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.

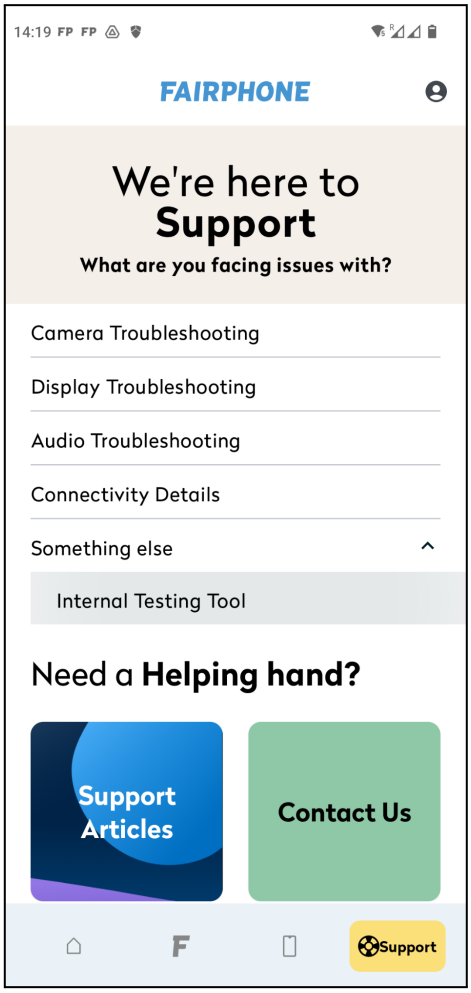
7. Diagnosis information

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

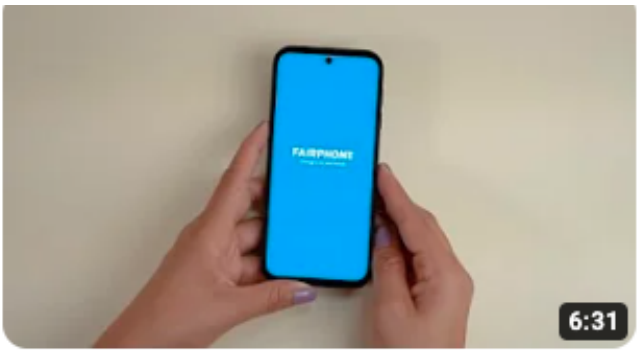
Fairphone maintains data records of failure incidents in accordance with GDPR regulations. When customers contact us about a reported failure, it is necessary for us to hold a certain amount of data to be able to process this failure and the potential return of the product to our repair center. We also 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.

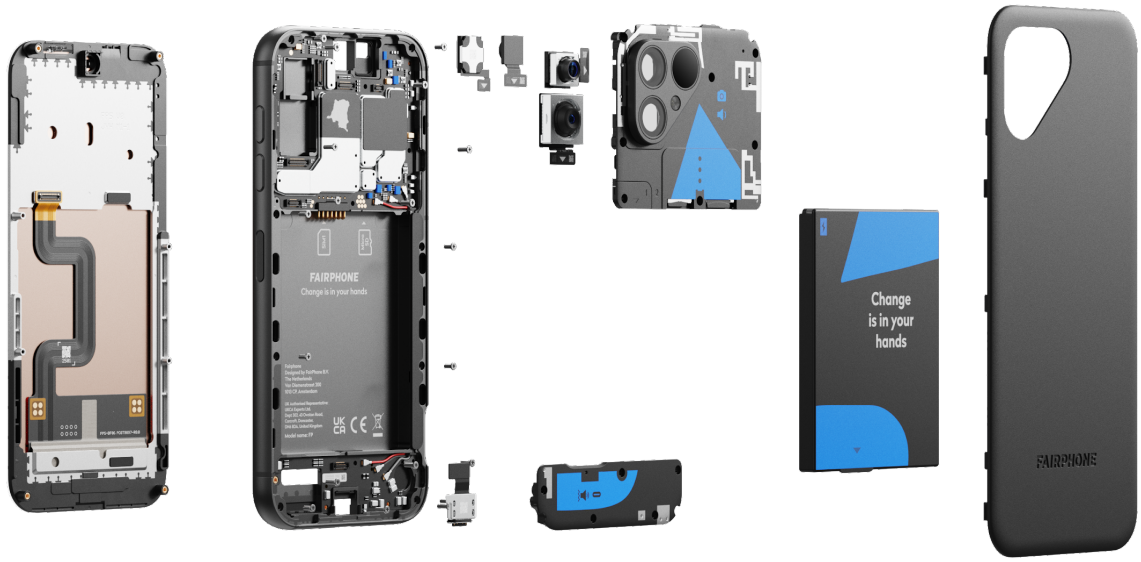
In this document, you can also find a printed version of our repair manuals.



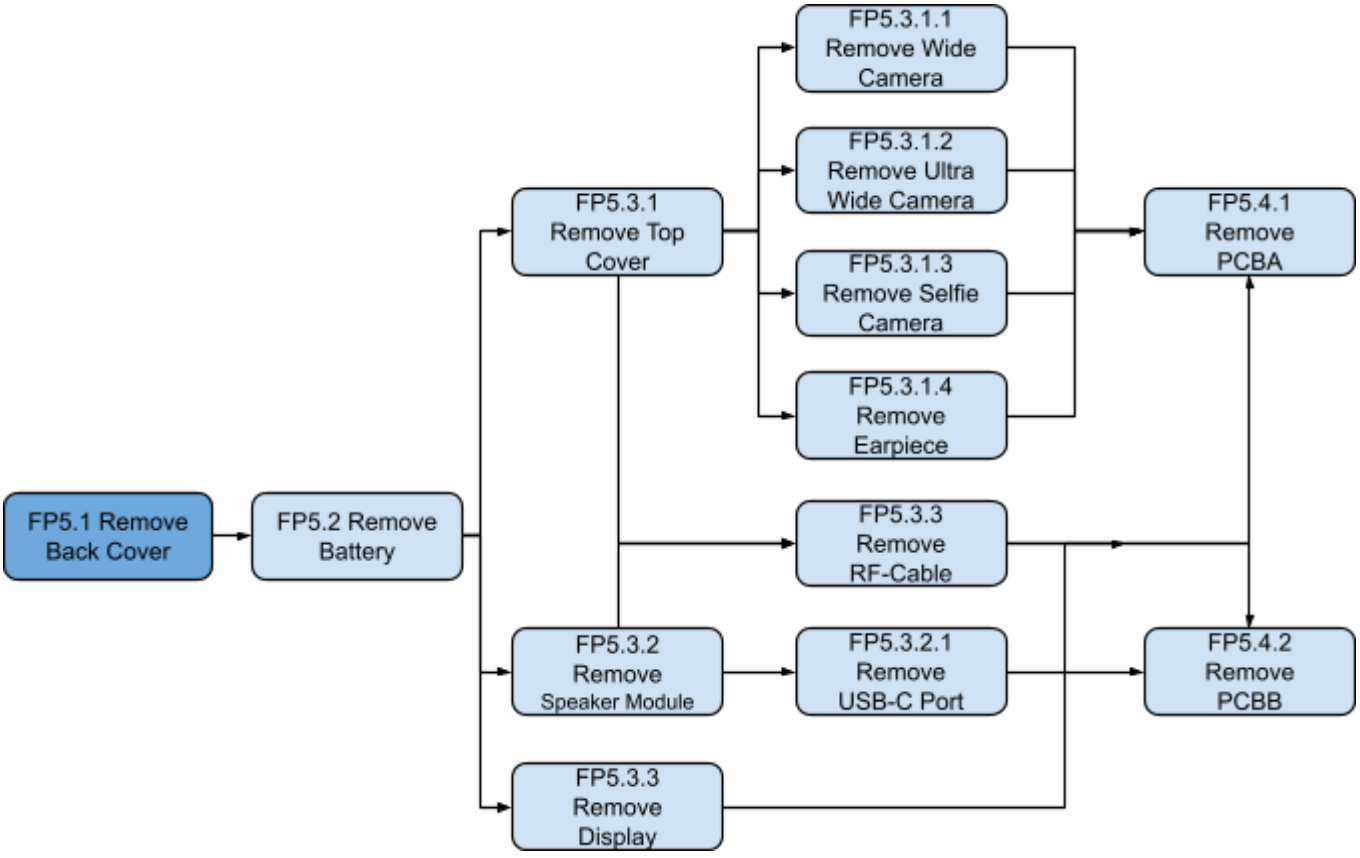
Getting Started | HOW TO FAIRPHONE 5

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:**

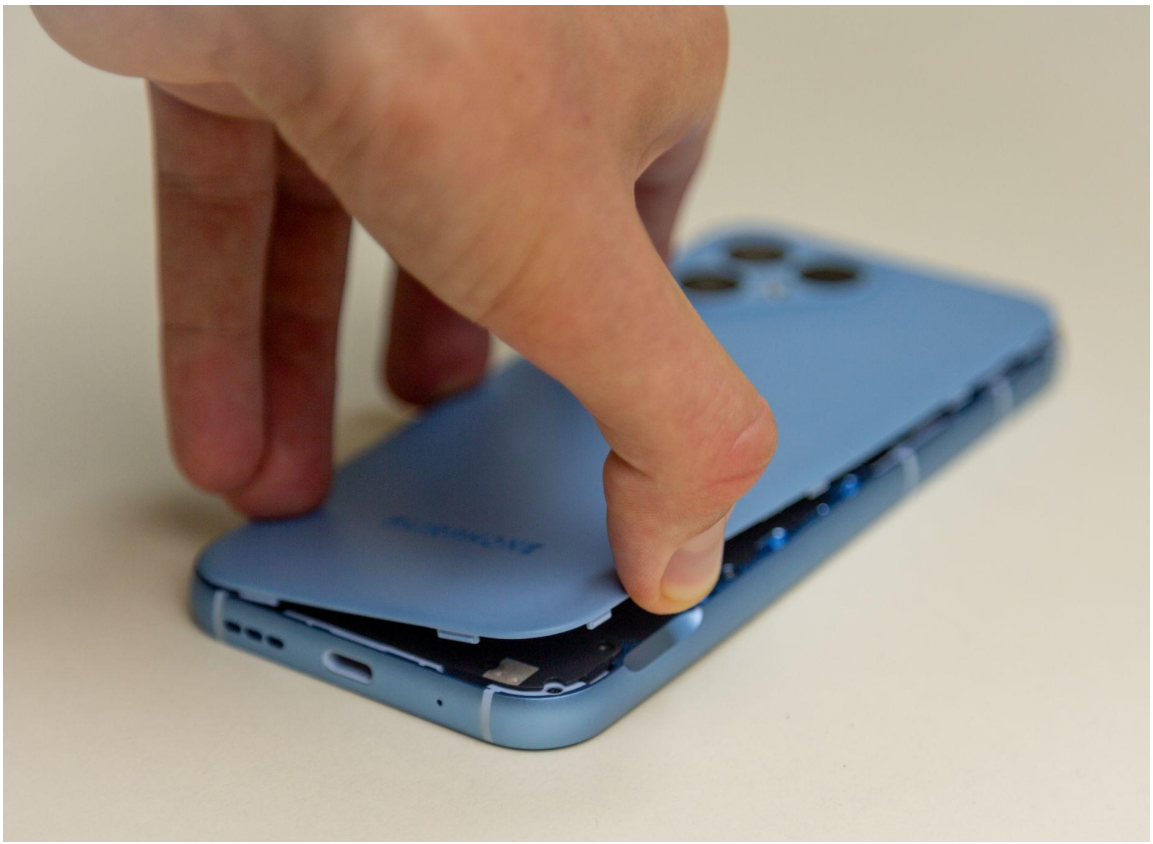
1. Phillips screwdriver PH00.

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.





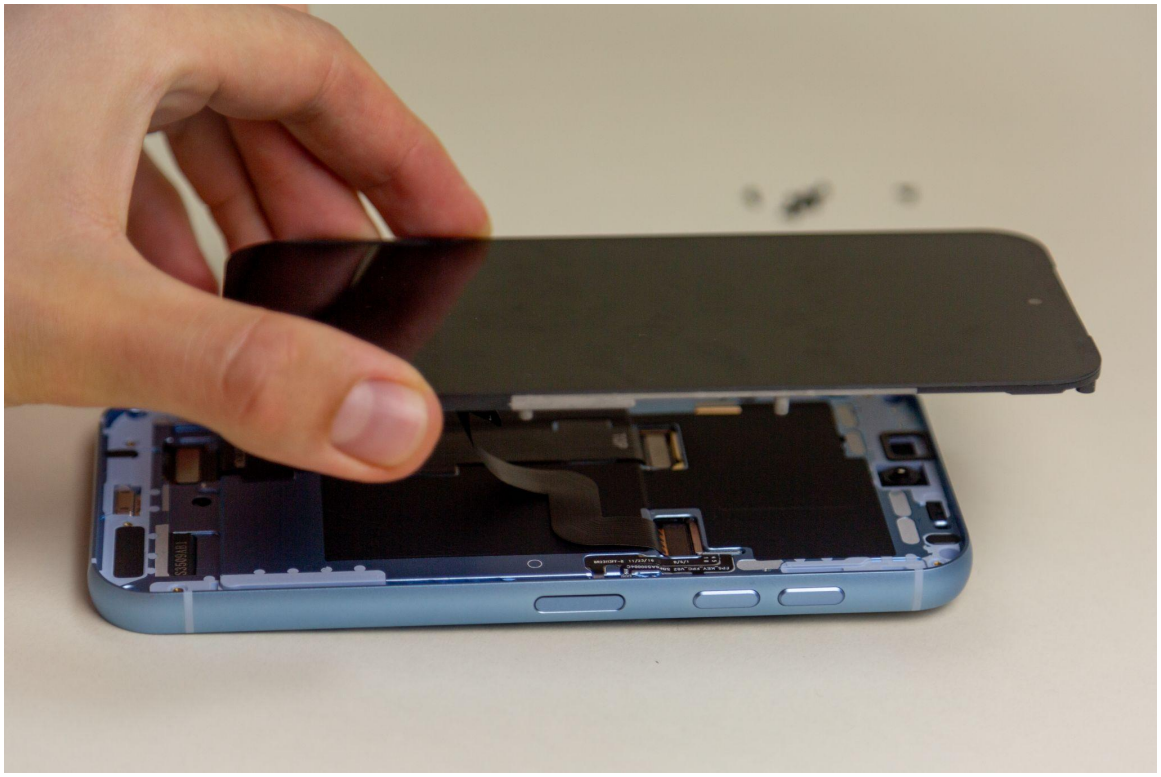
e. Replacing display

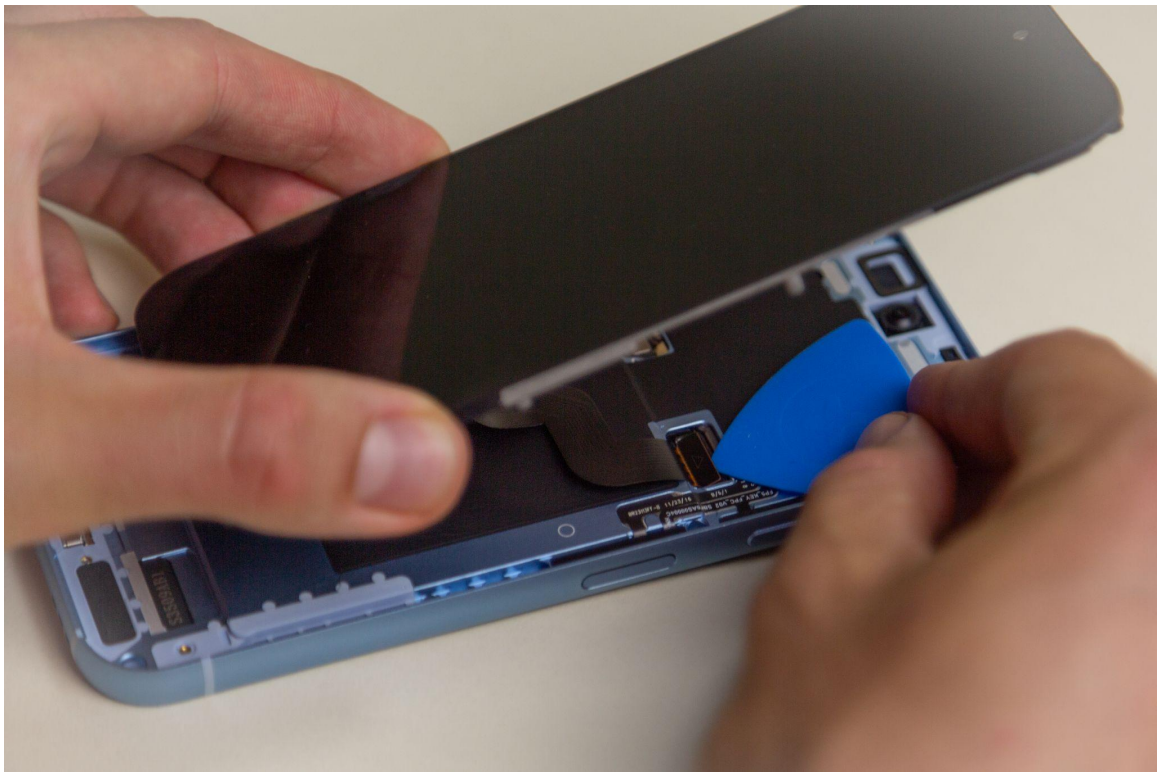
Step 1: Follow previous steps (d) to remove the back cover and the battery

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.

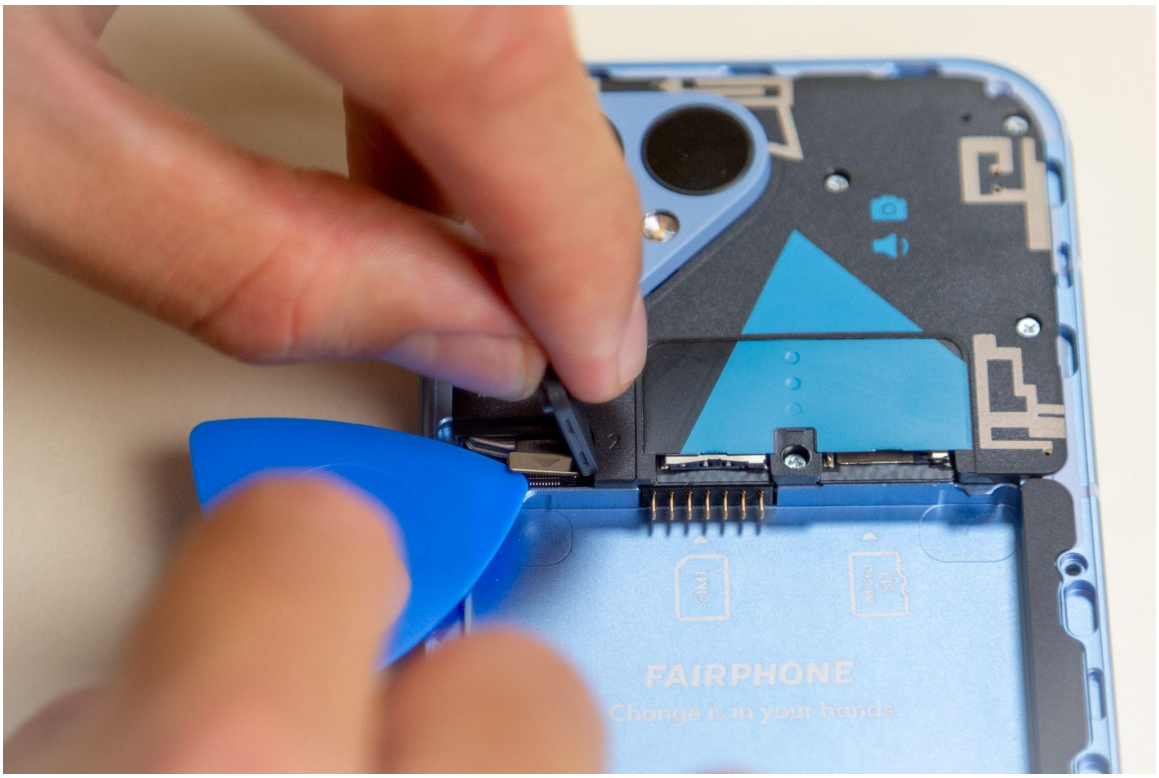
f. Replacing the rear cameras, selfie camera, or earpiece

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.

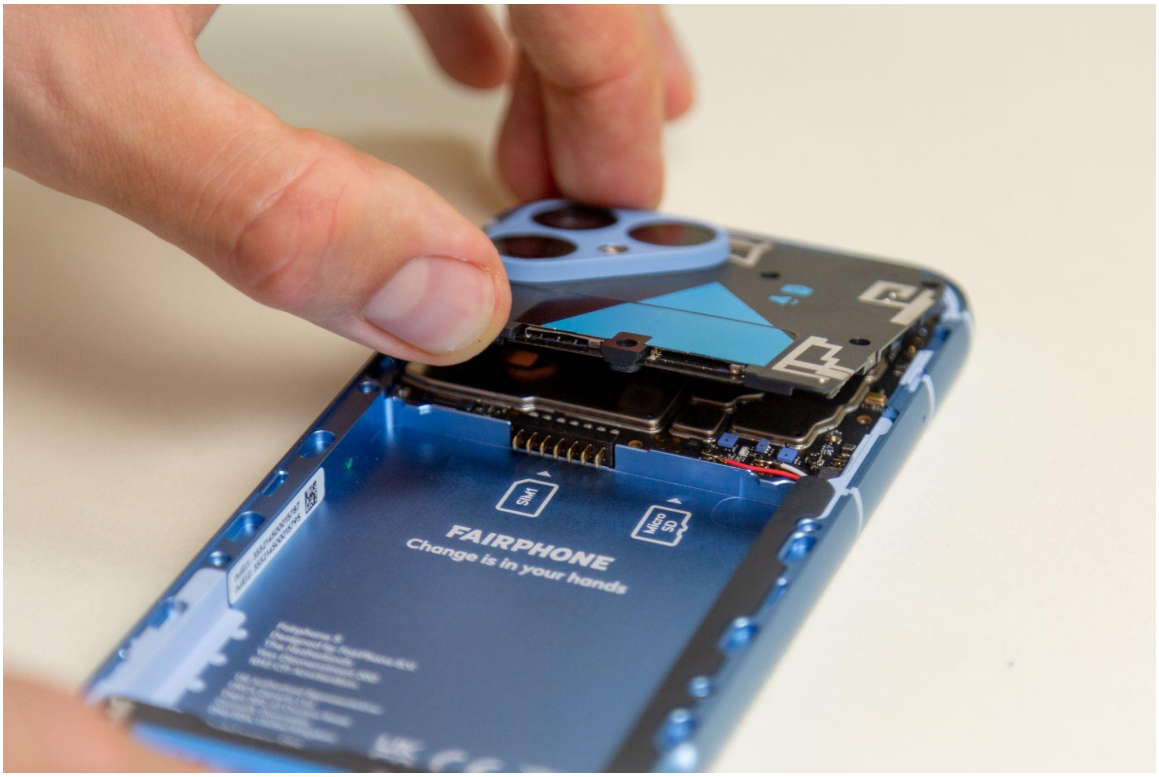




Step 4: Remove the remaining six silver rear camera screws.

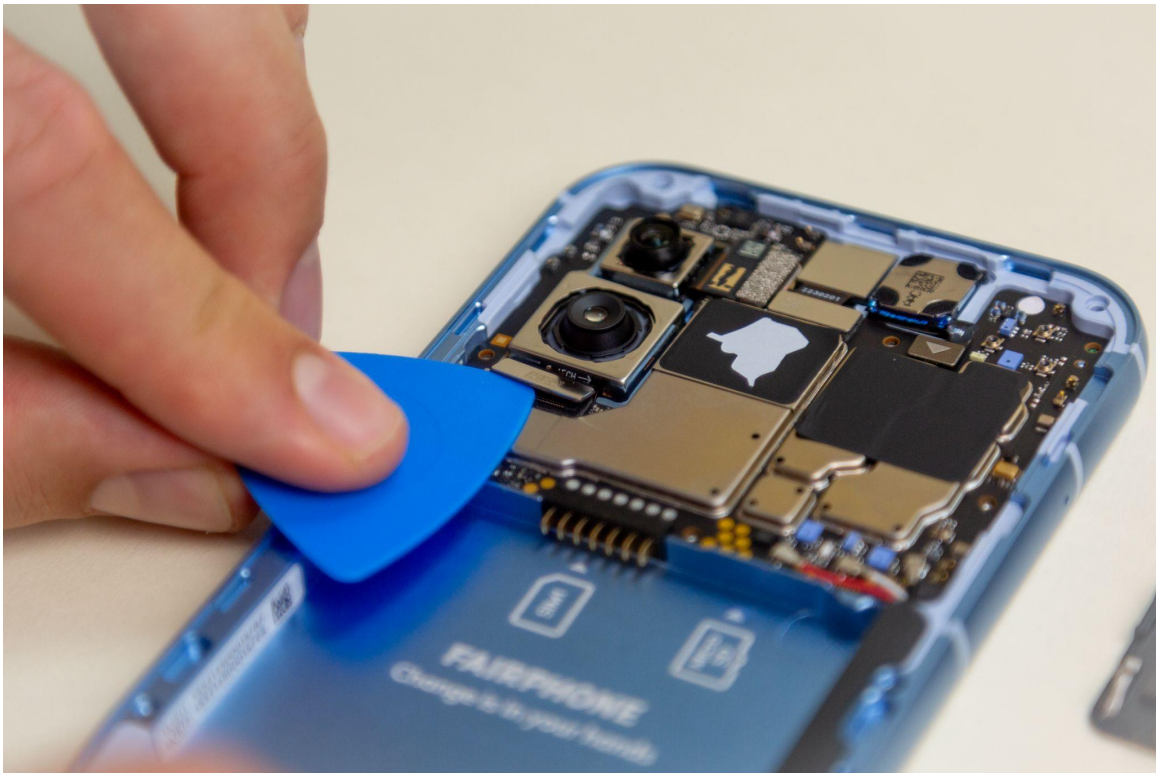


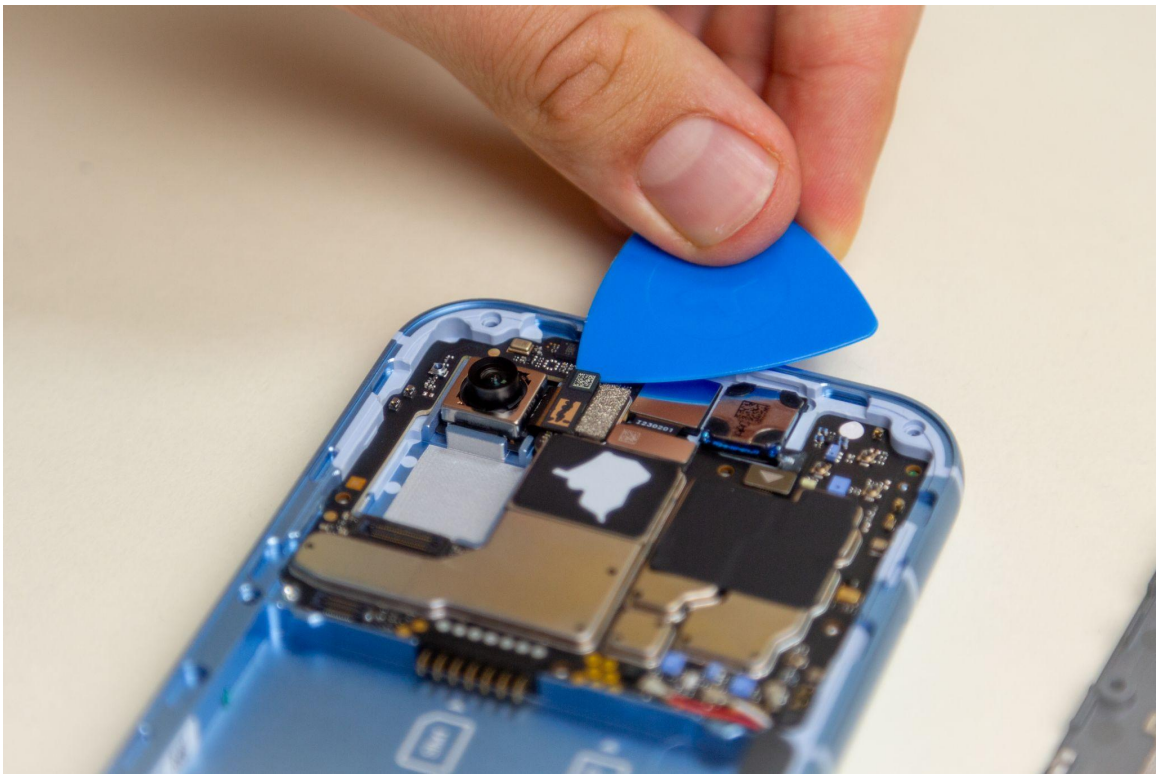
Step 5: Lift the top cover.

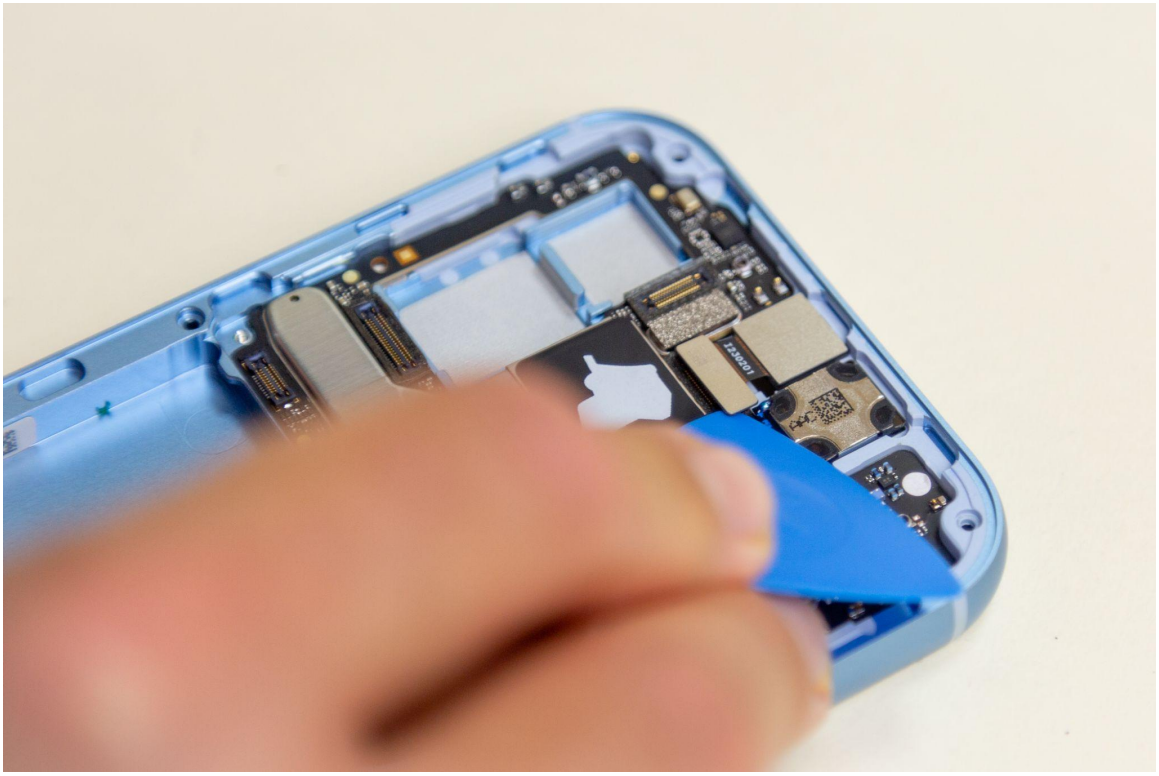


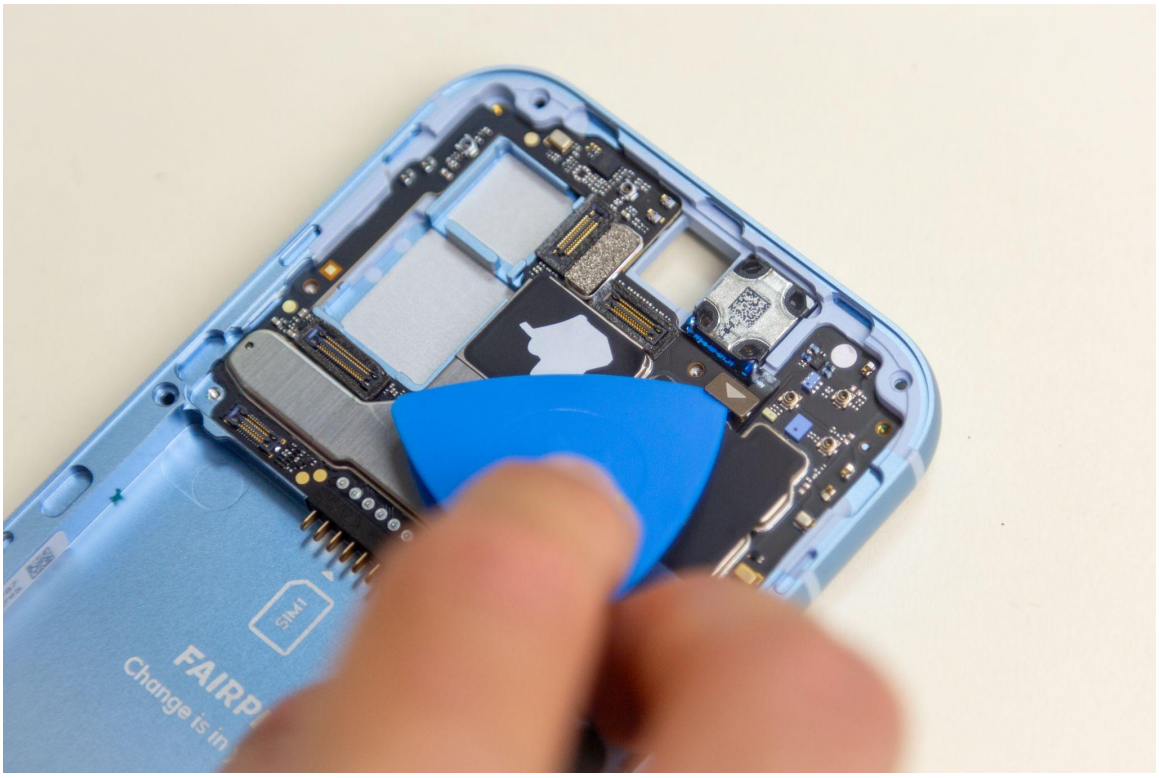


Step 5: Disconnect the according Camera or Earpiece Connector








SIM1

Step 6: Remove the camera or earpiece.



