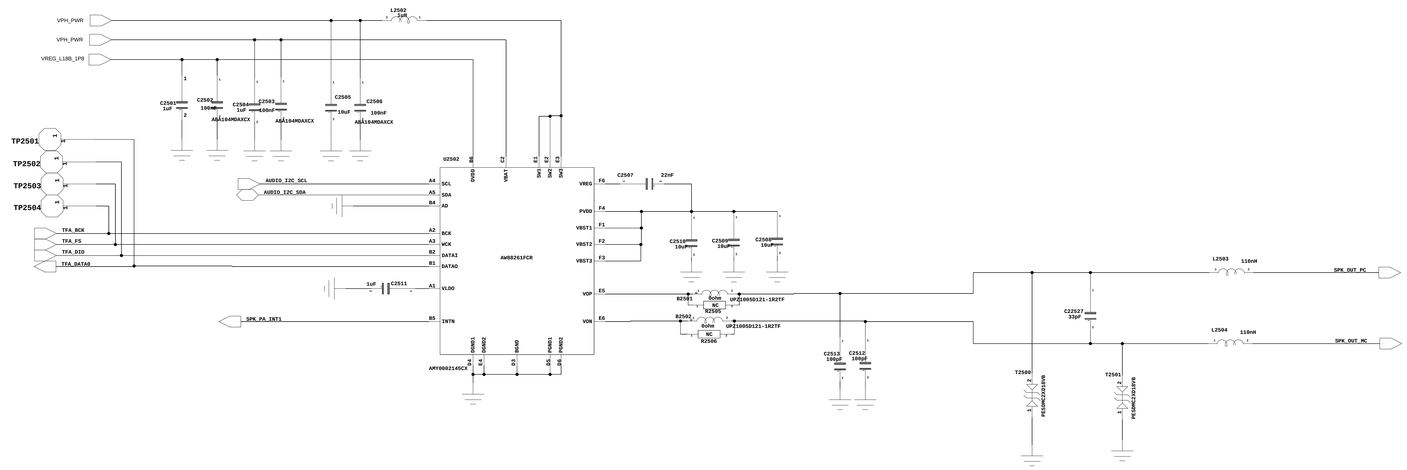




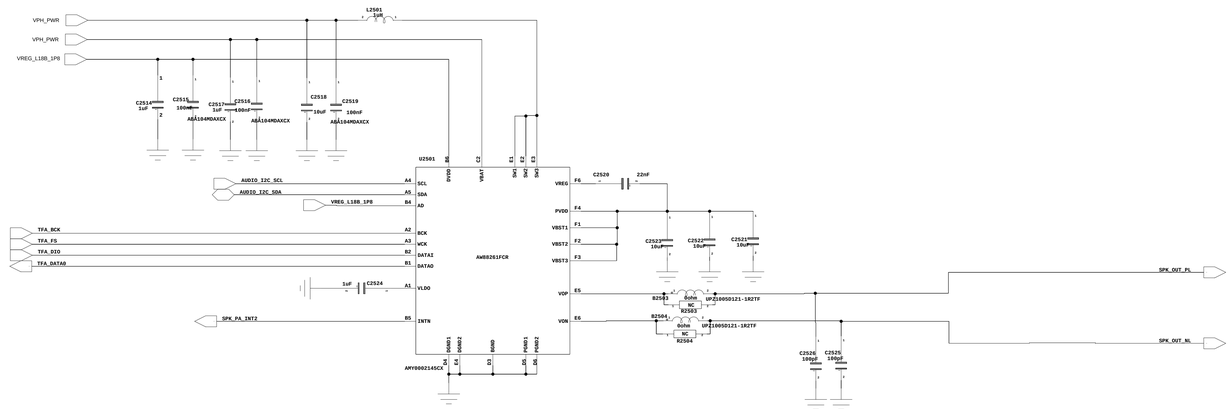
WCD9385


0 NM X
0 NM X
U2401
WCD_MIC_BIAS2
C2430 10nF
R2404 2.2kOhm
R2405 2.2kOhm
WCD_IN1_M
WCD_IN1_P
WCD_IN2_P
C2429 33pF
C2428 33pF
R2410 0ohm NM
Main GND
R2402 0ohm NM
WCD_IN3_M
WCD_IN3_P
WCD_IN4_M
WCD_IN4_P
WCD_RESET_N
RESET_N
AMIC1_INM
AMIC1_INP_DMIC1_CLK
AMIC2_INM
AMIC2_INP
AMIC3_INM
AMIC3_INP
AMIC4_INM
AMIC4_INP
AMIC5_INM
AMIC5_INP
AMIC6_INM
AMIC6_INP
AMIC7_INM
AMIC7_INP
WCD_MIC_BIAS1
WCD_MIC_BIAS2
WCD_MIC_BIAS3
MIC_BIAS1
MIC_BIAS2
MIC_BIAS3
MIC_BIAS4
GND_MIC_BIAS
C2418 100nF
C2422 100nF
C2423 100nF
E2405
Main GND
WCD_SWR_RX_CLK
WCD_SWR_RX_DATA0
WCD_SWR_RX_DATA1
WCD_SWR_TX_CLK
WCD_SWR_TX_DATA0
WCD_SWR_TX_DATA1
WCD_SWR_TX_DATA2
SWR_RX_CLK
SWR_RX_DATA_0
SWR_RX_DATA_1
SWR_TX_CLK
SWR_TX_DATA_0
SWR_TX_DATA_1
SWR_TX_DATA_2
WCD_HPH_L
WCD_HPH_R
HPH_REF
HPH_REF
B2405
B2406
B2407
B2408
HPH_L
HPH_R
HPH_REF_L
HPH_REF_R
C2410 33pF
C2409 33pF
C2408 33pF
R2415 0ohm
WCD_AUX_OUT_M
WCD_AUX_OUT_P
AUX_OUT_M
AUX_OUT_P
EAR_OUT_M
EAR_OUT_P
GPIO_0
GPIO_1
MBHC_HSDET_L
MBHC_HSDET_G
GND1
R2411 0ohm
AMY00011691CX
VDD_TXRX
VDD_PX
VDD_MIC_BIAS
VDD_CX
R2401 0ohm
VREG_L18B_1P8
VREG_BOB
C2405 1uF
C2409 100nF
C2406 220nF
C2407 100nF
VDD_BUCK
VSW_BUCK
VOUT_BUCK
PA_VPOS
GND_BUCK
VDD_BUCK_CDC
R2403 0ohm
VREG_L17B_1P8
CDC_BUCK_VSW
B2401 MPZ1608S102A
CDC_BUCK_OUT
B2402 HMZ1005Y123CT
CDC_PA_VPOS
C2412 4.7uF
C2413 1uF
GND_BUCK
C2414 470nF ABA474MCAXCX
E2402
E2401
FLYB_VNEG_DAC
VSW_FLYB
FLYB_VNEG_OUT
PA_VNEG
FLYB_VNEG_OUT_DAC
C2417 470nF ABA474MCAXCX
B2403 MPZ1608S102A
B2404 HMZ1005Y123CT
C2420 47nF ABA474MCAXCX
C2421 1uF ABA105MDAXCX
LDO_H
GND2
CCOMP
GND_CCOMP
GND_RXTX
GND_A
GND_D
CDC_LDO_H
C2426 100nF ABA104MDAXCX
CDC_CCOMP
C2427 1uF

TOP RCV &SPEAKER SMART PA

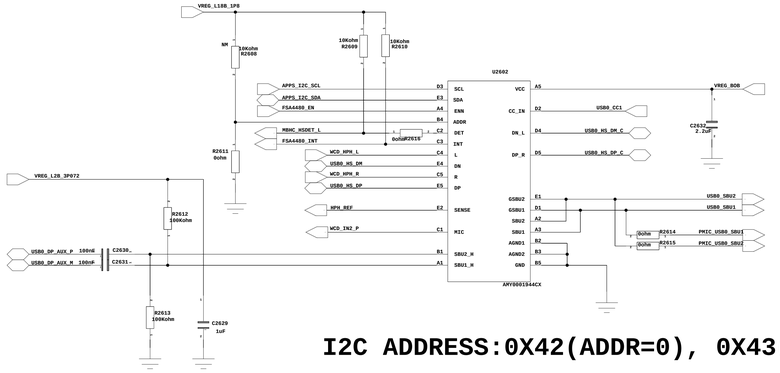


BOT SPEAKER SMART PA



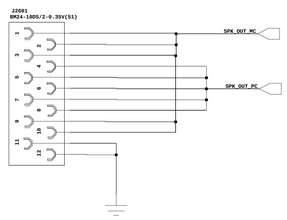
AD	Address(7-bit)
0	0x34
1	0x35

TYPEC AUDIO SWITCH

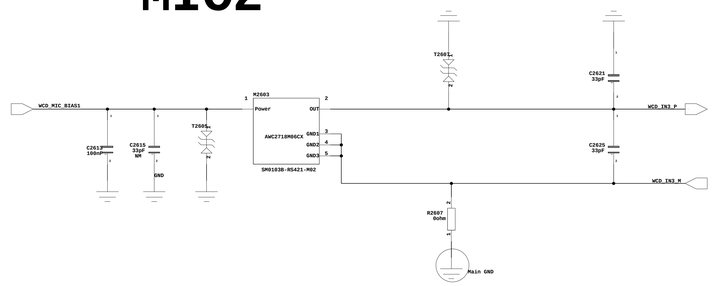


I2C ADDRESS:0X42(ADDR=0), 0X43(ADDR=1)