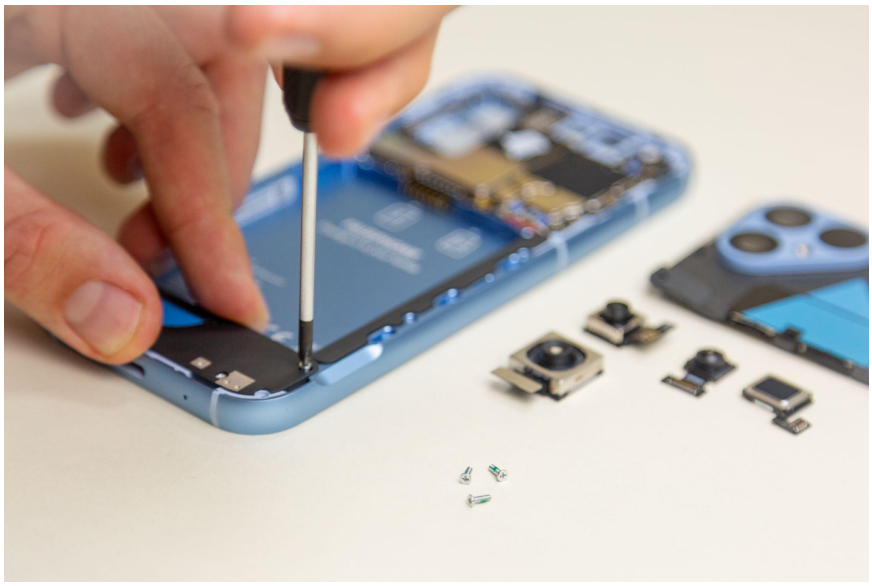
Step 7: Insert the new camera or earpiece and connect it to its appropriate connector.
Step 8: repeat actions in the steps 5 to 1 in reverse order

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

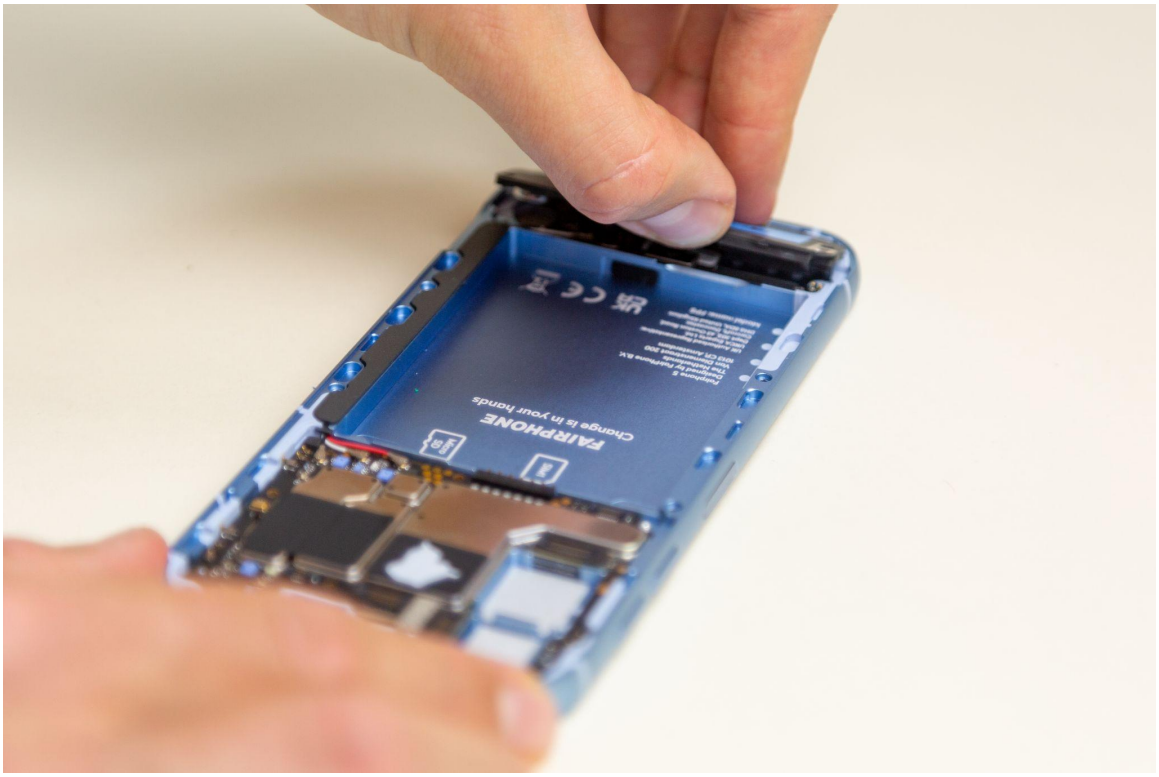
Step 1: Follow the steps in e.

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



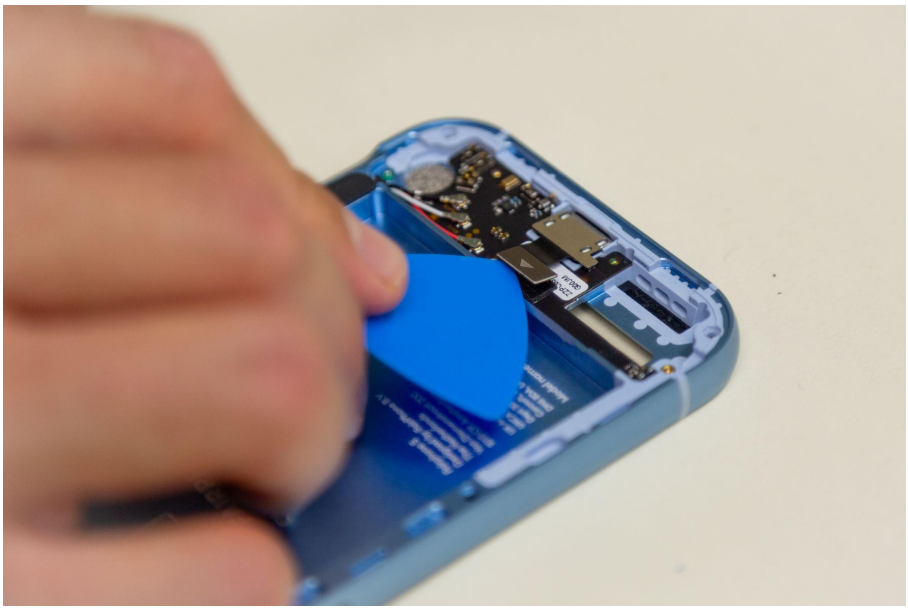


Step 3: Lift the loudspeaker by lifting the central lip and removing it. This part also contains the vibration mechanism.





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.*

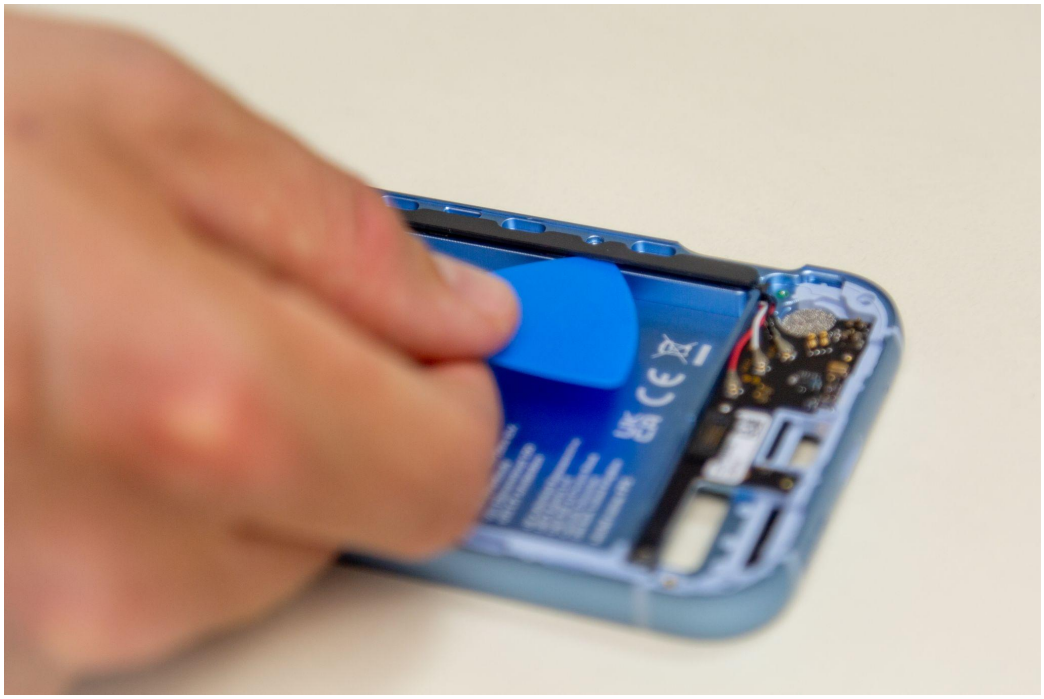




Step 4: Put the (new) loudspeaker in place. Click it in and place back the six screws.

h. Replacing the PCB and mid-frame

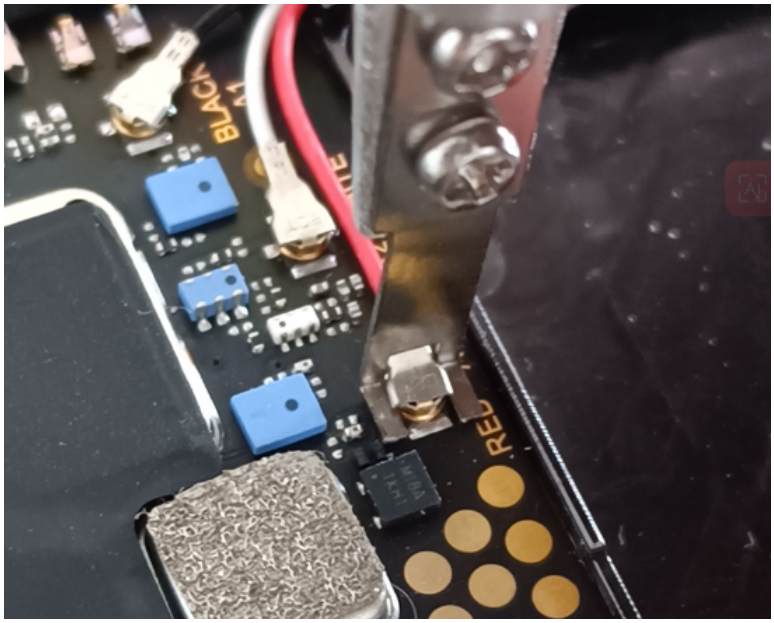
Step 1: Follow the steps in **e** to remove the back cover and battery.
Step 2: Follow the steps in **f** to remove the display.
Step 3: Follow steps in **g** to remove cameras and earpiece
Step 4: Follow steps in **h** to remove the loudspeaker and USB-C port.
Step 5: Use a prying tool to remove the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

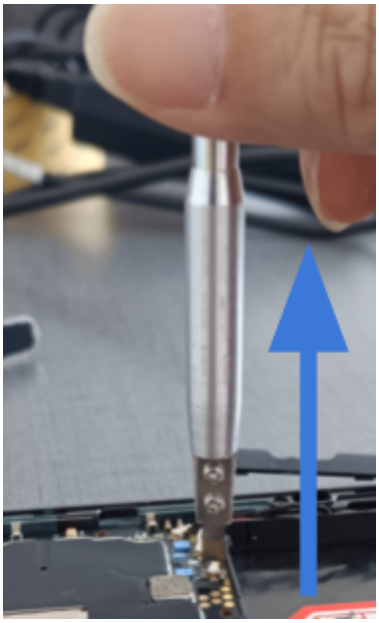


Step 6: Remove the RF cable rubber.

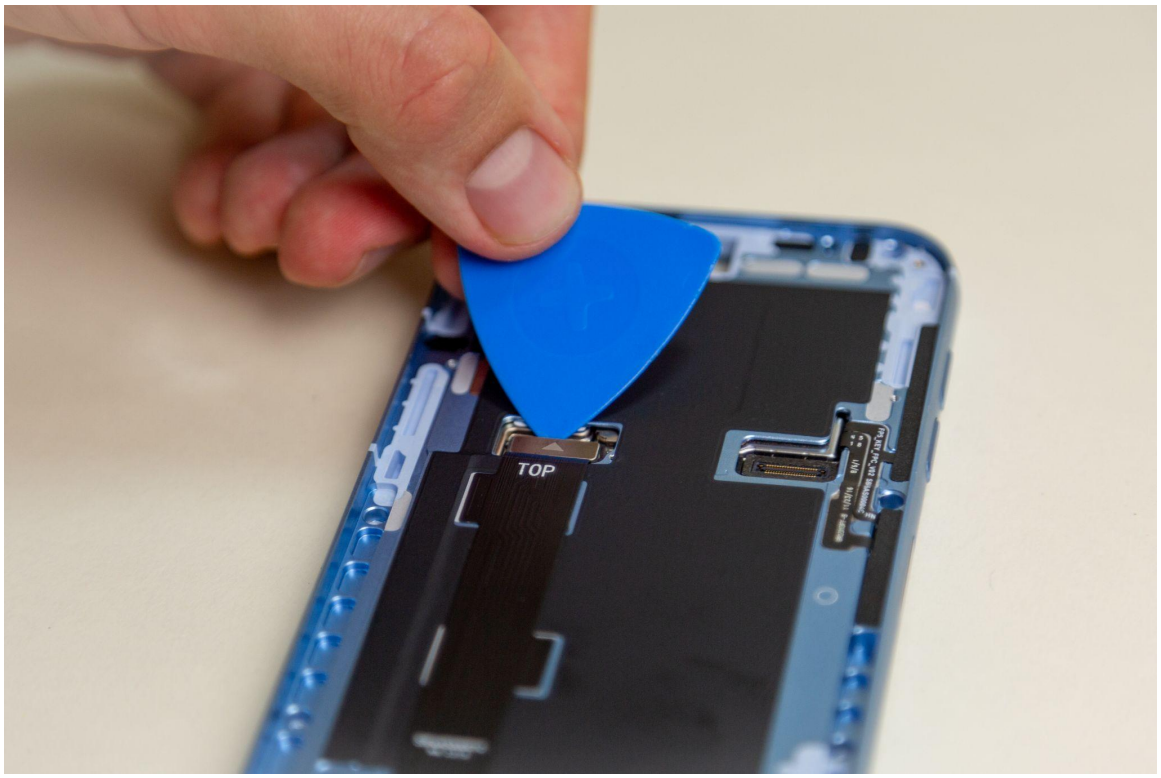


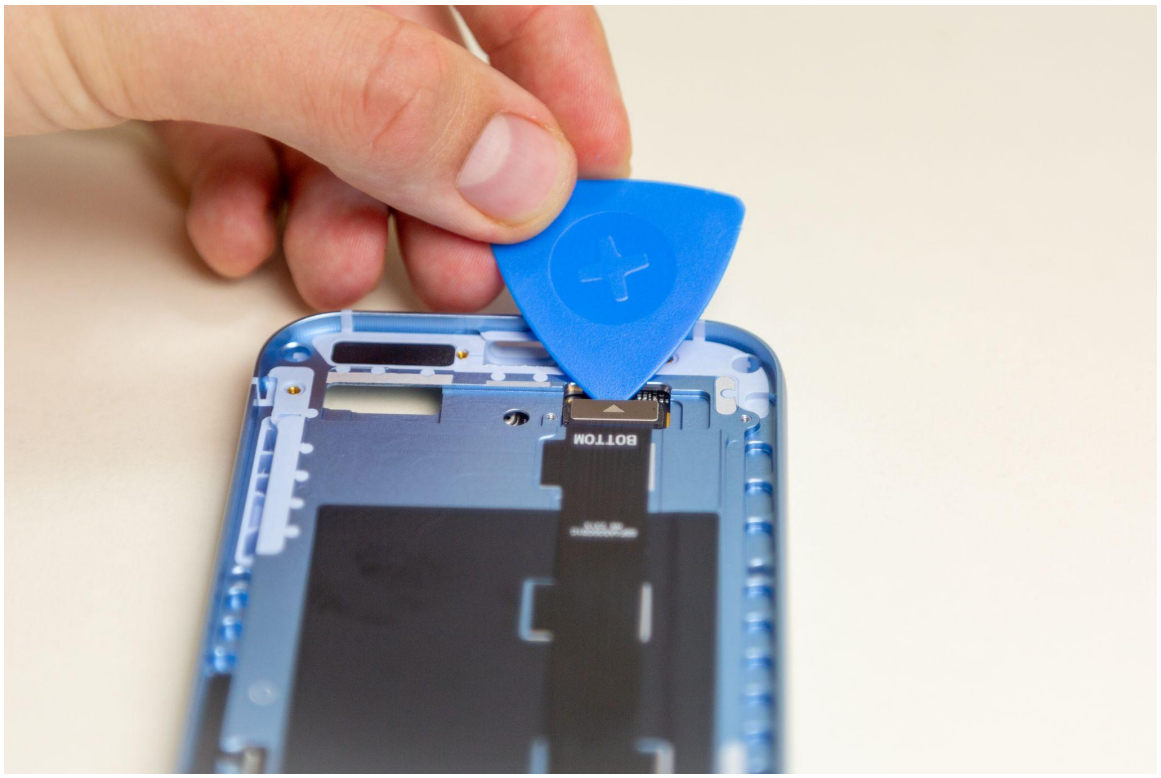
Step 7: Gently disconnect the red, black, and white RF-Cables, connected to the top PCBA and bottom PCBB, by hooking the RF-Cable connectors and then applying the force upward (vertical) to the receptacle.

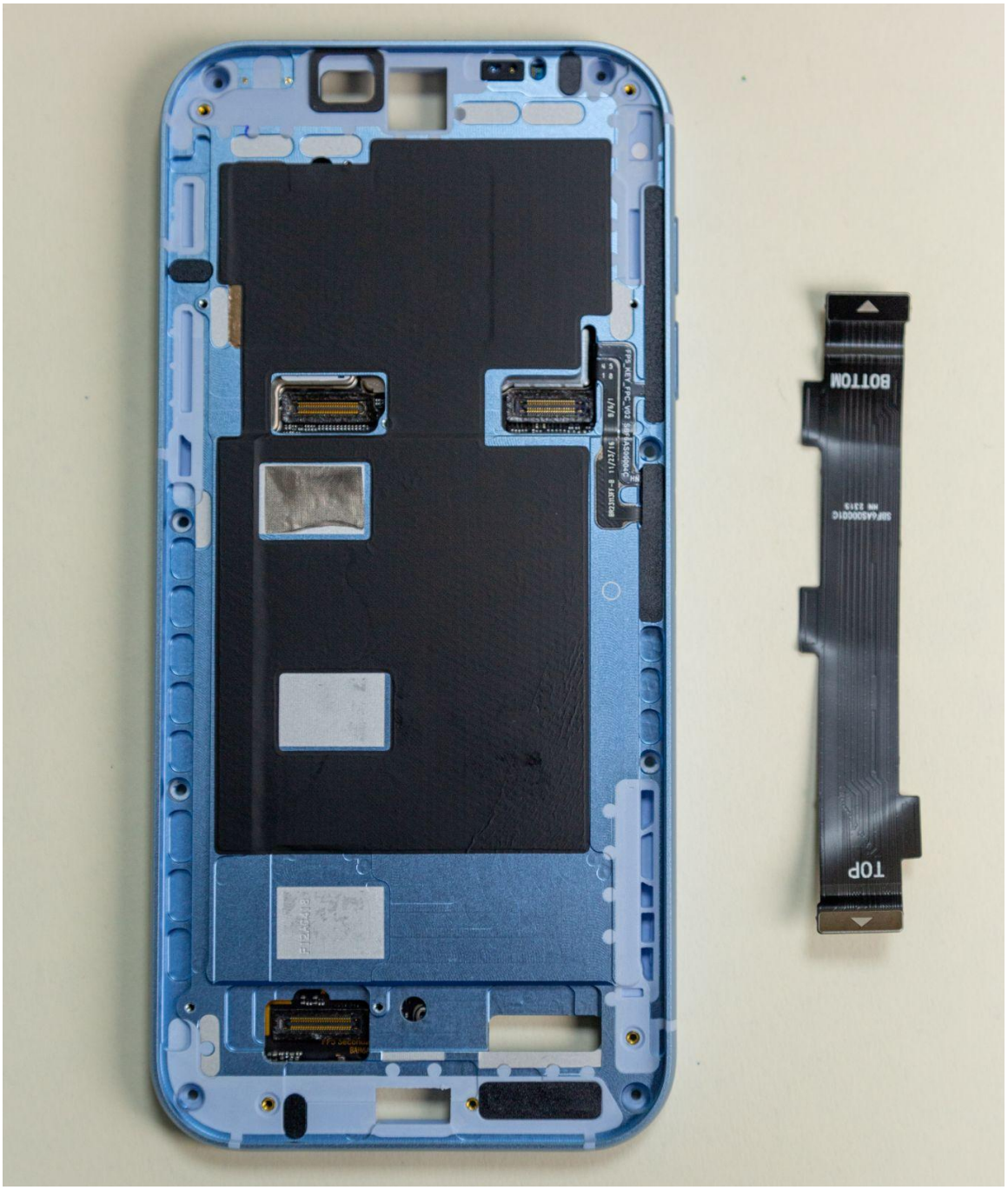




Step 8: Gently disconnect the PCB connector cable, which is located between the display and the mid-frame.



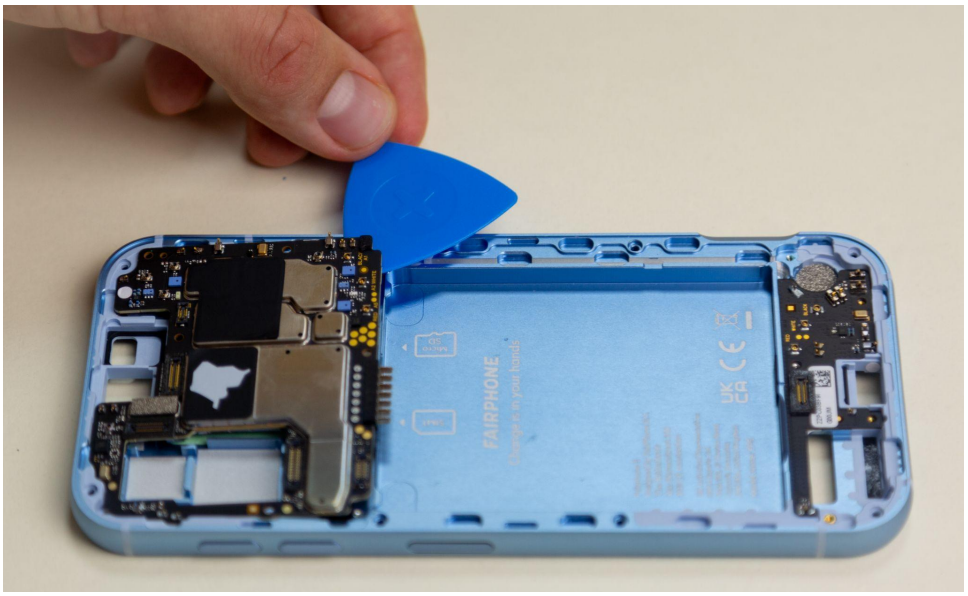



BOTTOM
TOP

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.







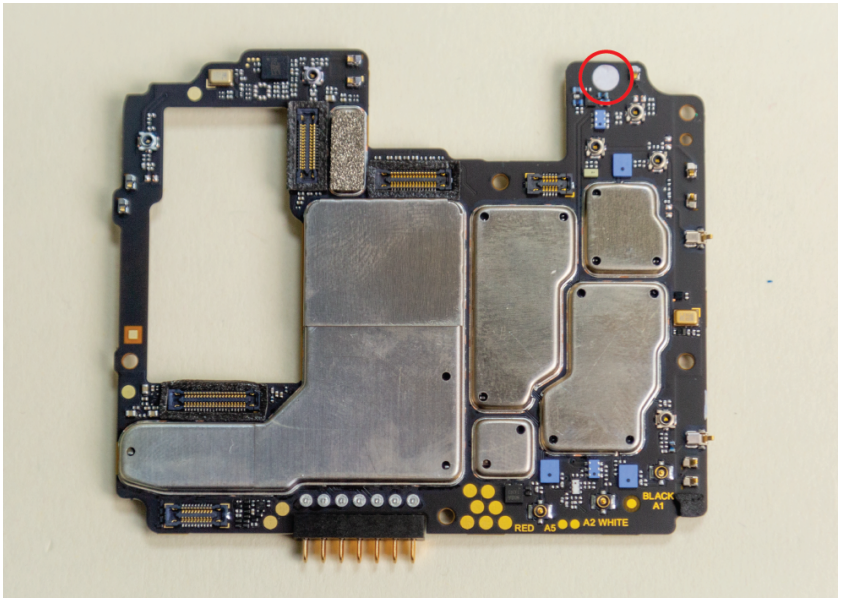


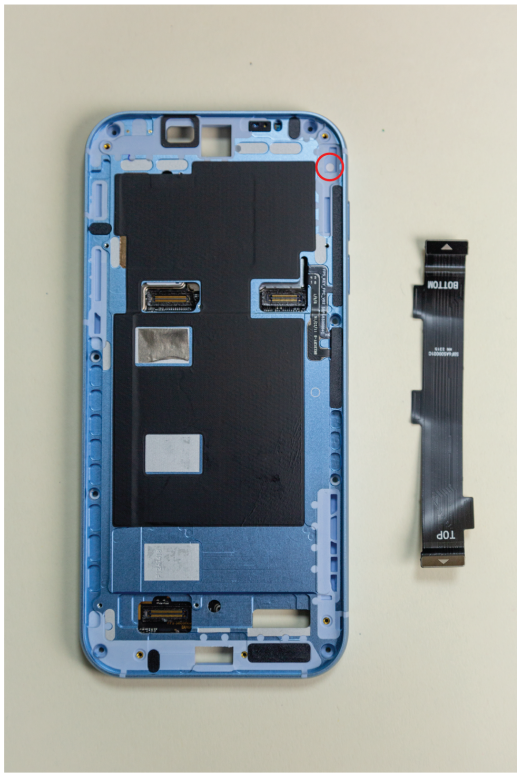
Attention: *The PCBA will include a copy of the IMEI sticker. Every time there is a PCBA or mid-frame swap, please make sure the IMEI on the PCBA matches the IMEI label on the mid-frame.*

i. Check for water ingress

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

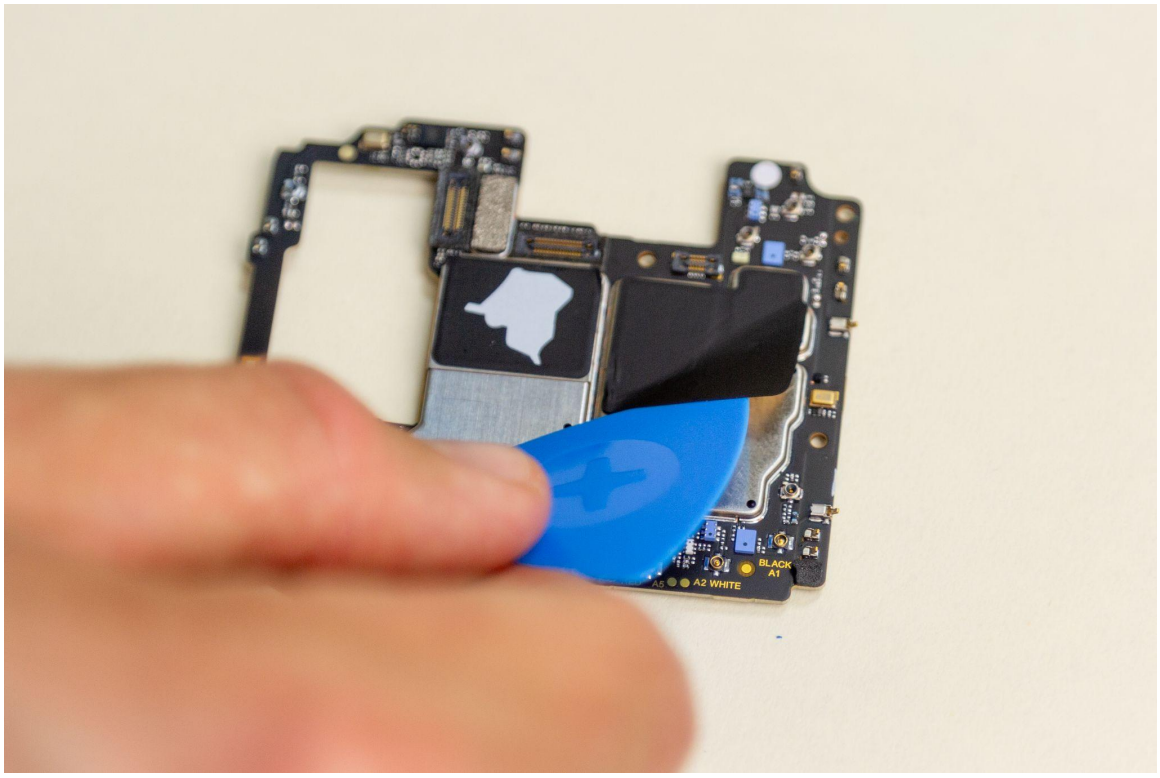
Step 2: Check the rear water marker

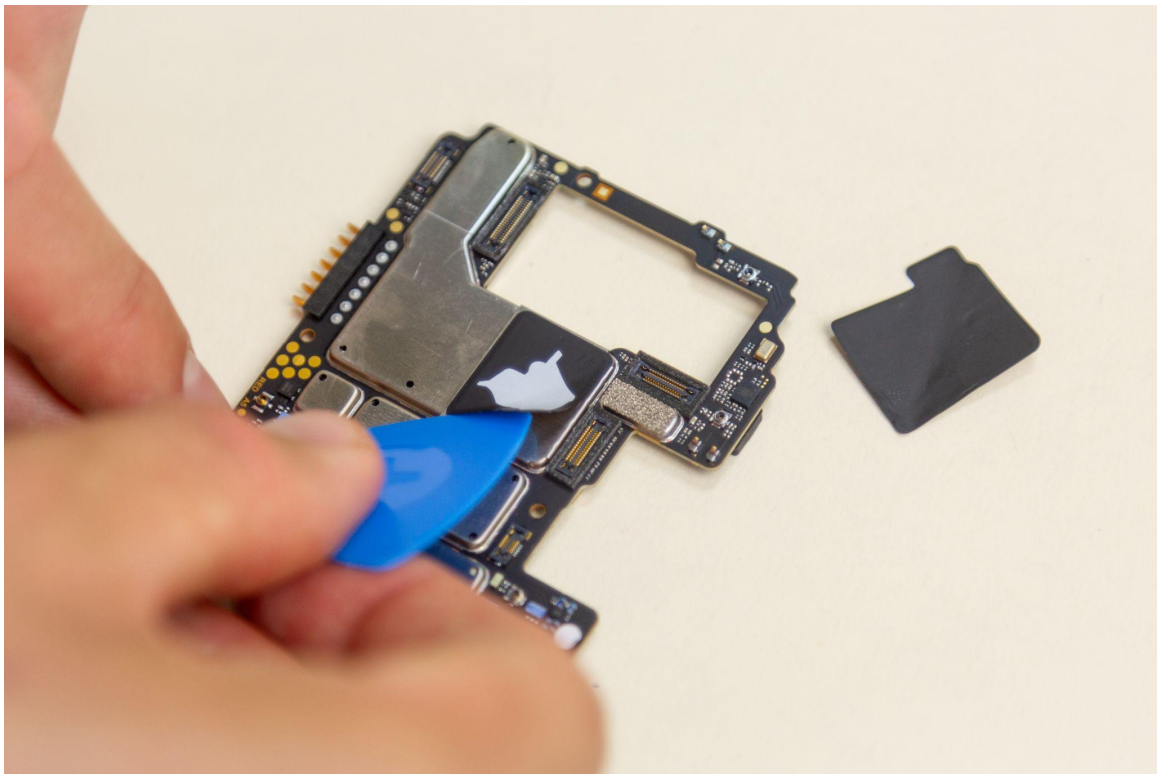




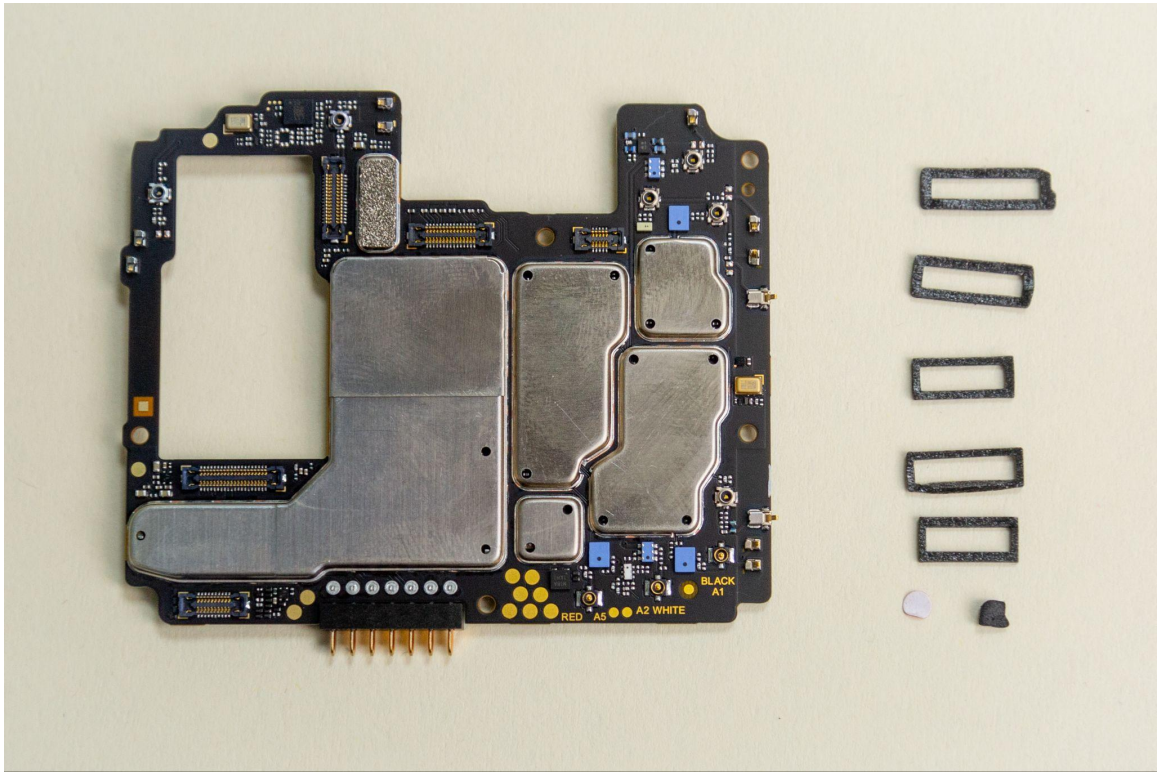


j. Remove the accessories from the main PCBA



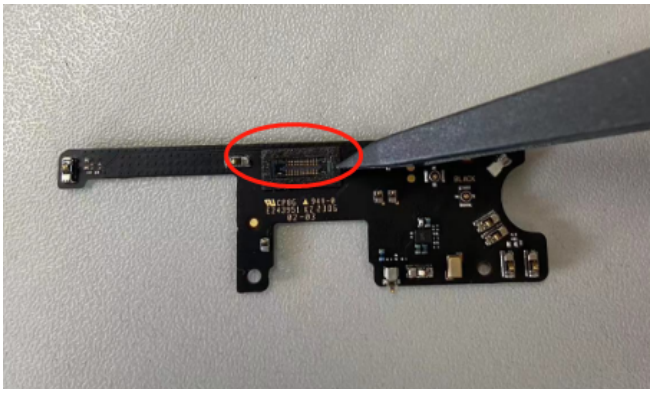


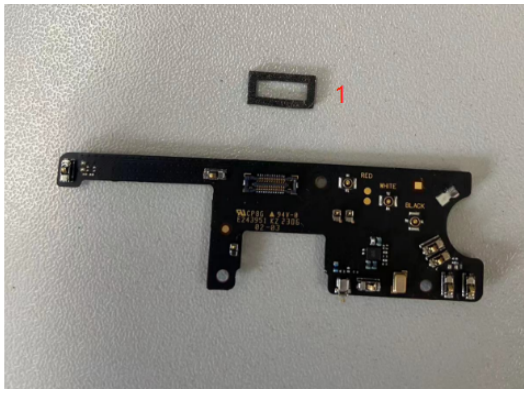
FAIRPHONE

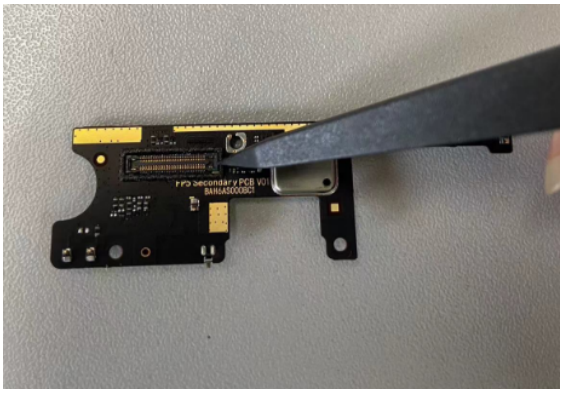


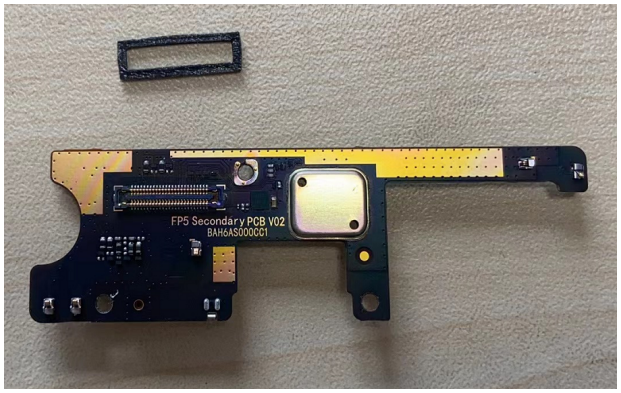


k. Remove accessories from the secondary PCBA









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

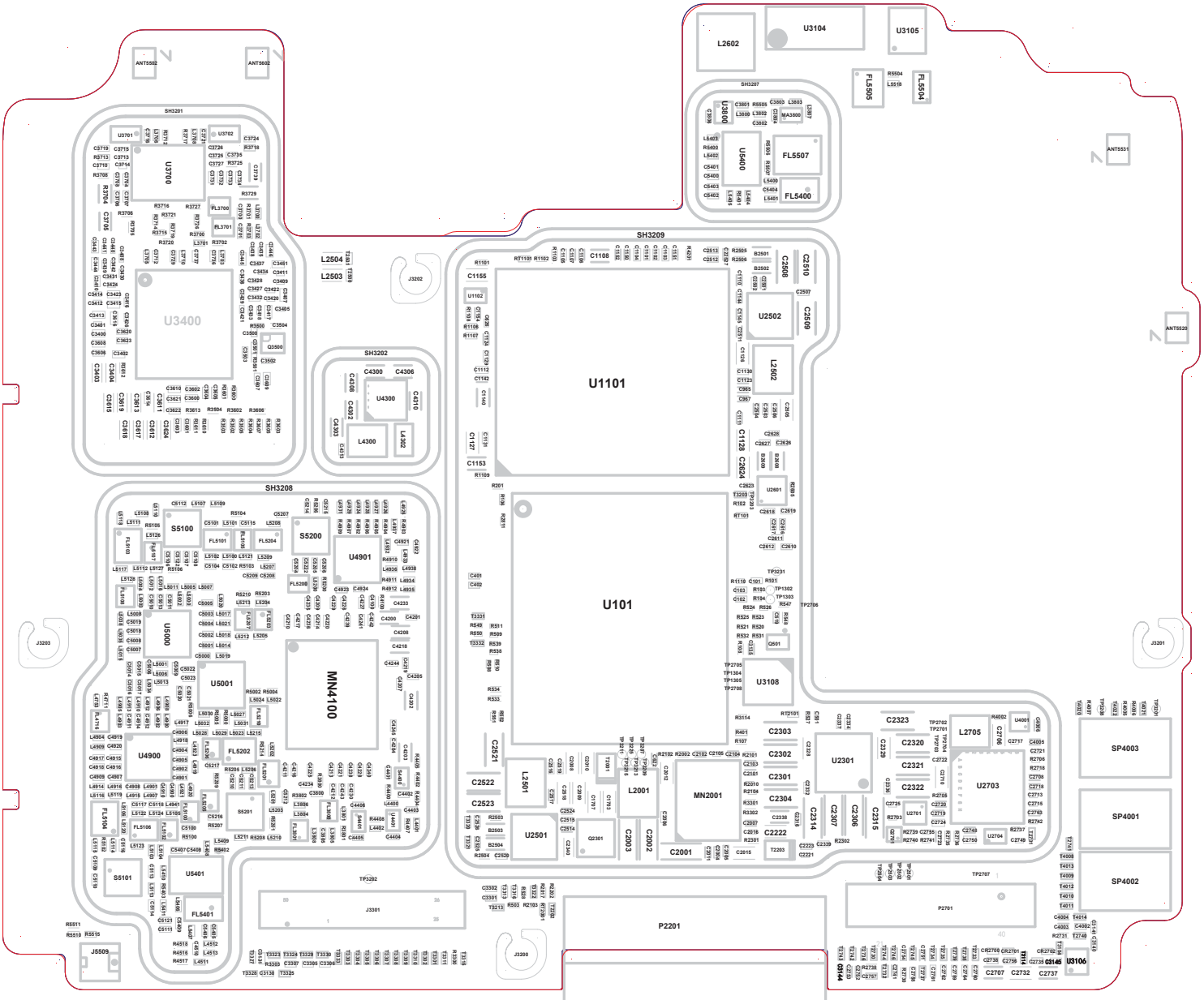
Below, you can find materials and information about the Fairphone 5. We have focused on the materials that we think are most important for recyclers and indicated where they are mostly situated. This weight information is to help recyclers estimate the value of recycling the phone. The exact weight of 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 You can find mainly in these components	% of total mass in FP5	Modules The components belong to these modules	Modules
Tungsten	7440-10-0	0.75	Vibration Mechanism	99%	PCBA	PCBA
Tin	7440-10-0	0.87	Solder paste in PCBA	51%	PCBA	PCBA
			Solder paste in Battery	25%	Battery	Battery
Aluminum	7429-90-5	38.69	Mid-frame	94.40%	Mid-frame	Mid-frame
Rare Earth Elements	see rare earth	0.15	Speaker, Vibration Mechanism, cameras	100%	Loudspeaker, cameras	Loudspeaker, cameras
Nickel	7440-02-0	3.05	Shields Copper alloy	41.50%	PCBA	PCBA
			Battery cell	16.80%	Battery	Battery
			Battery steel sheet	19.50%	Battery	Battery
Zinc	7440-10-0	1.03	Shields Copper alloy	94%	PCBA	PCBA
Copper	7440-50-8	16.85	Shields Copper alloy	25.60%	PCBA	PCBA
			PCB	28.40%	PCBA	PCBA
			Battery	6.10%	Battery	Battery
			Copper foil	9.00%	Display	Display
Magnesium	7439-95-4	4.96	Display frame	91.00%	Display	Display
Gold	7440-57-5	0.023	Cameras, PCB, connectors, etc.	100.00%	Almost all modules	Almost all modules
Plastics	PC+30%G	3.06	FP5-display-frame	100%	Display	Display

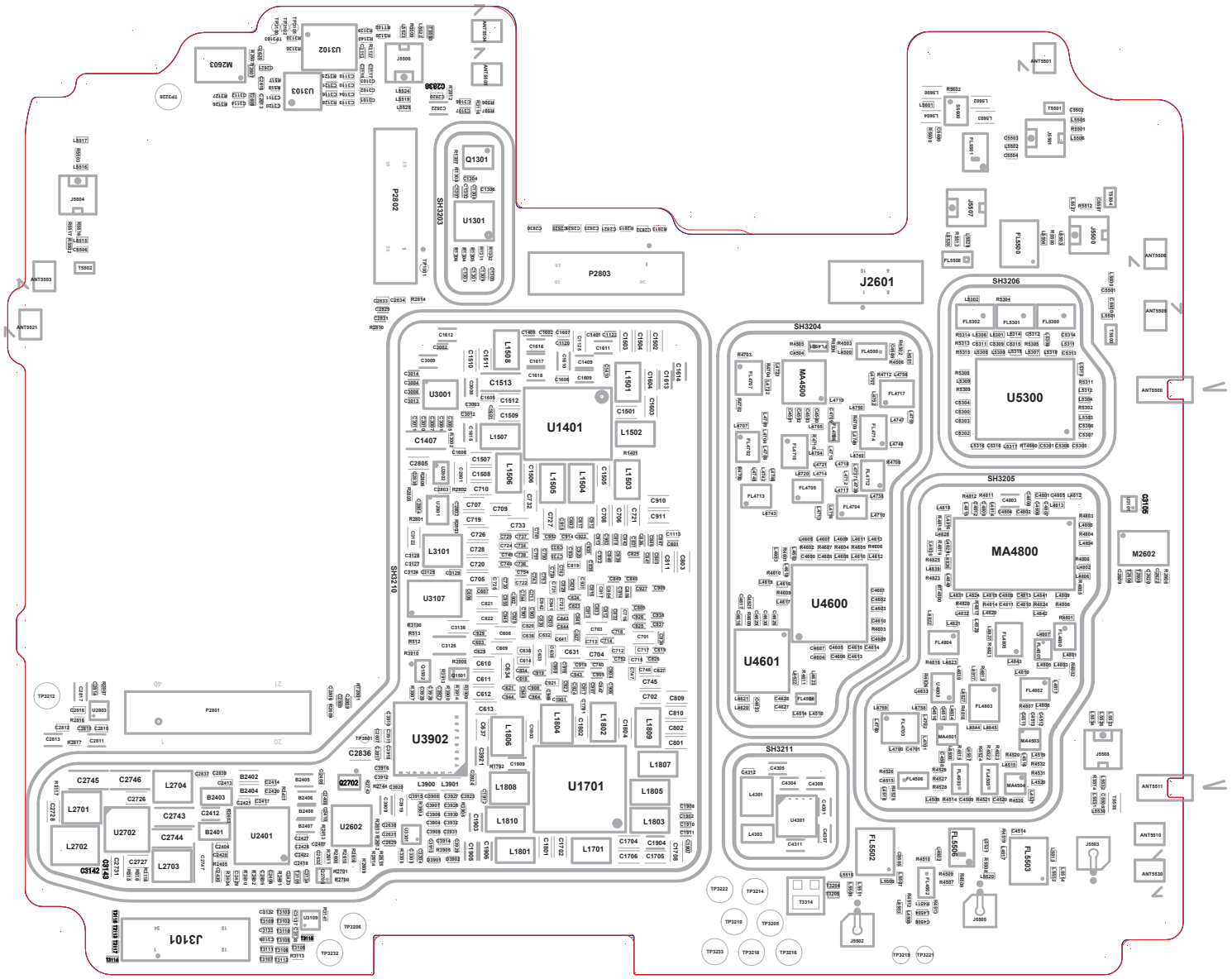
FAIRPHONE

	F					
	PBT+30% GF	5.75	FP5-middle-frame		mid-frame	mid-frame
	PC	5.33	FP5-top-antenna -cover		Top Unit	Top Unit
	PC	0.56	FP5-camera-island		Main Camera, Ultra-Wide Camera	Main Camera, Ultra-Wide Camera
	PC	0.17	FP5-connector-cover		PCBA	PCBA
	PC	0.44	FP5-rf-cable-frame		RF cable	RF cable
	PC	1.9400000	FP5-SPK-cover		Loudspeaker	Loudspeaker
	PC	12.68	FP5-Back-cover		Back Cover	Back Cover
	PC/ABS	2.32	FP5- battery frame		Battery	Battery
Indium	7440-74-6	0.00	Display panel	76.80%	Display	Display
Cobalt	7440-48-4	12.32	battery	99.80%	Battery	Battery
Lithium	7439-93-2	1.47	battery	98.80%	Battery	Battery
Silver	7440-22-4	0.083	Solder paste	22%	PCBA	PCBA
			battery package	14%	Battery	Battery
			passives	19%	PCBA	PCBA
Mica	12001-26-2	0.01700	BTB connector	100%	PCBA	PCBA
Palladium	7440-05-03	0.00	ICs, passive	100%	PCBA	PCBA
Platinum	7440-06-04	0.00	ICs	100%	PCBA	PCBA

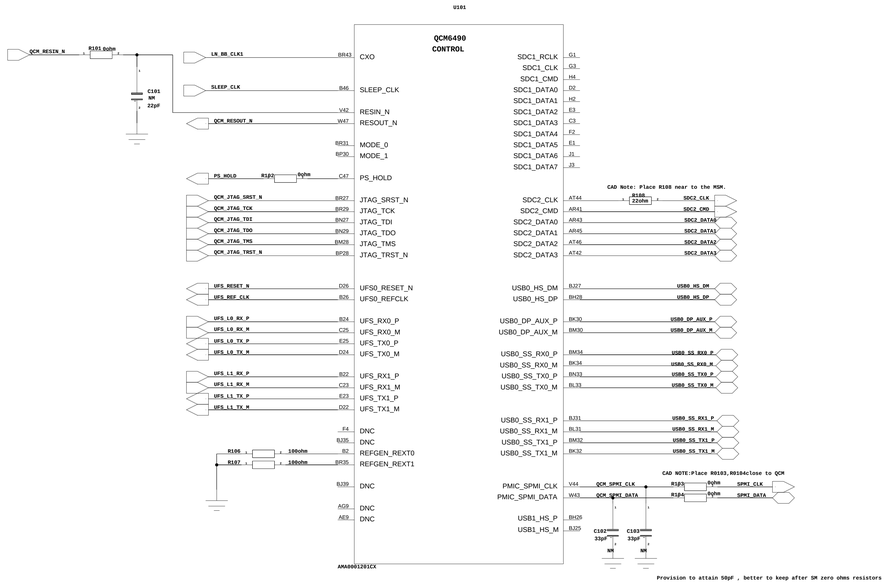
TOP

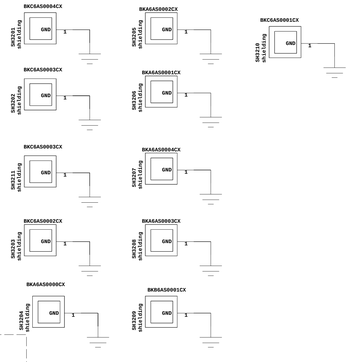

L2602
U3104
U3105
FL5505
FL5504
SH3207
U3800
U5400
FL5507
FL5400
ANT5531
ANT5520
SH3209
U1101
U2502
L2502
C2508
C2510
C2509
U101
U3108
U2301
U2703
SP4003
SP4001
SP4002
SH3208
MN4100
U5001
U5000
U4900
S5100
S5200
U4901
L2501
L2001
MN2001
U2501
L2705
U2704
U2706
U2707
U3106
P2701
P2201
J5509
J3200
J3201
J3202
J3203
J3301
SH3201
U3700
U3400
SH3202
U4300
L4300
L4302
U5401
FL5401
S5101
ANT5502
ANT5602

BOT


U1401
U3902
U1701
U3001
U3107
U3101
U3102
U3103
U2401
U2602
U2702
U2703
U2704
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QCM6490 CONTROL

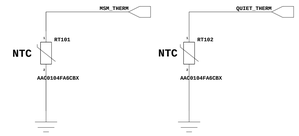




MARK



Kodiak - Thermistors

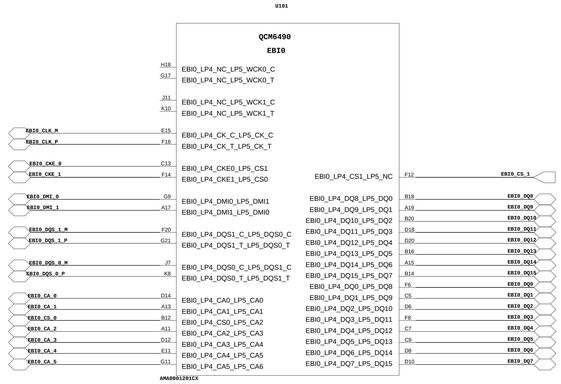


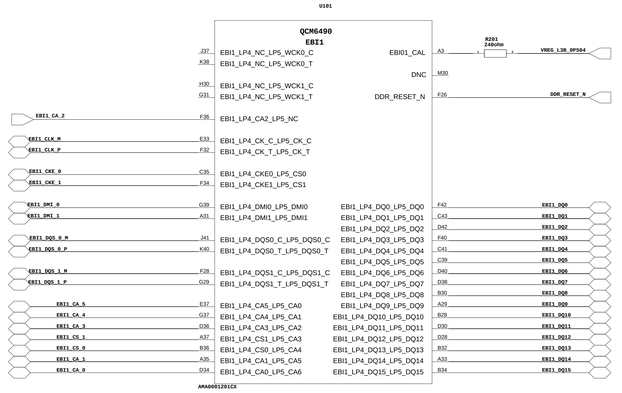
RT101:Place Near MSM

RT102:Place away from PMIC and heat-sources

20230216

QCM6490 EBI


U101
QCM6490
EBI0
H18 EBI0_LP4_NC_LP5_WCK0_C
G17 EBI0_LP4_NC_LP5_WCK0_T
J11 EBI0_LP4_NC_LP5_WCK1_C
K10 EBI0_LP4_NC_LP5_WCK1_T
EBI0_CLK_M E15 EBI0_LP4_CK_C_LP5_CK_C
EBI0_CLK_P F16 EBI0_LP4_CK_T_LP5_CK_T
EBI0_CKE_0 C13 EBI0_LP4_CKE0_LP5_CS1
EBI0_CKE_1 F14 EBI0_LP4_CKE1_LP5_CS0
EBI0_LP4_CS1_LP5_NC F12 EBI0_CS_1
EBI0_DMI_0 G9 EBI0_LP4_DMI0_LP5_DMI1
EBI0_DMI_1 A17 EBI0_LP4_DMI1_LP5_DMI0
EBI0_LP4_DQ8_LP5_DQ0 B18 EBI0_DQ0
EBI0_LP4_DQ9_LP5_DQ1 A19 EBI0_DQ1
EBI0_LP4_DQ10_LP5_DQ2 B20 EBI0_DQ10
EBI0_LP4_DQ11_LP5_DQ3 D18 EBI0_DQ11
EBI0_DQS_1_M F20 EBI0_LP4_DQS1_C_LP5_DQS0_C
EBI0_DQS_1_P G21 EBI0_LP4_DQS1_T_LP5_DQS0_T
EBI0_LP4_DQ12_LP5_DQ4 D20 EBI0_DQ12
EBI0_LP4_DQ13_LP5_DQ5 B16 EBI0_DQ13
EBI0_DQS_0_M J7 EBI0_LP4_DQS0_C_LP5_DQS1_C
EBI0_DQS_0_P K8 EBI0_LP4_DQS0_T_LP5_DQS1_T
EBI0_LP4_DQ14_LP5_DQ6 A15 EBI0_DQ14
EBI0_LP4_DQ15_LP5_DQ7 B14 EBI0_DQ15
EBI0_LP4_DQ0_LP5_DQ8 F6 EBI0_DQ8
EBI0_LP4_DQ1_LP5_DQ9 C5 EBI0_DQ1
EBI0_CA_0 D14 EBI0_LP4_CA0_LP5_CA0
EBI0_CA_1 A13 EBI0_LP4_CA1_LP5_CA1
EBI0_LP4_DQ2_LP5_DQ10 D6 EBI0_DQ2
EBI0_CS_0 B12 EBI0_LP4_CS0_LP5_CA2
EBI0_LP4_DQ3_LP5_DQ11 F8 EBI0_DQ3
EBI0_CA_2 A11 EBI0_LP4_CA2_LP5_CA3
EBI0_LP4_DQ4_LP5_DQ12 C7 EBI0_DQ4
EBI0_CA_3 D12 EBI0_LP4_CA3_LP5_CA4
EBI0_LP4_DQ5_LP5_DQ13 C9 EBI0_DQ5
EBI0_CA_4 E11 EBI0_LP4_CA4_LP5_CA5
EBI0_LP4_DQ6_LP5_DQ14 D8 EBI0_DQ6
EBI0_CA_5 G11 EBI0_LP4_CA5_LP5_CA6
EBI0_LP4_DQ7_LP5_DQ15 D10 EBI0_DQ7
AMA0091201CX


U101
QCM6490
EBI1
J37 EBI1_LP4_NC_LP5_WCK0_C
K36 EBI1_LP4_NC_LP5_WCK0_T
H30 EBI1_LP4_NC_LP5_WCK1_C
G31 EBI1_LP4_NC_LP5_WCK1_T
EBI1_CA_2 F36 EBI1_LP4_CA2_LP5_NC
EBI1_CLK_M E33 EBI1_LP4_CK_C_LP5_CK_C
EBI1_CLK_P F32 EBI1_LP4_CK_T_LP5_CK_T
EBI1_CKE_0 C35 EBI1_LP4_CKE0_LP5_CS0
EBI1_CKE_1 F34 EBI1_LP4_CKE1_LP5_CS1
EBI1_DMI_0 G39 EBI1_LP4_DMI0_LP5_DMI0
EBI1_DMI_1 A31 EBI1_LP4_DMI1_LP5_DMI1
EBI1_DQS_0_M J41 EBI1_LP4_DQS0_C_LP5_DQS0_C
EBI1_DQS_0_P K40 EBI1_LP4_DQS0_T_LP5_DQS0_T
EBI1_DQS_1_M F28 EBI1_LP4_DQS1_C_LP5_DQS1_C
EBI1_DQS_1_P G29 EBI1_LP4_DQS1_T_LP5_DQS1_T
EBI1_CA_5 E37 EBI1_LP4_CA5_LP5_CA0
EBI1_CA_4 G37 EBI1_LP4_CA4_LP5_CA1
EBI1_CA_3 D36 EBI1_LP4_CA3_LP5_CA2
EBI1_CS_1 A37 EBI1_LP4_CS1_LP5_CA3
EBI1_CS_0 B35 EBI1_LP4_CS0_LP5_CA4
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EBI1_CA_0 D34 EBI1_LP4_CA0_LP5_CA6
EBI1_LP4_DQ0_LP5_DQ0 F42 EBI1_DQ0
EBI1_LP4_DQ1_LP5_DQ1 C43 EBI1_DQ1
EBI1_LP4_DQ2_LP5_DQ2 D42 EBI1_DQ2
EBI1_LP4_DQ3_LP5_DQ3 F40 EBI1_DQ3
EBI1_LP4_DQ4_LP5_DQ4 C41 EBI1_DQ4
EBI1_LP4_DQ5_LP5_DQ5 C39 EBI1_DQ5
EBI1_LP4_DQ6_LP5_DQ6 D40 EBI1_DQ6
EBI1_LP4_DQ7_LP5_DQ7 D38 EBI1_DQ7
EBI1_LP4_DQ8_LP5_DQ8 B30 EBI1_DQ8
EBI1_LP4_DQ9_LP5_DQ9 A29 EBI1_DQ9
EBI1_LP4_DQ10_LP5_DQ10 B28 EBI1_DQ10
EBI1_LP4_DQ11_LP5_DQ11 D30 EBI1_DQ11
EBI1_LP4_DQ12_LP5_DQ12 D28 EBI1_DQ12
EBI1_LP4_DQ13_LP5_DQ13 B32 EBI1_DQ13
EBI1_LP4_DQ14_LP5_DQ14 A33 EBI1_DQ14
EBI1_LP4_DQ15_LP5_DQ15 B34 EBI1_DQ15
EBI01_CAL A3
R201
240ohm
VREG_L3B_0P504
DNC M30
DDR_RESET_N F26 DDR_RESET_N
AMA0091201CX

SM7325 DSI/CSI

50M OIS CAMERA-C-PHY

C_PHY ROUTE DIFFER 45OHM+/-5OHM

50M UW CAMERA

D_PHY ROUTE DIFFER 90OHM+/-10%

FRONT CAMERA

D_PHY ROUTE DIFFER 90OHM+/-10%

LCD

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	
MIPI_CSI1_L1_M		AN3	CSI1_B1_LN1_M	CSI4_B1_LN1_M	AA5	
MIPI_CSI1_L2_P		AR1	CSI1_C1_LN2_P	CSI4_C1_LN2_P	Y8	
MIPI_CSI1_L2_M		AR3	CSI1_A2_LN2_M	CSI4_A2_LN2_M	Y6	
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 — R3 — PCIE0_REFCLK_P
PCIE0_REFCLK_M — T2 — PCIE0_REFCLK_M

PCIE0_RX_P — U1 — PCIE0_RX_P
PCIE0_RX_M — U3 — PCIE0_RX_M

PCIE0_TX_AC_P — C401 — 220nF — V4 — PCIE0_TX_P
PCIE0_TX_AC_M — C402 — 220nF — 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

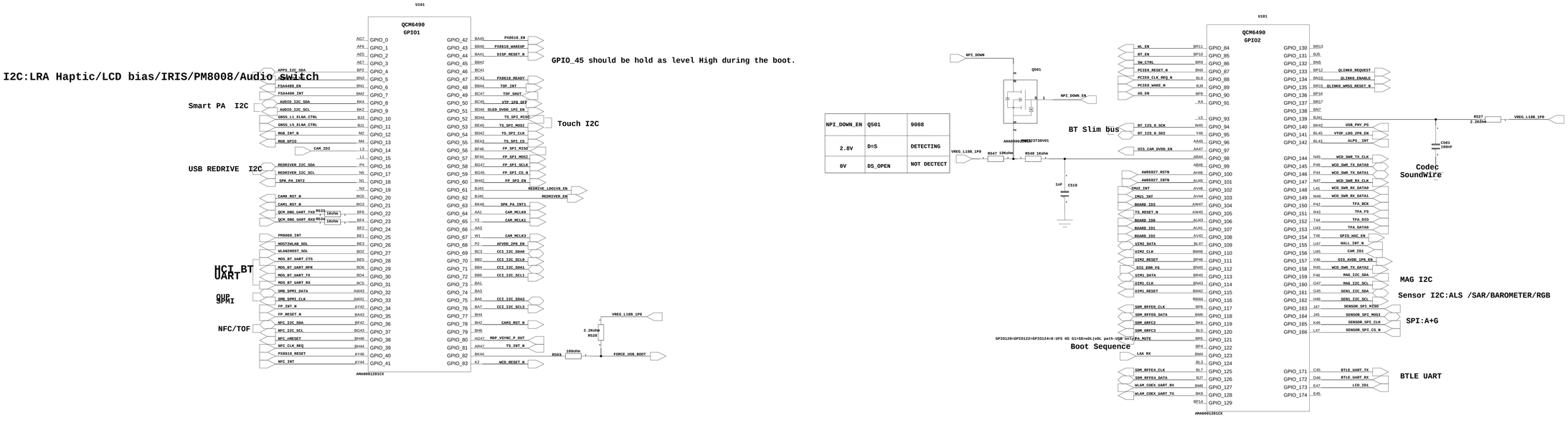
QCM6490
WLAN_QLINK

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 — BR23
QLINK1_L8_M — BN23

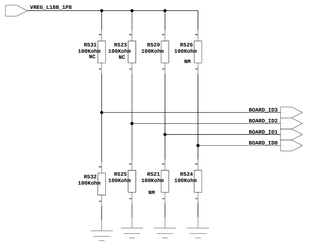
AMA0001201CX



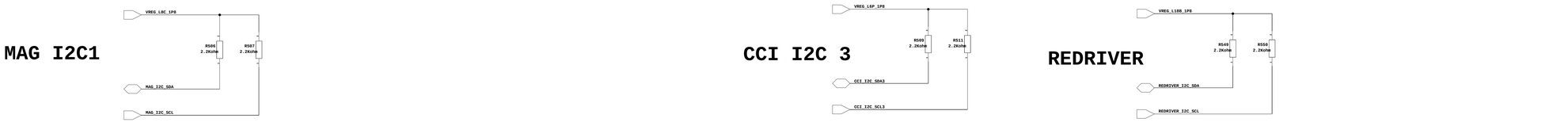
NPI_DOWN_EN	Q501	9008
2.8V	D=S	DETECTING
0V	DS_OPEN	NOT DECTECT

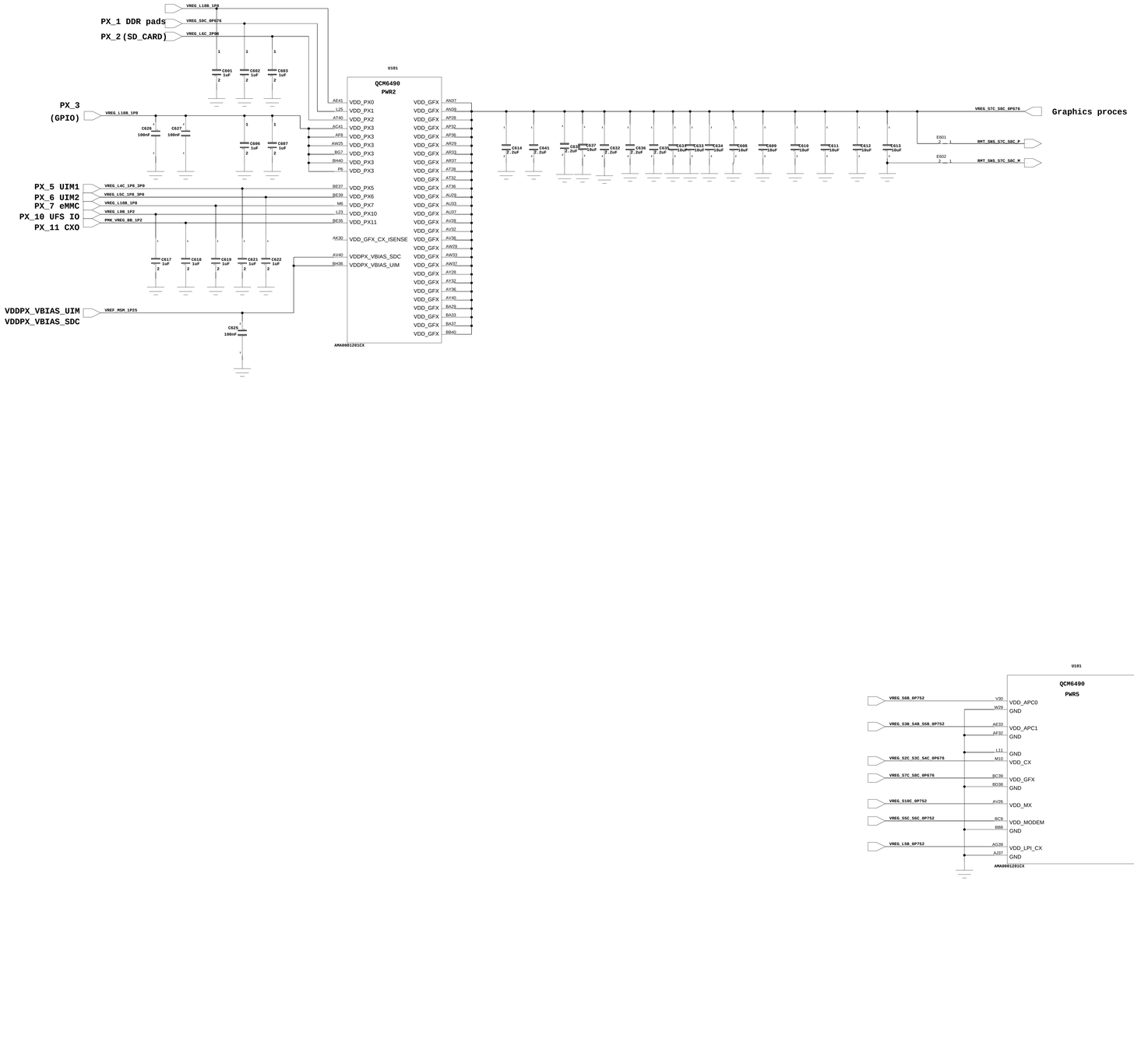
I2C PULL- UP RESISTORS

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	








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_L1B_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
U101
QCM6490
PWR2
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
VDD_GFX 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
C614 2.2uF
C641 2.2uF
C635 2.2uF
C637 10uF
C632 2.2uF
C636 2.2uF
C638 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

C737 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
AU22 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 Y38
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