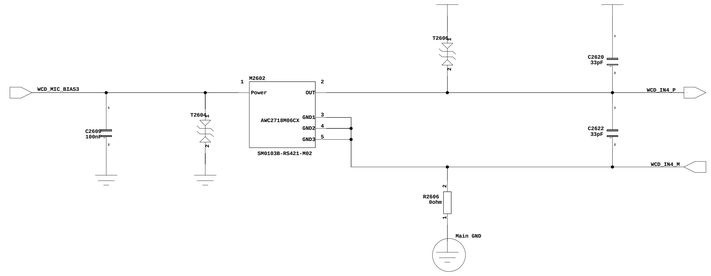
top speaker connector



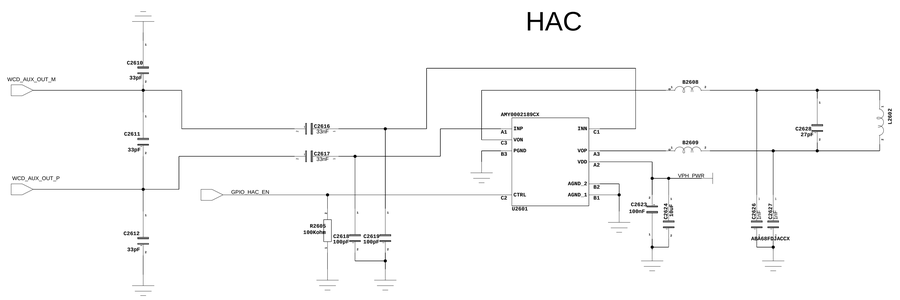
MIC2



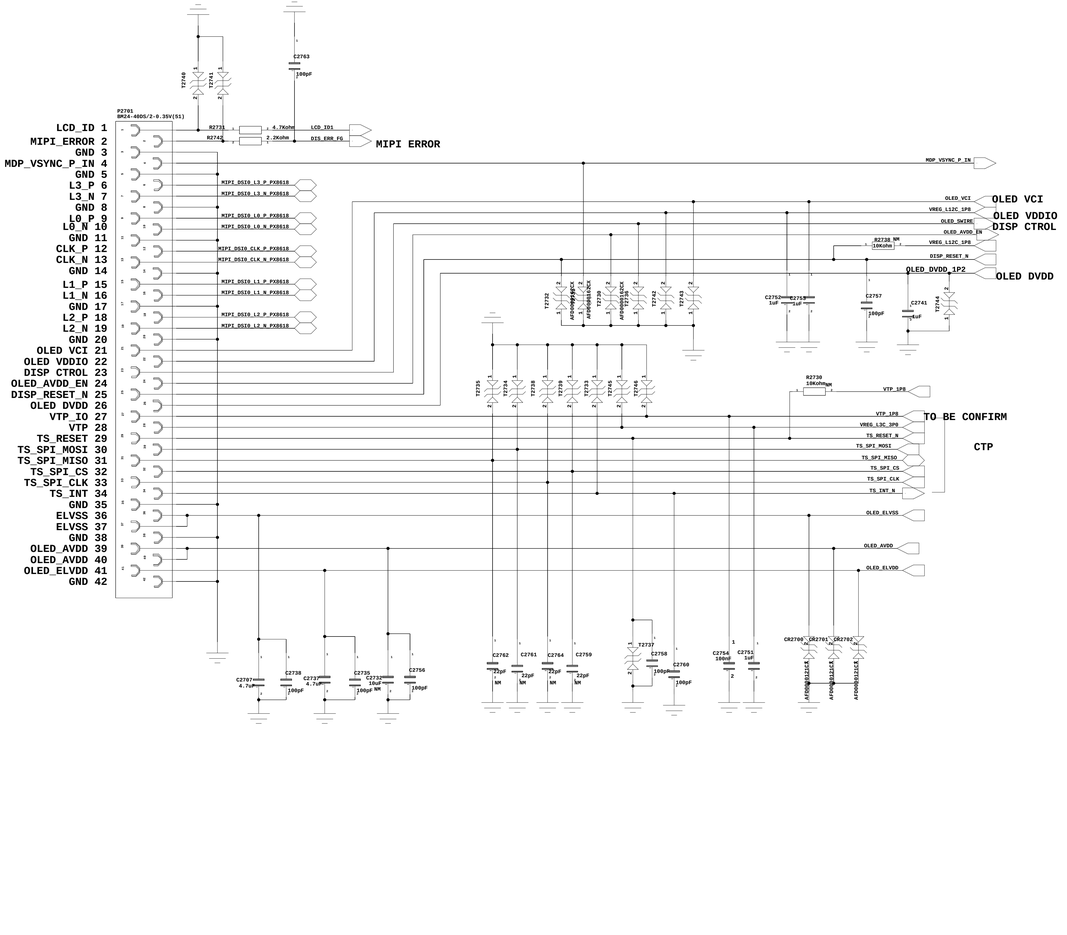
MIC3



HAC

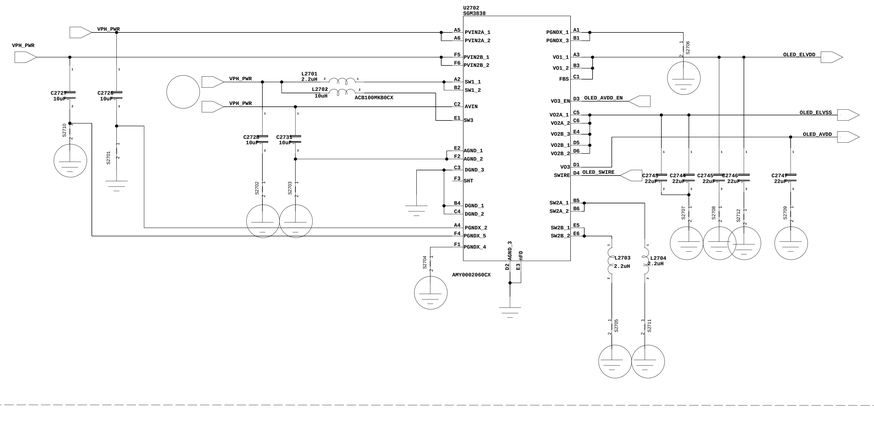


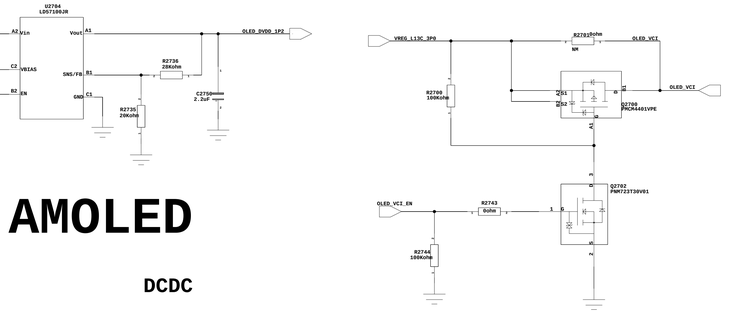
LCD CONN

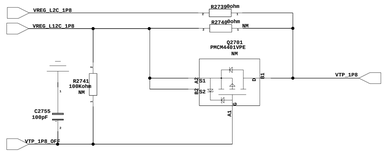


AMOLED

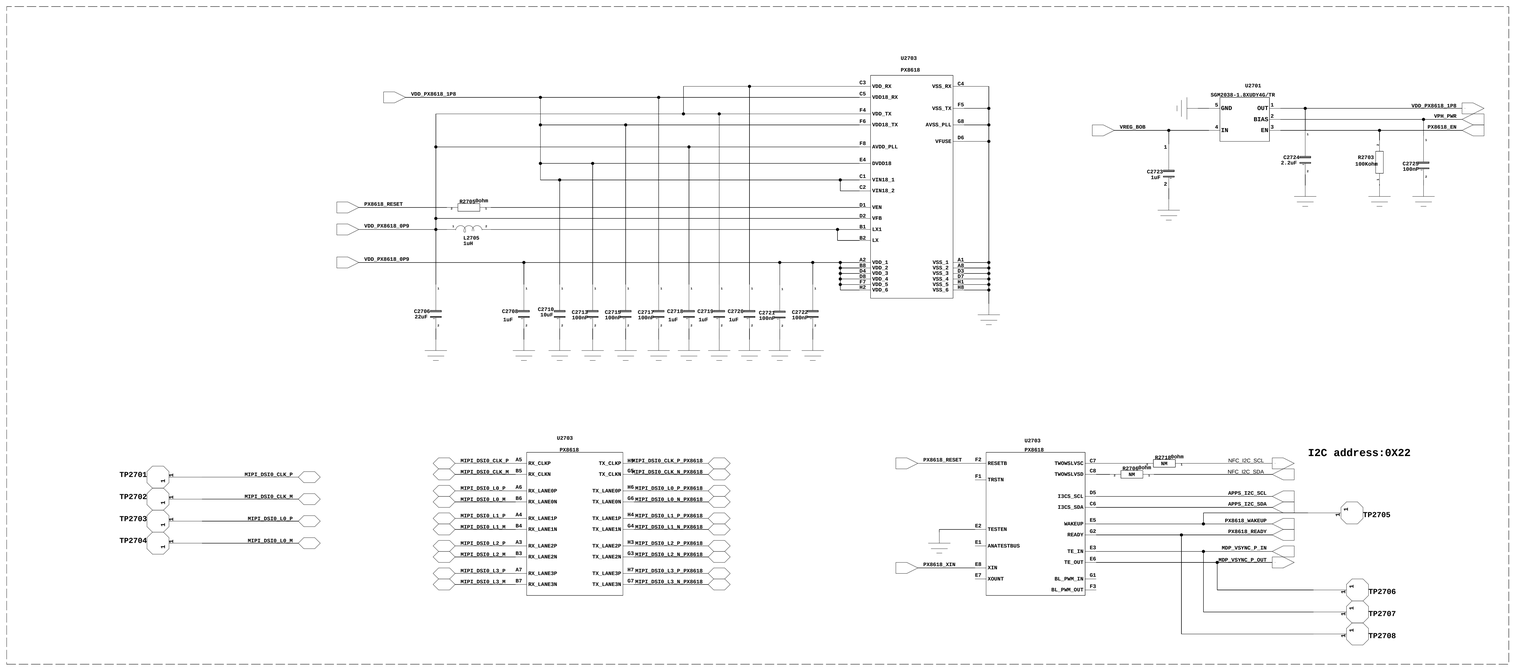
DCDC



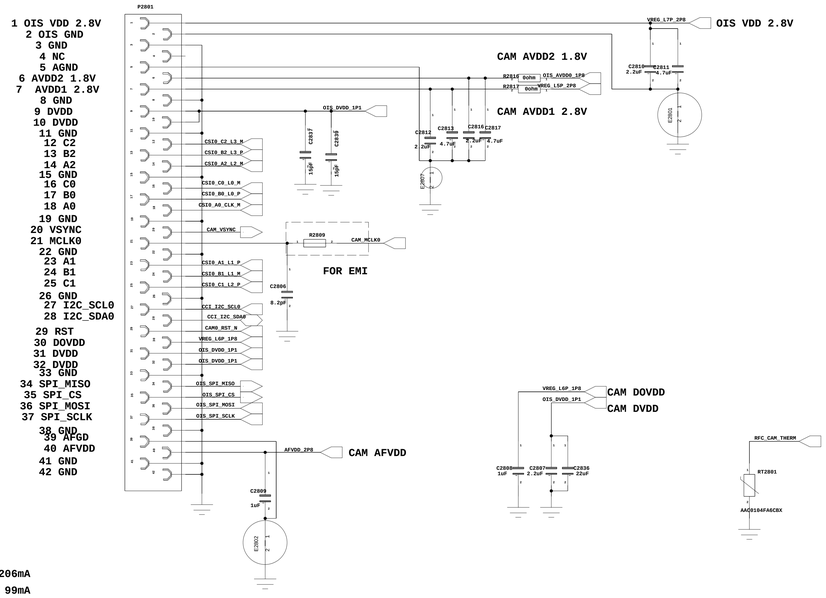




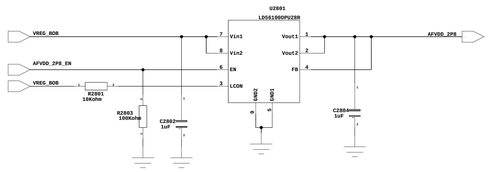
IRIS6

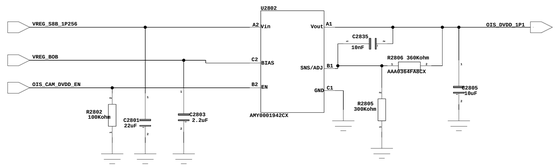


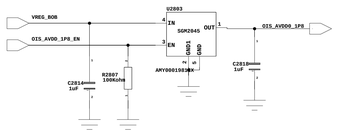
50M OIS CAMERA



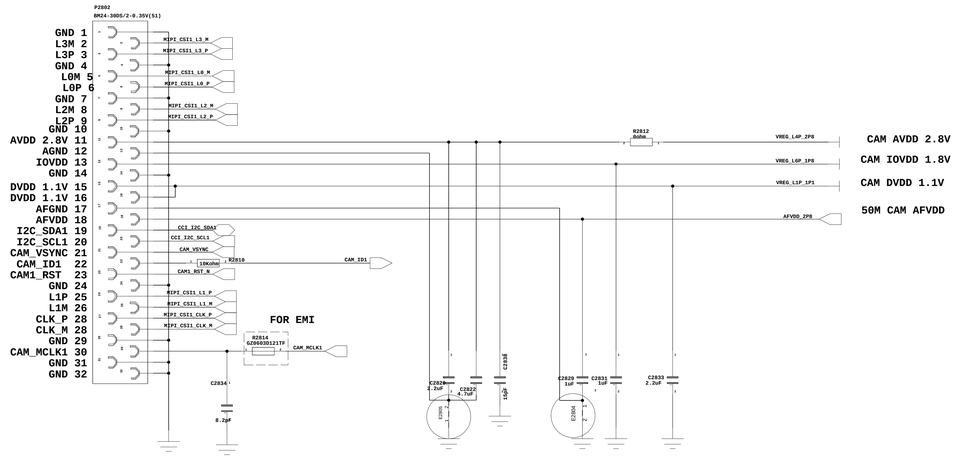
DVDD 1.0-1.2V 1206mA
AVDD28 2.7-2.9V 99mA
AVDD18 1.7-1.9V 74mA
DOVDD 1.7-1.9V 3.5mA



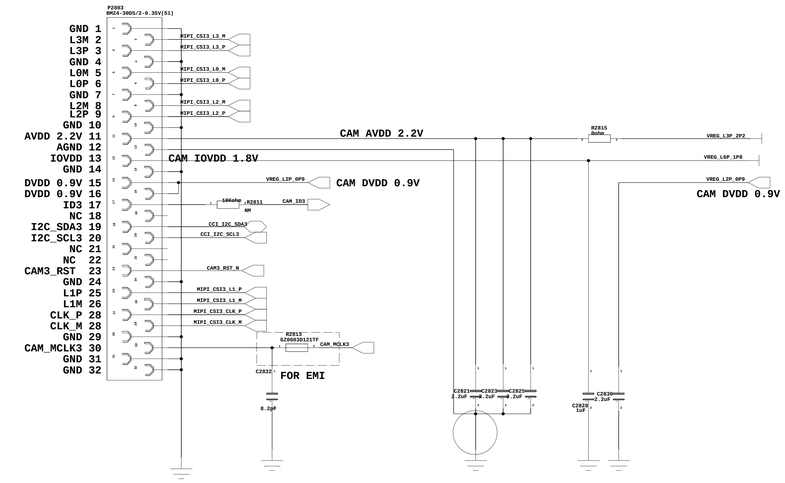




50M UW CAMERA

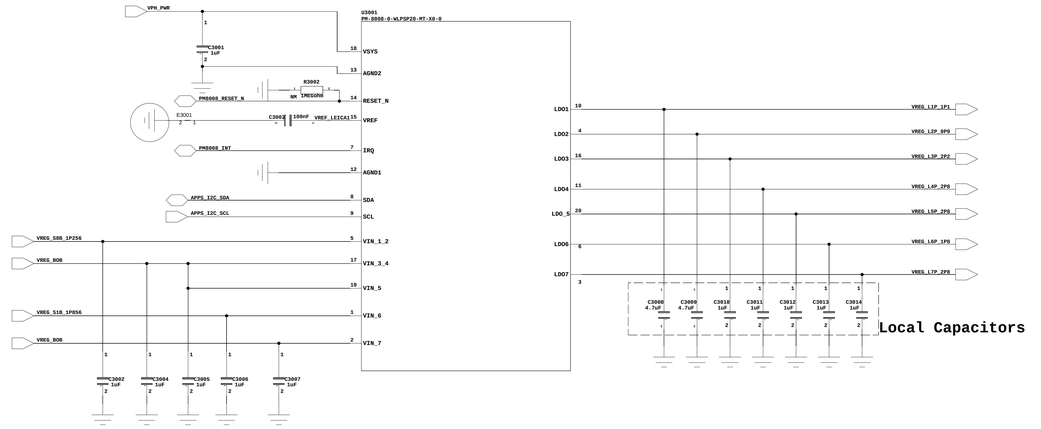


50M front camera

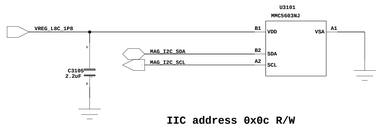


CAM_PM8008

Address:0X09

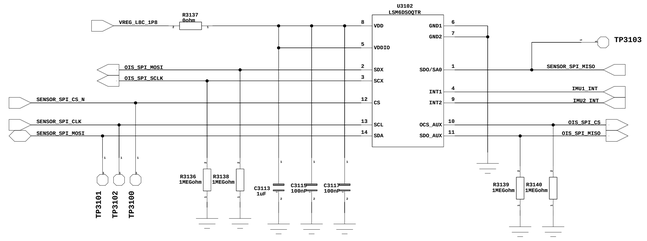


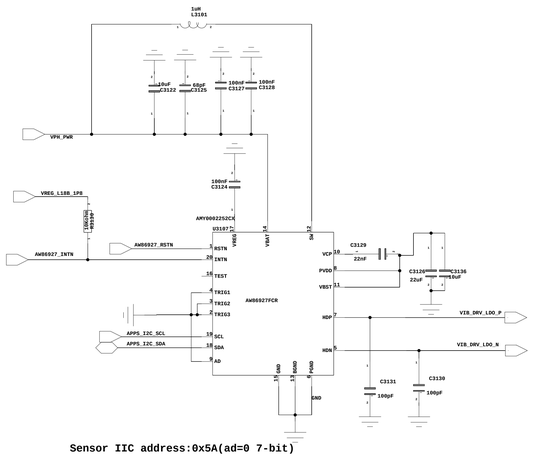
COMPASS



IIC address 0x0c R/W

A+GYRO

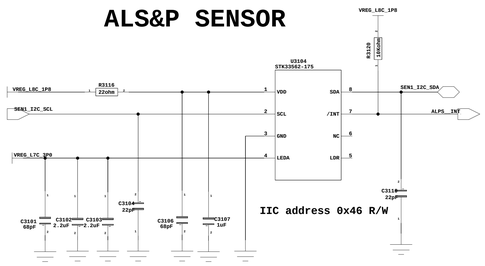




Sensor IIC address:0x5A(ad=0 7-bit)

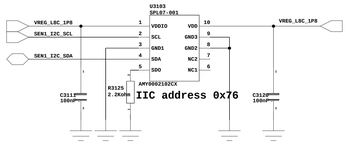
VIBRATOR

ALS&P SENSOR



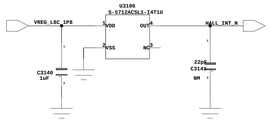
IIC address 0x46 R/W

Barometer

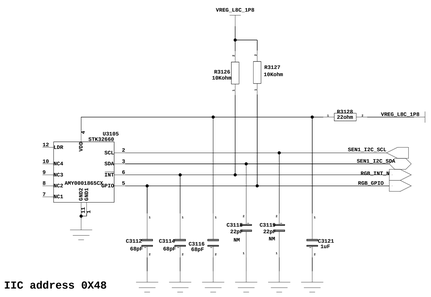


IIC address 0x76

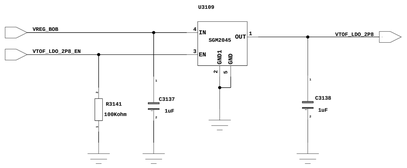
HALL



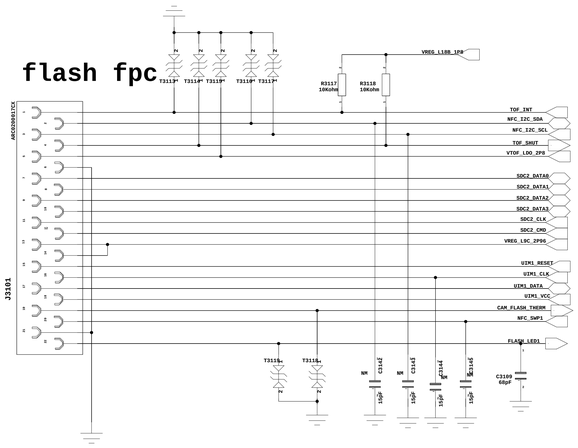
RGB SENSOR



IIC address 0X48

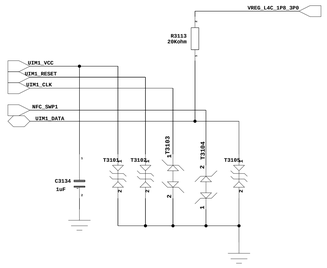


flash fpc

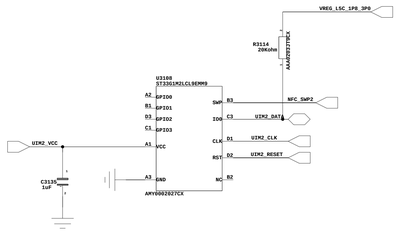


VL53L3 IIC address 0x52 0101001 R/W

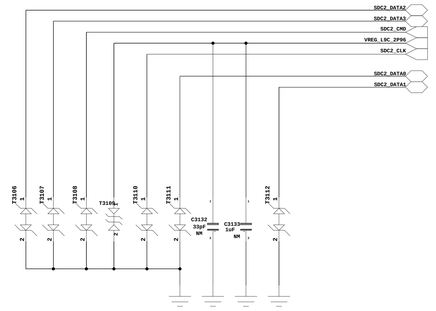
SIM CARD



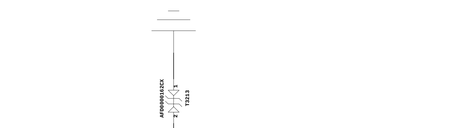
E-SIM2

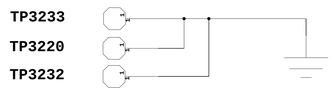


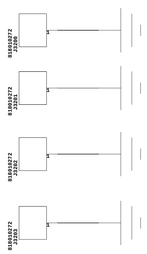
SD CARD

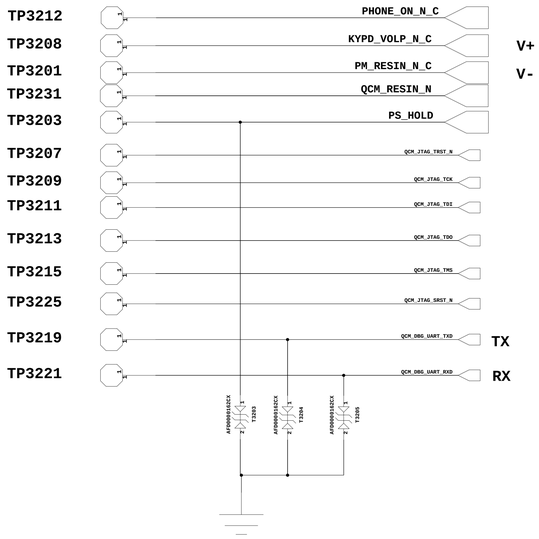


TP FOR NPI TEAM

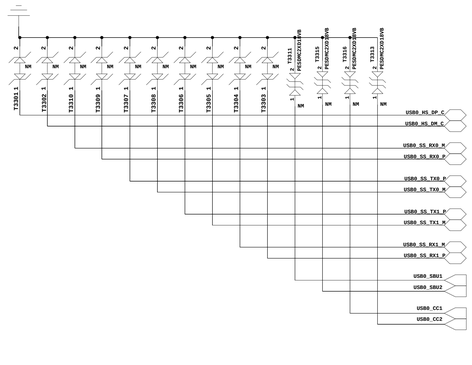


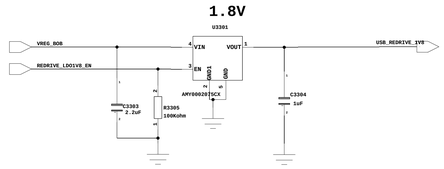




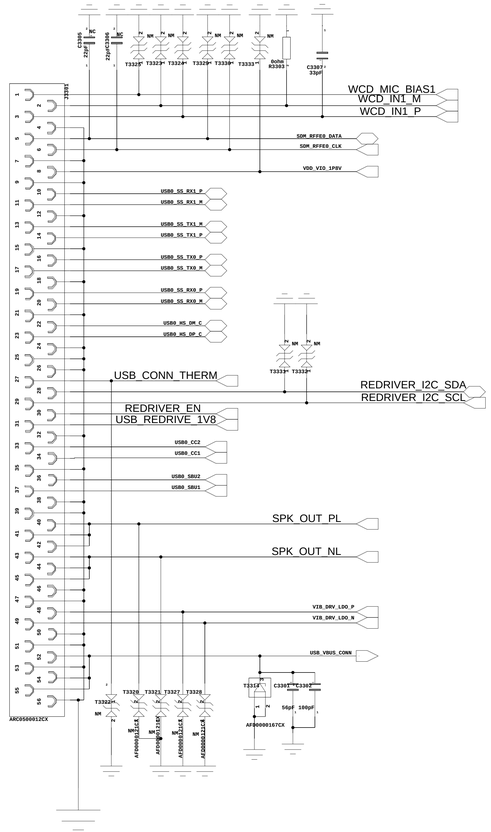


SUB CONN

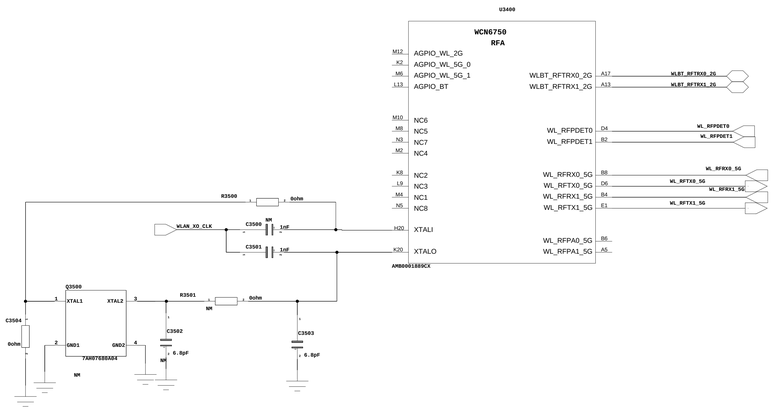

T3311
T3312
T3313
T3310
T3309
T3307
T3308
T3306
T3305
T3304
T3303
FESDMC2D10VN
NM
USB0_HS_DP_C
USB0_HS_DM_C
USB0_SS_RX0_M
USB0_SS_RX0_P
USB0_SS_TX0_P
USB0_SS_TX0_M
USB0_SS_TX1_P
USB0_SS_TX1_M
USB0_SS_RX1_M
USB0_SS_RX1_P
USB0_SBU1
USB0_SBU2
USB0_CC1
USB0_CC2