VREG_S3B_S4B_S5B_BP752

C719 10uF

C720 10uF

C721 10uF

C722 2.2uF

C723 2.2uF

C724 2.2uF

C725 2.2uF

E703

E704

RMT_SNS_S3B_S4B_S5B_P

RMT_SNS_S3B_S4B_S5B_M

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

GND

VREG_S6B_BP752

C750 1uF

C751 1uF

C732 10uF

C733 10uF

E705

E706

RMT_SNS_S6B_P

RMT_SNS_S6B_M

C734 1uF

C735 1uF

C736 1uF

C737 1uF

C738 1uF

C739 1uF

C741 1uF

C742 1uF

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

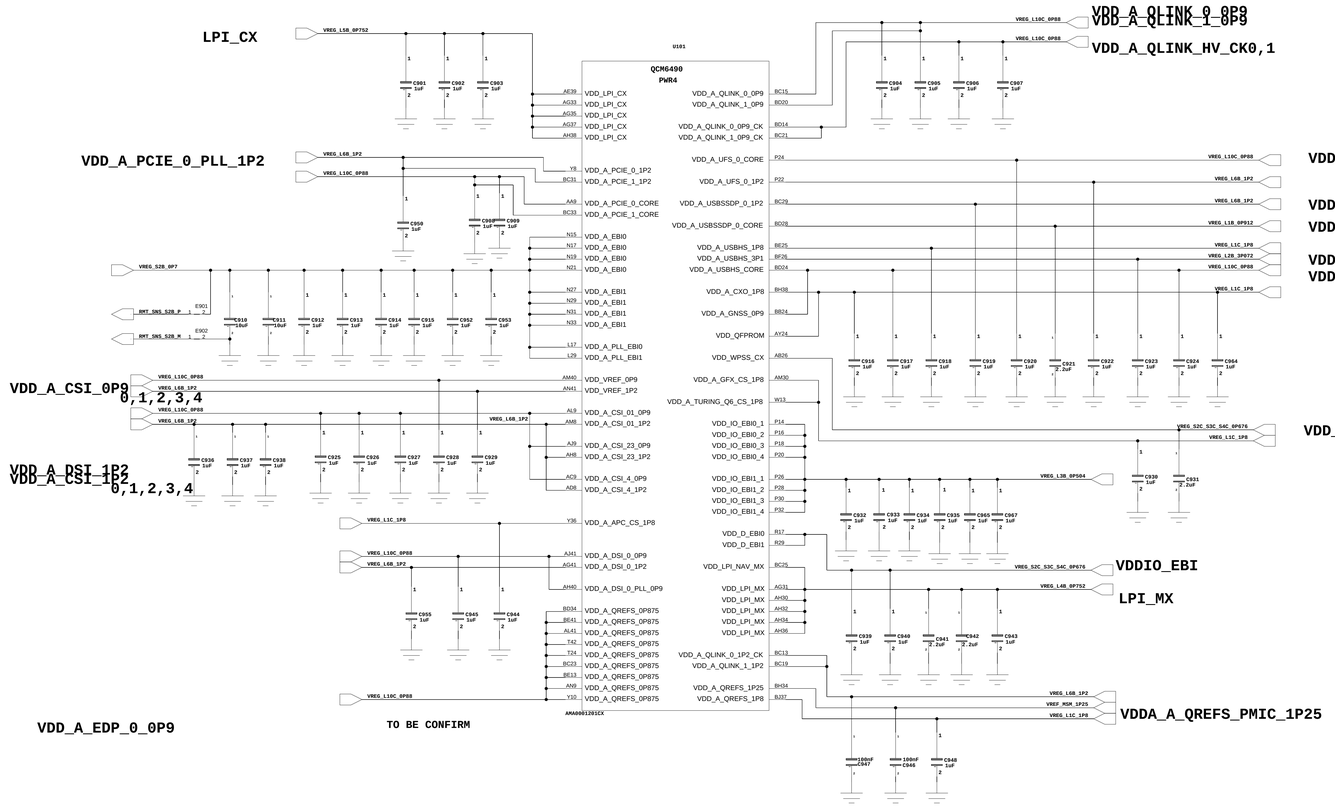
C834 1uF

C805 1uF

C836 1uF

AA11	VDD_CX	U13	VDD_CX
AD14	VDD_CX	U15	VDD_CX
AD16	VDD_CX	U17	VDD_CX
AD18	VDD_CX	U19	VDD_CX
AD20	VDD_CX	U21	VDD_CX
AD22	VDD_CX	AA23	VDD_CX
AD26	VDD_CX	U23	VDD_CX
AE11	VDD_CX	U27	VDD_CX
AE13	VDD_CX	V22	VDD_CX
AE15	VDD_CX	V26	VDD_CX
AE17	VDD_CX	W23	VDD_CX
AA13	VDD_CX	Y12	VDD_CX
AE19	VDD_CX	Y14	VDD_CX
AE21	VDD_CX	Y16	VDD_CX
AE23	VDD_CX	Y18	VDD_CX
AE27	VDD_CX	Y20	VDD_CX
AF26	VDD_CX	AC23	VDD_CX
AG27	VDD_CX	Y22	VDD_CX
AG29	VDD_CX	AD12	VDD_CX
AH20	VDD_CX		
AH22	VDD_CX		
AH26	VDD_CX		
AA15	VDD_CX		
AJ17	VDD_CX		
AJ19	VDD_CX	VDD_MX	AA27
AJ21	VDD_CX	VDD_MX	AB24
AJ23	VDD_CX	VDD_MX	AC27
AJ27	VDD_CX	VDD_MX	AD24
AK26	VDD_CX	VDD_MX	AF24
AL27	VDD_CX	VDD_MX	AG11
AL29	VDD_CX	VDD_MX	AG13
AL31	VDD_CX	VDD_MX	AG15
AL33	VDD_CX	VDD_MX	AG17
AA17	VDD_CX	VDD_MX	AG19
AL35	VDD_CX	VDD_MX	AG21
AL37	VDD_CX	VDD_MX	AG23
AL39	VDD_CX	VDD_MX	AH16
AM18	VDD_CX	VDD_MX	AH24
AM22	VDD_CX	VDD_MX	AK16
AM28	VDD_CX	VDD_MX	AK24
AN21	VDD_CX	VDD_MX	AL25
AN23	VDD_CX	VDD_MX	AM16
AN27	VDD_CX	VDD_MX	AM24
AR25	VDD_CX	VDD_MX	AN29
AA19	VDD_CX	VDD_MX	AN33
AR27	VDD_CX	VDD_MX	AN35
AU25	VDD_CX	VDD_MX	AP34
AY26	VDD_CX	VDD_MX	AT24
M8	VDD_CX	VDD_MX	AT26
N9	VDD_CX	VDD_MX	AU9
N11	VDD_CX	VDD_MX	AW9
N13	VDD_CX	VDD_MX	BA9
T6	VDD_CX	VDD_MX	BB32
T8	VDD_CX	VDD_MX	BB34
T12	VDD_CX	VDD_MX	BB36
AA21	VDD_CX	VDD_MX	BB38
T26	VDD_CX	VDD_MX	P10
U5	VDD_CX	VDD_MX	P12
U7	VDD_CX	VDD_MX	V28
U9	VDD_CX	VDD_MX	W27
U11	VDD_CX	VDD_MX	Y24

ANA0012101CX


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_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
VREG_L9B_1P2
VREG_L10C_0P88
VREG_S2B_0P7
VREG_L8B_1P2
VREG_L3B_0P912
VREG_L1C_1P8
VREG_L2B_3P072
VREG_L9C_0P88
VREG_S2C_S3C_S4C_0P676
VREG_L3B_0P504
VREG_L4B_0P752
VREF_MSM_1P25
RMT_SNS_S2B_P
RMT_SNS_S2B_M
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_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_A_QLINK_0_1P2_CK
VDD_A_QLINK_1_1P2
VDD_A_QREFS_1P25
VDD_A_QREFS_1P8
AMA00012301EX

U101

QCM6490
GND5

BC27	GND	GND	BH20
BC35	GND	GND	BH22
BC37	GND	GND	BH24
BD8	GND	GND	BH30
BD10	GND	GND	BH32
BD12	GND	GND	BJ17
BD16	GND	GND	BJ19
BD22	GND	GND	BJ21
BD26	GND	GND	BJ23
BD30	GND	GND	BJ29
BD32	GND	GND	BJ33
BD36	GND	GND	BJ47
BD40	GND	GND	BK10
BE7	GND	GND	BK20
BE9	GND	GND	BK22
BE11	GND	GND	BK24
BE15	GND	GND	BK26
BE19	GND	GND	BK28
BE21	GND	GND	BK36
BE23	GND	GND	BK38
BE27	GND	GND	BK40
BE29	GND	GND	BL1
BE31	GND	GND	BL17
BE33	GND	GND	BL23
BE47	GND	GND	BL27
BF8	GND	GND	BL29
BF10	GND	GND	BL35
BF12	GND	GND	BL39
BF14	GND	GND	BL41
BF16	GND	GND	BM10
BF20	GND	GND	BM14
BF22	GND	GND	BM16
BF24	GND	GND	BM26
BF28	GND	GND	BN11
BF30	GND	GND	BN13
BF32	GND	GND	BN17
BF34	GND	GND	BN31
BF36	GND	GND	BN35
BF38	GND	GND	BN41
BF40	GND	GND	BN47
BG1	GND	GND	BP18
BG9	GND	GND	BP26
BG11	GND	GND	BP32
BG13	GND	GND	BP34
BG15	GND	GND	BP44
BG17	GND	GND	BR1
BG19	GND	GND	BR3
BG21	GND	GND	BR7
BG23	GND	GND	BR19
BG25	GND	GND	BR21
BG27	GND	GND	BR25
BG29	GND	GND	BR33
BG31	GND	GND	BR37
BG33	GND	GND	BR41
BG35	GND	GND	BR47
BG37	GND		
BG39	GND		
BG41	GND		
BH8	GND		
BH10	GND		
BH12	GND		
BH18	GND		

AMA000129ICX

U101

QCM6490
GND4

AM10	GND	GND	AU31
AM12	GND	GND	AU35
AM20	GND	GND	AU39
AM26	GND	GND	AU47
AM32	GND	GND	AV2
AM34	GND	GND	AV8
AM36	GND	GND	AV12
AM38	GND	GND	AV16
AM42	GND	GND	AV20
AN11	GND	GND	AV24
AN15	GND	GND	AV30
AN25	GND	GND	AV34
AN31	GND	GND	AV38
AN47	GND	GND	AW11
AP2	GND	GND	AW15
AP8	GND	GND	AW19
AP12	GND	GND	AW23
AP16	GND	GND	AW27
AP20	GND	GND	AW31
AP22	GND	GND	AW35
AP26	GND	GND	AW39
AP30	GND	GND	AY2
AP34	GND	GND	AY4
AP38	GND	GND	AY6
AP40	GND	GND	AY8
AP42	GND	GND	AY12
AP44	GND	GND	AY16
AP46	GND	GND	AY20
AR11	GND	GND	AY30
AR15	GND	GND	AY34
AR19	GND	GND	AY38
AR23	GND	GND	BA11
AR31	GND	GND	BA15
AR35	GND	GND	BA19
AR39	GND	GND	BA23
AT2	GND	GND	BA25
AT4	GND	GND	BA27
AT6	GND	GND	BA31
AT8	GND	GND	BA35
AT12	GND	GND	BA39
AT16	GND	GND	BA47
AT20	GND	GND	BB12
AT30	GND	GND	BB16
AT34	GND	GND	BB20
AT38	GND	GND	BB26
AU11	GND	GND	BB28
AU15	GND	GND	BB30
AU19	GND	GND	BC1
AU23	GND	GND	BC7
AU27	GND	GND	BC11

AMA000129ICX

U101

QCM6490
GND2

J43	GND	GND	R7
K6	GND	GND	R9
K12	GND	GND	R11
K14	GND	GND	R13
K18	GND	GND	R15
K38	GND	GND	R19
K20	GND	GND	R21
K22	GND	GND	R23
K24	GND	GND	R25
K26	GND	GND	R27
K28	GND	GND	R31
K30	GND	GND	R33
K32	GND	GND	R37
K34	GND	GND	R41
K36	GND	GND	R47
K42	GND	GND	T4
K44	GND	GND	T10
L7	GND	GND	T14
L9	GND	GND	T16
L13	GND	GND	T18
L15	GND	GND	T20
L19	GND	GND	T22
L21	GND	GND	T28
L27	GND	GND	T30
L31	GND	GND	T32
L33	GND	GND	T34
L35	GND	GND	T38
L37	GND	GND	U25
L39	GND	GND	U37
L41	GND	GND	U41
L43	GND	GND	V6
M12	GND	GND	V8
M14	GND	GND	V10
M18	GND	GND	V12
M20	GND	GND	V14
M22	GND	GND	V16
M26	GND	GND	V18
M32	GND	GND	V20
M34	GND	GND	V24
M40	GND	GND	V38
M44	GND	GND	W3
N7	GND	GND	W9
N23	GND	GND	W11
N25	GND	GND	W15
N37	GND	GND	W17
P8	GND	GND	W19
P34	GND	GND	W21
P38	GND	GND	W25
R1	GND	GND	W31
R5	GND	GND	W33

AMA000129ICX

U101

QCM6490
GND1

A1	GND	GND	F10
A5	GND	GND	F18
A7	GND	GND	F22
A9	GND	GND	F24
A21	GND	GND	F38
A23	GND	GND	F44
A25	GND	GND	G6
A27	GND	GND	G7
A39	GND	GND	G13
A41	GND	GND	G15
A43	GND	GND	G23
A45	GND	GND	G25
A47	GND	GND	G27
B4	GND	GND	G33
B6	GND	GND	G35
B8	GND	GND	G41
B10	GND	GND	G43
B38	GND	GND	H6
B40	GND	GND	H8
B42	GND	GND	H10
B44	GND	GND	H12
C1	GND	GND	H14
C11	GND	GND	H16
C15	GND	GND	H20
C17	GND	GND	H22
C19	GND	GND	H24
C21	GND	GND	H26
C27	GND	GND	H28
C29	GND	GND	H32
C31	GND	GND	H34
C33	GND	GND	H36
C37	GND	GND	H38
D4	GND	GND	H40
D16	GND	GND	H42
D32	GND	GND	H44
D44	GND	GND	J5
E5	GND	GND	J9
E7	GND	GND	J13
E9	GND	GND	J15
E13	GND	GND	J17
E17	GND	GND	J19
E19	GND	GND	J21
E21	GND	GND	J23
E27	GND	GND	J25
E29	GND	GND	J27
E31	GND	GND	J29
E35	GND	GND	J31
E39	GND	GND	J33
E41	GND	GND	J35
E43	GND	GND	J39

AMA000129ICX

U101

QCM6490
GND3

W35	GND	GND	AF22
W37	GND	GND	AF28
W41	GND	GND	AF30
Y26	GND	GND	AF34
Y44	GND	GND	AF36
AA35	GND	GND	AF38
AB4	GND	GND	AF40
AB10	GND	GND	AF42
AB12	GND	GND	AG1
AB14	GND	GND	AG25
AB16	GND	GND	AH2
AB18	GND	GND	AH4
AB20	GND	GND	AH6
AB22	GND	GND	AH10
AB28	GND	GND	AH12
AB30	GND	GND	AH18
AB32	GND	GND	AH28
AB34	GND	GND	AH42
AB36	GND	GND	AH44
AB38	GND	GND	AJ15
AB40	GND	GND	AJ25
AB42	GND	GND	AJ29
AC11	GND	GND	AJ31
AC13	GND	GND	AJ33
AC15	GND	GND	AJ35
AC17	GND	GND	AJ39
AC19	GND	GND	AJ47
AC21	GND	GND	AK2
AC25	GND	GND	AK10
AC29	GND	GND	AK12
AC31	GND	GND	AK18
AC33	GND	GND	AK20
AC35	GND	GND	AK22
AC37	GND	GND	AK28
AC39	GND	GND	AK32
AC47	GND	GND	AK34
AD4	GND	GND	AK36
AD6	GND	GND	AK38
AD10	GND	GND	AK40
AD28	GND	GND	AK42
AD40	GND	GND	AL11
AD42	GND	GND	AL15
AE25	GND	GND	AL17
AE47	GND	GND	AL19
AF10	GND	GND	AL21
AF12	GND	GND	AL23
AF14	GND	GND	AL43
AF16	GND	GND	AM2
AF18	GND	GND	AM4
AF20	GND	GND	AM6

AMA000129ICX

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

VREG_L7B_2P5
C1101 100nF
C1102 100nF
C1103 2.2uF
C1104 2.2uF

VREG_ELDO1_1P8
C1105 100nF
C1106 1uF
C1107 1uF
C1108 4.7uF
R13/R14/T15/T16 NC/SP CAP

VREG_L1BB_1P8
C1110 1uF
C1111 1uF
C1112 2.2uF
C1113 2.2uF

VREG_SOC_0P676
C1120 1uF
C1122 1uF
C1123 1uF
C1124 1uF
C1125 10uF
C1126 10uF
C1127 10uF
C1128 10uF
E1121
E1122
RMT_SNS_SOC_P
RMT_SNS_SOC_M

C1129 100nF
C1130 100nF
C1131 100nF

VREG_L3B_0P504
C1140 4.7uF
C1142 1uF
C1144 1uF
C1145 1uF

C1150 1uF
C1151 1uF
C1152 1uF

UFS_REF_CLK
UFS_L0_RX_P
UFS_L0_RX_M
UFS_L1_RX_P
UFS_L1_RX_M
UFS_L0_TX_P
UFS_L0_TX_M
UFS_L1_TX_P
UFS_L1_TX_M
QCK_RESOUT_N
R1131P 0ohm NM

UFS_RESET_N

R1101 240ohm
R1102 240ohm
R1103 240ohm NM

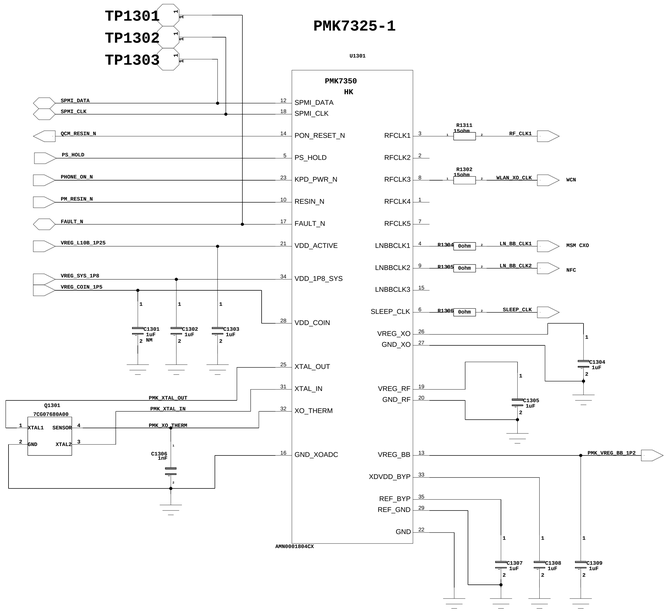
VREG_S1B_1P8S6
R1105 0ohm
C1154 1uF
U1102
VPH_PWR
C1153 4.7uF
R1106 1.82M/NM
AMY0091740CK
VREG_L9B_1P2
R1135 392kohm
R1137 150Kohm
C1155 10uF
VREG_ELDO1_1P8

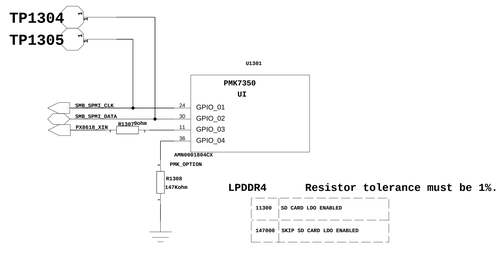
LP-DDR4

U15

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	
EBI0_DQ6	D7	DQ6_A	
EBI0_DQ7	C8	DQ7_A	
EBI0_DMI_0	D5	DMI0_A	
EBI0_DQS_0_P	C9	DQS0_t_A	
EBI0_DQS_0_M	D9	DQS0_c_A	
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	
EBI0_DQS_1_M	J9	DQS1_c_A	
EBI1_CA_0	V14	CA0_B	
EBI1_CA_1	W13	CA1_B	
EBI1_CA_2	AB13	CA2_B	
EBI1_CA_3	AA13	CA3_B	
EBI1_CA_4	Y13	CA4_B	
EBI1_CA_5	AB15	CA5_B	
EBI1_CS_0	Y15	CS0_B	
EBI1_CS_1	W15	CS1_B	
EBI1_CKE_0	Y16	CKE0_B	
EBI1_CKE_1	W16	CKE1_B	
EBI1_CLK_P	U16	CLK_t_B	
EBI1_CLK_M	V16	CLK_c_B	
EBI1_DQ0	AD3	DQ0_B	
EBI1_DQ1	AC3	DQ1_B	
EBI1_DQ2	AB3	DQ2_B	
EBI1_DQ3	AA3	DQ3_B	
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	
EBI1_DQ11	T3	DQ11_B	
EBI1_DQ12	T7	DQ12_B	
EBI1_DQ13	V3	DQ13_B	
EBI1_DQ14	U6	DQ14_B	
EBI1_DQ15	U8	DQ15_B	
EBI1_DMI_1	U3	DMI1_B	
EBI1_DQS_1_P	R9	DQS1_t_B	
EBI1_DQS_1_M	T9	DQS1_c_B	
VREG_SOC_0P676	J13	ODT_A	
	T13	ODT_B	
DDR_RESET_N	AA16	RESET_n	
	B4	VSS-33	
	B6	VSS-32	
	B8	VSS-18	
	C4	VSS-17	
	C5	VSS-16	
	C7	VSS-19	
	C14	VSS-11	
	D4	VSS-10	
	D6	VSS-9	
	D8	VSS-51	
	D14	VSS-23	
	D15	VSS-52	
	E14	VSS-31	
	F14	VSS-30	
	G4	VSS-29	
	G5	VSS-28	
	G6	VSS-42	
	G13	VSS-50	
	G15	VSS-49	
	H4	VSS-48	
	H7	VSS-47	
	H13	VSS-41	
	H15	VSS-40	
	J6	VSS-39	
	K4	VSS-38	
	K7	VSS-37	
	K8	VSS-13	
	R8	VSS-53	
	R4	VSS-22	
	R7	VSS-21	
	T6	VSS-20	
	U4	VSS-15	
	U7	VSS-14	
	U13	VSS-34	
		VSS-12	
	V4	VSS-8	
	V5	VSS-7	
	V6	VSS-6	
	V13	VSS-5	
	V15	VSS-54	
	W14	VSS-24	
	Y14	VSS-25	
	AA4	VSS-27	
	AA6	VSS-26	
	AA8	VSS-35	
	AA14	VSS-36	
	AA15	VSS-1	
	AB4	VSS-2	
	AB5	VSS-3	
	AB7	VSS-4	
	AB14	VSS-43	
	AC4	VSS-44	
	AC6	VSS-45	
	AC8	VSS-46	

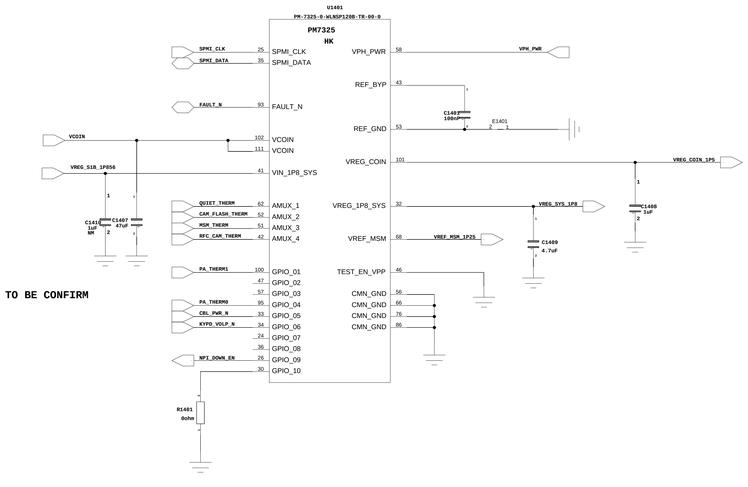
	M17	VCC-1	
	N17	VCC-2	
	P17	VCC-3	
	J15	VCCQ2-1	
	J16	VCCQ2-2	
	J17	VCCQ2-3	
	K15	VCCQ2-4	
	R13	VCCQ-1	
	R14	VCCQ-2	
	T15	VCCQ-3	
	T16	VCCQ-4	
	A4	VDD1-3	
	A9	VDD1-1	
	A15	VDD1-8	
	A16	VDD1-9	
	B15	VDD1-10	
	AC15	VDD1-2	
	AD4	VDD1-4	
	AD9	VDD1-5	
	AD15	VDD1-7	
	AD16	VDD1-6	
	A5	VDD2-6	
	A8	VDD2-5	
	B9	VDD2-3	
	B13	VDD2-4	
	B14	VDD2-7	
	G7	VDD2-14	
	G8	VDD2-15	
	G9	VDD2-16	
	L7	VDD2-8	
	L8	VDD2-17	
	L9	VDD2-18	
	P7	VDD2-11	
	P8	VDD2-19	
	P9	VDD2-20	
	V7	VDD2-21	
	V8	VDD2-22	
	V9	VDD2-23	
	AC9	VDD2-2	
	AC13	VDD2-12	
	AC14	VDD2-1	
	AD5	VDD2-24	
	AD8	VDD2-9	
	K2	VDD2-10	
	R2	VDD2-13	
	A6	VDDQ-5	
	A7	VDDQ-10	
	A13	VDDQ-18	
	A14	VDDQ-11	
	B5	VDDQ-16	
	H5	VDDQ-19	
	H9	VDDQ-3	
	J4	VDDQ-2	
	J5	VDDQ-1	
	J8	VDDQ-13	
	T4	VDDQ-9	
	T5	VDDQ-12	
	T8	VDDQ-8	
	U5	VDDQ-20	
	U9	VDDQ-7	
	AC5	VDDQ-14	
	AD6	VDDQ-17	
	AD7	VDDQ-6	
	AD13	VDDQ-4	
	AD14	VDDQ-15	
	K17	VDDIQ2	
	T17	VDDIQ	
	L17	VDDI	
	P12	RFE_CLK	
	P16	DOUT0_t	
	P15	DOUT0_c	
	N14	DOUT1_t	
	N13	DOUT1_c	
	M16	DIN0_t	
	M15	DIN0_c	
	L14	DIN1_t	
	L13	DIN1_c	
	N9	RFU-2	
	M9	RFU-1	
	M12	RST_n	
	B16	ZQ0_A	
	C16	ZQ1_A	
	M3	NC-1	
	N3	NC-2	
	M4	VSF1	
	N4	VSF2	
	M5	VSF3	
	N5	VSF4	
	M6	VSF5	
	N6	VSF6	
	M7	RFU-3	
	AB16	NC-2	
	AC16	NC-3	
	N7	RFU-4	
	D16	NC-6	
	H14	NC-7	
	J14	NC-8	
	T14	NC-9	
	U14	NC-10	
	A1	DNU-1	
	A2	DNU-2	
	A17	DNU-10	
	A18	DNU-5	
	B1	DNU-12	
	B18	DNU-11	
	AC1	DNU-6	
	AC18	DNU-3	
	AD1	DNU-8	
	AD2	DNU-9	
	AD17	DNU-4	
	AD18	DNU-7	
	K13	VSS-G-1	
	K14	VSS-G-2	
	K16	VSS-G-3	
	L12	VSS-G-4	
	L15	VSS-G-5	
	L16	VSS-G-6	
	M8	VSS-G-7	
	M13	VSS-G-8	
	M14	VSS-G-9	
	N8	VSS-G-10	
	N12	VSS-G-11	
	N15	VSS-G-12	
	N16	VSS-G-13	
	P13	VSS-G-14	
	P14	VSS-G-15	
	R15	VSS-G-16	
	R16	VSS-G-17	
	R17	VSS-G-18	



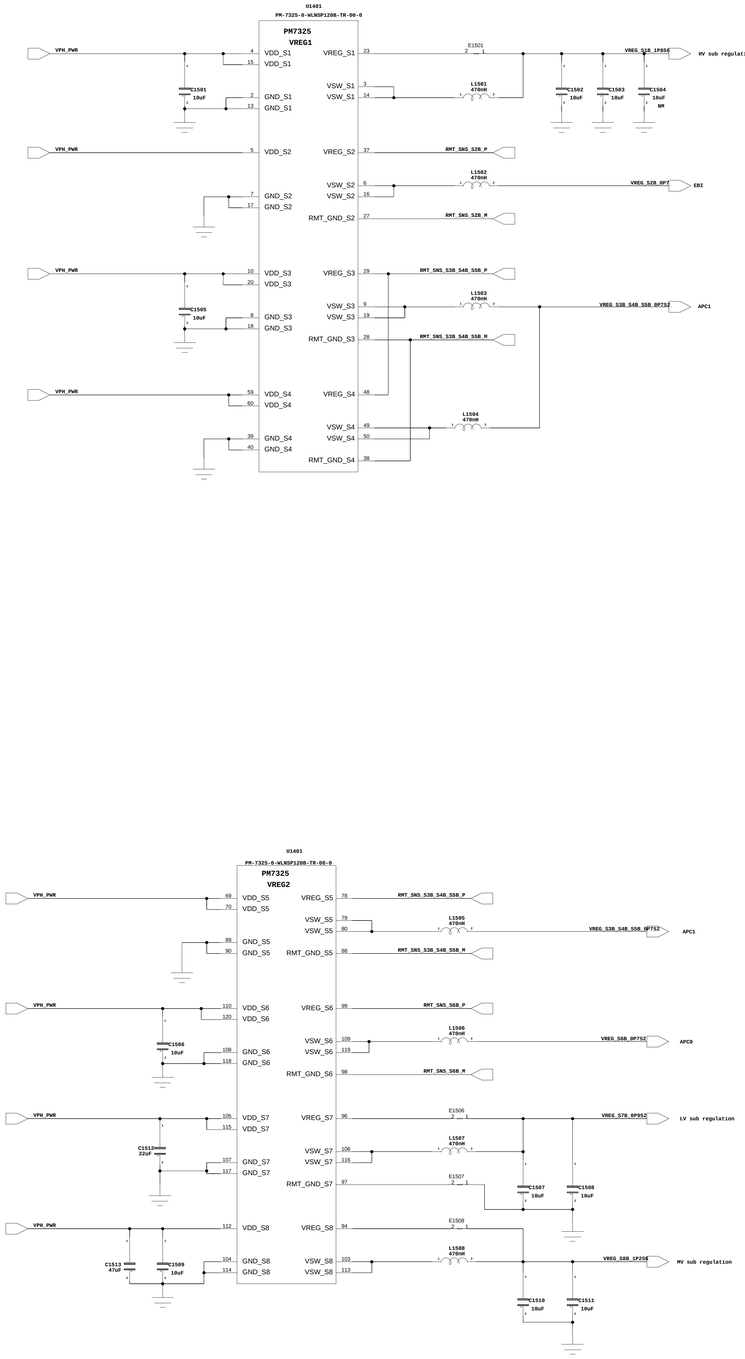


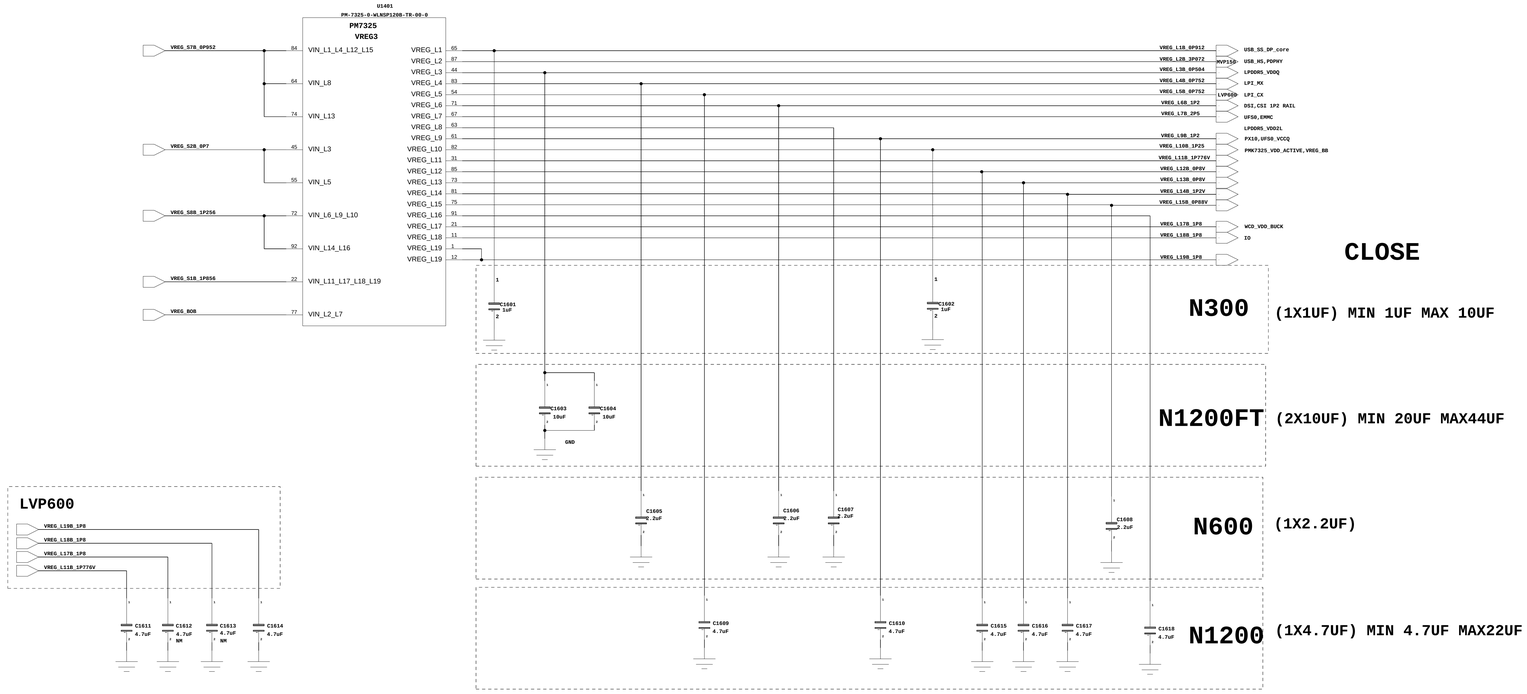
LPDDR4 Resistor tolerance must be 1%.

11300	SD CARD LDO ENABLED
147000	SKIP SD CARD LDO ENABLED



TO BE CONFIRM


U1401
PM-7325-0-WLNSP120B-TR-00-0
PM7325
VREG1
VDD_S1
VDD_S1
GND_S1
GND_S1
VDD_S2
GND_S2
GND_S2
VDD_S3
VDD_S3
GND_S3
GND_S3
VDD_S4
VDD_S4
GND_S4
GND_S4
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
VPH_PWR
C1501 10uF
C1505 10uF
E1501
L1501 470nH
C1502 10uF
C1503 10uF
C1504 10uF NM
VREG_S2B_1P95E
HV sub regulation
RMT_SNS_S2B_P
L1502 470nH
VREG_S2B_0P7
EBI
RMT_SNS_S2B_M
RMT_SNS_S3B_S4B_S5B_P
L1503 470nH
VREG_S3B_S4B_S5B_0P752
APC1
RMT_SNS_S3B_S4B_S5B_M
L1504 470nH
VDD_S5
VDD_S5
GND_S5
GND_S5
VDD_S6
VDD_S6
GND_S6
GND_S6
VDD_S7
VDD_S7
GND_S7
GND_S7
VDD_S8
VDD_S8
GND_S8
GND_S8
VREG_S5
VSW_S5
VSW_S5
RMT_GND_S5
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
RMT_SNS_S5B_S4B_S5B_P
L1505 470nH
VREG_S3B_S4B_S5B_0P752
APC1
RMT_SNS_S5B_S4B_S5B_M
RMT_SNS_S6B_P
L1506 470nH
VREG_S6B_0P752
APC0
RMT_SNS_S6B_M
E1506
VREG_S7B_0P952
LV sub regulation
L1507 470nH
E1507
C1507 10uF
C1508 10uF
E1508
L1508 470nH
VREG_S8B_1P256
HV sub regulation
C1506 10uF
C1512 22uF
C1513 47uF
C1509 10uF
C1510 10uF
C1511 10uF

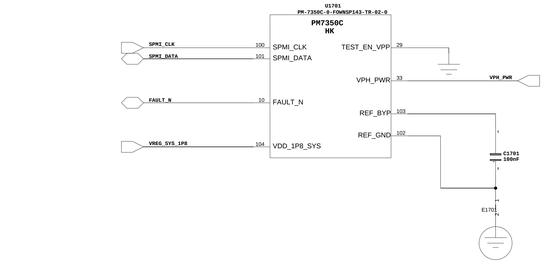


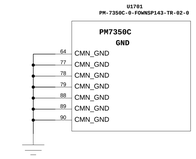
DON' T HAVE TO

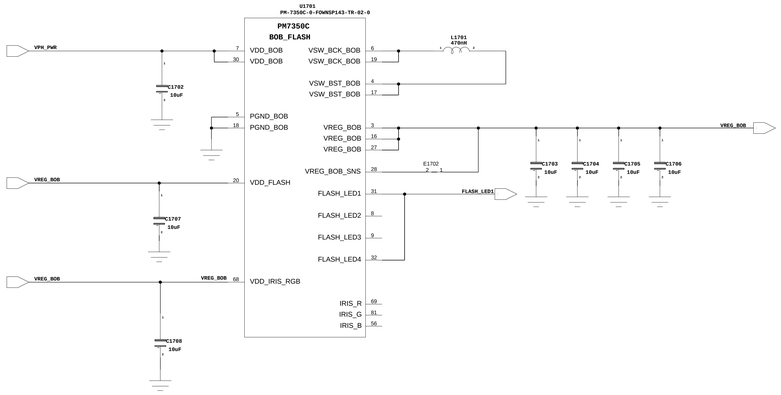
MVP150 MIN 0.47UF,MAX 5UF

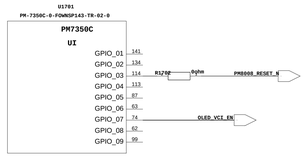
MVP600 MIN 4.7UF,MAX 23.5UF

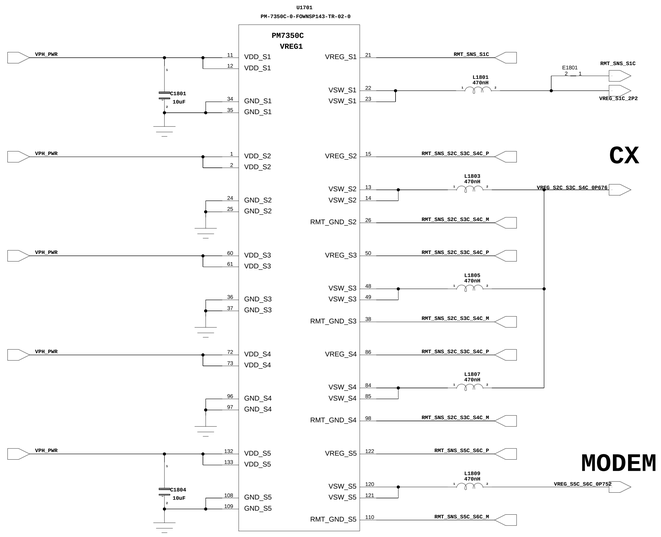
LVP600 MIN 0.47UF,MAX

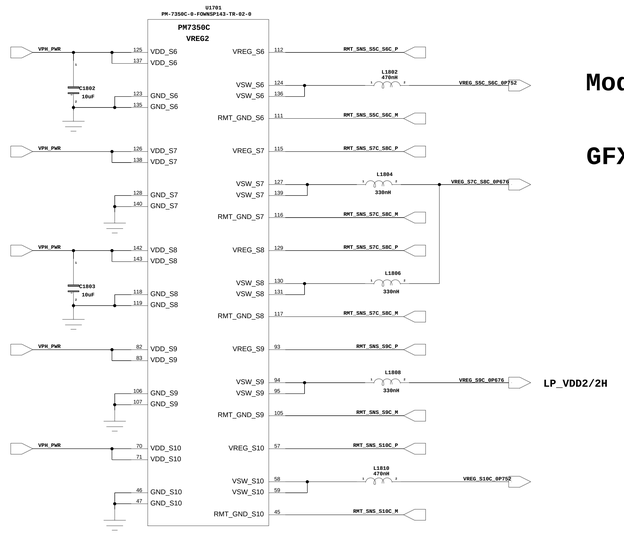

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
HK
SPMI_CLK
SPMI_DATA
FAULT_N
VREG_SYS_1P8
100
101
10
104
SPMI_CLK
SPMI_DATA
FAULT_N
VDD_1P8_SYS
TEST_EN_VPP
VPH_PWR
REF_BYP
REF_GND
29
33
103
102
VPH_PWR
C1701
100nF
E1701


U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
GND
64
77
78
79
86
89
90
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND
CMN_GND

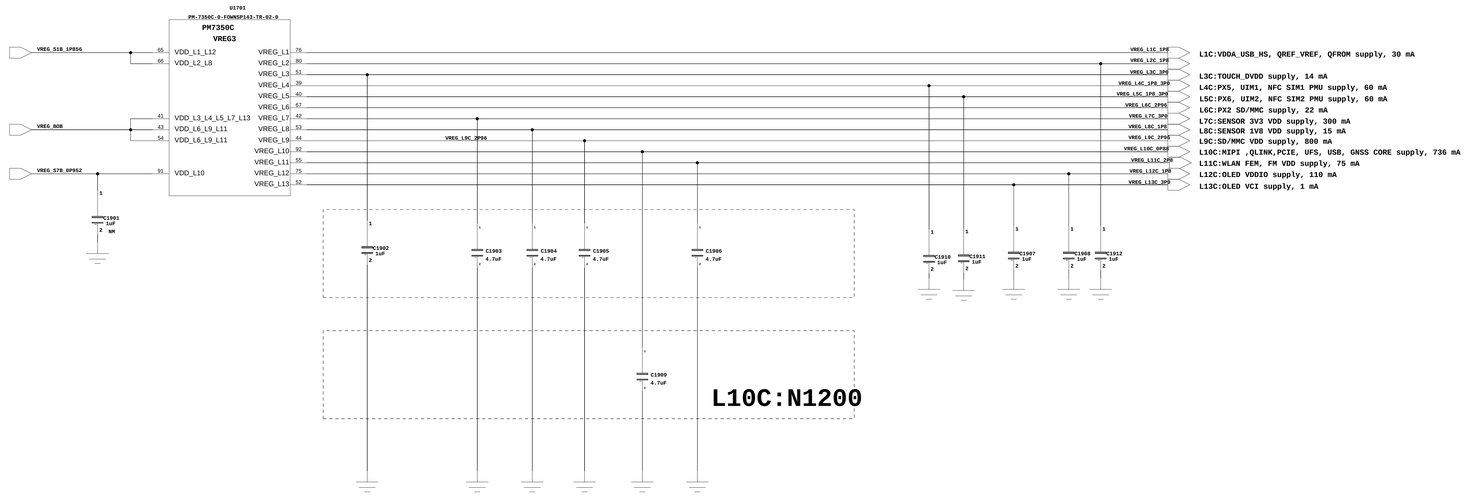

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
BOB_FLASH
VPH_PWR
VREG_BOB
VREG_BOB
VREG_BOB
7
30
5
18
20
68
VDD_BOB
VDD_BOB
PGND_BOB
PGND_BOB
VDD_FLASH
VDD_IRIS_RGB
C1702
10uF
C1707
10uF
C1708
10uF
L1701
470nH
6
19
4
17
9
16
27
28
31
8
9
32
69
81
66
VSW_BCK_BOB
VSW_BCK_BOB
VSW_BST_BOB
VSW_BST_BOB
VREG_BOB
VREG_BOB
VREG_BOB
VREG_BOB_SNS
FLASH_LED1
FLASH_LED2
FLASH_LED3
FLASH_LED4
IRIS_R
IRIS_G
IRIS_B
E1702
C1703
10uF
C1704
10uF
C1705
10uF
C1706
10uF
VREG_BOB
FLASH_LED1


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

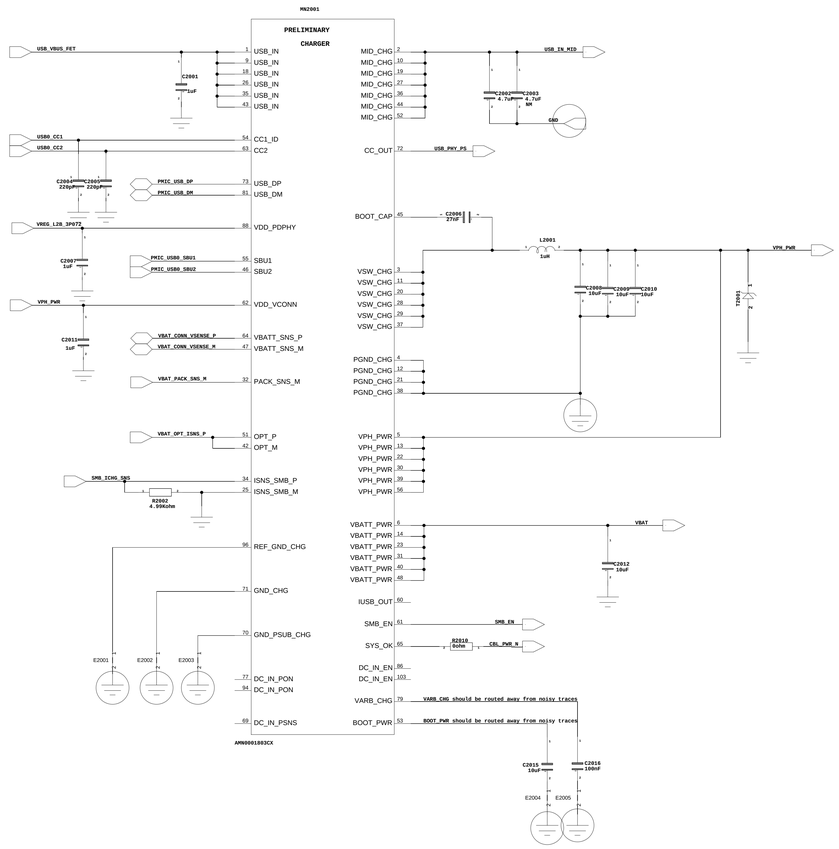

U1701
PM-7350C-0-FOWNSP143-TR-02-0
PM7350C
VREG1
VPH_PWR
VDD_S1
VDD_S1
VSW_S1
VSW_S1
GND_S1
GND_S1
C1801
10uF
VDD_S2
VDD_S2
GND_S2
GND_S2
VDD_S3
VDD_S3
GND_S3
GND_S3
VDD_S4
VDD_S4
GND_S4
GND_S4
VDD_S5
VDD_S5
GND_S5
GND_S5
C1804
10uF
VREG_S1
VSW_S1
RMT_GND_S2
VREG_S3
VSW_S3
RMT_GND_S3
VREG_S4
VSW_S4
RMT_GND_S4
VREG_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
RMT_GND_S6
VREG_S7
VSW_S7
RMT_GND_S7
VREG_S8
VSW_S8
RMT_GND_S8
VREG_S9
VSW_S9
RMT_GND_S9
VREG_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

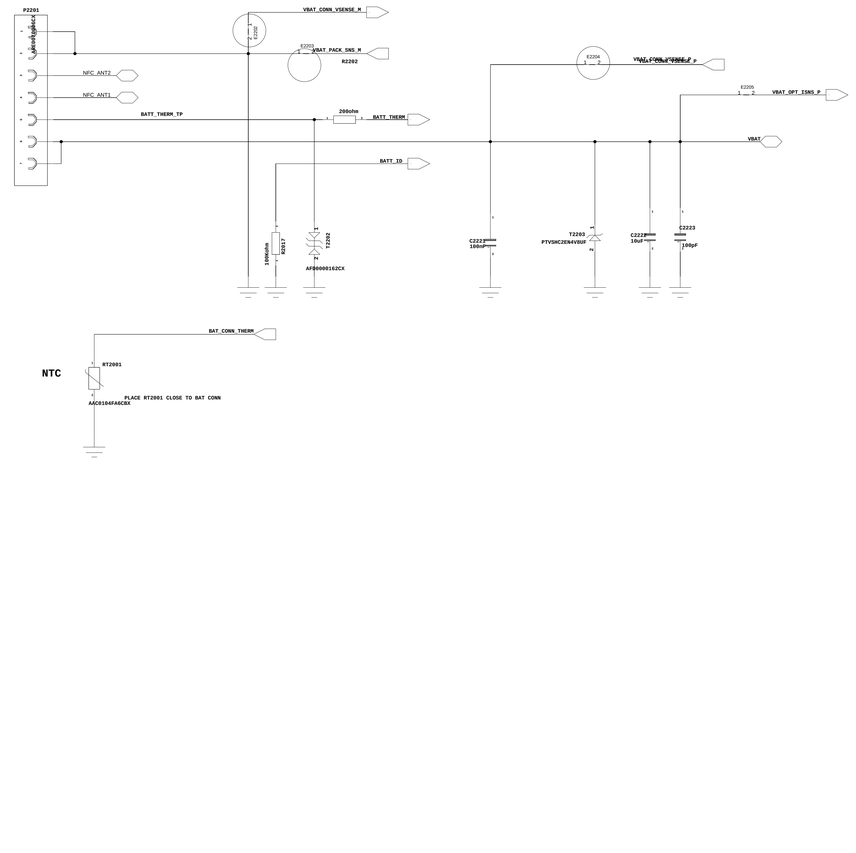
LDOs


U1701
PM-7350C-9-FOWSP143-TR-02-0
PM7350C
VREG3
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_S1B_1P856
VREG_B0B
VREG_S7B_0P952
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
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

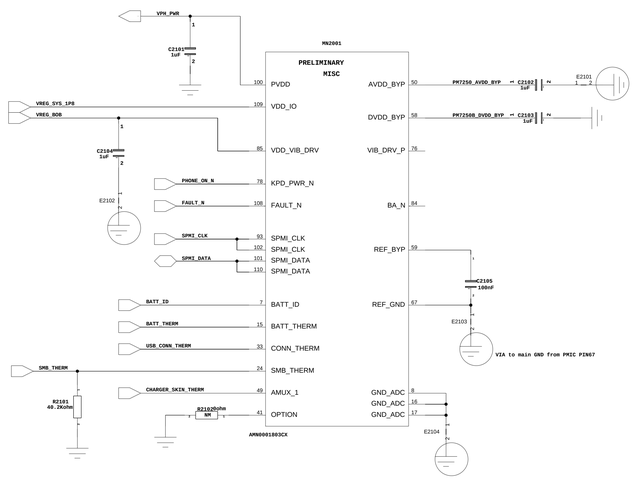


BATTERY CONNECTOR

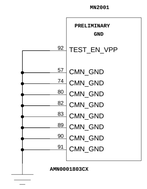


PON Configuration	OPTION Resistor Range
Micro USB,SPMI,FMB_DISABLE	R=(GND,1K,1.2K,2.2K,2.4K)
Micro USB,SPMI,FMB_ENABLE	R=(3.3K,3.6K,5.1K,5.6K)
Micro USB,I2C,FMB_DISABLE	R=(8.2K,10K,15K,16K)
Micro USB,I2C,FMB_ENABLE	R=(22K,27K,36K,39K)
Type-C,I2C,FMB_DISABLE	R=(56K,68K,91K,100K)
Type-C,I2C,FMB_ENABLE	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)

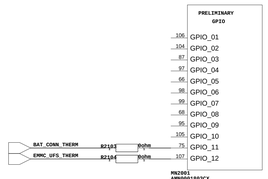
PM7250B_HK



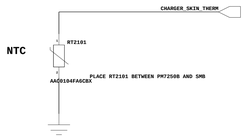
PM7250B_GND



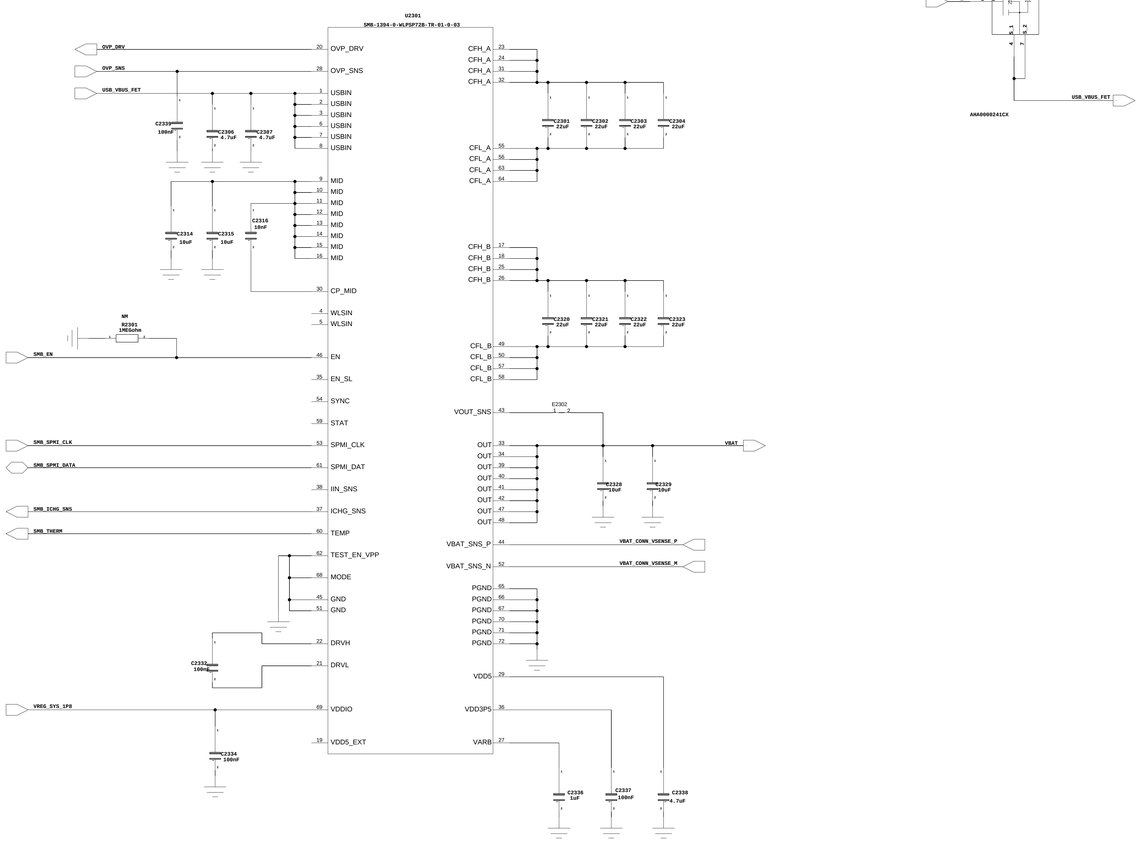
PM7250B_GPIO

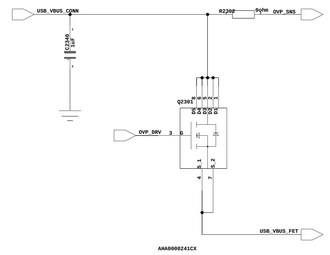


NTC

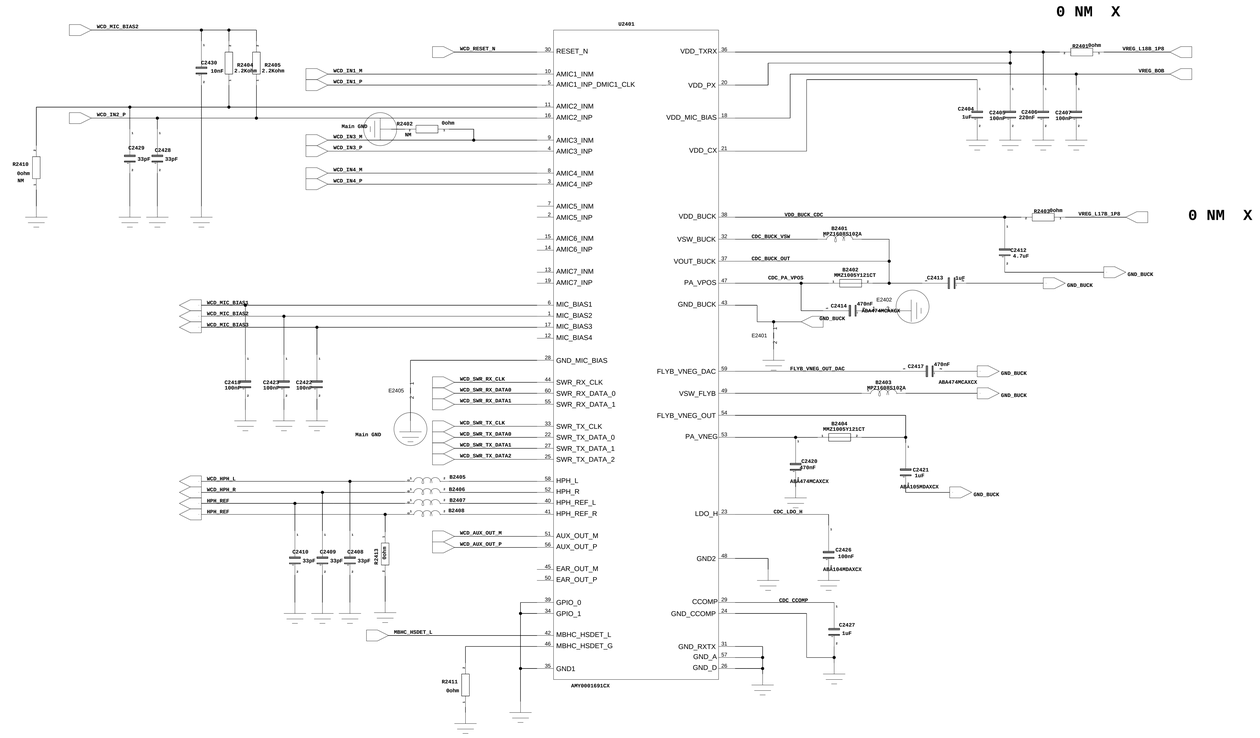


MASTER SMB1394

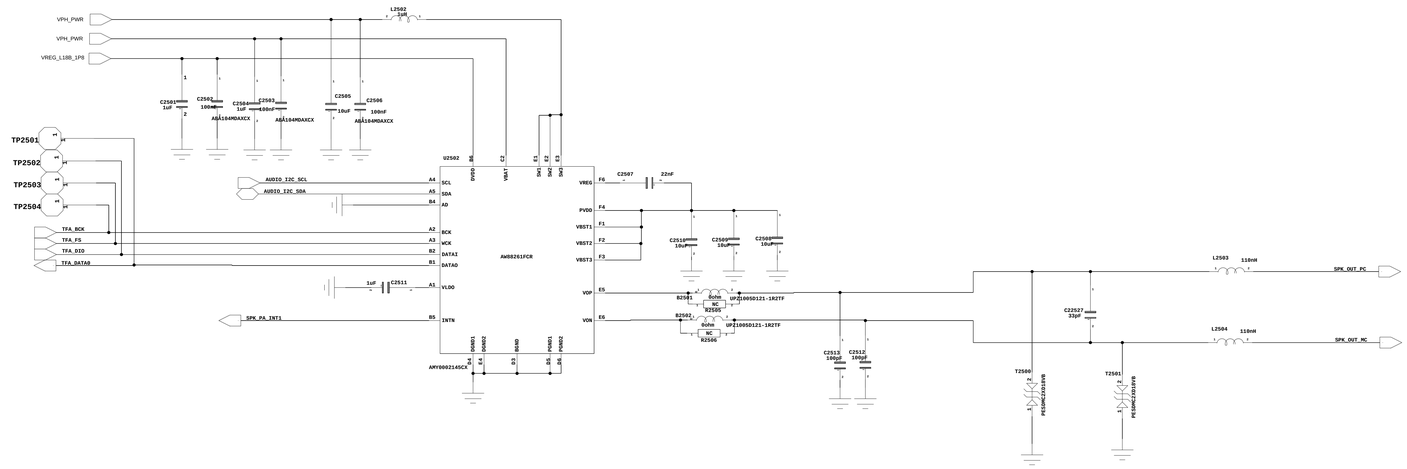




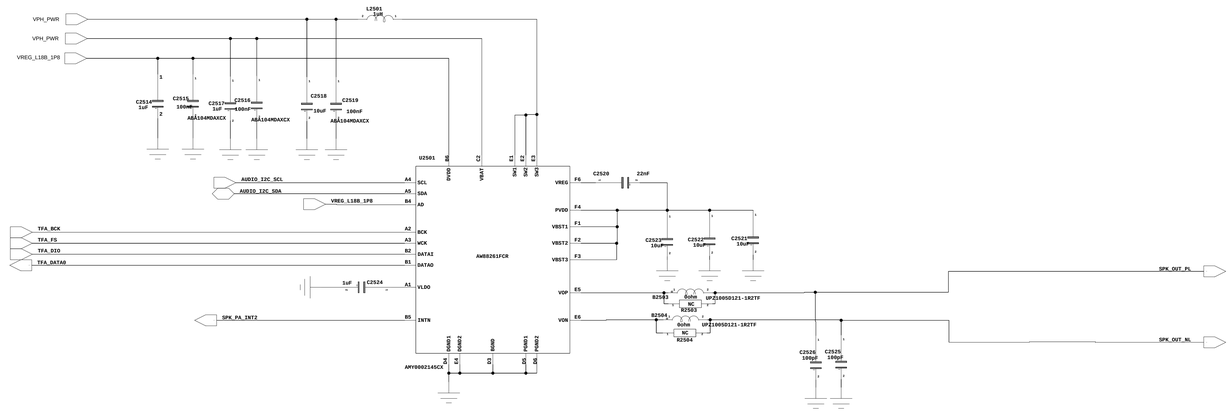
WCD9385


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
WCD_AUX_OUT_M
WCD_AUX_OUT_P
AUX_OUT_M
AUX_OUT_P
C2410 33pF
C2409 33pF
C2408 33pF
R2415 0ohm
EAR_OUT_M
EAR_OUT_P
GPIO_0
GPIO_1
MBHC_HSDET_L
MBHC_HSDET_G
GND1
R2411 0ohm
AMY0001691CX
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
CDC_BUCK_VSW
CDC_BUCK_OUT
CDC_PA_VPOS
R2403 0ohm
VREG_L17B_1P8
B2401 MPZ1608S102A
B2402 HMZ1005Y123CT
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 470nF 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

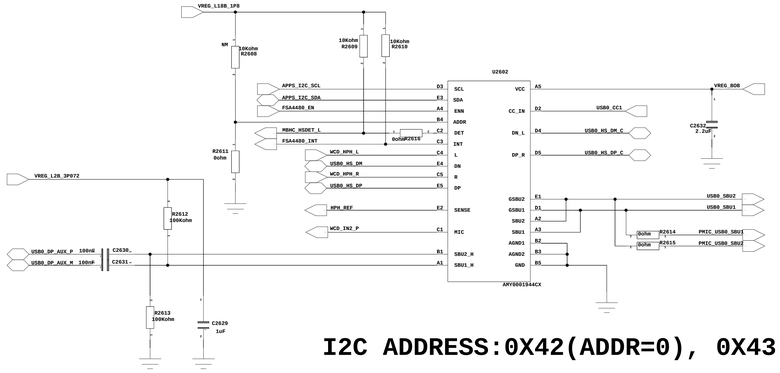


BOT SPEAKER SMART PA



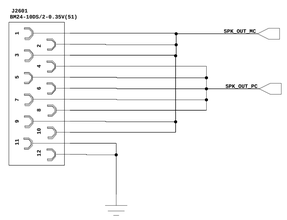
AD	Address(7-bit)
0	0x34
1	0x35

TYPEC AUDIO SWITCH

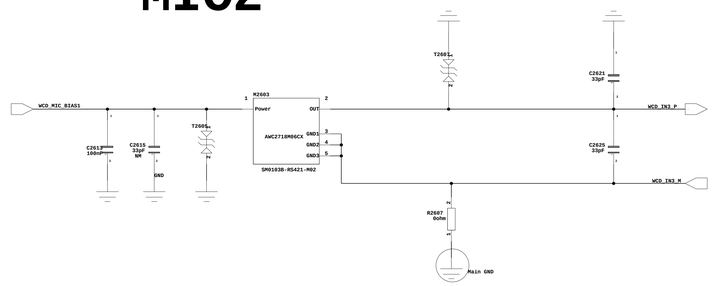


I2C ADDRESS:0X42(ADDR=0), 0X43(ADDR=1)