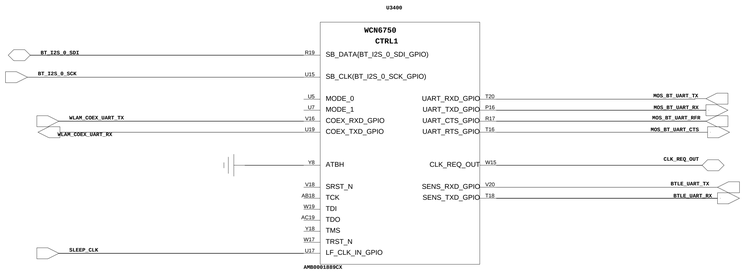

1.8V
U3301
VREG_BOB
REDRIVE_LDO1V8_EN
VIN
VOUT
EN
GND
AMY00028ICX
USB_REDRIVE_1V8
C3303
2.2uF
R3309
100Kohm
C3304
1uF

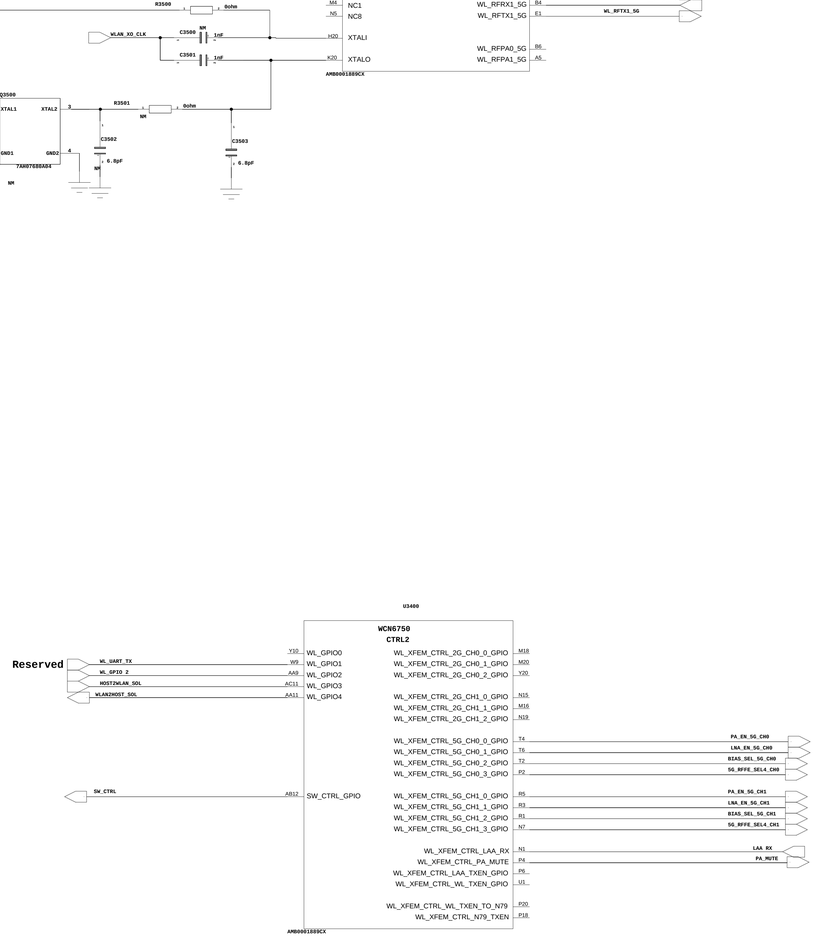
NPI_DOWN
R3300 0ohm
USB0_SBU1
PMIC_USB_DP
R3301
1Kohm
USB0_HS_DP
PMIC_USB_DM
R3302
1Kohm
USB0_HS_DM

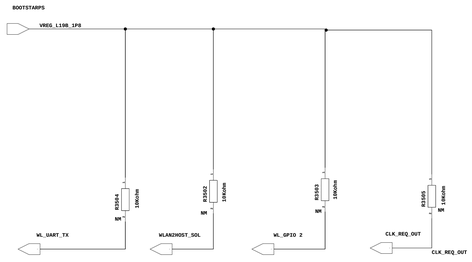

C3305
22pF
C3306
22pF
T3322
T3323
T3324
T3329
T3330
T3333
NM
0ohm
R3303
C3307
33pF
J3301
WCD_MIC_BIAS1
WCD_IN1_M
WCD_IN1_P
SDM_RFFEG_DATA
SDM_RFFEG_CLK
VDD_VIO_1P8V
USB0_SS_RX1_P
USB0_SS_RX1_M
USB0_SS_TX1_M
USB0_SS_TX1_P
USB0_SS_TX0_P
USB0_SS_TX0_M
USB0_SS_RX0_P
USB0_SS_RX0_M
USB0_HS_DM_C
USB0_HS_DP_C
T3332
T3331
USB_CONN_THERM
REDRIVER_I2C_SDA
REDRIVER_I2C_SCL
REDRIVER_EN
USB_REDRIVE_1V8
USB0_CC2
USB0_CC1
USB0_SBU2
USB0_SBU1
SPK_OUT_PL
SPK_OUT_NL
VIB_DRV_LDO_P
VIB_DRV_LDO_N
USB_VBUS_CONN
ARC05G0012CX
T3328
T3321
T3327
T3326
T3322
AFD00001214
AFD00001215
AFD00001216
AFD00001217
T3315
C3308
C3309
56pF
100pF
AFD00001167CX

50mA
VDD08_PMU_RFA_CMN
350mA
VDD08_PMU_RFA_O
400mA
VDD12_PMU_RFA_O
400mA
VDD17_PMU_RFA_O
400mA
VDD17_PMU_RFA_O
VDD17_WLSYN5G_VCO NEEDS GOOD ISOLATION FROM FROM THE REST OF THE POWER RAILS
star
200mA
200mA
200mA
200mA
200mA
200mA
200mA
LAYOUT NOTE: VDD08_WLLPSYN5G NEEDS GOOD ISOLATION FROM THE OTHE REST OF THE POWER RAILS
200mA
200mA
200mA
200mA
200mA
200mA
200mA
200mA
200mA
200mA
200mA
VDD12_WLBBPLL NEEDS GOOD ISOLATION FROM BB(1.2V),VO/BTPA(1.7V), AND RX(0.8V)
VREG_S1C_2P2
1200mA
2.2V RFA
VREG_S1B_1P856
C3400 2.2uF
C3401 100nF
C3402 2.2uF
C3403 2.2uF
C3404 2.2uF
U3400
WCN6750
RFA_PWR_GND
J15 VDD08_RFA_CMN0
K4 VDD08_RFA_CMN1
H18 VDD08_BTADDA_CH0
K14 VDD08_BTADDA_CH1
F18 VDD08_BTBB_CH0
G13 VDD08_BTBB_CH1
G15 VDD08_BTSYN_LO
D18 VDD08_WLBTRX2G_CH0
D10 VDD08_WLBTRX2G_CH1
E7 VDD08_WLRX5G_CH0
E4 VDD08_WLRX5G_CH1
F16 VDD08_WLSYN2G_LOGEN
H4 VDD08_WLSYN5G_LOGEN
F6 VDD08_WLLPSYN5G
G11 VDD12_RFA
K16 VDD12_BTPLL
H14 VDD12_BTSYN
G19 VDD12_BTTXBB_CH0
K10 VDD12_WLADDA_CH0
J3 VDD12_WLADDA_CH1
G7 VDD12_WLBB_CH0
H2 VDD12_WLBB_CH1
B20 VDD22_WLBTPPA_CH0
C11 VDD22_WLBTPPA_CH1
J11 VDD12_WLBBPLL
J6 VDD12_WLSYN_PLL
F12 VDD12_WLSYN2G_TXLO_CH1
H8 VDD12_WLSYN5G_TXLO_CH0
G1 VDD12_WLSYN5G_TXLO_CH1
C15 VDD12_WLTPC2G
D16 VDD17_WLBTPA_CH0
D14 VDD17_WLBTPA_CH1
D20 VDD17_WLBTPPA_CH0
E11 VDD17_WLBTPPA_CH1
F8 VDD17_WLTX5G_CH0
F2 VDD17_WLTX5G_CH1
H6 VDD17_WLSYN_VCO
F10 VDD17_RFA
K18 VDD17_XTAL
B16 VDD22_WLBTPA_CH0
B14 VDD22_WLBTPA_CH1
A7 VDD22_WLPA5G_CH0
A3 VDD22_WLPA5G_CH1
B10 VDD22_WLPPA5G_CH0
A1 VDD22_WLPPA5G_CH1
AMB0001889CX
GND_BTADDA_CH0 J17
GND_BTADDA_CH1 J13
GND_BTBB_CH0 G17
GND_BTBB_CH1 H12
GND_BTSYN H16
GND_WLRXGM2G_CH0 E17
GND_WLRXGM2G_CH1 E15
GND_WLRX5G_CH0 D8
GND_WLRX5G_CH1 E3
GND_WLXFMR5G_CH0 C7
GND_WLXFMR5G_CH1 C5
GND_WLTX5G_CH0 E9
GND_WLTX5G_CH1 D2
GND_WLADDA_CH0 J9
GND_WLADDA_CH1 J1
GND_WLBB_CH0 G9
GND_WLBB_CH1 G3
GND_WLBBPLL K12
GND_WLBTPA_CH0 A19
GND_WLBTPA_CH1 B12
GND_WLBTPPA_CH0 C19
GND_WLBTPPA_CH1 D12
GND_WLBTRX_CH0 C17
GND_WLBTRX_CH1 C13
GND_WLBTTX_CH0 E19
GND_WLBTTX_CH1 E13
GND_WLLPSYN5G E5
GND_WLPA5G_CH0 A9
GND_WLPA5G_CH1 C9
GND_WLPPA5G_CH0 C9
GND_WLPPA5G_CH1 C1
GND_WLSYN J7
GND_WLSYN2G_LOGEN F14
GND_WLSYN5G_LOGEN G5
GND_RFA_CMN0 L17
GND_RFA_CMN1 L5
GND_XTAL J19
GND_SR_0 L19
GND_SR_1 F20
GND_SR_2 A11
GND_SR_3 L3
GND_SR_TPC A15
GND_ISO_0 H10
GND_ISO_WALL_0 L15
GND_ISO_WALL_1 L11
GND_ISO_WALL_2 L7
GND_ISO_WALL_3 K6
GND_ISO_WALL_4 L3
ADC/DAC + BBPLL
GND_WLLPSYN5G
GND_XTAL
RF/BB: 2G,5G, BT
DIGITAL GND

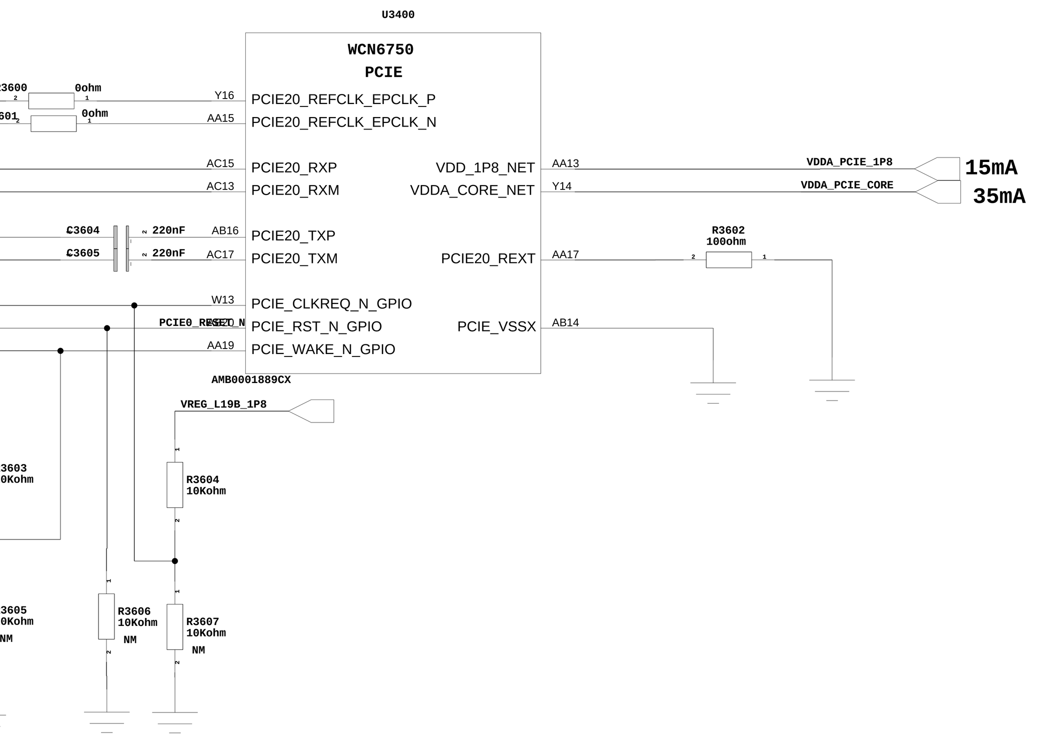


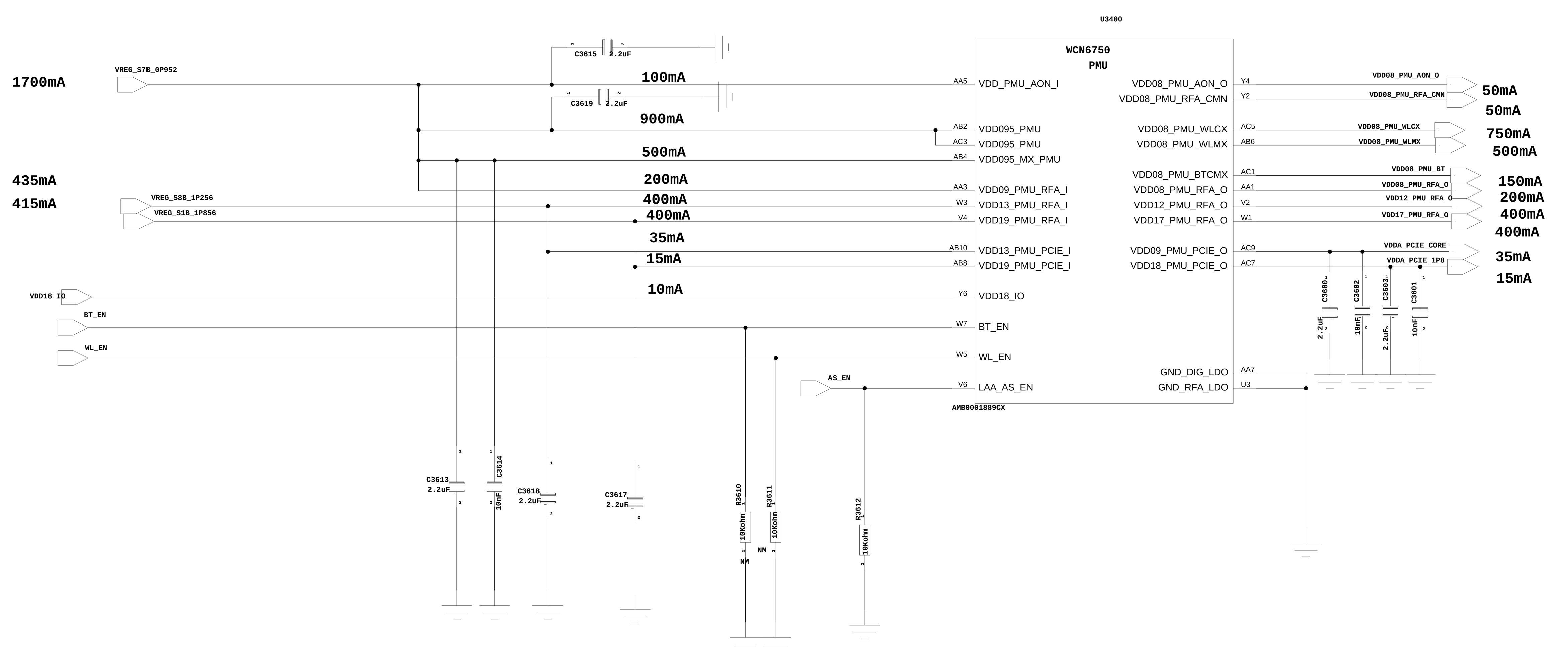


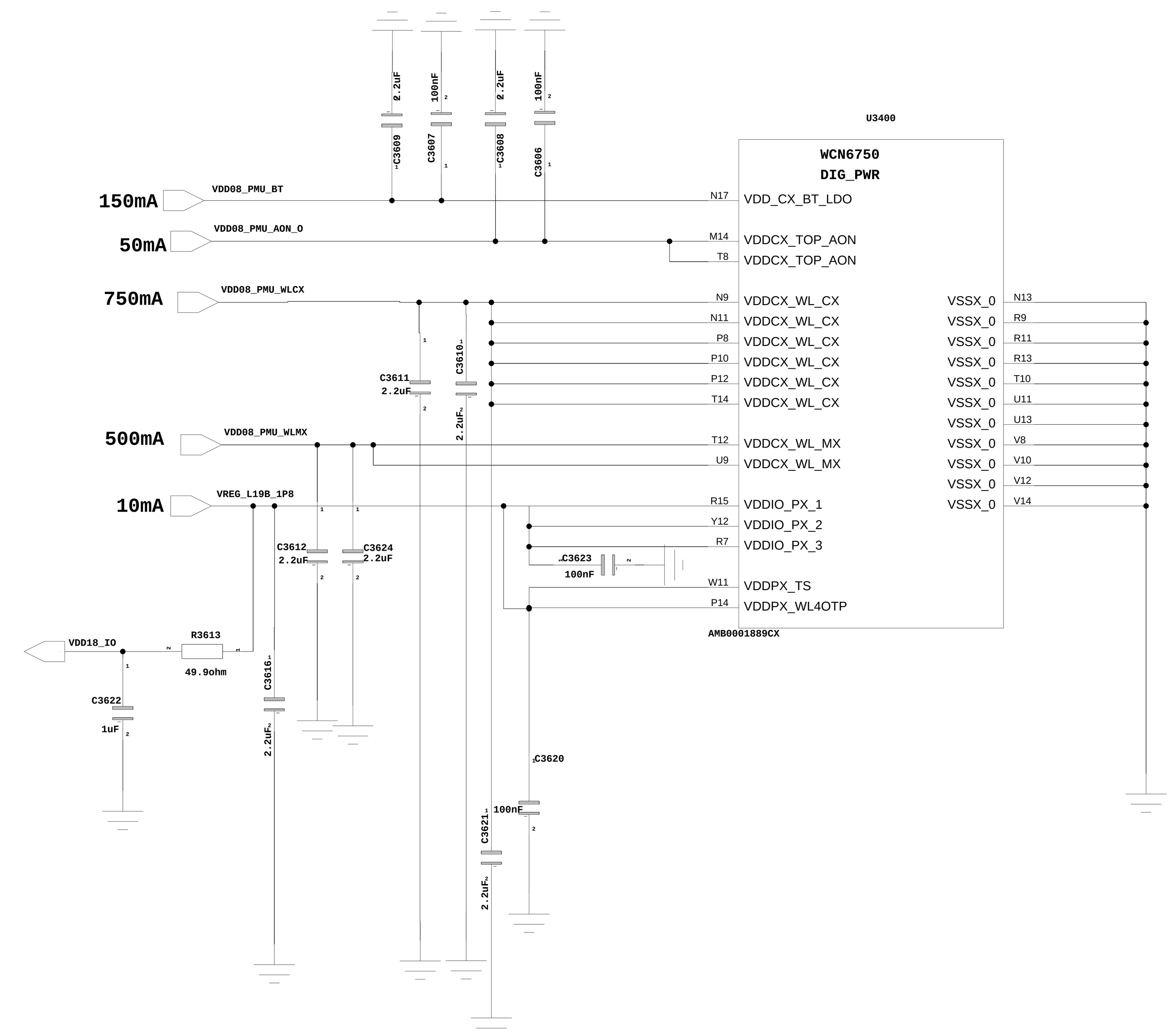




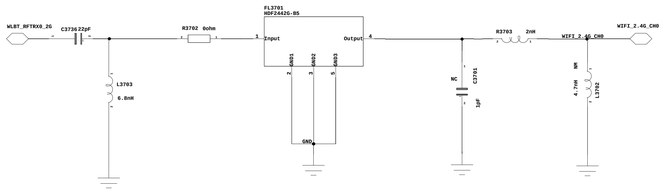
CLOCK CONFIGURATION 1) PMIC CLK TO WCN6750 XTALO R3504=R3502=R3503=NM 2)76.8MHZ XTAL TO WCN6750(CLK_CFG=1, CLK_SEL[0]=1, XO_TCXO_SEL=1) R3504=R3502=R3503=10K