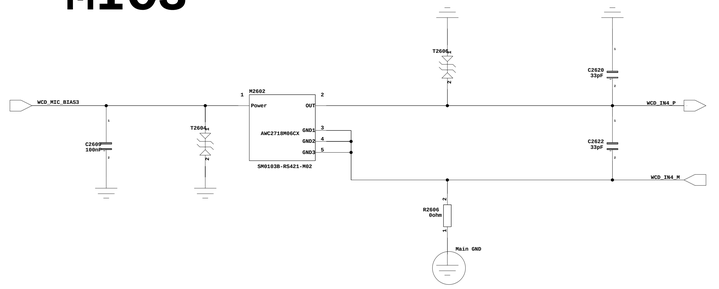
top speaker connector



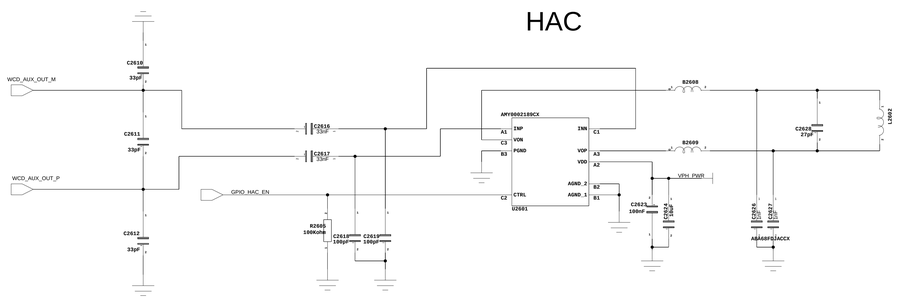
MIC2



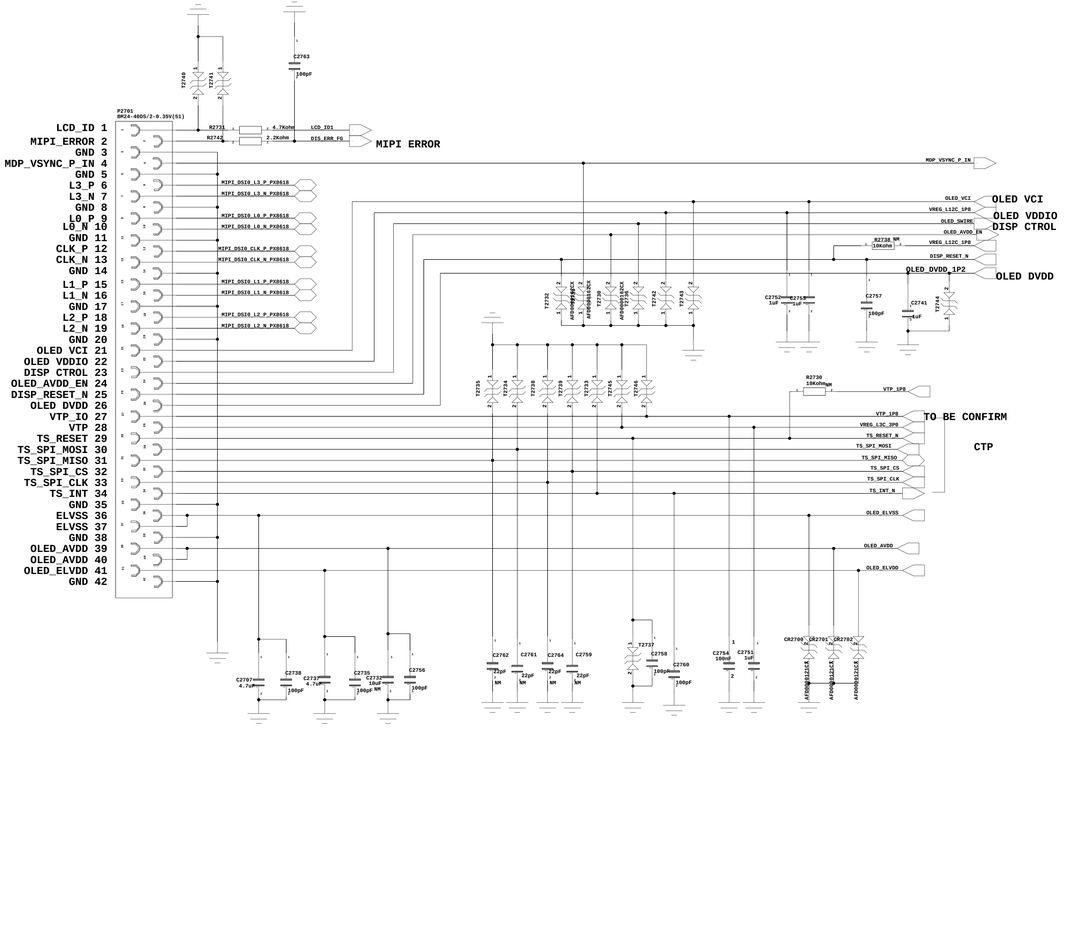
MIC3



HAC

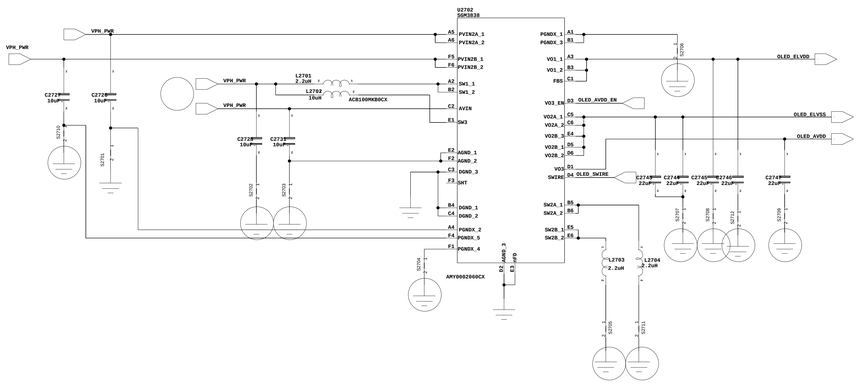


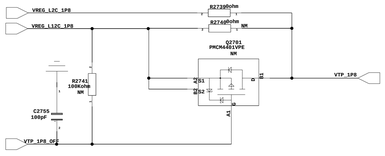
LCD CONN

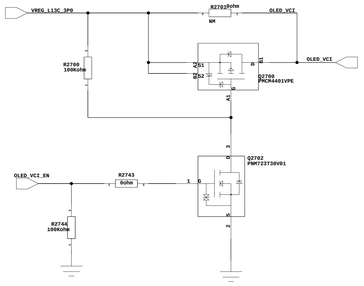


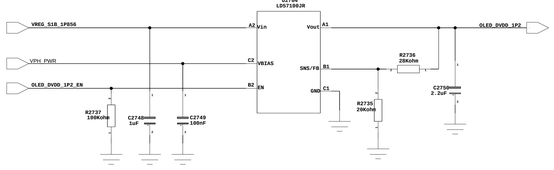
AMOLED

DCDC

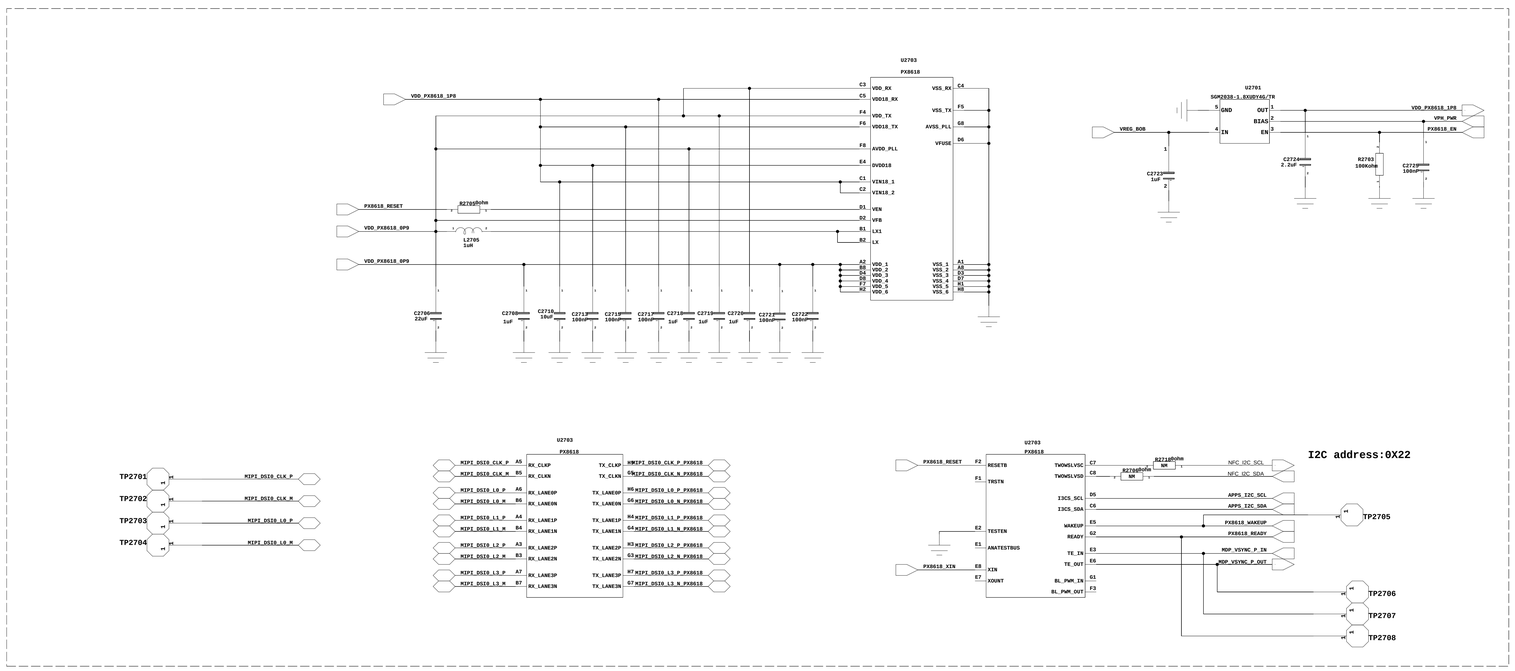




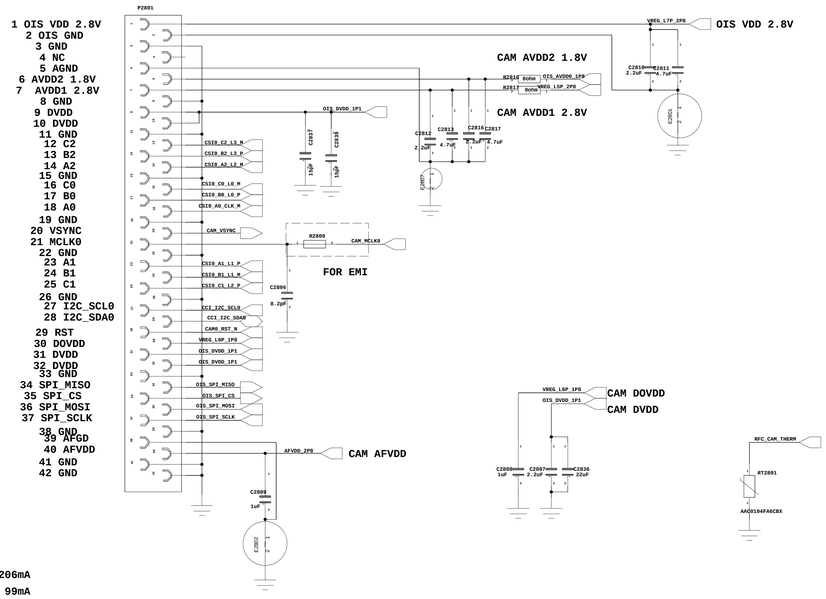




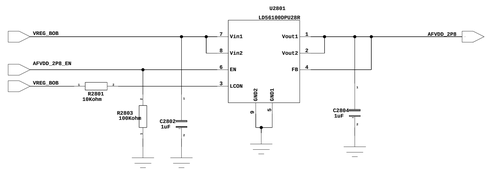
IRIS6

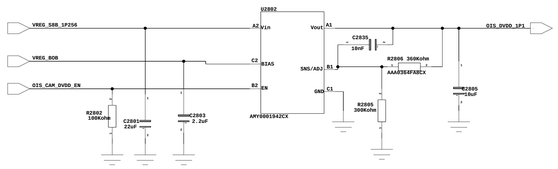


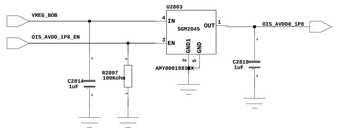
50M OIS CAMERA



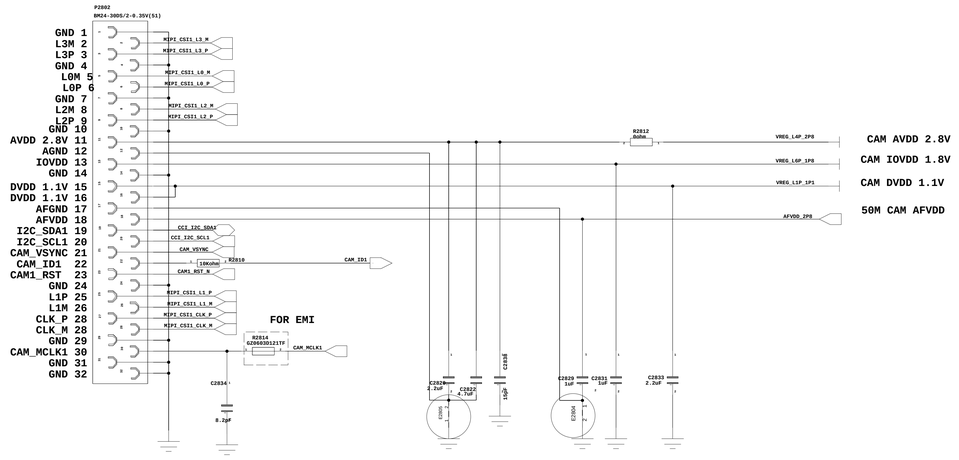
DVDD 1.0-1.2V 1206mA
AVDD28 2.7-2.9V 99mA
AVDD18 1.7-1.9V 74mA
DOVDD 1.7-1.9V 3.5mA



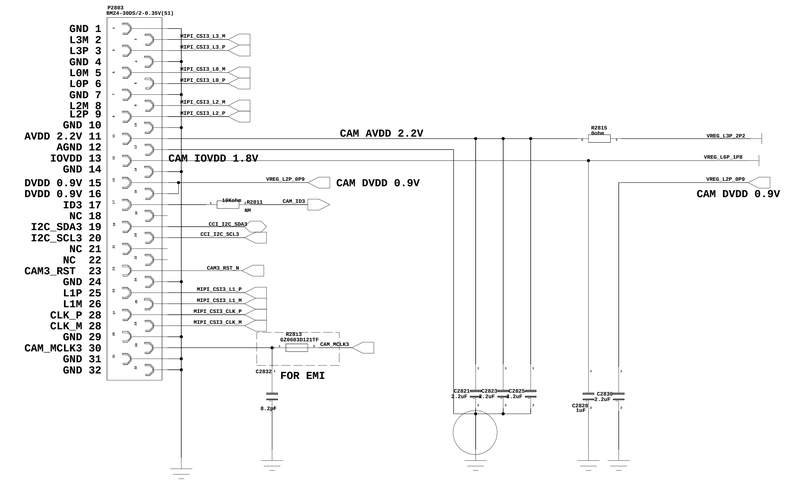




50M UW CAMERA

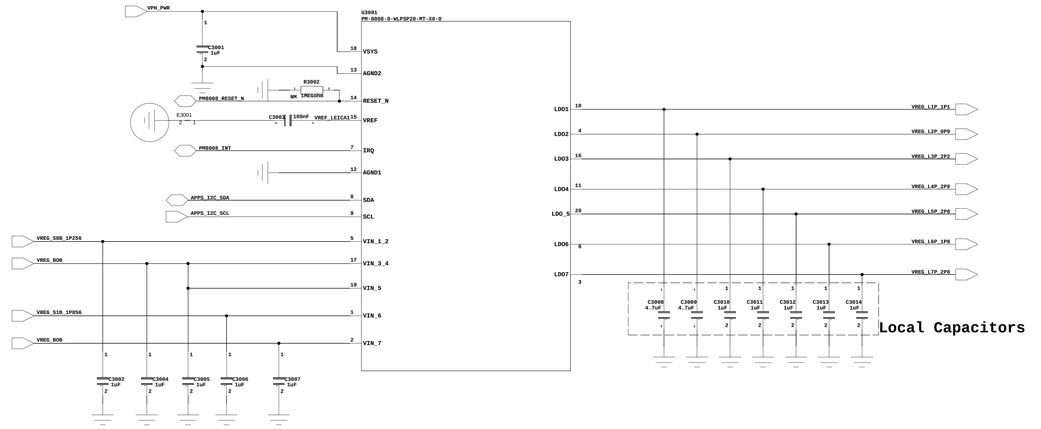


50M front camera

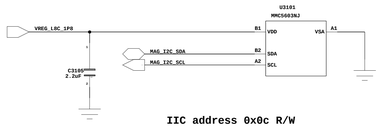


CAM_PM8008

Address:0X09

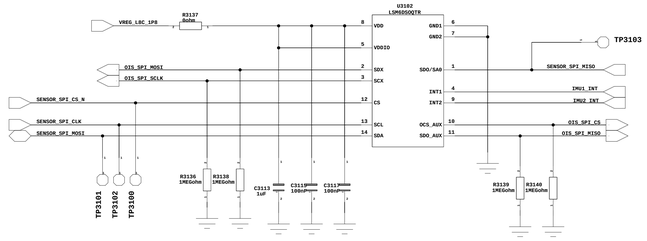


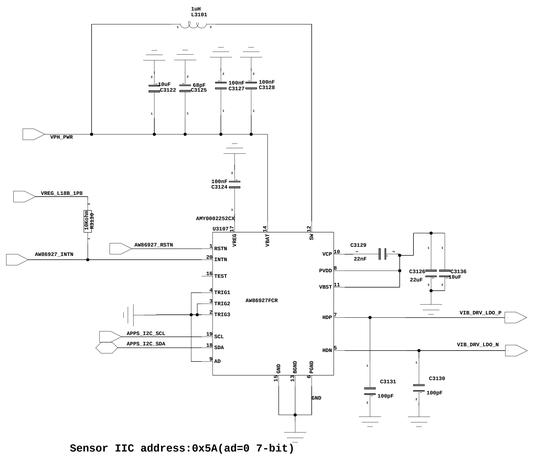
COMPASS



IIC address 0x0c R/W

A+GYRO

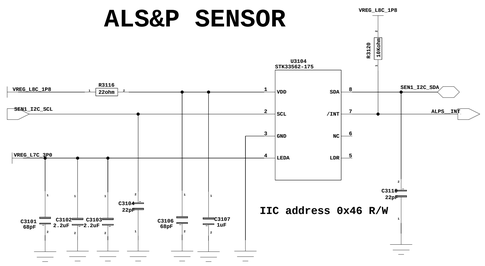




Sensor IIC address:0x5A(ad=0 7-bit)

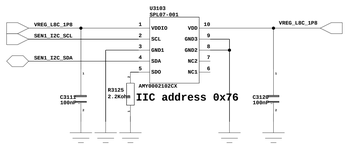
VIBRATOR

ALS&P SENSOR



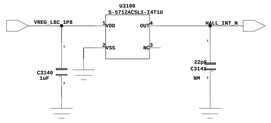
IIC address 0x46 R/W

Barometer

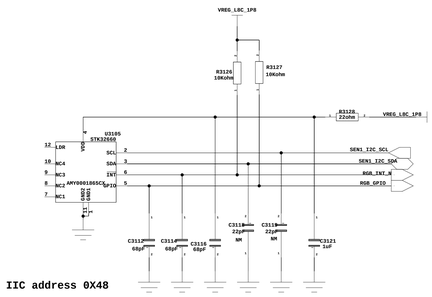


IIC address 0x76

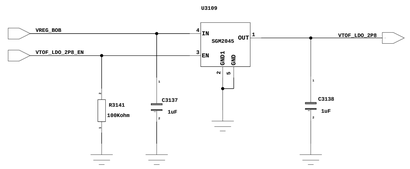
HALL



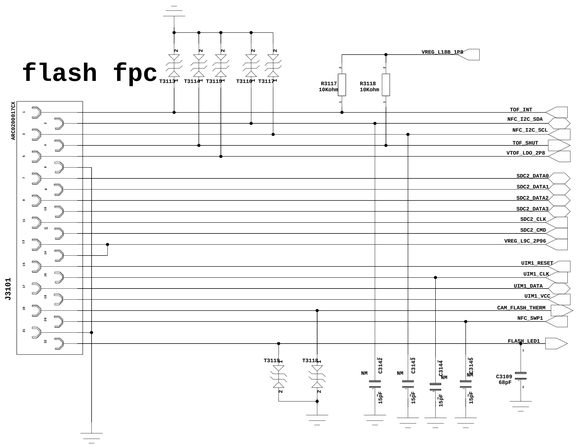
RGB SENSOR



IIC address 0X48

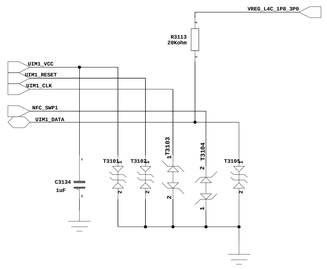


flash fpc

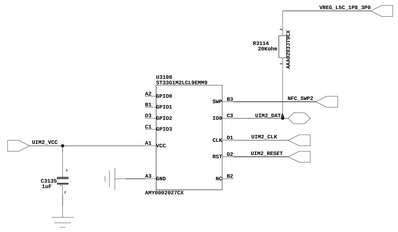


VL53L3 IIC address 0x52 0101001 R/W

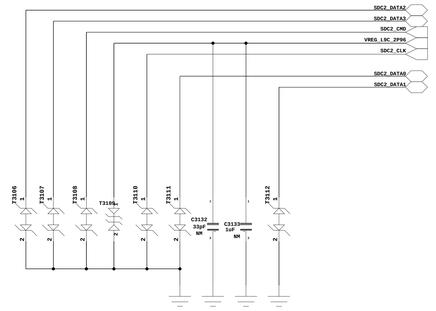
SIM CARD



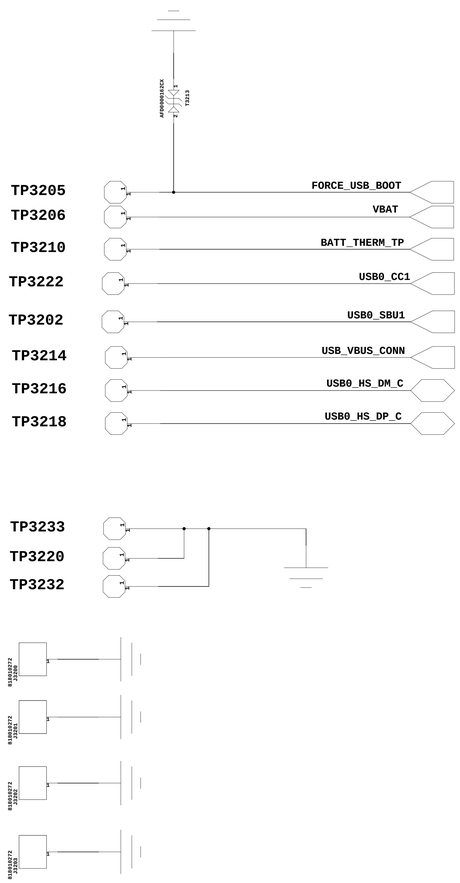
E-SIM2

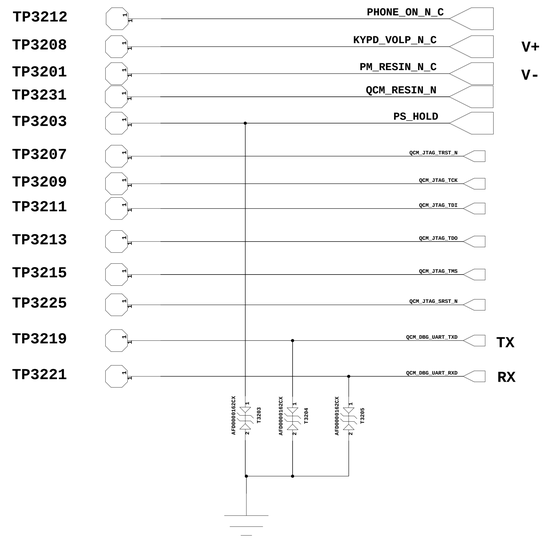


SD CARD

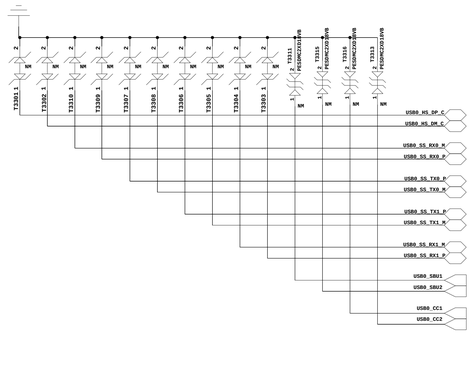


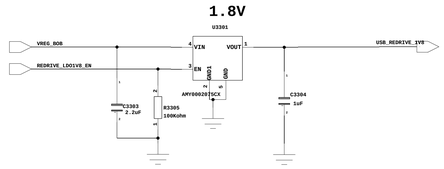
TP FOR NPI TEAM



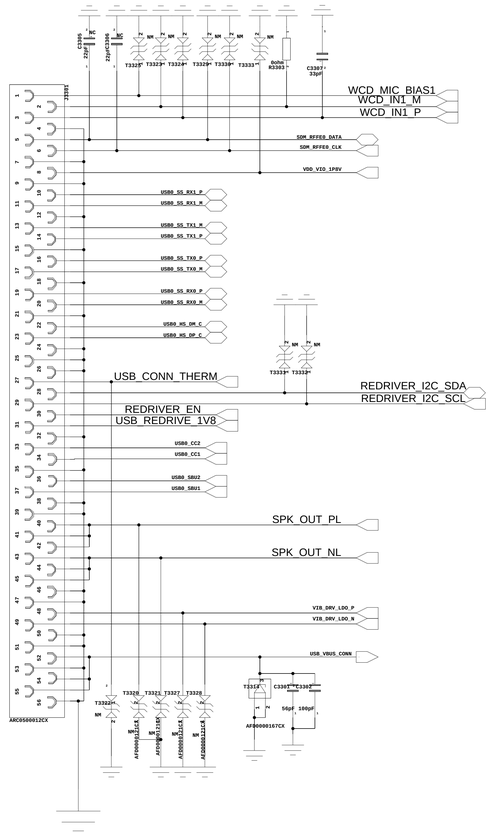


SUB CONN


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
LDO1
AAY0002ECX
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
T3321
T3322
T3323
T3329
T3330
T3331
0ohm
R3303
C3307
33pF
J3301
ARC05D0012CK
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
T3333
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
T3324
T3325
T3326
T3327
T3328
AYD0001215CX
AYD0001216CX
AYD0001217CX
AYD0001218CX
T3315
C3308
C3309
56pF
100pF
AYD0000167CX

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
C3400 2.2uF
C3401 2.2uF
C3402 2.2uF
C3403 2.2uF
C3404 2.2uF
C3405 100nF
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
VDD12_WLBBPLL NEEDS GOOD ISOLATION FROM BB(1.2V),VO/BTPA(1.7V), AND RX(0.8V)
200mA
200mA
200mA
200mA
200mA
200mA
200mA
VREG_S1C_2P2 1200mA
2.2V RFA
VREG_S1B_1P856
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 C3
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
C3415 2.2uF
C3416 100nF
C3417 2.2uF
C3418 100nF
C3419 100nF
C3420 100nF
C3421 100nF
C3422 100nF
C3423 2.2uF
C3424 100nF
C3425 100nF
C3426 10nF
C3427 10nF
C3428 100nF
C3429 100nF
C3430 100nF
C3431 100nF
C3432 10nF
C3433 100nF
C3434 100nF
C3435 100nF
C3436 2.2uF
C3437 100nF
C3438 100nF
C3439 2.2uF
C3440 100nF
C3441 100nF
C3442 100nF
C3443 2.2uF
C3444 2.2uF

U3400

WCN6750
RFA

M12	AGPIO_WL_2G			
K2	AGPIO_WL_5G_0			
M6	AGPIO_WL_5G_1	WLBT_RFTRX0_2G	A17	WLBT_RFTRX0_2G
L13	AGPIO_BT	WLBT_RFTRX1_2G	A13	WLBT_RFTRX1_2G
M10	NC6			
M8	NC5	WL_RFPDET0	D4	WL_RFPDET0
N3	NC7	WL_RFPDET1	B2	WL_RFPDET1
M2	NC4			
K8	NC2	WL_RFRX0_5G	B8	WL_RFRX0_5G
L9	NC3	WL_RFTX0_5G	D6	WL_RFTX0_5G
M4	NC1	WL_RFRX1_5G	B4	WL_RFRX1_5G
N5	NC8	WL_RFTX1_5G	E1	WL_RFTX1_5G
H20	XTALI			
		WL_RFPA0_5G	B6	
K20	XTALO	WL_RFPA1_5G	A5	

AMB0001889CX

R3500 0ohm
WLAN_XO_CLK
C3500 NM 1nF
C3501 1nF
Q3500
XTAL1 XTAL2 GND1 GND2
7A0B7688A04
R3501 0ohm NM
C3504 0ohm
C3502 6.8pF NM
C3503 6.8pF
NM

U3400

WCN6750
CTRL1

		SB_DATA(BT_I2S_0_SDI_GPIO)	R19	BT_I2S_0_SDI
		SB_CLK(BT_I2S_0_SCK_GPIO)	U15	BT_I2S_0_SCK
		MODE_0	U5	
		MODE_1	U7	
		COEX_RXD_GPIO	V16	WLAN_COEX_UART_TX
		COEX_TXD_GPIO	U19	WCAN_COEX_UART_RX
		ATBH	Y8	
		SRST_N	V18	
		TCK	AB18	
		TDI	W19	
		TDO	AC19	
		TMS	Y18	
		TRST_N	W17	
		LF_CLK_IN_GPIO	U17	SLEEP_CLK
		UART_RXD_GPIO	T20	MDS_BT_UART_TX
		UART_TXD_GPIO	P16	MDS_BT_UART_RX
		UART_CTS_GPIO	R17	MDS_BT_UART_RTR
		UART_RTS_GPIO	T16	MDS_BT_UART_CTS
		CLK_REQ_OUT	W15	CLK_REQ_OUT
		SENS_RXD_GPIO	V20	BTLE_UART_TX
		SENS_TXD_GPIO	T18	BTLE_UART_RX

AMB0001889CX

U3400

WCN6750
CTRL2

Y10	WL_GPIO0	WL_XFEM_CTRL_2G_CH0_0_GPIO	M18	
W9	WL_GPIO1	WL_XFEM_CTRL_2G_CH0_1_GPIO	M20	
AA9	WL_GPIO2	WL_XFEM_CTRL_2G_CH0_2_GPIO	Y20	
AC11	WL_GPIO3			
AA11	WL_GPIO4	WL_XFEM_CTRL_2G_CH1_0_GPIO	N15	
		WL_XFEM_CTRL_2G_CH1_1_GPIO	M16	
		WL_XFEM_CTRL_2G_CH1_2_GPIO	N19	
		WL_XFEM_CTRL_5G_CH0_0_GPIO	T4	PA_EN_5G_CH0
		WL_XFEM_CTRL_5G_CH0_1_GPIO	T6	LNA_EN_5G_CH0
		WL_XFEM_CTRL_5G_CH0_2_GPIO	T2	BIAS_SEL_5G_CH0
		WL_XFEM_CTRL_5G_CH0_3_GPIO	P2	5G_RFFE_SEL4_CH0
AB12	SW_CTRL_GPIO	WL_XFEM_CTRL_5G_CH1_0_GPIO	R5	PA_EN_5G_CH1
		WL_XFEM_CTRL_5G_CH1_1_GPIO	R3	LNA_EN_5G_CH1
		WL_XFEM_CTRL_5G_CH1_2_GPIO	R1	BIAS_SEL_5G_CH1
		WL_XFEM_CTRL_5G_CH1_3_GPIO	N7	5G_RFFE_SEL4_CH1
		WL_XFEM_CTRL_LAA_RX	N1	LAA_RX
		WL_XFEM_CTRL_PA_MUTE	P4	PA_MUTE
		WL_XFEM_CTRL_LAA_TXEN_GPIO	P6	
		WL_XFEM_CTRL_WL_TXEN_GPIO	U1	
		WL_XFEM_CTRL_WL_TXEN_TO_N79	P20	
		WL_XFEM_CTRL_N79_TXEN	P18	

AMB0001889CX

Reserved
WL_UART_TX
WL_GPIO_2
HOST2WLAN_SDL
WLAN2HOST_SDL
SW_CTRL

BOOTSTARPS
VREG_L19B_1P8
R3504 10Kohm NM
R3502 10Kohm NM
R3503 10Kohm NM
R3505 10Kohm NM
WL_UART_TX
WLAN2HOST_SDL
WL_GPIO 2
CLK_REQ_OUT
CLK_REQ_OUT

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 — R3600 0ohm — Y16 PCIE20_REFCLK_EPCLK_P
PCIE0_REFCLK_M — R3601 0ohm — AA15 PCIE20_REFCLK_EPCLK_N

PCIE0_TX_AC_P — AC15 PCIE20_RXP
PCIE0_TX_AC_M — AC13 PCIE20_RXM

PCIE0_RX_P — C3604 ~ 220nF — AB16 PCIE20_TXP
PCIE0_RX_M — C3605 ~ 220nF — AC17 PCIE20_TXM

PCIE0_CLK_REQ_N — W13 PCIE_CLKREQ_N_GPIO
PCIE0_RESET_N — PCIE_RST_N_GPIO
PCIE0_WAKE_N — AA19 PCIE_WAKE_N_GPIO

VDD_1P8_NET — AA13 — VDDA_PCIE_1P8 — 15mA
VDDA_CORE_NET — Y14 — VDDA_PCIE_CORE — 35mA

PCIE20_REXT — AA17 — R3602 100ohm
PCIE_VSSX — AB14

AMB0001889CX

VREG_L19B_1P8 — R3603 10kohm
VREG_L19B_1P8 — R3604 10kohm
R3605 10kohm NM
R3606 10kohm NM
R3607 10kohm NM

U3400

WCN6750
PMU

1700mA — VREG_S7B_0P952
C3615 2.2uF — 100mA — AA5 VDD_PMU_AON_I
C3619 2.2uF — 900mA — AB2 VDD095_PMU
AC3 VDD095_PMU
500mA — AB4 VDD095_MX_PMU

435mA — 200mA — AA3 VDD09_PMU_RFA_I
415mA — VREG_S8B_1P256 — 400mA — W3 VDD13_PMU_RFA_I
VREG_S1B_1P056 — 40mA — Y4 VDD19_PMU_RFA_I
35mA — AB10 VDD13_PMU_PCIE_I
15mA — AB8 VDD19_PMU_PCIE_I
10mA — Y6 VDD18_IO

VDD18_IO
BT_EN — W7 BT_EN
WL_EN — W5 WL_EN
AS_EN — V6 LAA_AS_EN

AMB0001889CX

C3613 2.2uF
C3614 100nF
C3618 2.2uF
C3617 2.2uF
R3610 150ohm
R3611 150ohm NM
R3612 150ohm

VDD08_PMU_AON_O — Y4 — 50mA
VDD08_PMU_RFA_CMN — Y2 — 50mA
VDD08_PMU_WLCX — AC5 — VDD08_PMU_WLCX — 750mA
VDD08_PMU_WLMX — AB6 — VDD08_PMU_WLMX — 500mA
VDD08_PMU_BTCMX — AC1 — VDD08_PMU_BT — 150mA
VDD08_PMU_RFA_O — AA1 — VDD08_PMU_RFA_O — 200mA
VDD12_PMU_RFA_O — V2 — VDD12_PMU_RFA_O — 400mA
VDD17_PMU_RFA_O — W1 — VDD17_PMU_RFA_O — 400mA
VDD09_PMU_PCIE_O — AC9 — VDDA_PCIE_CORE — 35mA
VDD18_PMU_PCIE_O — AC7 — VDDA_PCIE_1P8 — 15mA

C3608 2.2uF
C3602 100nF
C3603 100nF
C3601 100nF

GND_DIG_LDO — AA7
GND_RFA_LDO — U3

C3609 2.2uF
C3607 100nF
C3608 2.2uF
C3606 100nF

U3400

WCN6750
DIG_PWR

150mA — VDD08_PMU_BT — N17 VDD_CX_BT_LDO
50mA — VDD08_PMU_AON_O — M14 VDDCX_TOP_AON
T8 VDDCX_TOP_AON
750mA — VDD08_PMU_WLCX — N9 VDDCX_WL_CX
N11 VDDCX_WL_CX
P8 VDDCX_WL_CX
P10 VDDCX_WL_CX
P12 VDDCX_WL_CX
T14 VDDCX_WL_CX

C3611 2.2uF
C3615 2.2uF

500mA — VDD08_PMU_WLMX — T12 VDDCX_WL_MX
U9 VDDCX_WL_MX
10mA — VREG_L19B_1P8 — R15 VDDIO_PX_1
V12 VDDIO_PX_2
R7 VDDIO_PX_3
C3623 100uF
W11 VDDPX_TS
P14 VDDPX_WL4OTP

AMB0001889CX

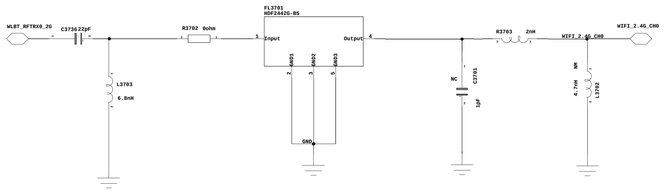
C3612 2.2uF
C3624 2.2uF

VDD18_IO — R3613 49.9ohm
C3622 1uF
C3615 2.2uF

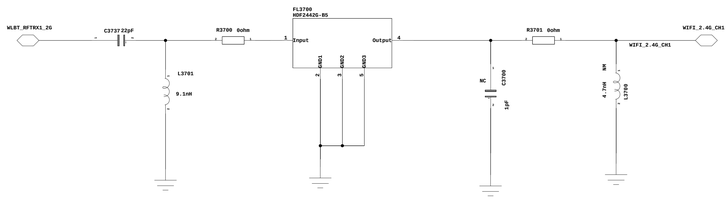
C3620
C3621 100nF
2.2uF

VSSX_0 — N13
VSSX_0 — R9
VSSX_0 — R11
VSSX_0 — R13
VSSX_0 — T10
VSSX_0 — U11
VSSX_0 — U13
VSSX_0 — V8
VSSX_0 — V10
VSSX_0 — V12
VSSX_0 — V14

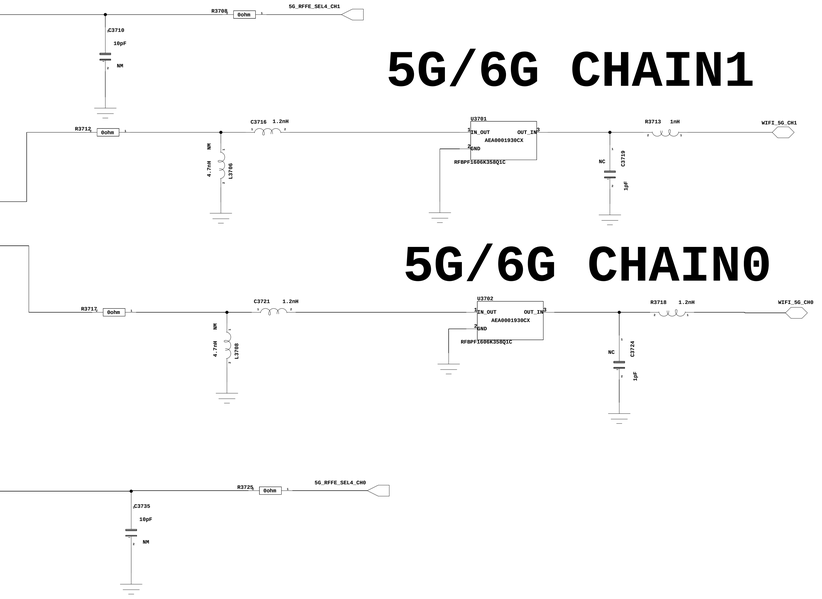
2.4G CHAIN0



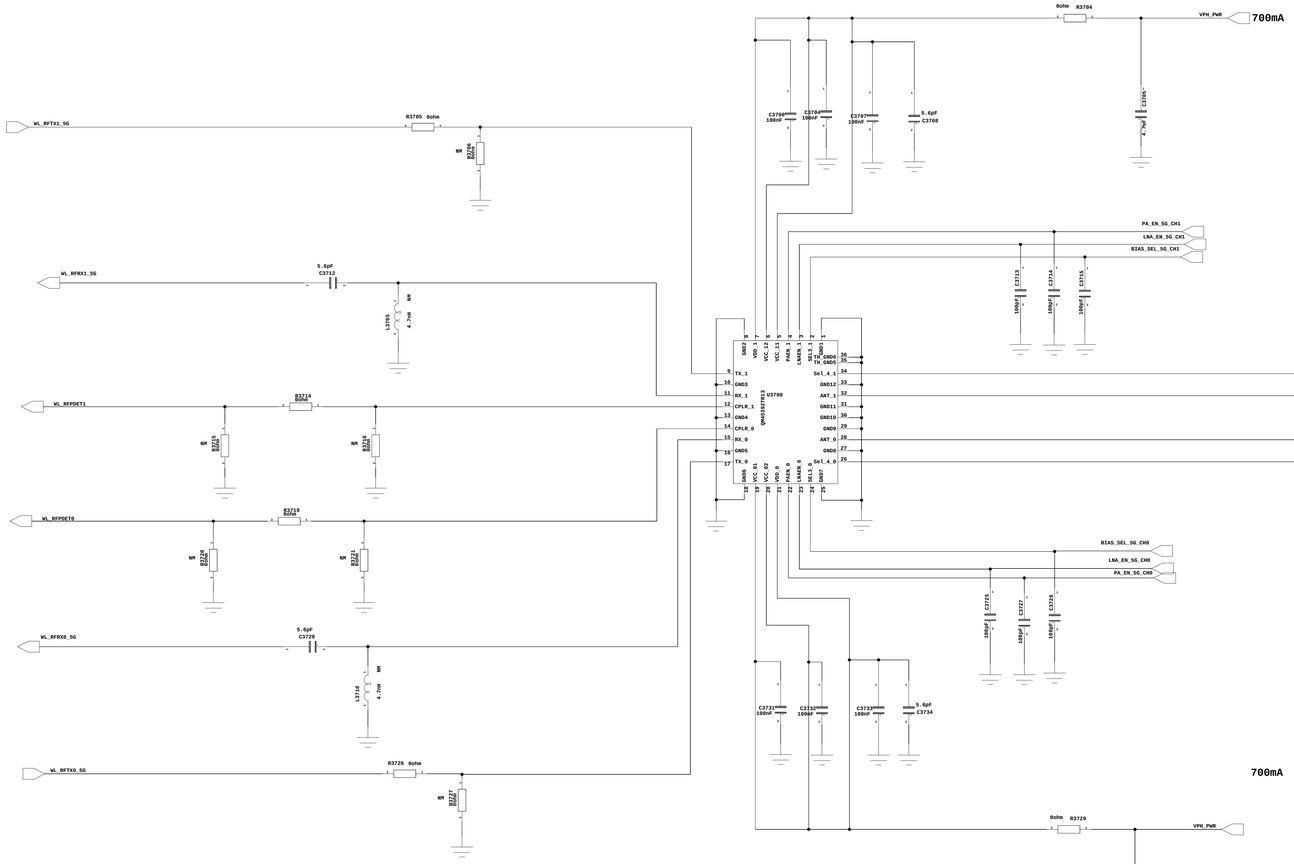
2.4G CHAIN1

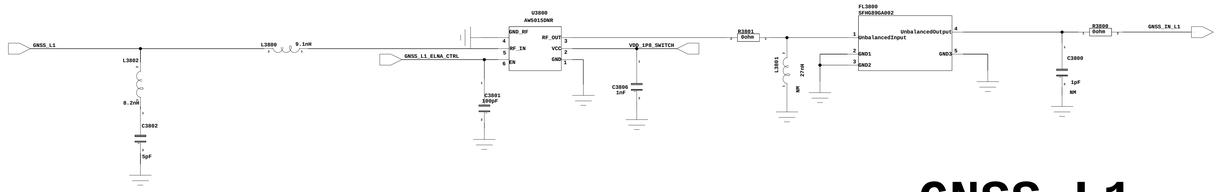


5G/6G CHAIN1



5G/6G CHAIN0



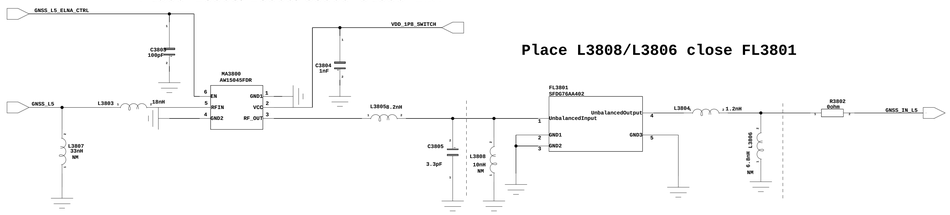


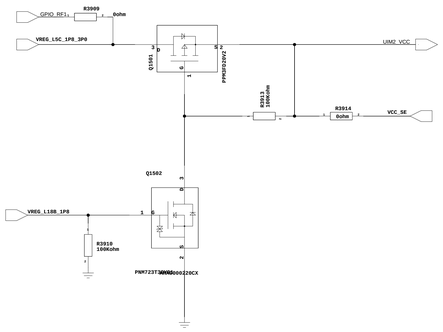
GNSS L1

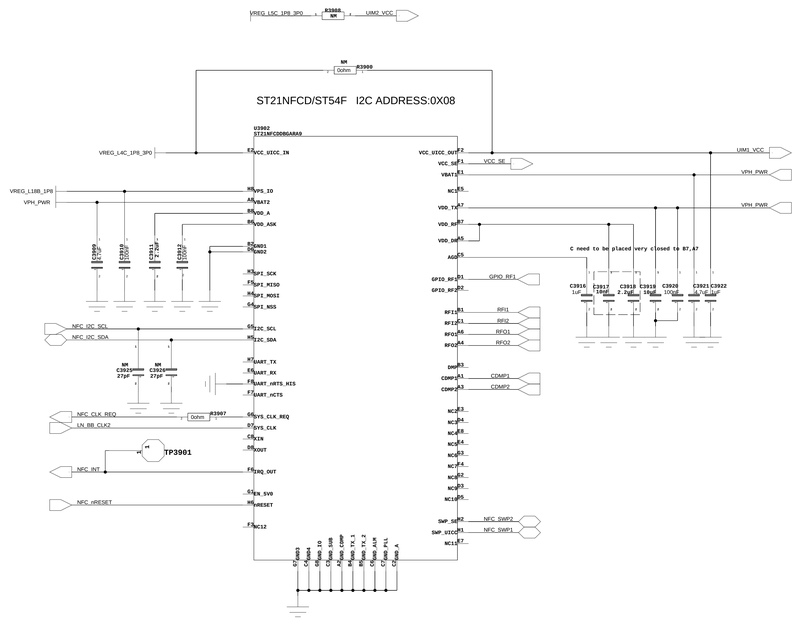
L5 GPS

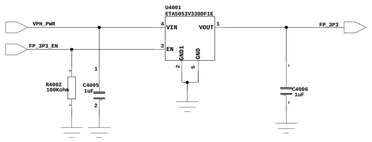
Place L3803/L3805/C3805 close LNA

Place L3808/L3806 close FL3801

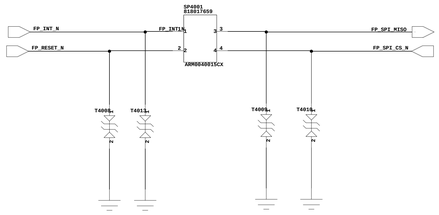


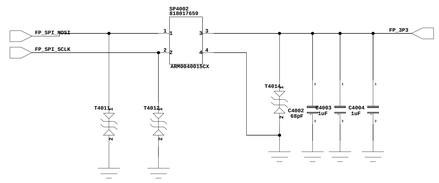

GPIO_RF1
R3909
0ohm
VREG_L5C_1P8_3P0
Q1501
PMGPD2302V
UIM2_VCC
R3913
100Kohm
R3914
0ohm
VCC_SE
Q1502
VREG_L18B_1P8
R3910
100Kohm
PMK22ST3000SE0229CX


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
VREG_L18B_1P8
VPH_PWR
SYS_IO
VBAT2
VDD_A
VDD_ASK
GND1
GND2
SPI_SCK
SPI_MISO
SPI_MOSI
SPI_NSS
NFC_I2C_SCL
NFC_I2C_SDA
I2C_SCL
I2C_SDA
UART_TX
UART_RX
UART_nRTS_NIS
UART_nCTS
C3909 47pF
C3910 100pF
C3911 2.2uF
C3912 100pF
NM C3925 27pF
NM C3924 27pF
NFC_CLK_REQ
LN_BB_CLK2
R3907
0ohm
SYS_CLK_REQ
SYS_CLK
CLIN
CLOUT
TP3901
NFC_INT
IRQ_OUT
NFC_nRESET
EN_SVD
nRESET
NC12
VCC_UICC_OUT
VCC_SE
VBAT1
NC15
VDD_TX
VDD_RF
VDD_DH
AGD
GPIO_RF1
GPIO_RF2
RFI1
RFI2
RFO1
RFO2
DHP
COMP1
COMP2
NC3
NC4
NC8
NC14
NC9
NC2
NC1
NC10
SWP_SE
SWP_UICC
NC11
UIM1_VCC
VCC_SE
VPH_PWR
VPH_PWR
C need to be placed very closed to B7,A7
C3916 1uF
C3917 10pF
C3919 2.2pF
C3918 10pF
C3920 10pF
C3921 1uF
C3922 1uF
GPIO_RF1
RFI1
RFI2
RFO1
RFO2
COMP1
COMP2
NFC_SWP2
NFC_SWP1
C3903
C3904
C3905 120pF
C3906 22pF
C3907 120pF
C3908 NM
R3904 100ohm
L3900 77nH
RFI1
RFO1
C3915 560pF
C3914 10pF NM
R3905 100ohm NM
C3913 10pF
C3909 2.2pF
NC
NFC_ANT1
C3924 68pF
C3923 560pF
L3901 77nH
C3927 120pF
C3928 10pF NM
C3930 22pF NM
R3906 0.000ohm
RFO2
RFI2
C3931 120pF
C3932 22pF NM
COMP2
C3926 10pF
C3925 2.2pF
NC
NFC_ANT2

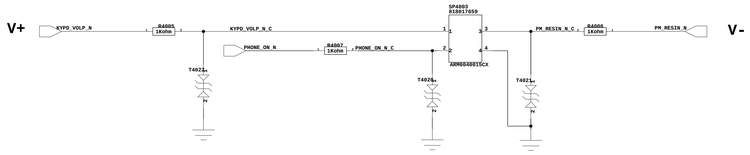


FP

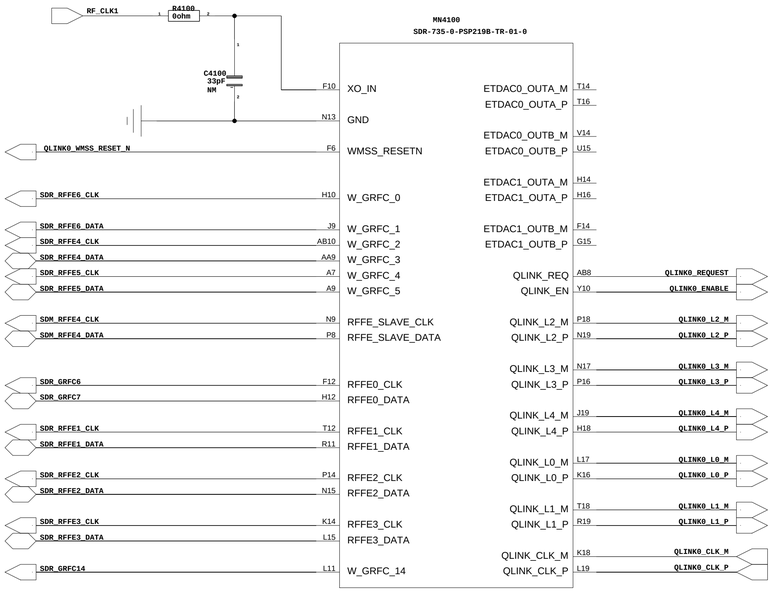


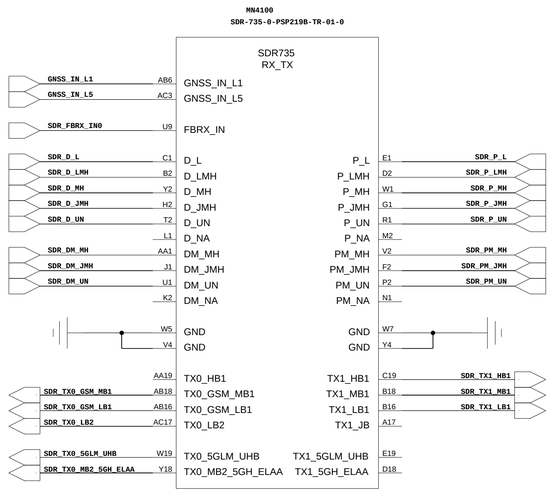


sidekey BTB



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
K10	VDDAL_DIG0	VDDAM_RX2	E5
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	VDDAH_TX0	V18
A13	VDDAL_TX1_1	VDDAH_TX1	F18
		VDDAH_TX0_1	U13
AC15	VDDAL_TX0	VDDAH_TX1_1	G13
A15	VDDAL_TX1		

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_3P776V
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
C4207 100nF

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

C4213 100nF
C4214 100nF
C4215 100nF
C4216 100nF
C4217 100nF
C4223 100nF
C4224 100nF

C4208 100nF
C4209 100nF
C4210 100nF
C4211 100nF
C4212 100nF

0ohm
84201
VDD_ANA_1P2V
VREG_L14B_1P2V
1310mA
C4208 4.7uF

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

VDD_AH_1P8
180mA
C4233 4.7uF

C4231 100nF
C4232 100nF
C4234 100nF
C4235 100nF
C4236 100nF
C4237 100nF
C4238 100nF
C4239 100nF
C4240 100nF
C4241 100nF

C4242 100nF
C4243 100nF
C4244 100nF
C4245 100nF
C4246 100nF

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

SDR735
GND1

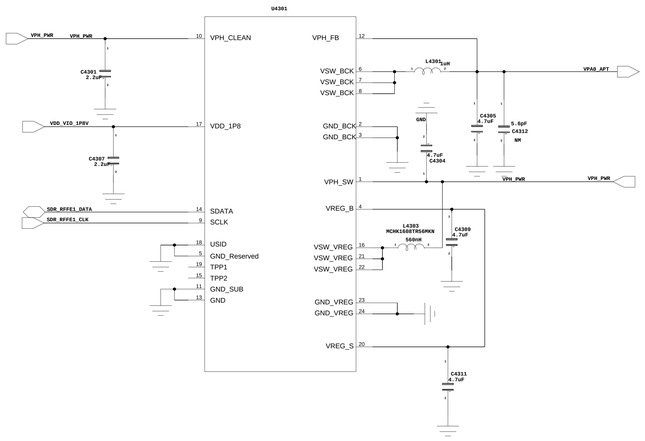
G9	GND	GND	C9
G11	GND	GND	H8
		GND	T8
		GND	W9
V16	GND		
F16	GND	GND	E11
		GND	J13
F8	GND	GND	J17
		GND	M16
		GND	P10
A1	GND	GND	R17
A10	GND		
AC1	GND	GND	V12
AC19	GND	GND	W11
		GND	AA7
R7	GND		
J7	GND	GND	M10
C7	GND		
AA11	GND	GND	J11
C11	GND	GND	J15
		GND	R15
K6	GND	GND	R13
D6	GND		
		GND	U17
Y6	GND	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

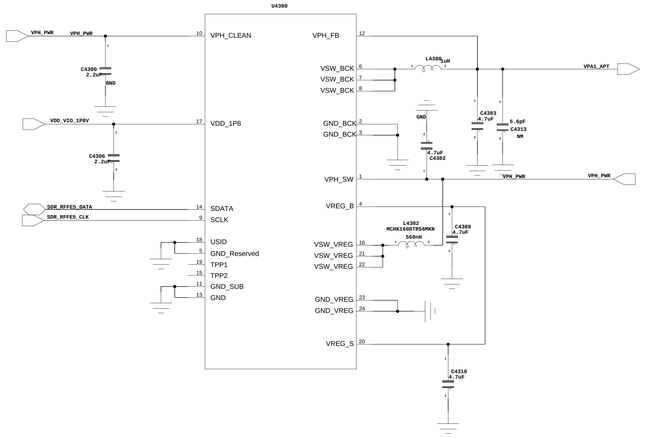
SDR735
GND2

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		

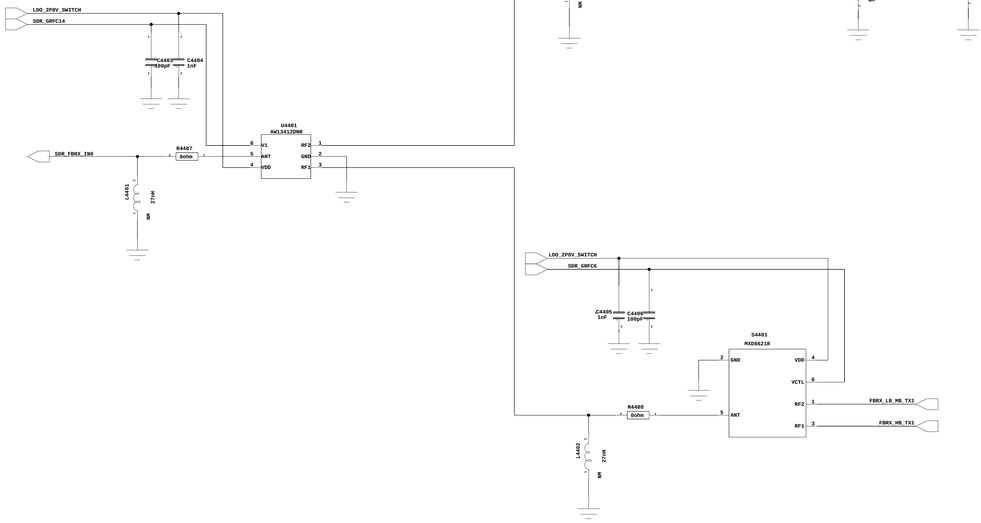
QET6105 0#



QET6105 1#

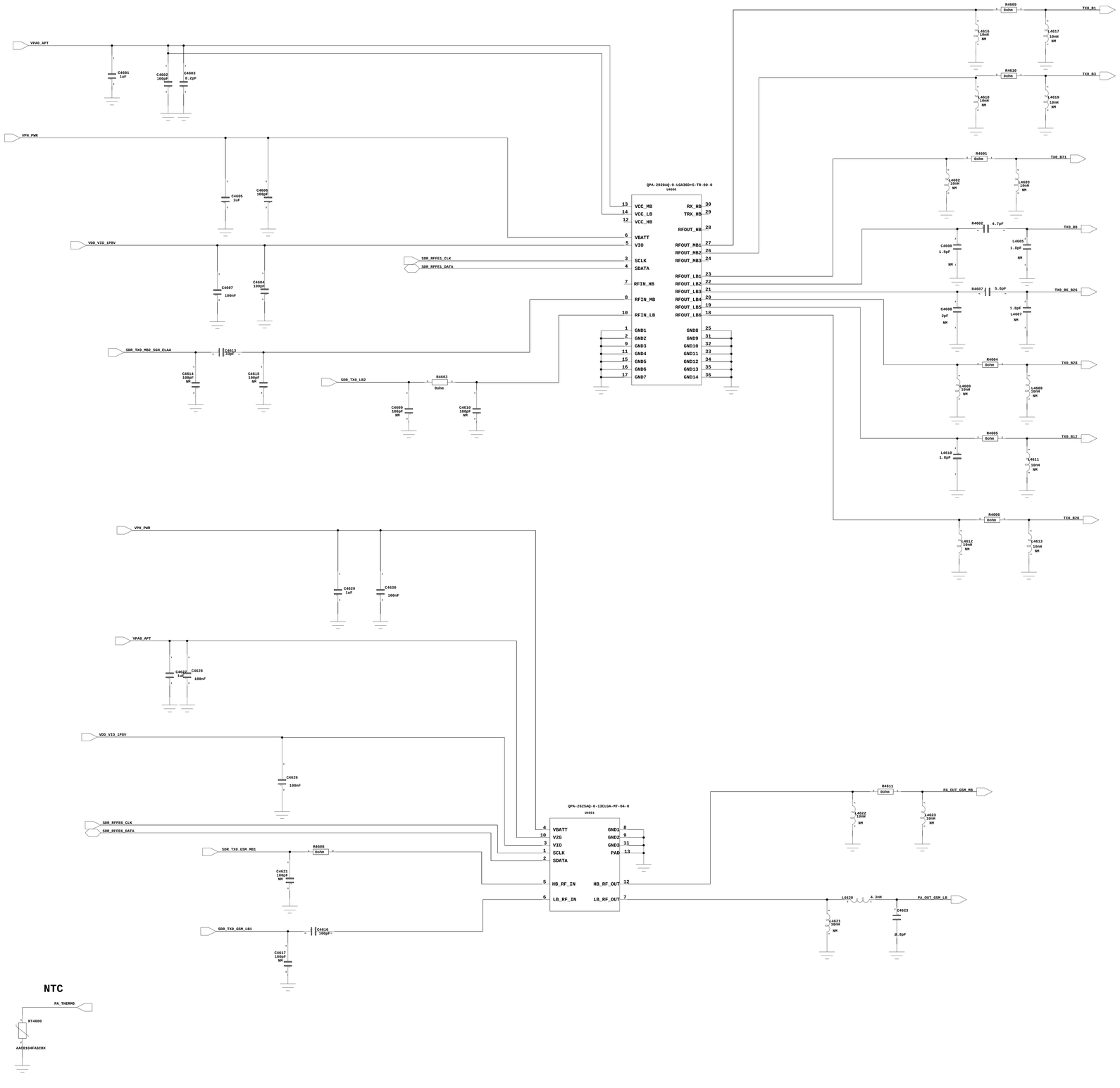


FBRX SWITCH

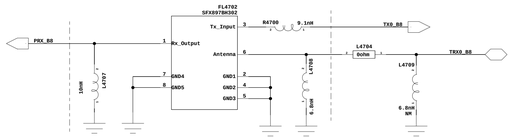

LDO_2P8V_SWITCH
SDR_GRFC14
C4403 100pF
C4404 1nF
U4401
AW13412DNR
SDR_FBRX_IN0
R4407 0ohm
L4401 27nH NM
LDO_2P8V_SWITCH
SDR_GRFC7
C4401 100pF
C4402 100pF
S4400
MX86621R
GND
VDD
VCTL
RF2
ANT
RF1
R4400 0ohm
L4400 27nH NM
R4402 0ohm
R4405 300ohm NM
R4404 300ohm NM
FBRX_LB_MB_TX0
FBRX_N78_TX0
LDO_2P8V_SWITCH
SDR_GRFC6
C4405 1nF
C4406 100pF
S4401
MX86621R
R4408 0ohm
L4402 27nH NM
FBRX_LB_MB_TX1
FBRX_MB_TX1

N41-SRS

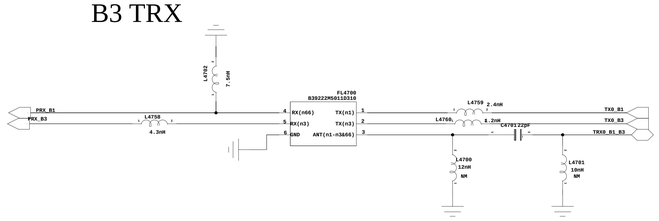
ANT_LB_TRX0
R4502 0ohm
L4501 10nH NM
C4505 0.8pF NM
FL4508 SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
R4503 0ohm
R4504 0ohm
L4509 22nH NM
FL4501 B9PFLP71855050DT1TR
OUT1
OUT2
GND
IN1
IN2
R4505 0ohm
C4504 0.5pF
LDO_2P0V_SWITCH
VDD_VIO_1P8V
SDR_RFFE1_DATA
SDR_RFFE1_CLK
C4502 100pF
C4501 1nF
C4500 10pF NM
C4503 10pF NM
MA4509 MX805A6F
VDD
VIO
SDATA
SCLK
ANT
GND1
GND2
GND3
GND4
TH_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
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
SDM_GRFC2
SDM_GRFC3
100pF C4516
100pF C4517
100pF C4508
MA4593 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
FL4503 SLCP18-2R700G-01T
FBRX_LB_TX1
R4515 0ohm
L4507 22nH NM
L4508 22nH NM
R4516 0ohm
L4511 2.7nH
L4512 2.7nH
FBRX_LB_MB_TX1
R4518 300ohm NM
R4517 300ohm NM
0.8nH L4513
C4510 0.75pF
ANT_MB_TRX1
R4519 0ohm
L4517 10nH NM
C4514 0.8pF NM
C4520 100pF
VDD_VIO_1P8V
MXD8645H MA4504
RF1
RF2
RF3
RF4
GND1
VIO
SDATA
SCLK
ANT
SDR_RFFE5_DATA
SDR_RFFE5_CLK
N41_SRS_DRX
N41_SRS_PRXMIMO
N41_SRS_DRXMIMO
0ohm R4532
0ohm R4533
0ohm R4531
L4519 10nH
L4520 10nH
L4521 22nH NM
FL4505 SLCP18-2R700G-01T
R4521 300ohm NM
R4522 0ohm
R4524 300ohm NM
R4523 300ohm NM
FBRX_MB_TX1
R4529 0ohm
L4515 22nH NM
L4516 22nH NM
MA4503 QM12114
RFCOM
GND
VIO
SDATA
SCLK
RF1
RF2
RF3
RF4
C4511 1nF
C4512 10pF NM
C4513 10pF NM
TRX1_B40
TRX1_B41
TRX1_B7
ANT_LB_TRX1
R4525 0ohm
L4510 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


VPA0_APT
C4601 1uF
C4602 100pF
C4603 0.2pF
VPH_PWR
C4605 1uF
C4606 100pF
VDD_VIO_1P8V
C4607 100nF
C4604 100pF
SDR_TX0_MB2_SDR_ELAA
C4613 33pF
C4614 100pF NM
C4615 100pF NM
SDR_TX0_LB2
R4603 0ohm
C4609 100pF NM
C4610 100pF NM
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
SDR_RFFE1_CLK
SDR_RFFE1_DATA
R4600 0ohm
L4616 10nH NM
L4617 10nH NM
TX0_B1
R4610 0ohm
L4618 10nH NM
L4619 10nH NM
TX0_B3
R4601 0ohm
L4602 10nH NM
L4603 10nH NM
TX0_B71
R4602 4.7pF
C4600 1.5pF NM
L4605 1.8pF NM
TX0_B8
R4607 5.6pF
C4608 2pF NM
1.8pF L4607 NM
TX0_B5_B26
R4604 0ohm
L4608 10nH NM
L4609 10nH NM
TX0_B28
R4605 0ohm
L4610 1.8pF
L4611 10nH NM
TX0_B12
R4606 0ohm
L4612 10nH NM
L4613 10nH NM
TX0_B20
VPH_PWR
C4629 1uF
C4630 100nF
VPA0_APT
C4627 1uF
C4628 100nF
VDD_VIO_1P8V
C4626 100nF
SDR_RFFE6_CLK
SDR_RFFE6_DATA
SDR_TX0_GSM_MB1
R4608 0ohm
C4621 100pF NM
SDR_TX0_GSM_LB1
C4616 100pF
C4617 100pF NM
QPA-2625AQ-0-13CLGA-MT-04-0
U4601
VBATT
VIO
SCLK
SDATA
HB_RF_IN
LB_RF_IN
VIO
GND1
GND2
GND3
PAD
HB_RF_OUT
LB_RF_OUT
R4611 0ohm
L4622 10nH NM
L4623 10nH NM
PA_OUT_GSM_MB
L4620 4.3nH
L4621 10nH NM
C4623 0.8pF
PA_OUT_GSM_LB
NTC
PA_THERMO
RT4600
AAC0104FA6CBX

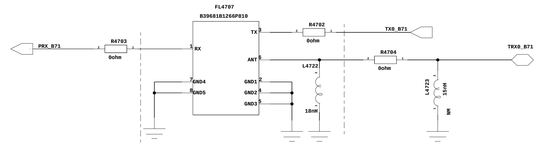
B8 TRX



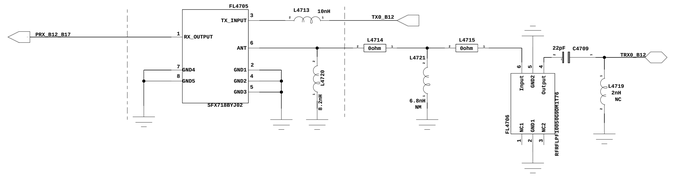
B1 TRX
B3 TRX



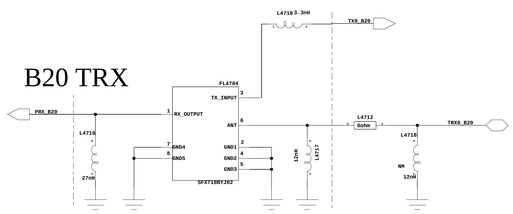
B71 TRX



B12 TRX

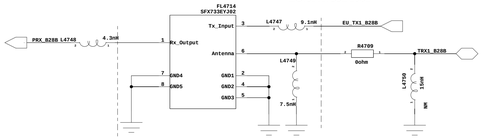


B20 TRX

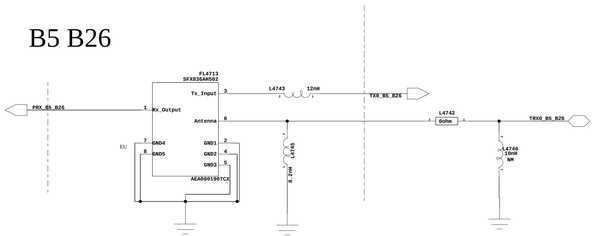


B28B TRX1

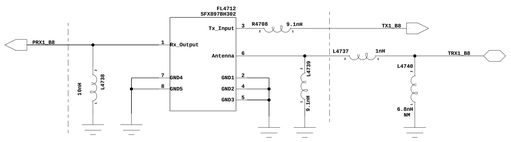
EU:SFX733EYJ02



B5 B26

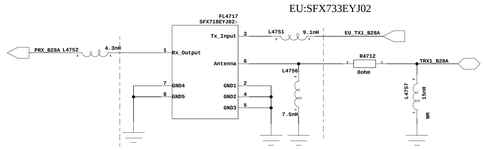


B8 TRX1

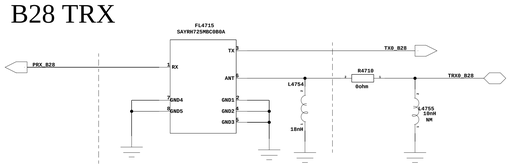


B28A TRX1

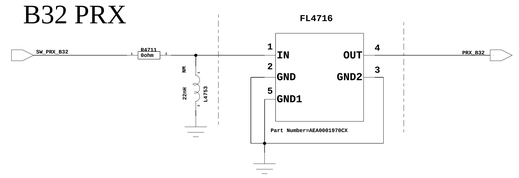
EU:SFX733EYJ02



B28 TRX



B32 PRX



B41 TRX

B40 TRX

B7 TRX

B1/66 TRX

B3 TRX

B1

ENDC_EU_B20

B4/66 TRX

B2/25 TRX

U4900
QLN5040-0-41PSP-MT-03-0

PRX_B7
PRX_B41
PRX_B40
PRX_B2_B25
PRX_B4_B66
PRX1_B3
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
C4911 33pF
L4901 5.6nH
C4911 33pF
C4912 33pF
C4914 33pF
L4902 4.3nH
C4910 33pF
C4928 33pF
L4903 6.8nH

J7 LNA1_SW1
J9 LNA1_SWO
H8 LNA1_SW3
G9 LNA1_SW4
C9 LNA2_SW1
E9 LNA2_SW2
F8 LNA2_SW3
A9 LNA2_SW4
A8 LNA2_SWO
B8 LNA2_IN
J1 LNA3_SW1
H2 LNA3_SW2
F2 LNA3_SW3
E2 LNA3_SW4
A1 LNA3_SWO
J5 LNA3_IN
A3 LNA4_SW1
A5 LNA4_SW2
B5 LNA4_SW3
B4 LNA4_SW4
B6 LNA4_SWO
A7 LNA4_IN
D2 LNA5_SW1
E1 LNA5_SW2
A2 LNA5_SWO
B2 LNA5_IN

L4904 WN 22nH
L4909 WN 4.3nH
L4910 WN 3.9nH
L4912 WN 22nH
L4913 WN 22nH
L4941 WN 22nH
L4914 22nH 3.3nH
L4915 WN 22nH
L4916 22nH 3.9nH
L4917 WN 22nH
L4918 4.7nH 3.6nH
L4919 WN 22nH
L4920 22nH 2.2nH
L4921 WN 22nH
L4923 3.3nH
L4906 WN 18nH
L4907 10nH
L4908 WN 10nH
L4909 WN 18nH
L4900 18nH

DATA F2 SDR_RFFE2_DATA
CLK G1 SDR_RFFE2_CLK
OUT1 F6 SDR_P_JMN
OUT2 D4 SDR_P_MH
OUT3 B6 SDR_PM_JMN
OUT4 F4 SDR_PM_MH
VDD_1P7 E5 VDD_ANA_1P7
VIO E3 VDD_VIO_1P8V
QRT_IDO C5
ID1 E3
GND1 C3
GND2 E7
GND3 C7
GND4 E7
GND5 G7

C4915 100pF
C4916 100pF
C4917 100pF
C4918 100pF

U4901
QLN-SG20-0-41-PSP-MT-01-0

R4903 0ohm
R4904 0ohm
R4905 0ohm
R4906 0ohm
R4902 0ohm
R4907 0ohm
R4909 0ohm
R4910 0ohm
R4911 0ohm
R4912 0ohm

PRX_B28A
PRX1_B8
PRX_B12_B17
PRX_B28
PRX_B71
PRX_B20
PRX_B28B
PRX_B8
ENDC_PRX_EU_B20
PRX_B5_B26

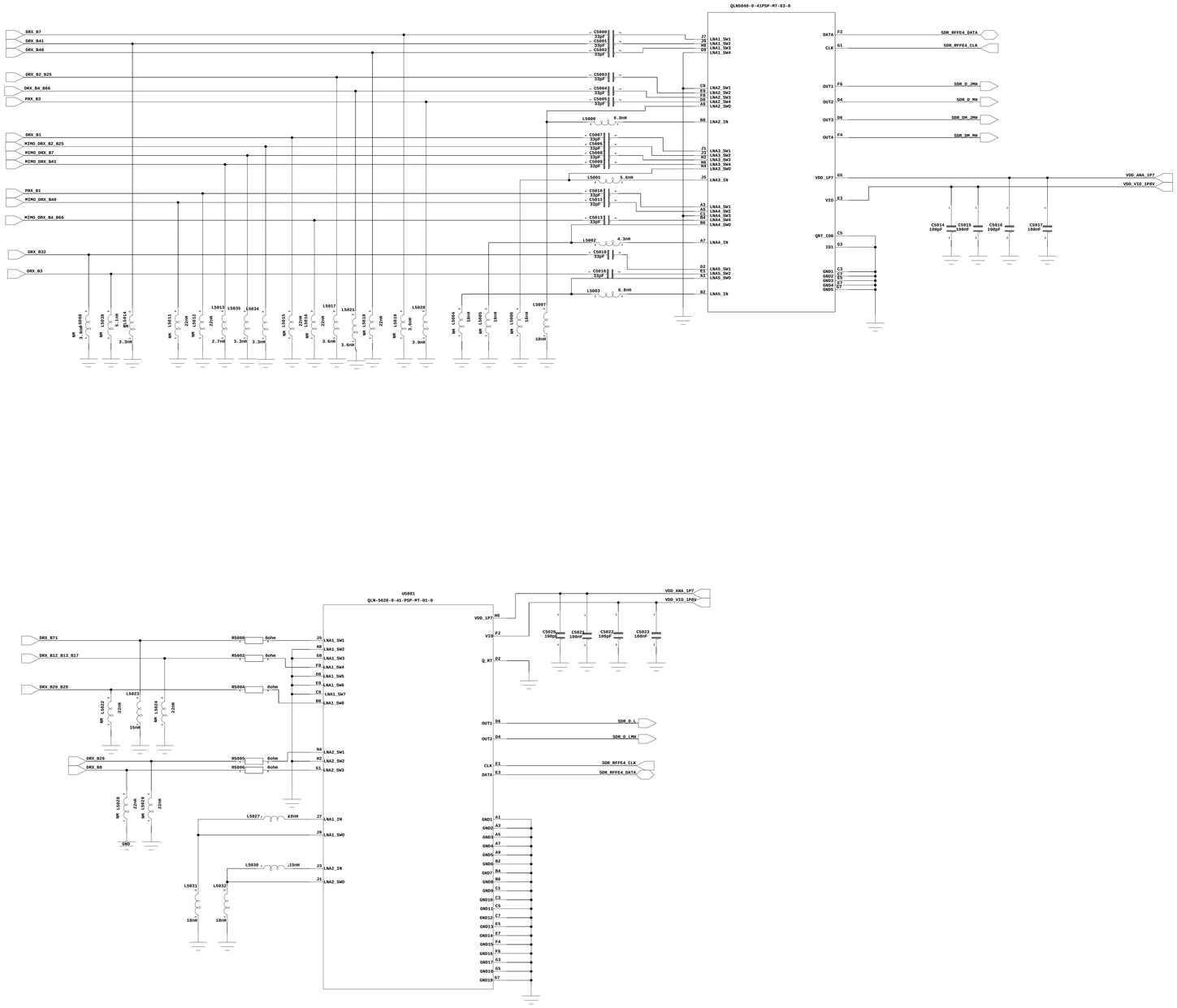
L4924 WN 22nH
L4925 WN 22nH
L4926 WN 22nH
L4927 WN 22nH
L4928 WN 22nH
L4929 WN 22nH
L4931 WN 22nH
L4933 WN 22nH
L4934 WN 22nH
L4935 WN 22nH