U3400
WCN6750
PCIE
PCIE0_REFCLK_P
PCIE0_REFCLK_M
R3600
R3601
0ohm
0ohm
Y16
AA15
PCIE20_REFCLK_EPCLK_P
PCIE20_REFCLK_EPCLK_N
PCIE0_TX_AC_P
PCIE0_TX_AC_M
AC15
AC13
PCIE20_RXP
PCIE20_RXM
VDD_1P8_NET
VDDA_CORE_NET
AA13
Y14
VDDA_PCIE_1P8
VDDA_PCIE_CORE
15mA
35mA
PCIE0_RX_P
PCIE0_RX_M
C3604
C3605
220nF
220nF
AB16
AC17
PCIE20_TXP
PCIE20_TXM
PCIE20_REXT
AA17
R3602
100ohm
PCIE0_CLK_REQ_N
PCIE0_RESET_N
PCIE0_WAKE_N
W13
AA19
PCIE_CLKREQ_N_GPIO
PCIE_RST_N_GPIO
PCIE_WAKE_N_GPIO
PCIE_VSSX
AB14
AMB0001889CX
VREG_L19B_1P8
VREG_L19B_1P8
R3603
10Kohm
R3604
10Kohm
R3605
10Kohm
NM
R3606
10Kohm
NM
R3607
10Kohm
NM

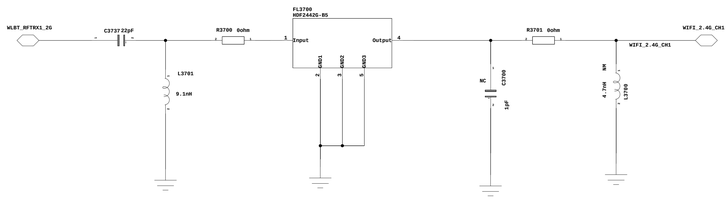

U3400
WCN6750
PMU
1700mA
VREG_S7B_0P952
C3615
2.2uF
C3619
2.2uF
100mA
900mA
500mA
200mA
400mA
400mA
35mA
15mA
10mA
435mA
415mA
VREG_S8B_1P256
VREG_S1B_1P856
VDD18_IO
BT_EN
WL_EN
AS_EN
AA5
AB2
AC3
AB4
AA3
W3
V4
AB10
AB8
Y6
W7
W5
V6
VDD_PMU_AON_I
VDD095_PMU
VDD095_PMU
VDD095_MX_PMU
VDD09_PMU_RFA_I
VDD13_PMU_RFA_I
VDD19_PMU_RFA_I
VDD13_PMU_PCIE_I
VDD19_PMU_PCIE_I
VDD18_IO
BT_EN
WL_EN
LAA_AS_EN
AMB0001889CX
VDD08_PMU_AON_O
VDD08_PMU_RFA_CMN
VDD08_PMU_WLCX
VDD08_PMU_WLMX
VDD08_PMU_BTCMX
VDD08_PMU_RFA_O
VDD12_PMU_RFA_O
VDD17_PMU_RFA_O
VDD09_PMU_PCIE_O
VDD18_PMU_PCIE_O
GND_DIG_LDO
GND_RFA_LDO
Y4
Y2
AC5
AB6
AC1
AA1
V2
W1
AC9
AC7
AA7
U3
VDD08_PMU_AON_O
VDD08_PMU_RFA_CMN
VDD08_PMU_WLCX
VDD08_PMU_WLMX
VDD08_PMU_BT
VDD08_PMU_RFA_O
VDD12_PMU_RFA_O
VDD17_PMU_RFA_O
VDDA_PCIE_CORE
VDDA_PCIE_1P8
50mA
50mA
750mA
500mA
150mA
200mA
400mA
400mA
35mA
15mA
C3600
2.2uF
C3602
10nF
C3603
2.2uF
C3601
10nF
C3613
2.2uF
C3614
10nF
C3618
2.2uF
C3617
2.2uF
R3610
10Kohm
NM
R3611
10Kohm
NM
R3612
10Kohm


U3400
WCN6750
DIG_PWR
2.2uF
C3609
100nF
C3607
2.2uF
C3608
100nF
C3606
150mA
VDD08_PMU_BT
50mA
VDD08_PMU_AON_O
750mA
VDD08_PMU_WLCX
C3611
2.2uF
C3610
2.2uF
500mA
VDD08_PMU_WLMX
10mA
VREG_L19B_1P8
C3612
2.2uF
C3624
2.2uF
C3623
100nF
VDD18_IO
R3613
49.9ohm
C3622
1uF
C3616
2.2uF
C3621
2.2uF
C3620
100nF
N17
M14
T8
N9
N11
P8
P10
P12
T14
T12
U9
R15
Y12
R7
W11
P14
VDD_CX_BT_LDO
VDDCX_TOP_AON
VDDCX_TOP_AON
VDDCX_WL_CX
VDDCX_WL_CX
VDDCX_WL_CX
VDDCX_WL_CX
VDDCX_WL_CX
VDDCX_WL_CX
VDDCX_WL_MX
VDDCX_WL_MX
VDDIO_PX_1
VDDIO_PX_2
VDDIO_PX_3
VDDPX_TS
VDDPX_WL4OTP
VSSX_0
N13
R9
R11
R13
T10
U11
U13
V8
V10
V12
V14
AMB0001889CX

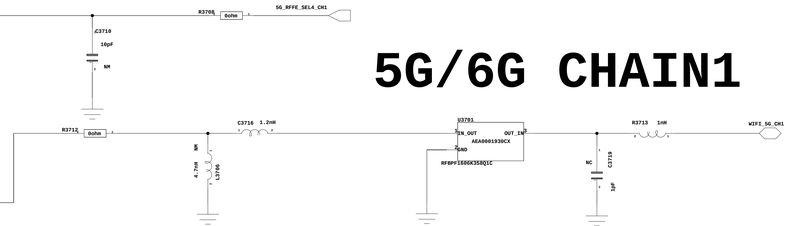
2.4G CHAIN0



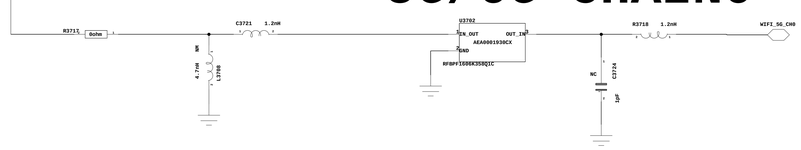
2.4G CHAIN1

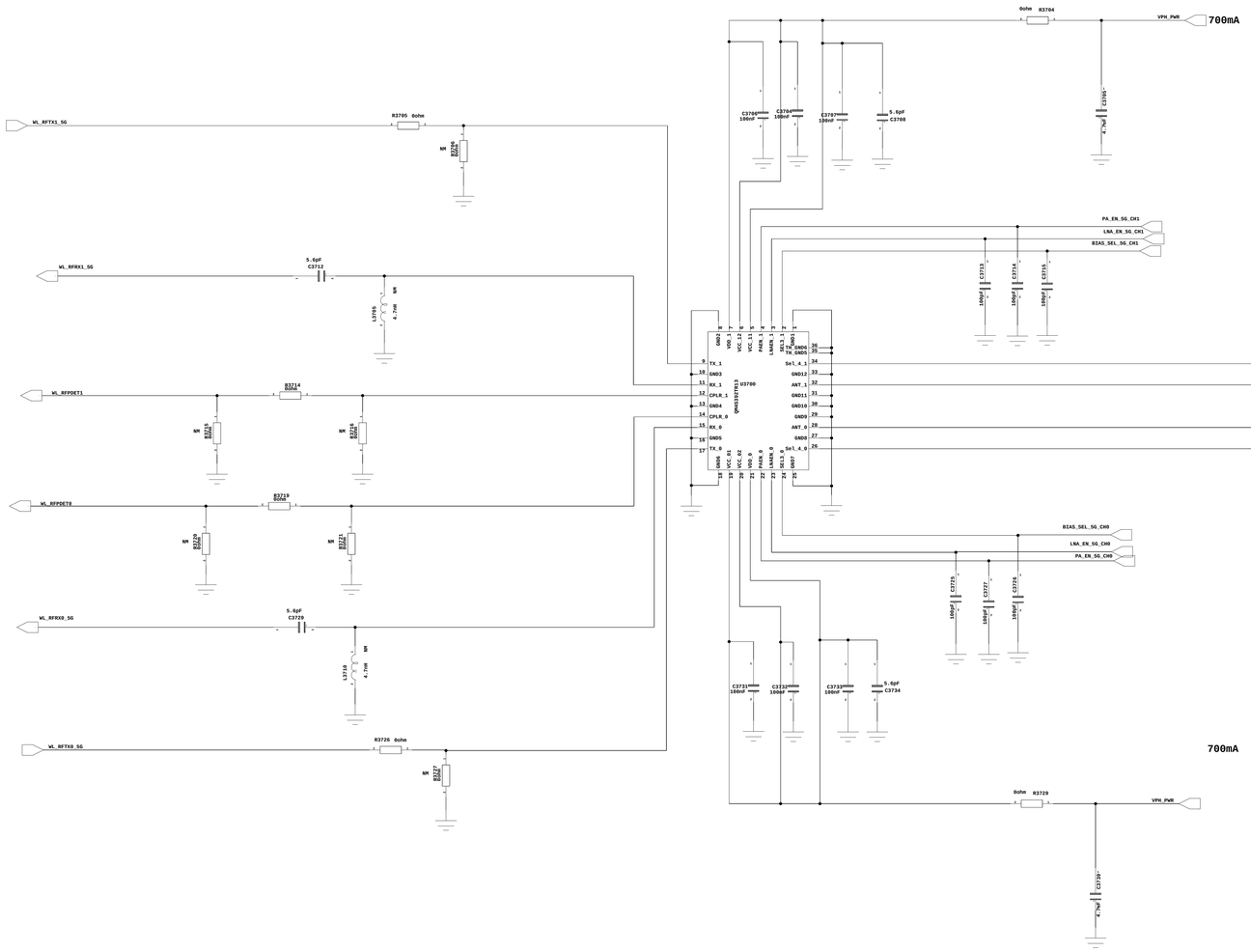


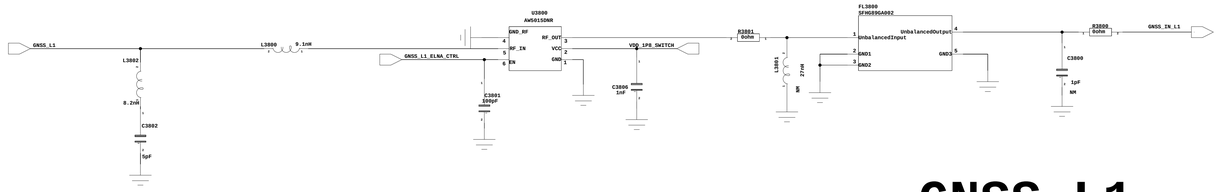
5G/6G CHAIN1



5G/6G CHAIN0





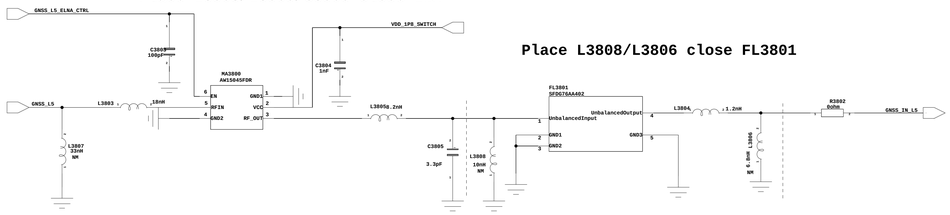


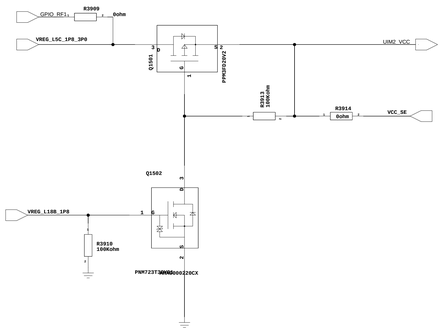
GNSS L1

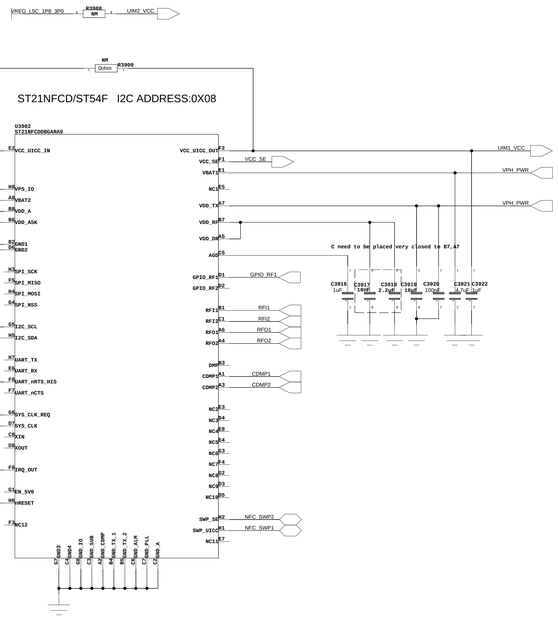
L5 GPS

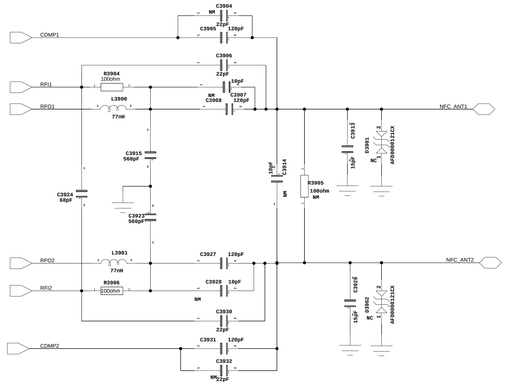
Place L3803/L3805/C3805 close LNA

Place L3808/L3806 close FL3801




GPIO_RF1
R3909
0ohm
VREG_L5C_1P8_3P0
Q1501
PMGFD2V2
UIM2_VCC
R3913
100Kohm
R3914
0ohm
VCC_SE
Q1502
VREG_L18B_1P8
R3910
100Kohm
PMF223T3000Q229CX


VREG_L5C_1P8_3P0
R3908
NM
UIM2_VCC
NM
R3909
0ohm
ST21NFCD/ST54F I2C ADDRESS:0X08
U3902
ST21NFCD006ARA9
VREG_L4C_1P8_3P0
VCC_UICC_IN
VCC_UICC_OUT
UIM1_VCC
VCC_SE
VBAT1
VPH_PWR
VREG_L18B_1P8
VPH_PWR
VPS_IO
VBAT2
VDD_A
VDD_ASK
VDD_TX
VDD_RF
VDD_DH
GND1
GND2
C3909 47pF
C3910 1000pF
C3911 2.2uF
C3912 1000pF
C need to be placed very closed to B7,A7
AGD
SPI_SCK
SPI_MISO
SPI_MOSI
SPI_NSS
GPIO_RF1
GPIO_RF2
C3916 1uF
C3917 10pF
C3919 2.2pF
C3918 10pF
C3920 10pF
C3921 1uF
C3922 1uF
NFC_I2C_SCL
NFC_I2C_SDA
I2C_SCL
I2C_SDA
RF1I
RF1I
RF2I
RF2I
RFO1
RFO1
RFO2
RFO2
DHP
COMP1
COMP2
CDMP1
CDMP2
NC3
NC4
NC8
NC14
NC13
NC2
NC9
NC10
NC11
NC15
NC16
NC17
NC12
UART_TX
UART_RX
UART_nRTS_HIS
UART_nCTS
C3924 NM 27pF
C3925 NM 27pF
NFC_CLK_REQ
LN_BB_CLK2
R3907
0ohm
SYS_CLK_REQ
SYS_CLK
CLIN
CLOUT
TP3901
NFC_INT
INT_OUT
NFC_nRESET
EN_SVB
nRESET
SWP_SE
SWP_SWIO
NFC_SWP2
NFC_SWP1
C3903 NM
C3904 NM
C3905 NM
C3906 NM
C3907 NM
C3908 NM
C3909 NM
C3910 NM
C3911 NM
C3912 NM


C3904
NM
22pF
C3905
120pF
C3906
22pF
CDMP1
R3904
100ohm
18pF
RFI1
L3900
77nH
NM
C3908
C3907
120pF
RFO1
NFC_ANT1
C3915
560pF
C3913
10pF
C3909
10pF
NC
SYZ160808A20
C3902
68pF
C3923
560pF
18pF
C3914
NM
R3905
100ohm
NM
RFO2
L3901
77nH
C3927
120pF
NFC_ANT2
RFI2
R3906
0.000ohm
C3928
18pF
NM
C3930
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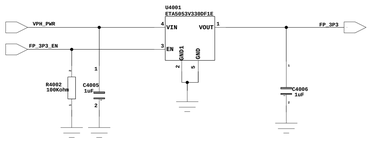
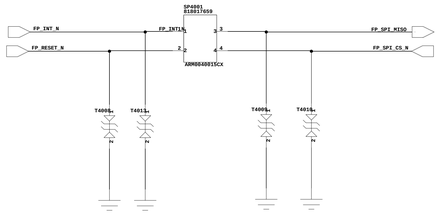
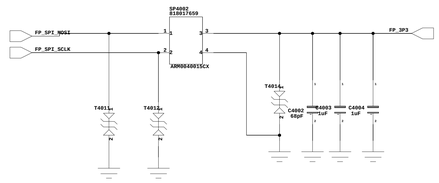
C3931
120pF
CDMP2
NC
C3932
22pF
C3910
10pF
NC
SYZ160808A20

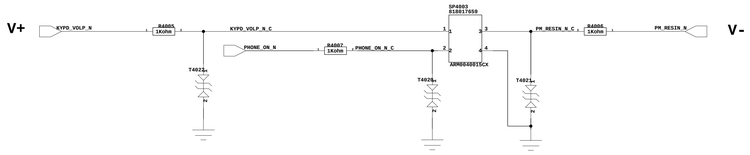


FP

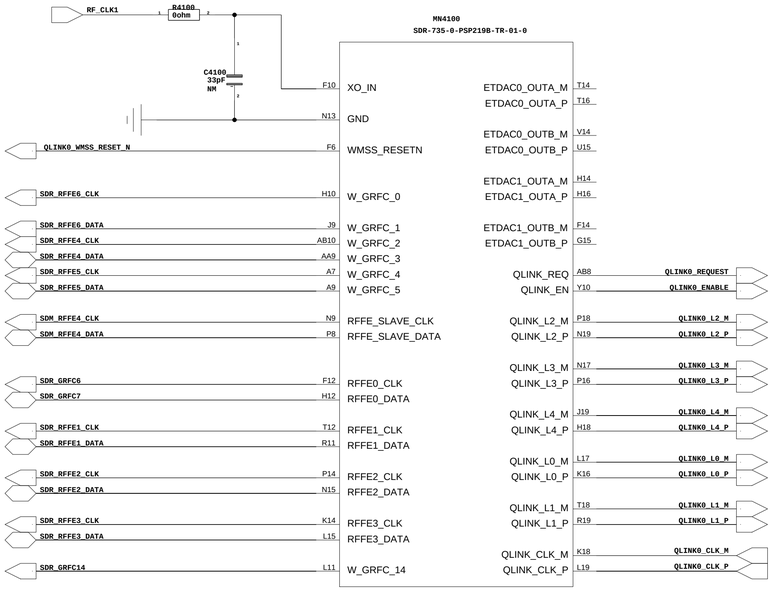


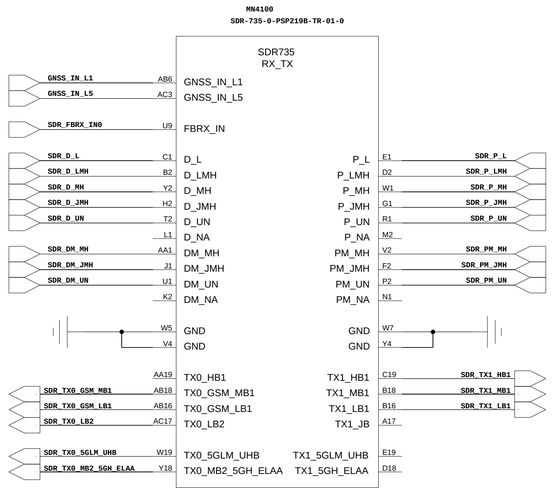


sidekey BTB



SDR735 CONTROL





SDR735 POWER

MN4100
AMR0000113CX

SDR735
PWR

L13	VDD_CX	VDDAM_RX_E	A5
M14	VDD_CX	VDDAM_RX_C	P6
K12	VDD_MX	VDDAM_RX_D	H6
M12	VDDMX_TX	VDDAM_RX_A	B10
M18	VDD_PHY	VDDAM_RX_B	AC9
P12	VDD_PX		
N11	VDD_PXM	VDDAM_FBRX	T10
Y8	GND	VDDAM_RX0	U5
		VDDAM_RX1	L5
		VDDAM_RX2	E5
K10	VDDAL_DIG0		
A11	VDDAL_DIG_1	VDDAM_RX_0	A3
AC11	VDDAL_DIG_2	VDDAM_RX_1	AB2
E9	VDDAL_DIG_XO		
		VDDAM_TX0_1	AB12
AA5	VDDAL_GPS_L1	VDDAM_TX1_1	B12
AB4	VDDAL_GPS_L5		
		VDDAM_TX0	AB14
N7	VDDAL_ICON	VDDAM_TX1	B14
		VDDAM_XO	D10
U7	VDDAL_RX0		
L7	VDDAL_RX1	VDDAH_0	AC7
E7	VDDAL_RX2		
		VDDAH_FBRX	U11
B6	VDDAL_RX	VDDAH_1	L9
AC13	VDDAL_TX0_1		
A13	VDDAL_TX1_1	VDDAH_TX0	V18
		VDDAH_TX1	F18
AC15	VDDAL_TX0	VDDAH_TX0_1	U13
A15	VDDAL_TX1	VDDAH_TX1_1	G13

VREG_L15B_0P88V — E4100 — VDD_PHY_MX_0P875V

VREG_L19B_1P8 — E4101 — VDD_PX_1P8V; E4103 — VDD_VIO_1P8V

VREG_L11C_2P8 — E4106 — LDO_2P8V_SWITCH

VREG_L13B_1P776V — E4102 — VDD_AH_1P8; E4104 — VDD_ANA_1P7; E4105 — VDD_1P8_SWITCH

VREG_L13B_0P88V 681mA — C4200 4.7uF, C4201 100nF

VDD_PHY_MX_0P875V 152mA — C4202 4.7uF

VDD_PX_1P8V 251mA — C4203 4.7uF, C4204 100nF; C4205 100nF; C4206 100nF

VREG_L12B_0P88V 645mA — C4218 4.7uF; C4219 100nF, C4220 100nF, C4221 100nF; C4225 100nF

VREG_L11B_1P776V — C4213 100nF, C4214 100nF, C4215 100nF; C4216 100nF, C4217 100nF, C4218 100nF; C4222 100nF, C4223 100nF, C4224 100nF

VREG_L14B_1P2V 1310mA — 0ohm 84201 — VDD_ANA_1P2V; C4208 4.7uF

C4209 100nF, C4210 100nF, C4211 100nF, C4212 100nF, C4213 100nF, C4214 100nF; C4216 100nF, C4217 100nF

C4226 100nF, C4227 100nF, C4228 100nF, C4229 100nF, C4230 100nF

VDD_AH_1P8 180mA — C4233 4.7uF

C4242 100nF, C4243 100nF, C4244 100nF, C4245 100nF

C4231 100nF, C4232 100nF, C4234 100nF; C4235 100nF, C4236 100nF, C4241 100nF

MN4100
SDR-735-0-PSP210B-TR-01-0

SDR735
GND1

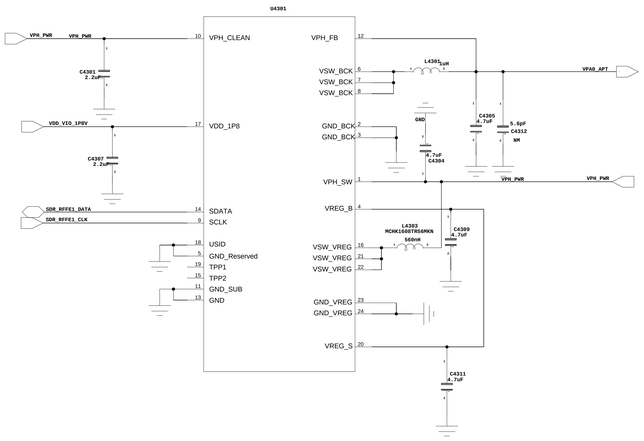
G9	GND	GND	C9
G11	GND	GND	H8
		GND	T8
		GND	W9
V16	GND		
F16	GND	GND	E11
		GND	J13
F8	GND	GND	J17
		GND	M16
		GND	P10
A1	GND	GND	R17
A19	GND		
AC1	GND	GND	V12
AC19	GND	GND	W11
		GND	AA7
R7	GND		
J7	GND	GND	M10
C7	GND		
AA11	GND	GND	J11
C11	GND	GND	J15
		GND	R15
K6	GND	GND	R13
D6	GND		
		GND	U17
Y6	GND	GND	G17
AA3	GND		
		GND	M8
		GND	R5
D12	GND	GND	W13
		GND	J5
		GND	C5
		GND	E13

MN4100
SDR-735-0-PSP210B-TR-01-0

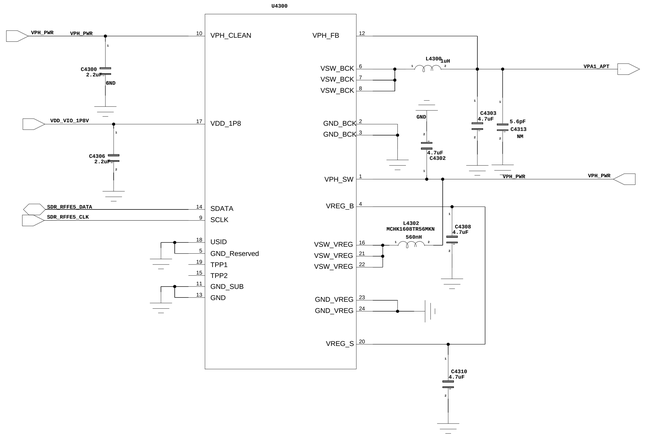
SDR735
GND2

R9	GND	GND	C3
		GND	E3
B4	GND	GND	T4
AA13	GND	GND	K4
N3	GND	GND	D4
W3	GND		
U15	GND	GND	G3
G19	GND	GND	H4
AC5	GND		
B8	GND	GND	F4
		GND	G5
V10	GND	GND	R3
		GND	U3
K8	GND		
V8	GND	GND	J3
		GND	L3
AA17	GND	GND	M4
Y16	GND	GND	P4
C17	GND		
D16	GND	GND	T6
		GND	Y12
W15	GND		
E15	GND	GND	C15
AA15	GND		
D8	GND		
N5	GND	GND	C13
V5	GND		
G7	GND		
M6	GND		
W17	GND		
Y14	GND		
D14	GND		
E17	GND		

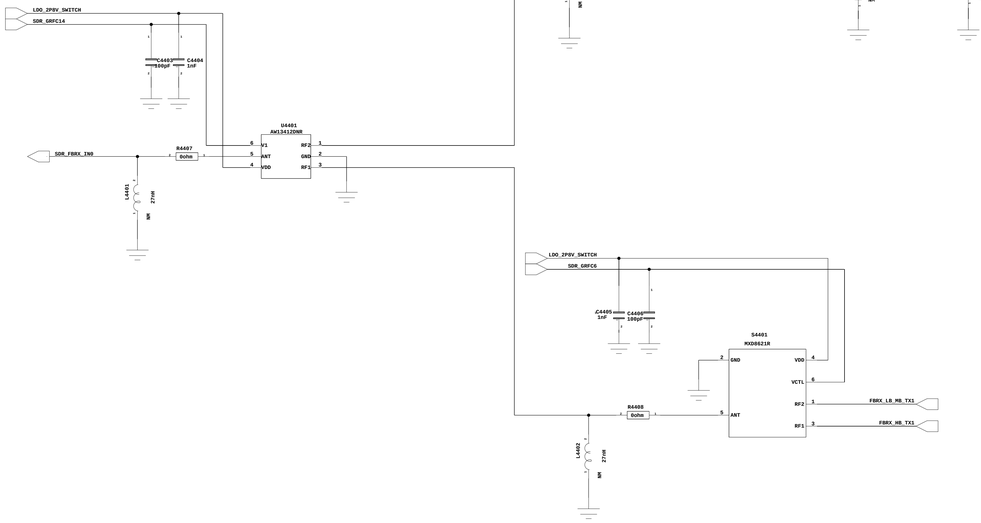
QET6105 0#



QET6105 1#

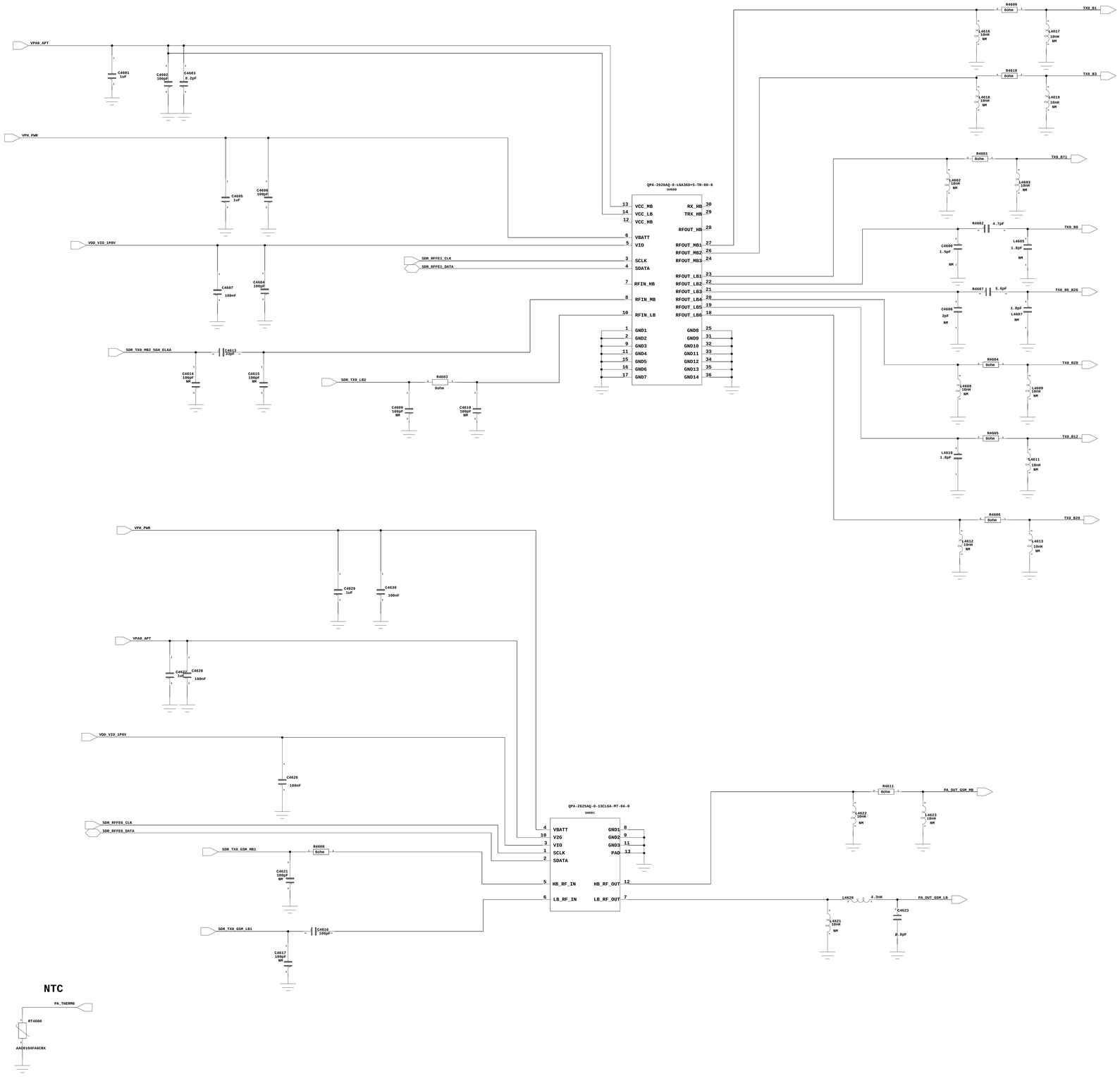


FBRX SWITCH


LDO_2P8V_SWITCH
SDR_GRFC14
C4403 100pF
C4404 1nF
U4401
AW13412DNR
SDR_FBRX_IN0
R4407 0ohm
L4401 27nH NM
LDO_2P8V_SWITCH
SDR_GRFC7
C4401 100pF
C4402 100pF
S4400
MX86621R
GND
VDD
VCTL
RF2
ANT
RF1
R4409 0ohm
L4400 27nH NM
R4402 0ohm
R4405 300ohm NM
R4404 300ohm NM
FBRX_LB_MB_TX0
FBRX_N78_TX0
LDO_2P8V_SWITCH
SDR_GRFC6
C4405 1nF
C4406 100pF
S4401
MX86621R
R4408 0ohm
L4402 27nH NM
FBRX_LB_MB_TX1
FBRX_MB_TX1

N41-SRS

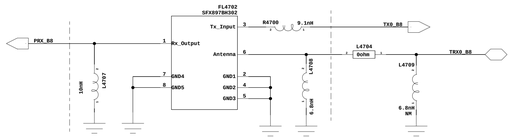
LDO_2P0V_SWITCH
VDD_VIO_1P0V
SDR_RFFE1_DATA
SDR_RFFE1_CLK
MA4509
MX805A8F
VDD
VIO
SDATA
SCLK
ANT
GND1
GND2
GND3
GND4
TM_GND
RF1
RF2
RF3
RF4
RF5
RF6
RF7
RF8
RF9
RF10
NC
TRX0_B28
TRX0_B5_B26
TRX0_B8
PA_OUT_GSM_LB
TRX0_B71
TRX1_B28A
TRX1_B28B
TRX1_B8
TRX0_B20
TRX0_B12
ANT_LB_TRX0
R4502 0ohm
L4501 10nH NM
C4505 0.8pF NM
FL4508 SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
R4503 0ohm
R4504 0ohm
L4509 22nH NM
FL4501 B9PAPLP1855050DS1T3
OUTPUT
GND1
GND2
INPUT
12nH
R4505 0ohm
C4504 0.5pF
C4502 100pF
C4501 1nF
C4500 10pF NM
C4503 10pF NM
R4506 300ohm NM
R4507 0ohm
R4509 300ohm NM
R4508 300ohm NM
ANT_MB_TRX0
R4510 0ohm
L4502 10nH NM
FL4502 SLCP18-2R700G-01T
TRX0_B1_B3
TR30_B1_B3
R4511 0ohm
L4503 2.7nH
L4504 2.7nH
FBRX_LB_MB_TX0
R4513 300ohm NM
R4512 300ohm NM
0.8nH L4505
C4506 0.75pF
LDO_2P0V_SWITCH
SDM_GRFC2
SDM_GRFC3
100pF C4508
100pF C4516
100pF C4517
MA4501
MX08648
VDD
VC1
VC2
ANT
GND
RF1
RF2
RF3
RF4
50 ohm
50 ohm
50 ohm
50 ohm
TRX1_B4_B66
TRX1_B2_B25
TRX1_B1_B3
L4510 1nH
L4514 22nH NM
FL4504 RFLPF1005150DAT
OUT
IN
GND_2
GND_1
PA_OUT_GSM_MB
ANT_MB_TRX1
R4514 0ohm
L4509 10nH NM
C4509 0.8pF NM
FBRX_LB_TX1
FL4503 SLCP18-2R700G-01T
R4515 0ohm
L4507 22nH NM
L4508 2.2nH NM
R4516 0ohm
R4518 300ohm NM
L4511 2.7nH
L4512 2.7nH
FBRX_LB_MB_TX1
R4517 300ohm NM
0.8nH L4513
C4510 0.75pF
ANT_MB_TRX1
R4519 0ohm
L4517 10nH NM
C4514 0.8pF NM
VDD_VIO_1P8V
C4520 100pF
N41_SRS_DRX
N41_SRS_PRXMIMO
N41_SRS_DRXMIMO
0ohm R4532
0ohm R4533
0ohm R4531
L4519 10nH
L4520 10nH
C4521 22nH NM
MX20645HA4504
RF1
RF2
RF3
RF4
GND1
VIO
SDATA
SCLK
ANT
SDR_RFFE5_DATA
SDR_RFFE5_CLK
FL4505 SLCP18-2R700G-01T
R4521 300ohm NM
0ohm R4529
L4515 22nH NM
L4516 22nH NM
R4522 0ohm
R4524 300ohm NM
R4523 300ohm NM
FBRX_MB_TX1
MA4503
QM32114
RFCOM
GND
VDD_VIO_1P8V
SDM_RFFE5_DATA
SDM_RFFE5_CLK
C4511 1nF
C4512 10pF NM
C4513 10pF NM
TRX1_B40
TRX1_B41
TRX1_B7
ANT_LB_TRX1
R4525 0ohm
L4518 10nH NM
C4515 0.8pF NM
FL4506 SLCP18-2R700G-01T
R4526 300ohm NM
TRX1_LB
R4527 0ohm
R4529 300ohm NM
R4528 300ohm NM
FBRX_LB_TX1


QPA-2926AQ-0-L6A36D+S-TR-00-0
U4600
VCC_MB
VCC_LB
VCC_HB
VBATT
VIO
SCLK
SDATA
RFIN_HB
RFIN_MB
RFIN_LB
GND1
GND2
GND3
GND4
GND5
GND6
GND7
RX_HB
TRX_HB
RFOUT_HB
RFOUT_MB1
RFOUT_MB2
RFOUT_MB3
RFOUT_LB1
RFOUT_LB2
RFOUT_LB3
RFOUT_LB4
RFOUT_LB5
RFOUT_LB6
GND8
GND9
GND10
GND11
GND12
GND13
GND14
VPA0_APT
VPH_PWR
VDD_VIO_1P8V
SDR_RFFE1_CLK
SDR_RFFE1_DATA
SDR_TX0_MB2_SDH_ELAA
SDR_TX0_LB2
C4601 1uF
C4602 100pF
C4603 0.2pF
C4605 1uF
C4606 100pF
C4607 100nF
C4604 100pF
C4613 33pF
C4614 100pF NM
C4615 100pF NM
R4603 0ohm
C4609 100pF NM
C4610 100pF NM
R4600 0ohm
R4610 0ohm
R4601 0ohm
R4602 4.7pF
R4607 5.6pF
R4604 0ohm
R4605 0ohm
R4606 0ohm
L4616 10nH NM
L4617 10nH NM
L4618 10nH NM
L4619 10nH NM
L4602 10nH NM
L4603 10nH NM
C4600 1.5pF NM
L4605 1.8pF NM
C4608 2pF NM
L4607 NM
L4608 10nH NM
L4609 10nH NM
L4610 1.8pF
L4611 10nH NM
L4612 10nH NM
L4613 10nH NM
TX0_B1
TX0_B3
TX0_B71
TX0_B8
TX0_B5_B26
TX0_B26
TX0_B12
TX0_B20
VPH_PWR
VPA0_APT
VDD_VIO_1P8V
SDR_RFFE6_CLK
SDR_RFFE6_DATA
SDR_TX0_GSM_MB1
SDR_TX0_GSM_LB1
C4629 1uF
C4630 100nF
C4627 1uF
C4628 100nF
C4626 100nF
C4621 100pF NM
C4616 100pF
C4617 100pF NM
R4608 0ohm
QPA-2625AQ-0-13CLGA-MT-04-0
U4601
VBATT
V2G
VIO
SCLK
SDATA
HB_RF_IN
LB_RF_IN
GND1
GND2
GND3
PAD
HB_RF_OUT
LB_RF_OUT
R4611 0ohm
L4622 10nH NM
L4623 10nH NM
L4620 4.3nH
L4621 10nH NM
C4623 0.8pF
PA_OUT_GSM_MB
PA_OUT_GSM_LB

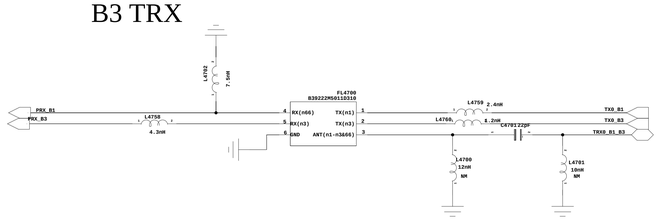
NTC

PA_THERMO
RT4600
AAC0104FA6CBX

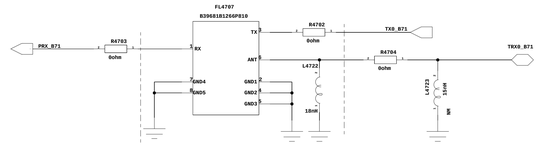
B8 TRX



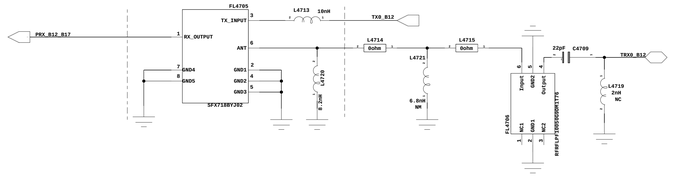
B1 TRX
B3 TRX



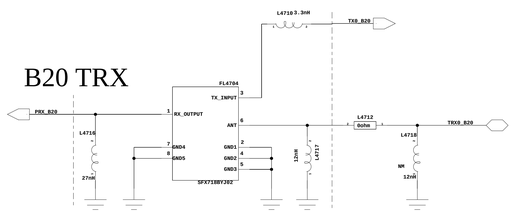
B71 TRX



B12 TRX

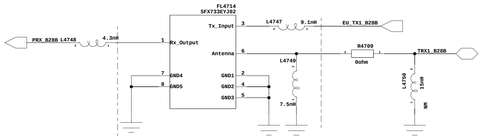


B20 TRX

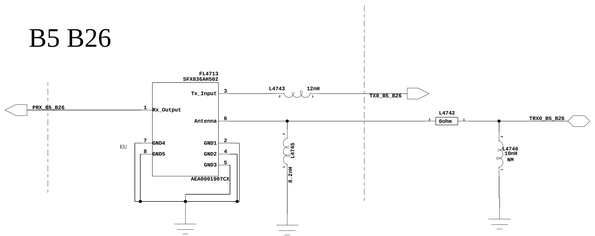


B28B TRX1

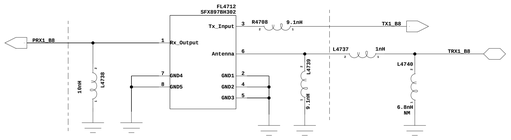
EU:SFX733EYJ02



B5 B26



B8 TRX1



B28A TRX1

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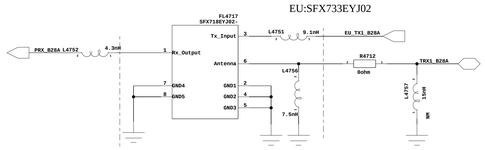
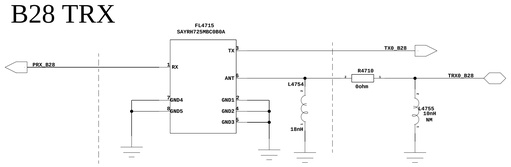
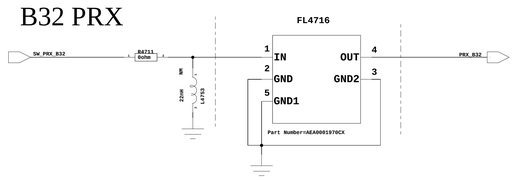


B28 TRX



B32 PRX



B41 TRX

B40 TRX

B7 TRX

B1/66 TRX

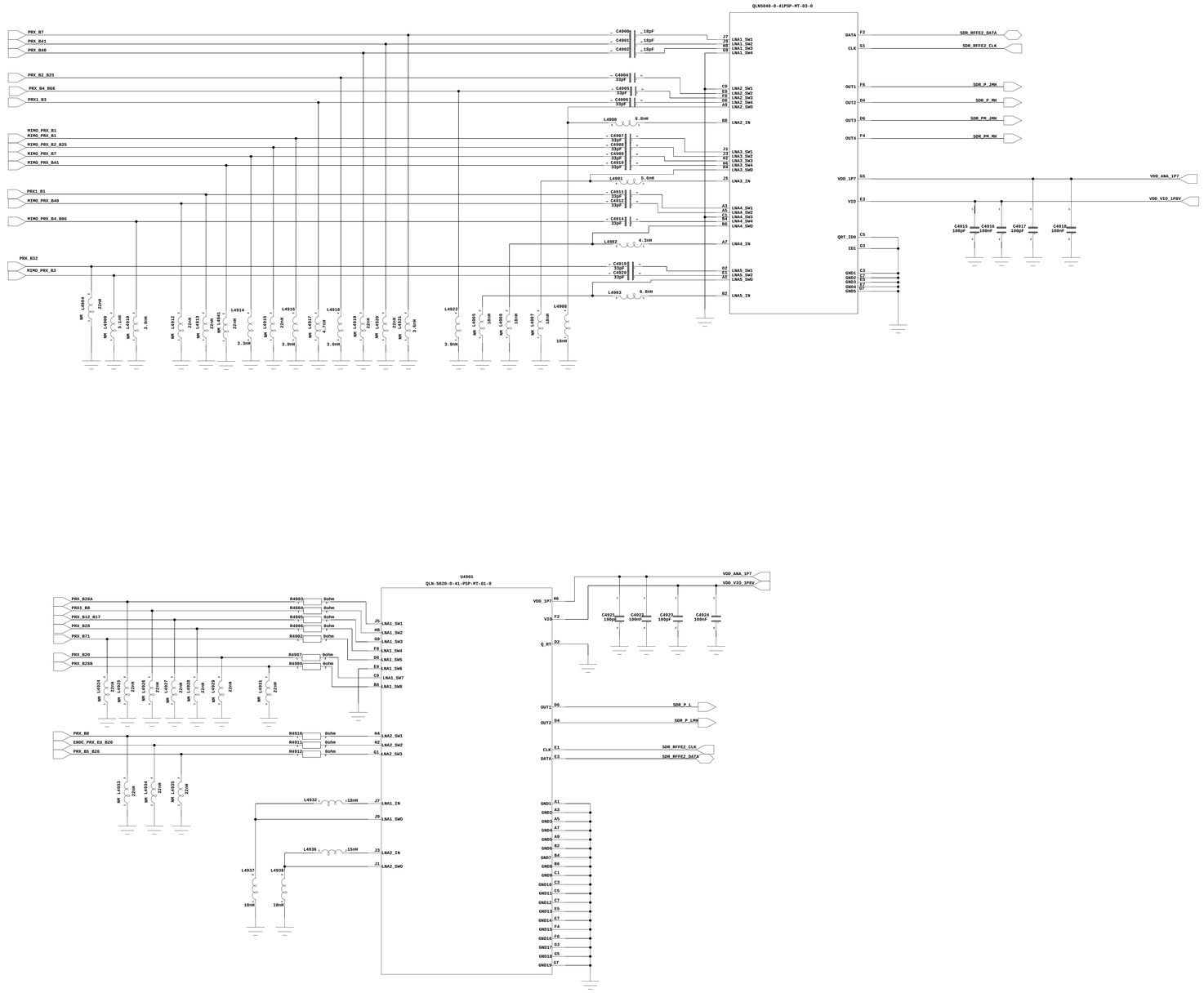
B3 TRX

B1

B4/66 TRX

B2/25 TRX

ENDC_EU_B20


U4900
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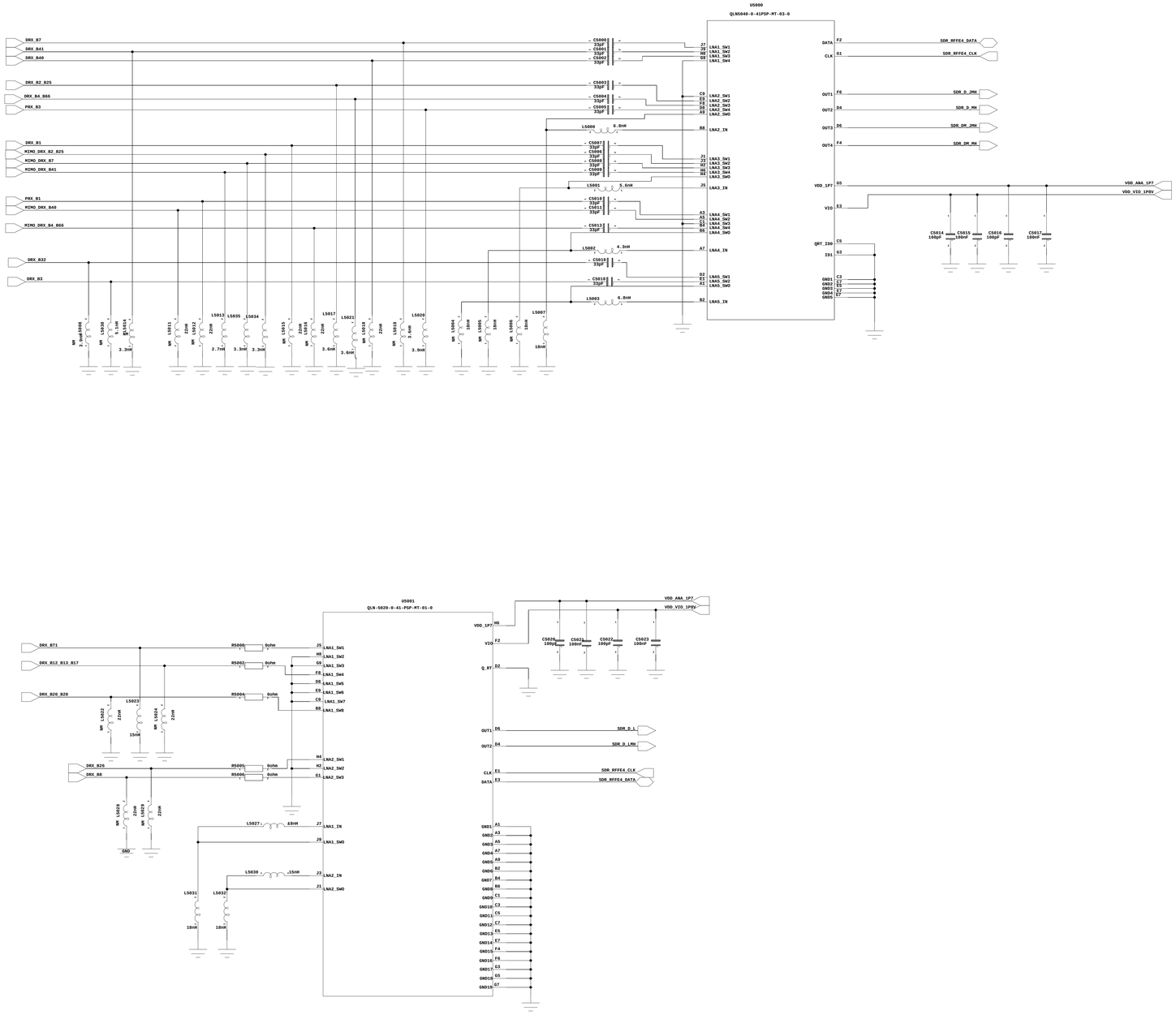
PRX_B7
PRX_B41
PRX_B40
PRX_B2_B25
PRX_B4_B66
PRX1_B3
MIMO_PRX_B1
MIMO_PRX_B1
MIMO_PRX_B2_B25
MIMO_PRX_B7
MIMO_PRX_B41
PRX1_B1
MIMO_PRX_B40
MIMO_PRX_B4_B66
PRX_B32
MIMO_PRX_B3
C4900 18pF
C4901 18pF
C4902 18pF
C4904 33pF
C4905 33pF
C4906 33pF
L4900 6.8nH
C4907 33pF
C4908 33pF
C4909 33pF
C4910 33pF
L4901 5.6nH
C4911 33pF
C4912 33pF
C4914 33pF
L4902 4.3nH
C4919 33pF
C4920 33pF
L4903 6.8nH
L4904 22nH
L4909 4.3nH
L4910 3.9nH
L4912 22nH
L4913 22nH
L4914 22nH 3.3nH
L4915 22nH
L4916 22nH 3.9nH
L4917 4.7nH
L4918 3.6nH
L4919 22nH
L4920 22nH
L4921 22nH
L4923 3.9nH
L4906 18nH
L4907 18nH
L4908 18nH
J7 LNA1_SW1
J8 LNA1_SW2
H8 LNA1_SW3
G8 LNA1_SW4
C9 LNA2_SW1
E9 LNA2_SW2
F8 LNA2_SW3
A9 LNA2_SW4
A8 LNA2_SW5
B8 LNA2_IN
J1 LNA3_SW1
H1 LNA3_SW2
F1 LNA3_SW3
E1 LNA3_SW4
C1 LNA3_SW5
J5 LNA3_IN
A2 LNA4_SW1
A3 LNA4_SW2
B3 LNA4_SW3
B1 LNA4_SW4
B4 LNA4_SW5
A1 LNA4_SW6
A7 LNA4_IN
D2 LNA5_SW1
E1 LNA5_SW2
A1 LNA5_SW3
B2 LNA5_IN
DATA F2
CLK G1
OUT1 F6
OUT2 D4
OUT3 B6
OUT4 F4
VDD_IP7 E5
VDD E3
QRT_IDO C5
ID1 E3
GND1 C3
GND2 E7
GND3 F5
GND4 E7
GND5 G7
SDR_RFFE2_DATA
SDR_RFFE2_CLK
SDR_P_JMN
SDR_P_MH
SDR_PM_JMN
SDR_PM_MH
VDD_ANA_1P7
VDD_VIO_1P8V
C4915 100pF
C4916 100pF
C4917 100pF
C4918 100pF
R4903 0ohm
R4904 0ohm
R4905 0ohm
R4906 0ohm
R4902 0ohm
R4907 0ohm
R4909 0ohm
L4924 22nH
L4925 22nH
L4926 22nH
L4927 22nH
L4928 22nH
L4929 22nH
L4931 22nH
J5 LNA1_SW1
H8 LNA1_SW2
G8 LNA1_SW3
F8 LNA1_SW4
D8 LNA1_SW5
E9 LNA1_SW6
C9 LNA1_SW7
B8 LNA1_SW8
R4910 0ohm
R4911 0ohm
R4912 0ohm
L4933 22nH
L4934 22nH
L4935 22nH
L4932 18nH
L4936 15nH
L4937 18nH
L4938 18nH
H4 LNA2_SW1
H2 LNA2_SW2
G1 LNA2_SW3
J7 LNA1_IN
J9 LNA1_SW0
J3 LNA2_IN
J1 LNA2_SW0
U4901
QLN-SG20-0-41-PSP-MT-01-0
VDD_1P7 H6
VIO F2
Q_RT D2
OUT1 D6
OUT2 D4
CLK E1
DATA E3
GND1 A1
GND2 A3
GND3 A5
GND4 A7
GND5 A9
GND6 B2
GND7 B4
GND8 B6
GND9 C1
GND10 C3
GND11 C5
GND12 C7
GND13 E5
GND14 E7
GND15 F4
GND16 F6
GND17 G3
GND18 G5
GND19 G7
C4921 100pF
C4922 100pF
C4923 100pF
C4924 100pF
SDR_P_L
SDR_P_LMH
SDR_RFFE2_CLK
SDR_RFFE2_DATA
VDD_ANA_1P7
VDD_VIO_1P8V


U5000
QLN5040-0-41PSP-MT-03-0
U5001
QLN-5020-0-41-PSP-MT-01-0
D0X_B7
D0X_B41
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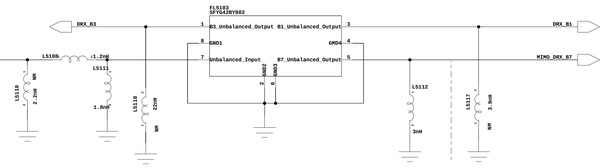
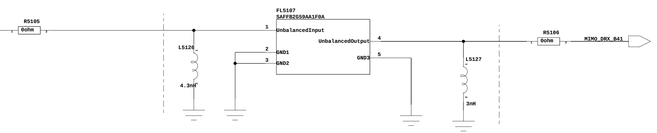
D0X_B2_B25
D0X_B4_B66
PRX_B3
D0X_B1
MIMO_D0X_B2_B25
MIMO_D0X_B7
MIMO_D0X_B41
PRX_B1
MIMO_D0X_B40
MIMO_D0X_B4_B66
D0X_B32
D0X_B3
D0X_B71
D0X_B12_B13_B17
D0X_B20_B28
D0X_B26
D0X_B8
C5000 33pF
C5001 33pF
C5002 33pF
C5003 33pF
C5004 33pF
C5005 33pF
C5007 33pF
C5008 33pF
C5009 33pF
C5010 33pF
C5011 33pF
C5013 33pF
C5018 33pF
C5019 33pF
LS000 0.8nH
LS001 5.6nH
LS002 4.3nH
LS003 0.8nH
LS007 18nH
LS011 7.5nH
LS012 22nH
LS013 2.7nH
LS014 3.3nH
LS015 7.5nH
LS016 22nH
LS017 3.6nH
LS018 22nH
LS019 3.6nH
LS020 3.9nH
LS021 22nH
LS028 22nH
LS029 22nH
LS030 15nH
LS031 18nH
LS032 18nH
LS033 22nH
LS034 3.3nH
LS035 3.3nH
LS004 18nH
LS005 18nH
LS006 18nH
R5000 0ohm
R5002 0ohm
R5004 0ohm
R5005 0ohm
R5006 0ohm
J7 LNA1_SW1
J9 LNA1_SW2
H8 LNA1_SW3
G9 LNA1_SW4
F8 LNA1_SW5
D8 LNA1_SW6
C9 LNA1_SW7
B8 LNA1_SW8
C8 LNA2_SW1
E8 LNA2_SW2
D9 LNA2_SW3
A9 LNA2_SW4
A8 LNA2_SW5
B8 LNA2_IN
J1 LNA3_SW1
H2 LNA3_SW2
G1 LNA3_SW3
E1 LNA3_SW4
D1 LNA3_SW5
J5 LNA3_IN
A3 LNA4_SW1
A2 LNA4_SW2
B3 LNA4_SW3
B4 LNA4_SW4
B6 LNA4_SW5
A7 LNA4_IN
D2 LNA5_SW1
A1 LNA5_SW2
LNA5_SW3
B2 LNA5_IN
H4 LNA2_SW1
H2 LNA2_SW2
G1 LNA2_SW3
J7 LNA1_IN
J9 LNA1_SW3
J3 LNA2_IN
J1 LNA2_SW3
DATA F2
CLK G1
OUT1 F8
OUT2 D4
OUT3 D6
OUT4 F4
VDD_1P7 G5
VIO E3
QRT_ID0 C5
ID1 G3
GND1 C3
GND2 C7
GND3 E3
GND4 E7
GND5 G7
SDR_RFFE4_DATA
SDR_RFFE4_CLK
SDR_D_2MH
SDR_D_MH
SDR_DM_2MH
SDR_DM_MH
VDD_ANA_1P7
VDD_VIO_1P8V
C5014 100pF
C5015 100nF
C5016 100pF
C5017 100nF
C5020 100pF
C5021 100nF
C5022 100pF
C5023 100nF
VDD_1P7 H6
VIO F2
Q_R7 D2
OUT1 D6
OUT2 D4
CLK E1
DATA E3
SDR_D_L
SDR_D_LMH
SDR_RFFE4_CLK
SDR_RFFE4_DATA
GND1 A1
GND2 A3
GND3 A5
GND4 A7
GND5 A9
GND6 B2
GND7 B4
GND8 B6
GND9 C1
GND10 C3
GND11 C5
GND12 C7
GND13 E5
GND14 E7
GND15 F4
GND16 F6
GND17 G3
GND18 G5
GND19 G7
GND

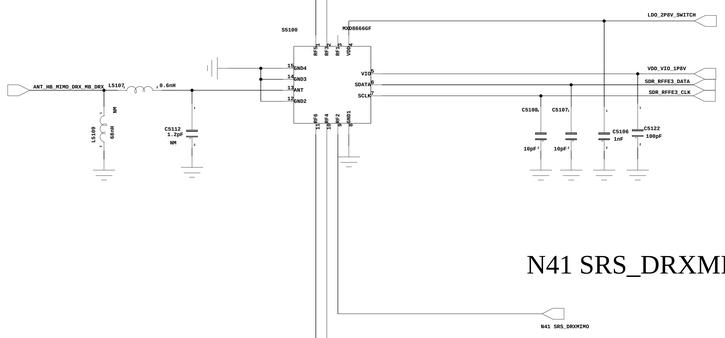
MIMO DRX B7_DRX_1_3



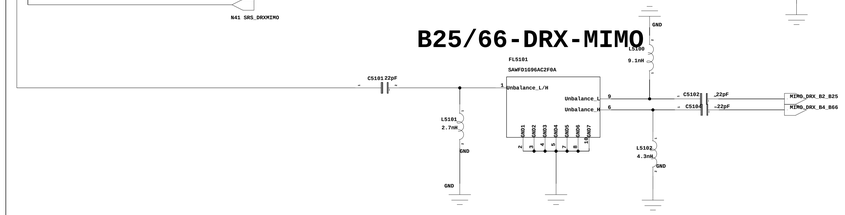
MIMO DRX B41



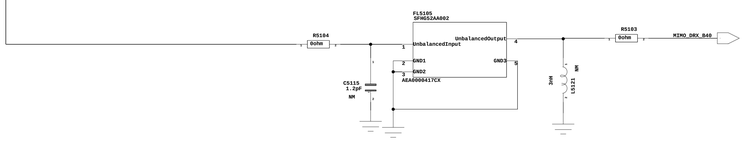
N41 SRS_DRXMIMO



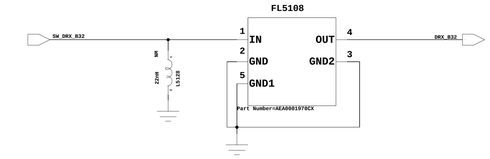
B25/66-DRX-MIMO



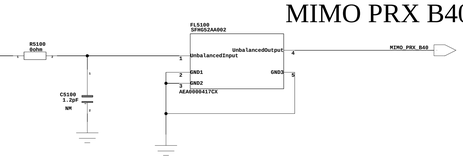
MIMO DRX B40



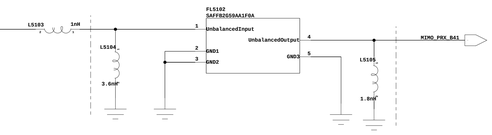
B32 DRX



MIMO PRX B40

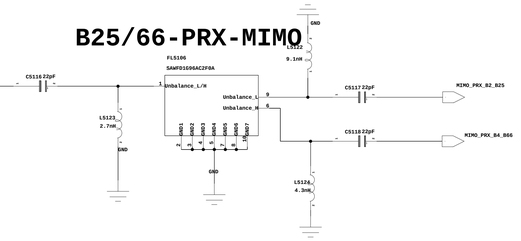


MIMO PRX B41

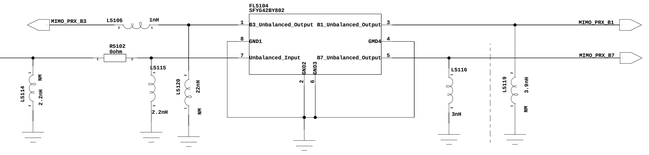


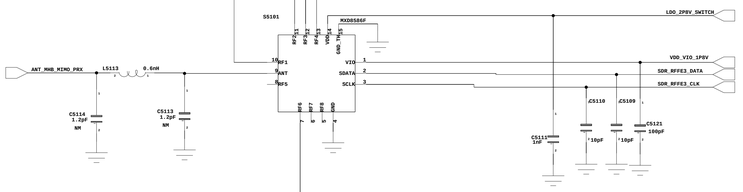
B2_B4_B25_B66

B25/66-PRX-MIMO



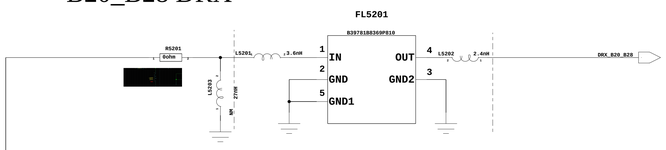
MIMO PRX B7_1_3



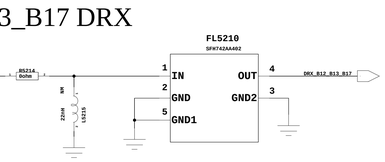


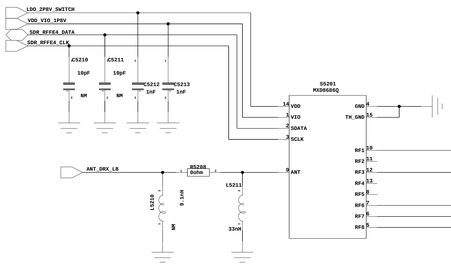
N41 SRS_PRXMIMO

B20_B28 DRX

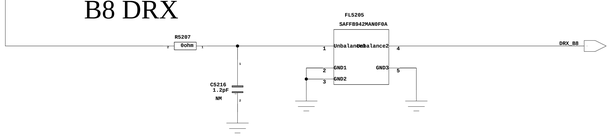


B12_B13_B17 DRX





B8 DRX



B26 DRX

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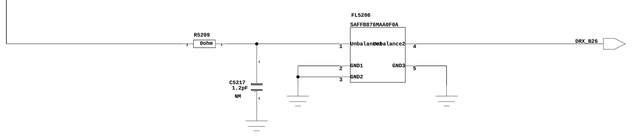
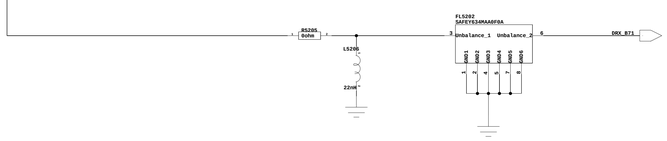
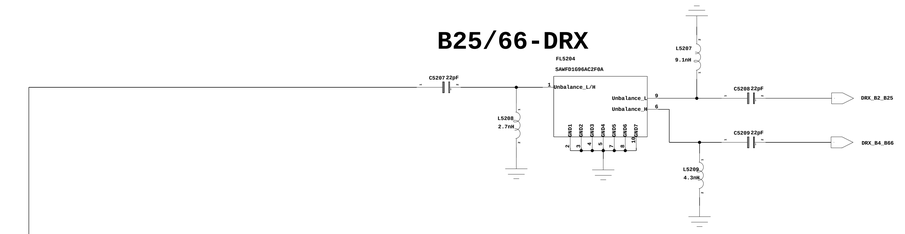
NA:SAFFB876MAA0F0A



B71 DRX

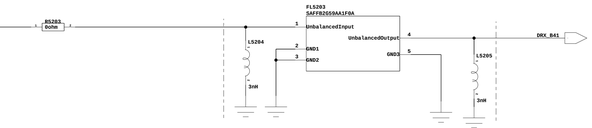


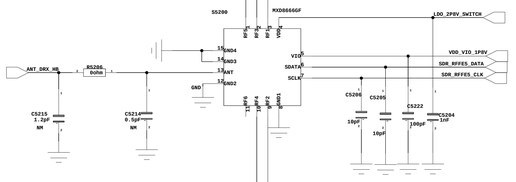
B25/66-DRX



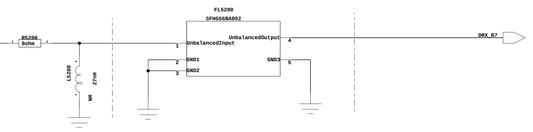
B40 DRX

B41 DRX



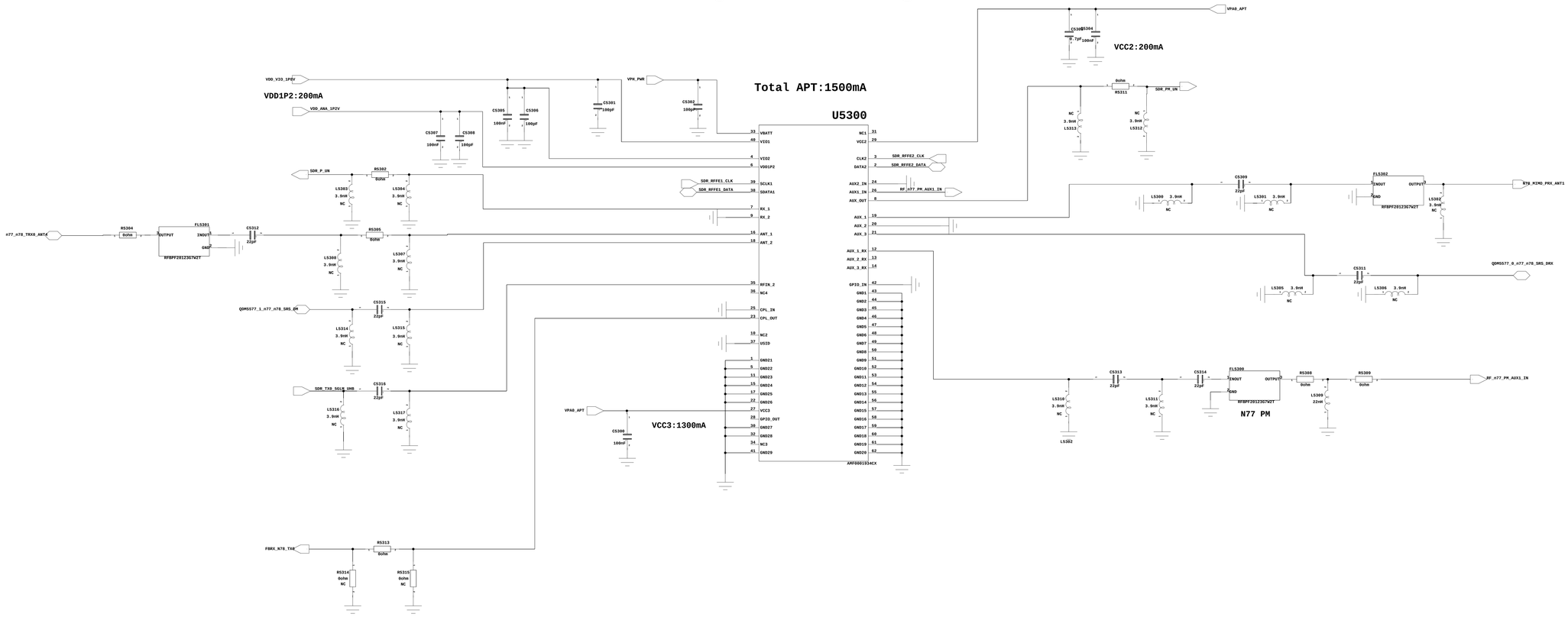


B7 DRX

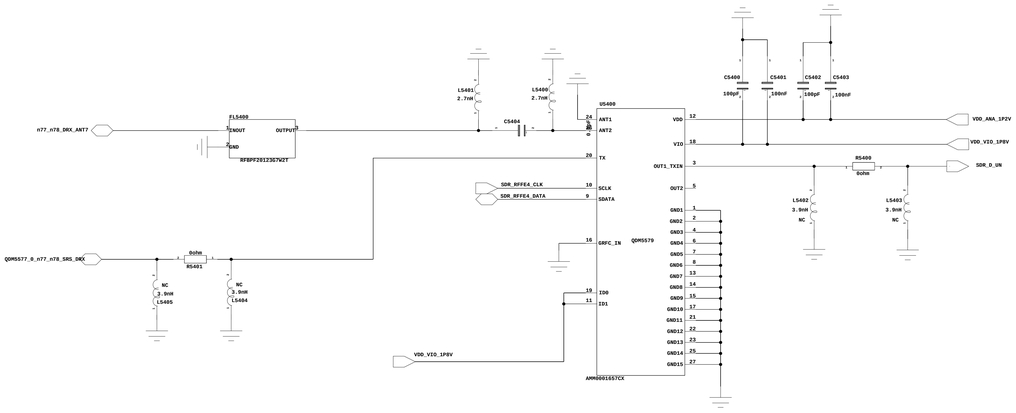


N41 SRS_DRX

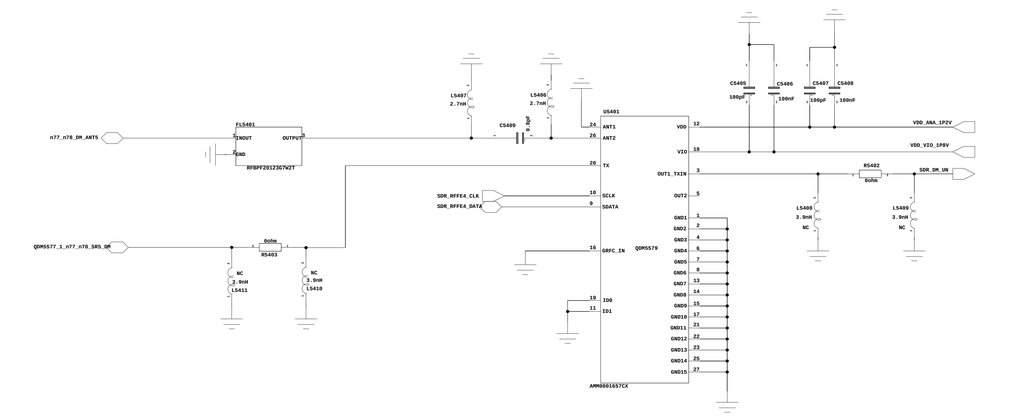
QPM2980AQ


Total APT:1500mA
VDD1P2:200mA
VCC2:200mA
VCC3:1300mA
U5300
N77 PM
VDD_VIO_1P8V
VDD_ANA_1P2V
VPX_PWR
VPA8_APT
SDR_P_UN
SDR_PM_UN
SDR_RFFE1_CLK
SDR_RFFE1_DATA
SDR_RFFE2_CLK
SDR_RFFE2_DATA
SDR_TX0_5G1B_UNB
RF_N77_PM_AUX1_IN
n77_n78_TRX0_ANT4
QDMS577_1_n77_n78_SRS_DM
QDMS577_0_n77_n78_SRS_DRX
N78_MIMO_PRX_ANT1
FBRX_N78_TXB
RFBPF20123G7W2T
ANF000193ACX
VBATT
VIO1
VIO2
VDD1P2
SCLK1
SDATA1
RX_1
RX_2
ANT_1
ANT_2
MIPI_2
NC4
CPL_IN
CPL_OUT
NC2
VSID
GND21
GND22
GND23
GND24
GND25
GND26
VCC3
GPIO_OUT
GND27
GND28
NC3
GND29
VCC1
VCC2
CLK2
DATA2
AUX2_IN
AUX1_IN
AUX_OUT
AUX_1
AUX_2
AUX_3
AUX_1_RX
AUX_2_RX
AUX_3_RX
GPIO_IN
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND18
GND19
GND20
NC1
NC2
NC3
NC4
INOUT
OUTPUT
GND
0ohm
NC
3.9nH
22pF
100nF
100pF
1.7pF

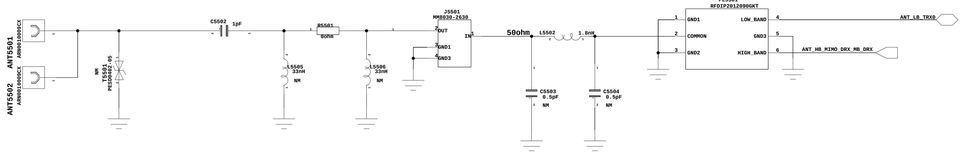
QDM5577_#0_DRX



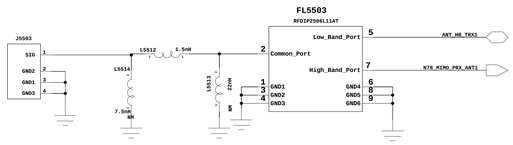
QDM5577_#1_DM



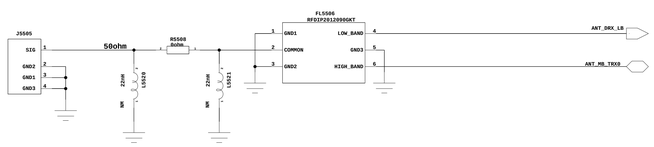
ANT0



ANT1



ANT2



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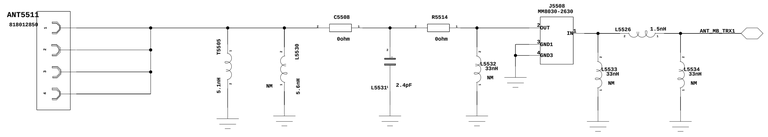
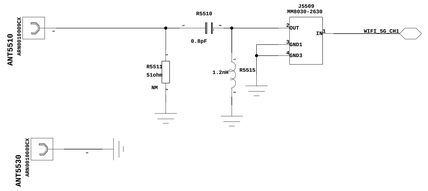
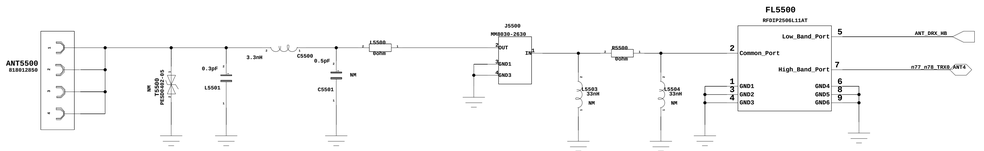


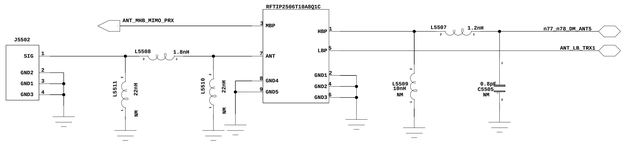
ANT9



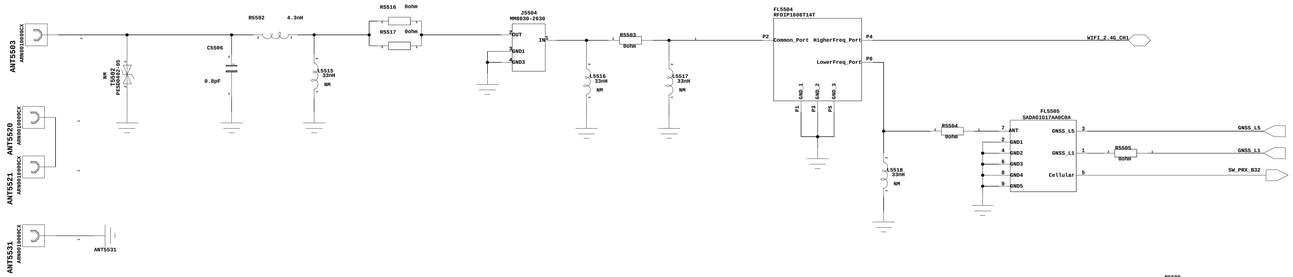
ANT4



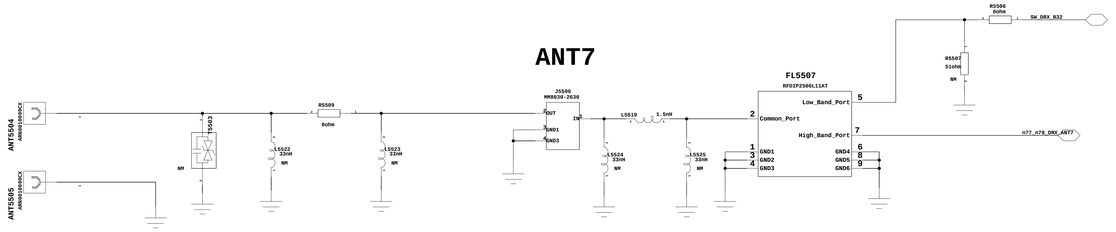
ANT5



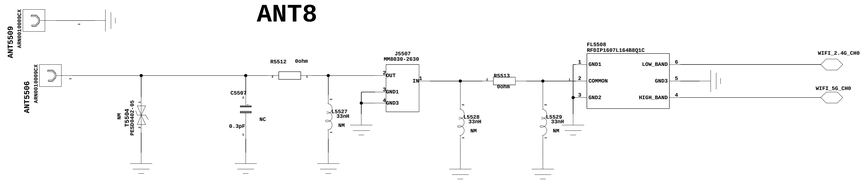
ANT6

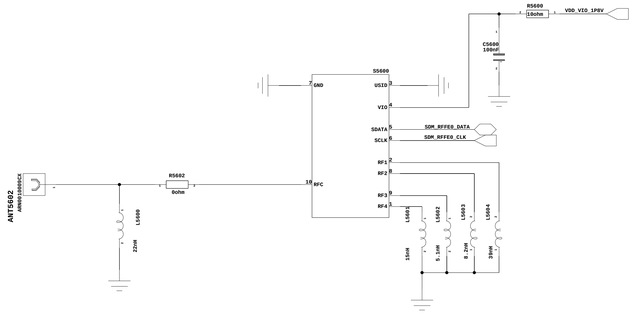


ANT7

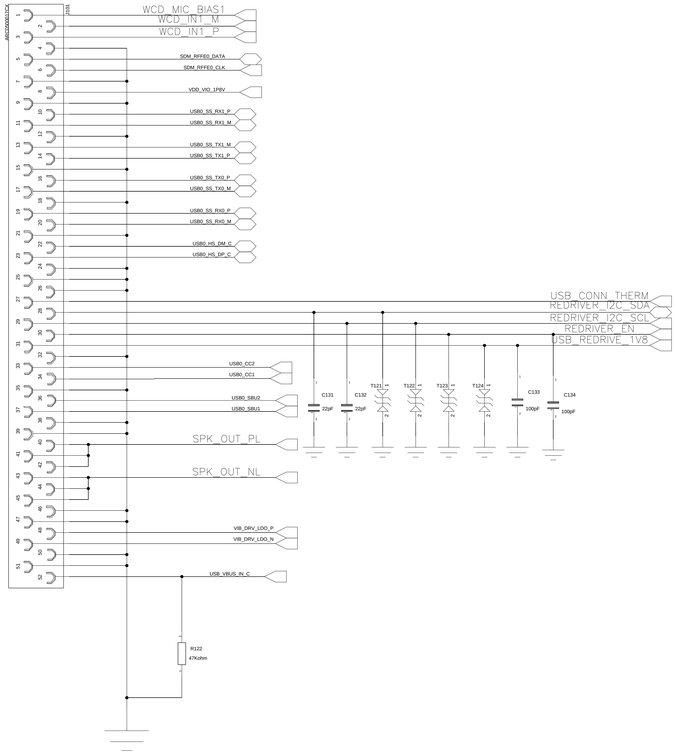


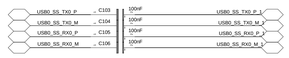
ANT8

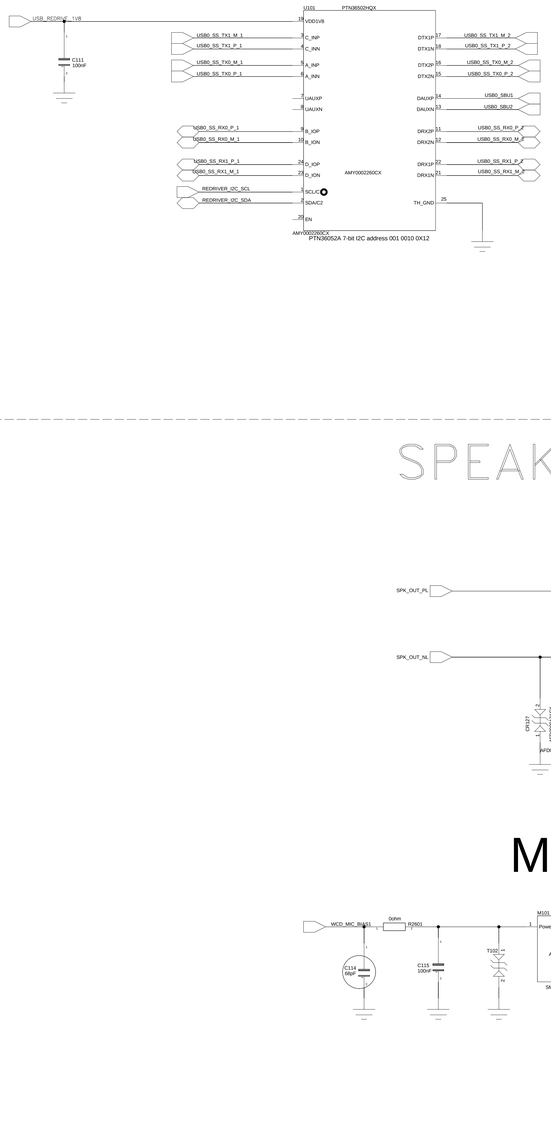



R5600
10ohm
VDD_VIO_1P8V
C5600
100nF
S5600
GND
VSID
VIO
SDATA
SCLK
SDM_RFFE0_DATA
SDM_RFFE0_CLK
RF1
RF2
RF3
RF4
RFC
R5602
0ohm
ANT5602
ANN0010000C4
L5600
22nH
L5601
15nH
L5602
5.1nH
L5603
8.2nH
L5604
3nH

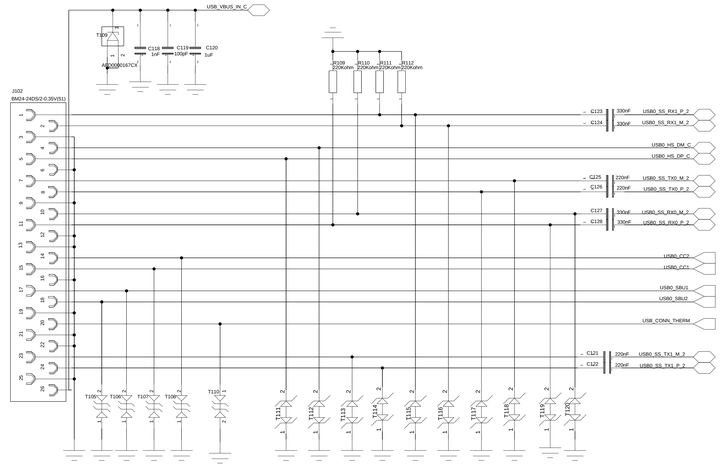
SUB BOARD CONN





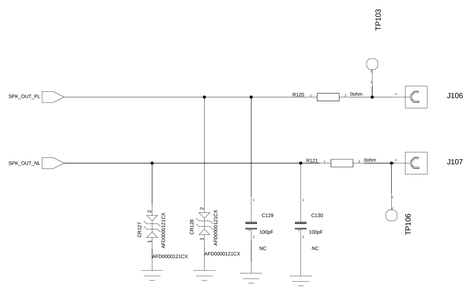


USB BTB

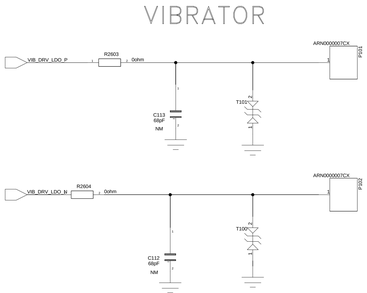


Place close to USB Connector.

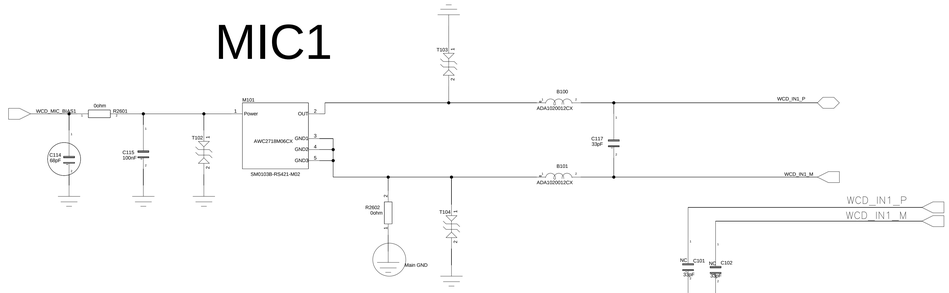
SPEAKER



VIBRATOR



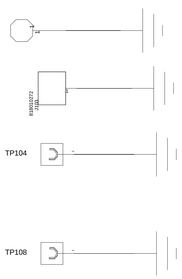
MIC1



Connect to Main GND

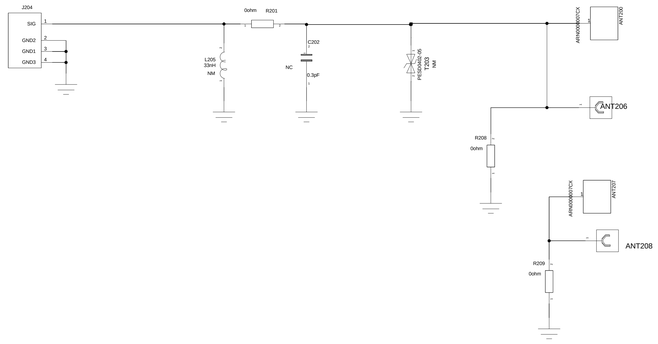
MARK101 MARK102 MARK103 MARK104

SH101

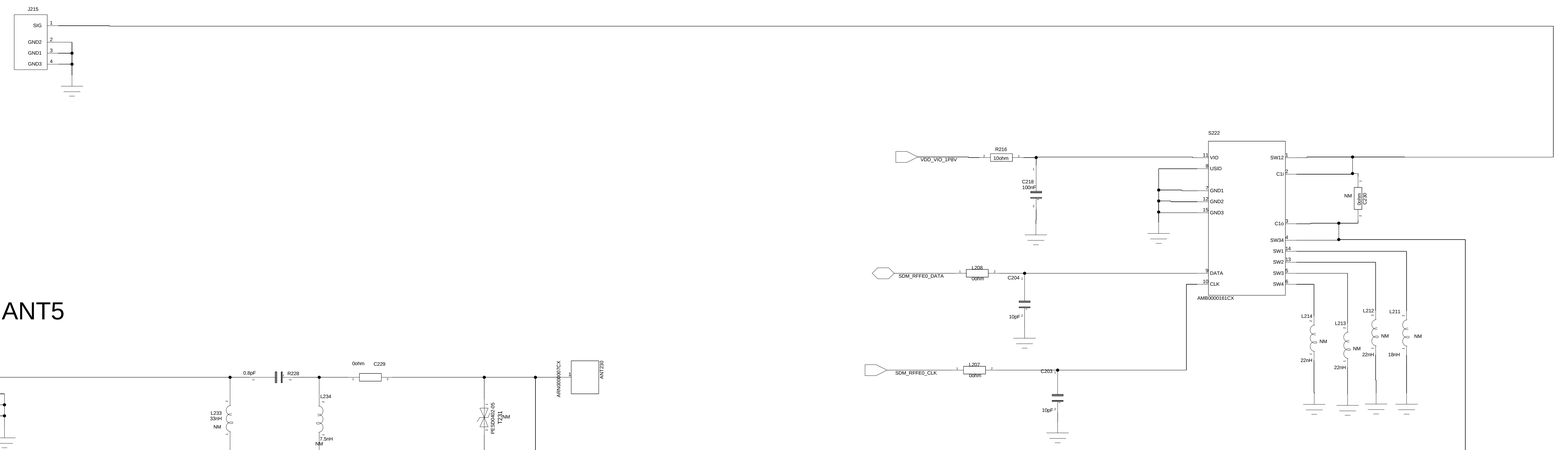


2022-10-20

ANT1



ANT2



ANT5