L4932 18nH
L4936 15nH
L4937 18nH
L4938 18nH

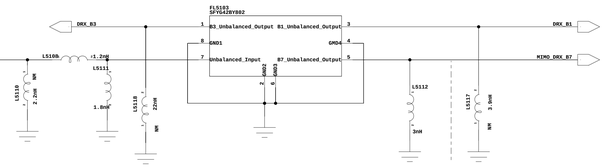
J5 LNA1_SW1
H6 LNA1_SW2
G9 LNA1_SW3
F8 LNA1_SW4
D8 LNA1_SW5
E9 LNA1_SW6
C9 LNA1_SW7
B8 LNA1_SW8
H4 LNA2_SW1
H2 LNA2_SW2
G1 LNA2_SW3
J7 LNA1_IN
J9 LNA1_SWO
J3 LNA2_IN
J1 LNA2_SWO

VDD_1P7 H6
VIO F2
Q_RT D2
OUT1 D6 SDR_P_L
OUT2 D4 SDR_P_LMH
CLK E1 SDR_RFFE2_CLK
DATA E3 SDR_RFFE2_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

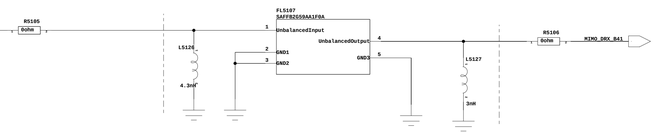
VDD_ANA_1P7
VDD_VIO_1P8V
C4921 100pF
C4922 100pF
C4923 100pF
C4924 100pF


U5000
QLN5040-0-41PSP-MT-03-0
U5001
QLN-5020-0-41-PSP-MT-01-0
DRX_B7I
DRX_B41
DRX_B40
DRX_B2_B25
DRX_B4_B66
PRX_B3
DRX_B1
MIMO_DRX_B2_B25
MIMO_DRX_B7
MIMO_DRX_B41
PRX_B1
MIMO_DRX_B40
MIMO_DRX_B4_B66
DRX_B32
DRX_B3
DRX_B26
DRX_B8
DRX_B20_B28
C5000 33pF
C5001 33pF
C5002 33pF
C5003 33pF
C5004 33pF
C5005 33pF
C5007 33pF
C5006 33pF
C5008 33pF
C5009 33pF
C5010 33pF
C5011 33pF
C5012 33pF
C5013 33pF
C5018 33pF
C5019 33pF
LS000 0.8nH
LS001 5.6nH
LS002 4.3nH
LS003 0.8nH
LS004 18nH
LS005 18nH
LS006 18nH
LS007 18nH
LS008 3.9nH
LS009 3.6nH
LS010 2.2nH
LS011 2.2nH
LS012 2.2nH
LS013 22nH
LS014 3.3nH
LS015 2.2nH
LS016 2.2nH
LS017 3.6nH
LS018 22nH
LS019 3.6nH
LS020 3.9nH
LS021 22nH
LS022 22nH
LS023 15nH
LS024 22nH
LS025 22nH
LS026 22nH
LS027 18nH
LS030 15nH
LS031 18nH
LS032 18nH
R5000 0ohm
R5001 0ohm
R5002 0ohm
R5003 0ohm
R5004 0ohm
R5005 0ohm
R5006 0ohm
LNA1_SW1
LNA1_SW2
LNA1_SW3
LNA1_SW4
LNA1_SW5
LNA1_SW6
LNA1_SW7
LNA1_SW8
LNA2_SW1
LNA2_SW2
LNA2_SW3
LNA2_SW4
LNA2_SW5
LNA2_SW6
LNA2_IN
LNA3_SW1
LNA3_SW2
LNA3_SW3
LNA3_SW4
LNA3_SW5
LNA3_IN
LNA4_SW1
LNA4_SW2
LNA4_SW3
LNA4_SW4
LNA4_IN
LNA5_SW1
LNA5_SW2
LNA5_SW3
LNA5_IN
DATA
CLK
OUT1
OUT2
OUT3
OUT4
VDD_1P7
VIO
QRT_ID0
ID1
GND1
GND2
GND3
GND4
GND5
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 100pF
C5022 100pF
C5023 100pF
GND
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND18
GND19

MIMO DRX B7_DRX_1_3



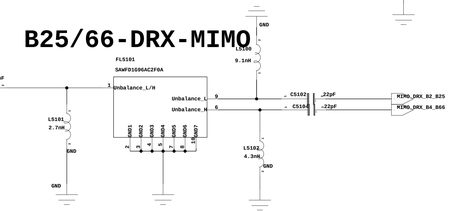
MIMO DRX B41



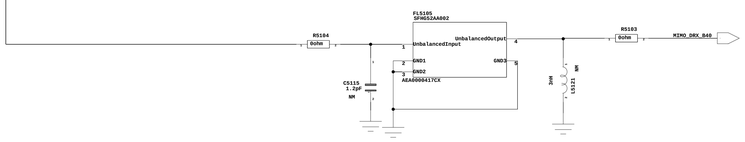
N41 SRS_DRXMIMO



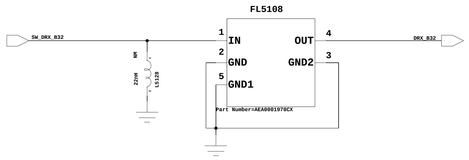
B25/66-DRX-MIMO



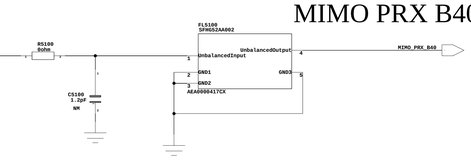
MIMO DRX B40



B32 DRX



MIMO PRX B40

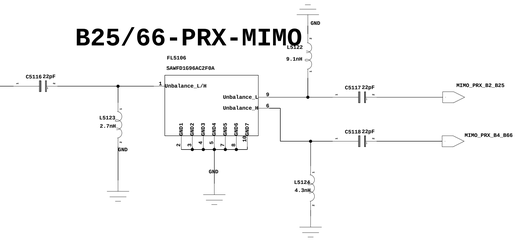


MIMO PRX B41

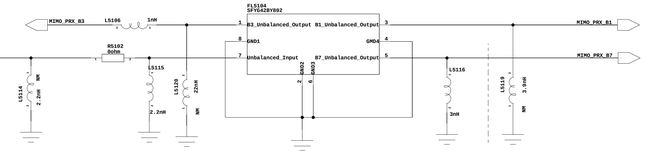


B2_B4_B25_B66

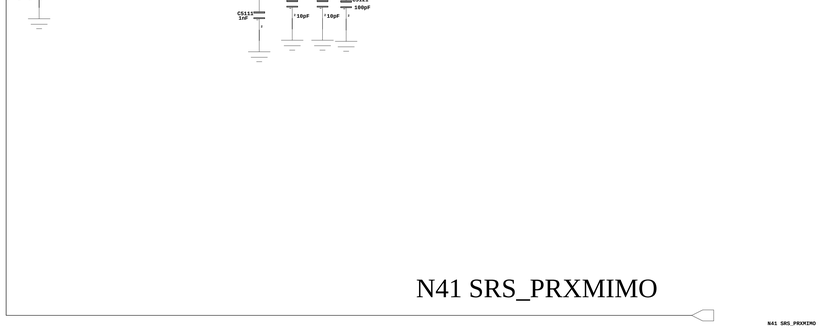
B25/66-PRX-MIMO



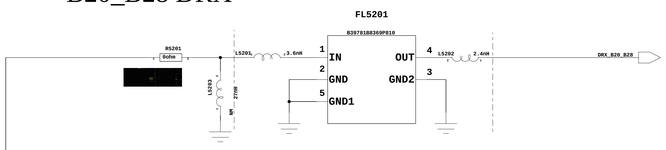
MIMO PRX B7_1_3



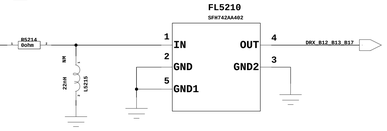
N41 SRS_PRXMIMO

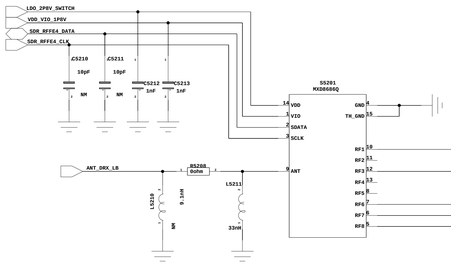


B20_B28 DRX

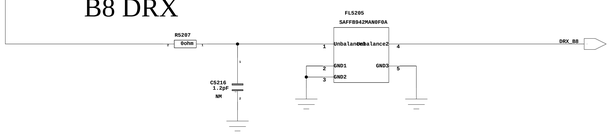


B12_B13_B17 DRX



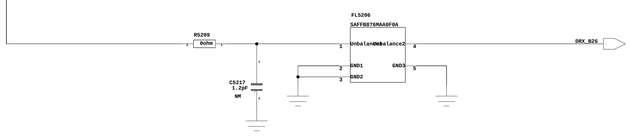


B8 DRX

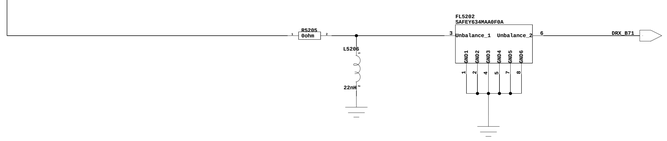


B26 DRX

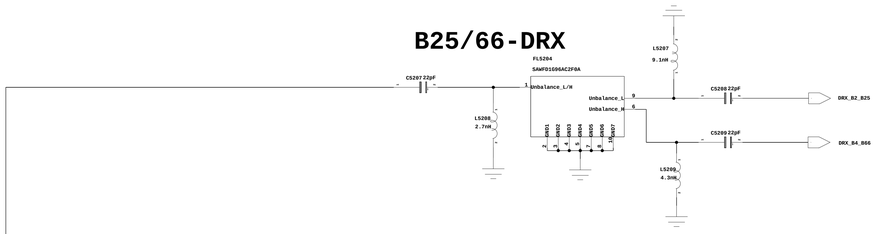
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B71 DRX



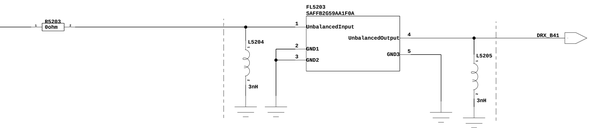
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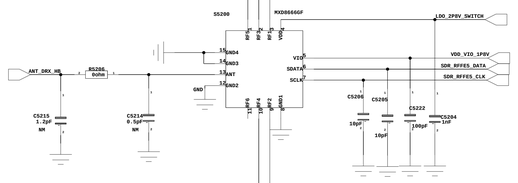


B40 DRX

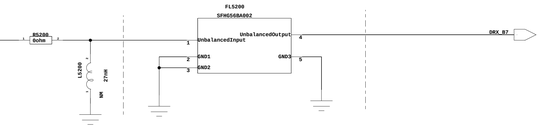


B41 DRX





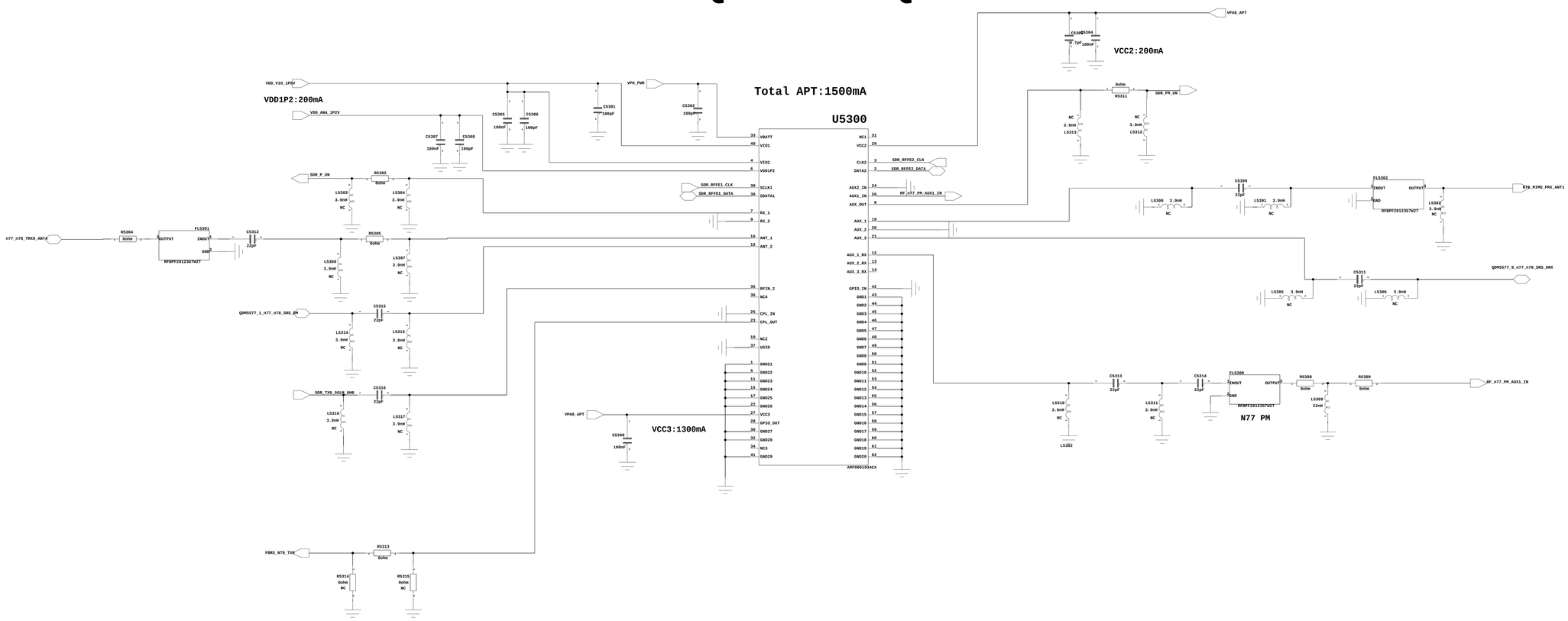
B7 DRX



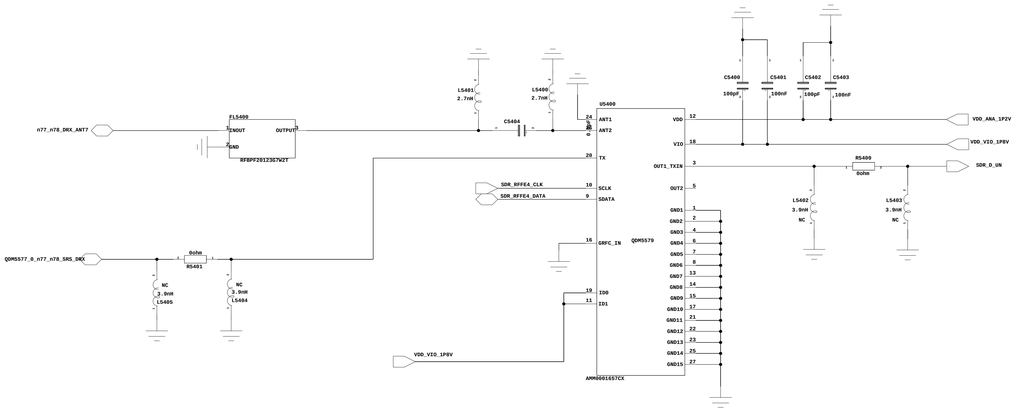
N41 SRS_DRX



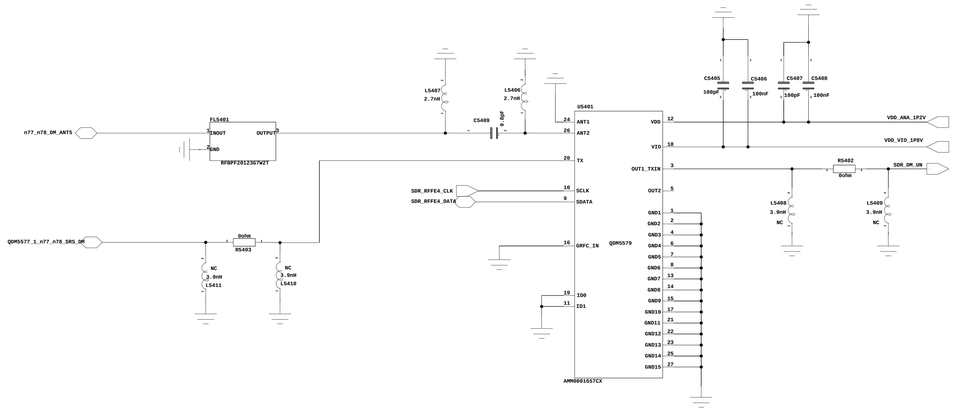
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VDD1P2:200mA
VDD_ANA_1P2V
VPH_PWR
Total APT:1500mA
U5300
VCC2:200mA
VPA8_APT
SDR_PM_UN
SDR_P_UN
SDR_RFFE2_CLK
SDR_RFFE2_DATA
SDR_RFFE1_CLK
SDR_RFFE1_DATA
RF_N77_PM_AUX1_IN
n77_n78_TRX0_ANT4
QDMS577_1_n77_n78_SRS_DM
SDR_TX0_5G1B_UHB
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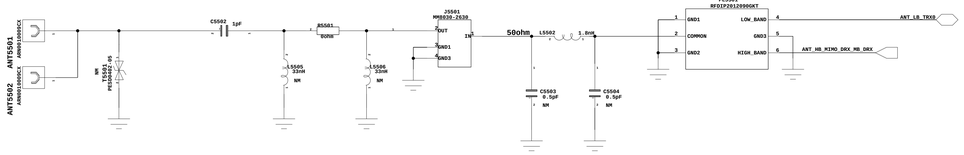
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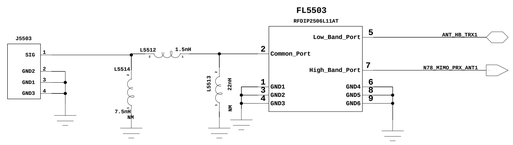
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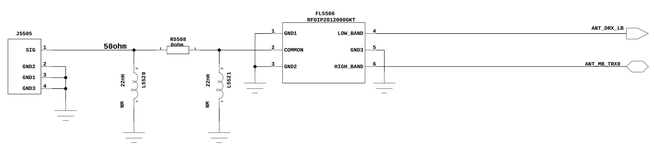
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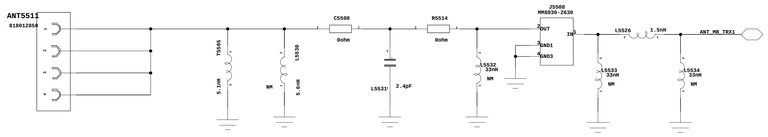
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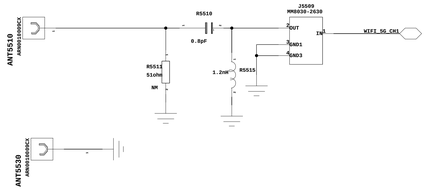
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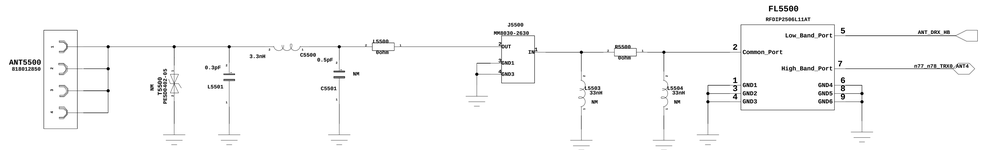
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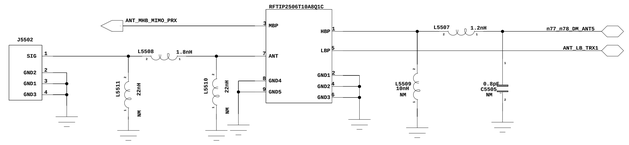
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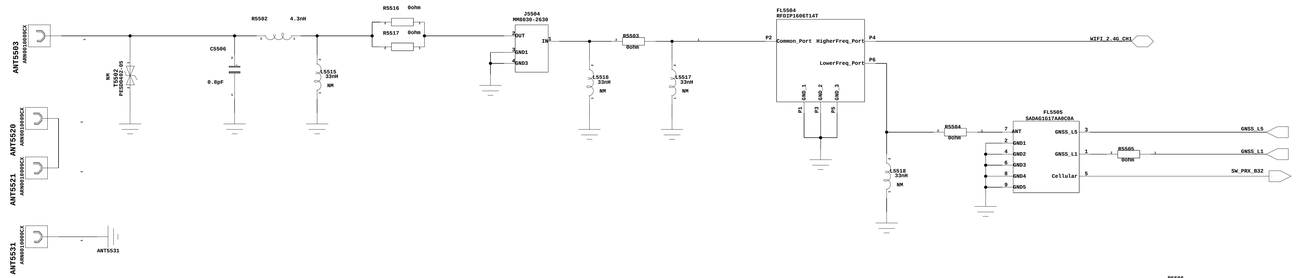
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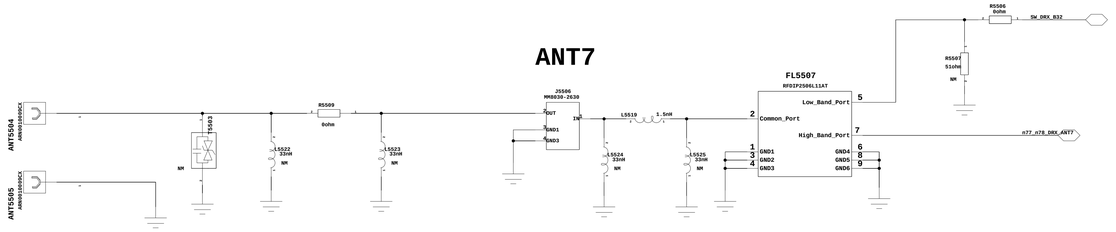
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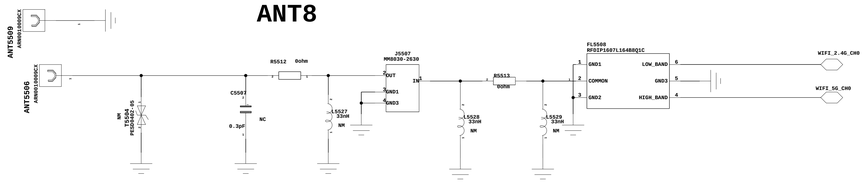
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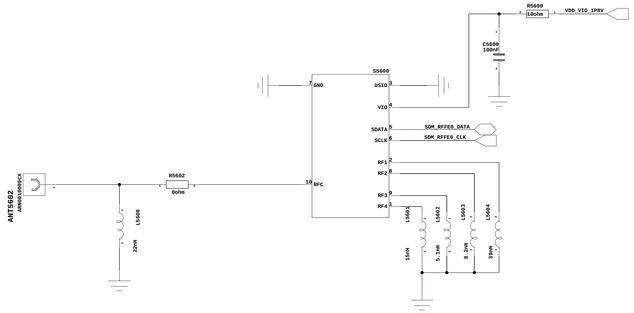


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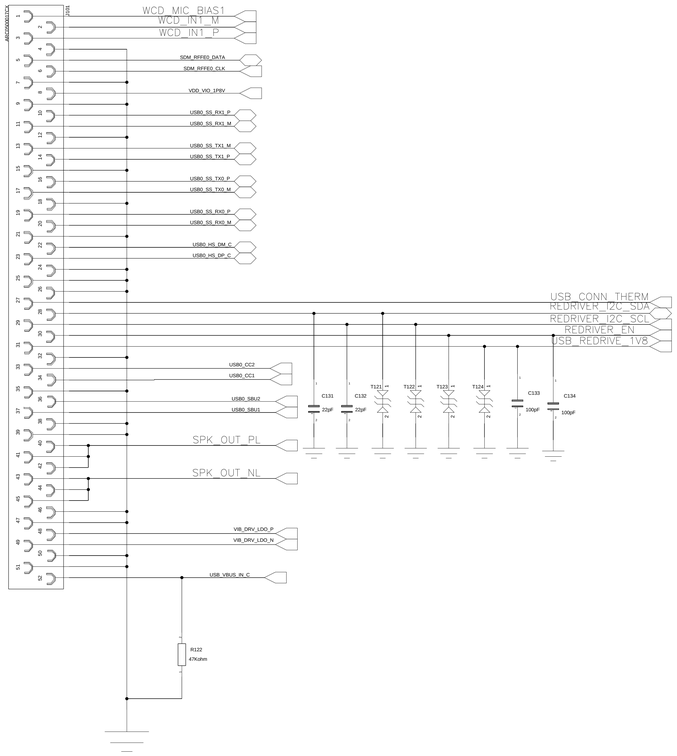


ANT8



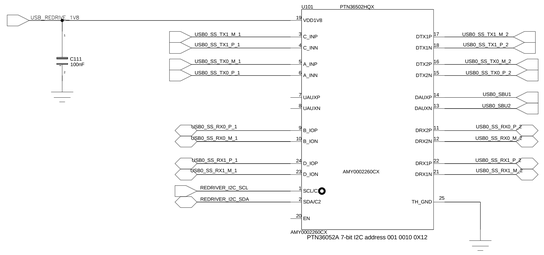

ANT5602
ANN001000C4
R5602
0ohm
L5600
22nH
GND
RFC
SS600
VSID
VIO
SDATA
SCLK
RF1
RF2
RF3
RF4
SDM_RFFE0_DATA
SDM_RFFE0_CLK
R5600
10ohm
VDD_VIO_1P8V
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L5602
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8.2nH
L5604
3nH

SUB BOARD CONN



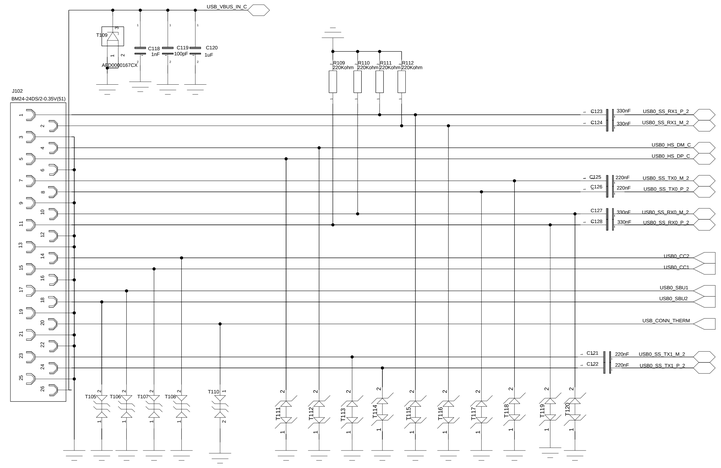






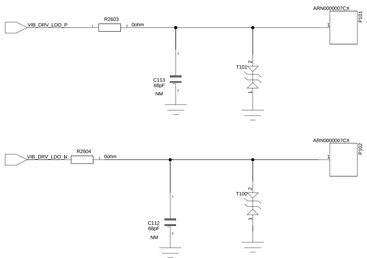
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USB BTB

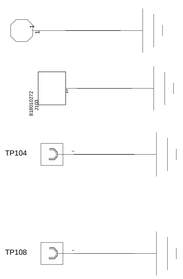


Place close to USB Connector.

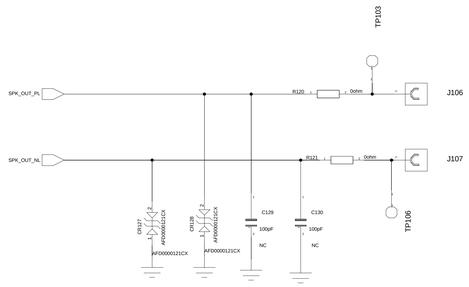
VIBRATOR



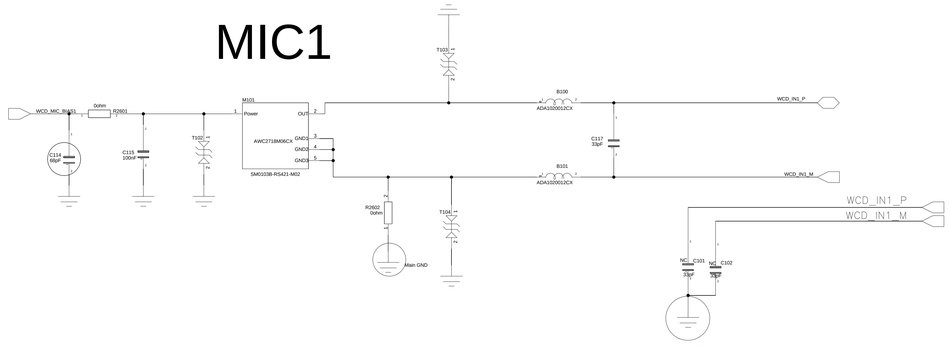
SH101



SPEAKER



MIC1

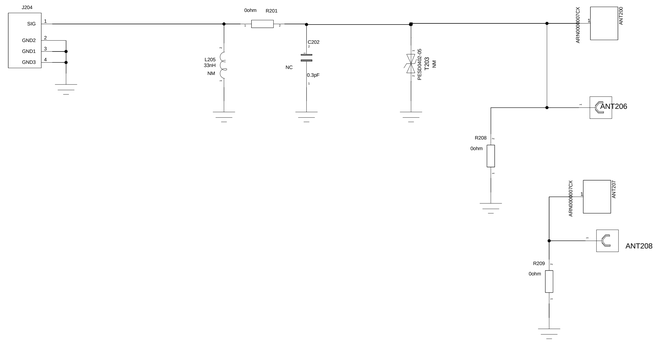


MARK101 MARK102 MARK103 MARK104

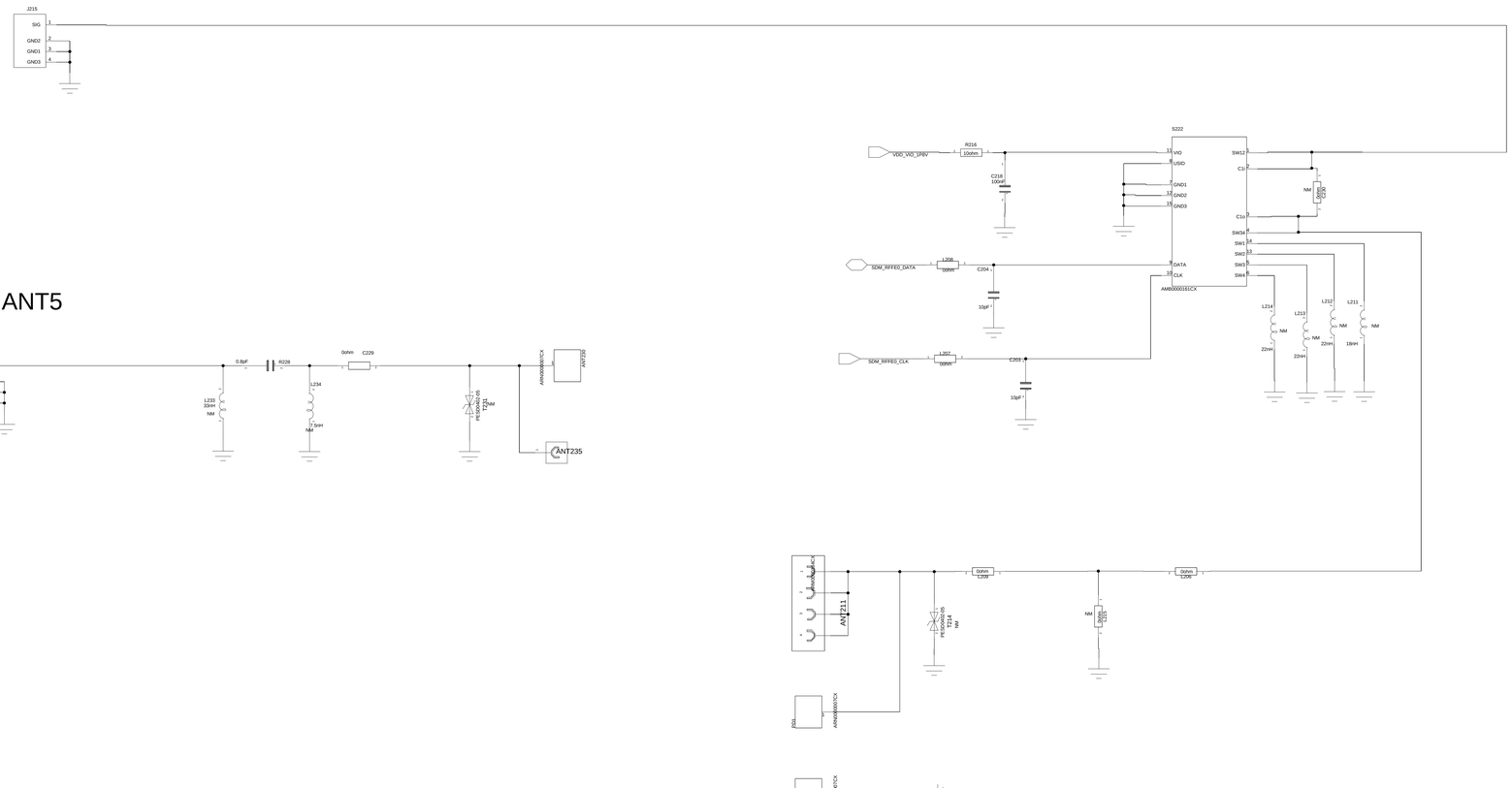
2022-10-20

Connect to Main GND

ANT1



ANT2



ANT5

