Fairphone (Gen. 6): Information on how to repair, dispose of, and recycle

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1. Product Identification

This document refers to the "The Fairphone (Gen. 6)", a product by Fairphone, that was launched in the market on June 25, 2025. The **main technical specifications** are as follows:

Display
6.31 inch FHD+ LTPO AMOLED
83.70% screen-to-body ratio
2484×1116 resolution (431 pixels per inch)
10~120Hz refresh rate (dynamic
240Hz touch sampling rate
2~1400 nits brightness
1.07 billion colours (DCI-P3 Gamut)
1,000,000:1 contrast ratio
Corning Gorilla Glass 7i, 0,7 mm, Oleophobic Coating
20:9 aspect ratio

Sound
Stereo speakers
Type C digital output
Bluetooth 5.4
SBC
AAC
Qualcomm® aptX™:
Audio, Adaptive audio, Lossless (24/96 KHz), HD, aptX™ 48KHz,

Main Camera
50 MP Sony LYT-700C sensor, 1/1.56", 1.0 µm² pixel size
Pixel binning: 12.5 MP, 2.0 µm² effective pixel size
84.4° field of view
F/1.88 lens, 6 lens elements
Autofocus, time of flight sensor
Up to 10× digital zoom
Optical & electronic image stabilization

Ultra Wide Camera
13 MP, 1/3.06", 1.12 µm² pixel size
108° field of view
F/2.2 lens, 5 lens elements
Autofocus, Macro Mode, 2.5 cm minimum focusing distance, time of flight sensor
Electronic image stabilization

Selfie Camera
50 MP KD1 sensor, 1/3.44", 0.64 µm² pixel size
Pixel binning: 12.5 MP, 2.0 µm² effective pixel size
81.8° field of view
F/2.0 lens
Autofocus, time of flight sensor
Up to 0.75× digital zoom-out
Display usable as flash

Camera Modes
Slo-mo, Time lapse, Video, Photo, Portrait, Pro, Panorama, Super night

Video
4K (3840×2160): 30 fps
Full HD (1920×1080): 30,60 fps
HD (1280×720): 30 fps
Slow-mo: FHD 120 fps - HD 240 fps

Operating System
Android™ 15
Software updates until 2023

Performance
Qualcomm SM7635 Snapdragon 7s Gen 3
64-bit octa-core Architecture
1× Prime core, up to 2.5 GHz
3× Performance cores, up to 2.4 GHz
4× Efficiency cores, up to 1.8 GHz
Qualcomm Adreno 710 @ 940MHz
8 GB of RAM

Storage
256 GB internal storage
UFS 3.1
External storage capacity: micro-SD up to 2 TB

Battery
4415 mAh removable Li-ion battery
522 Hours of idle time
20 Hours of phone calls
18 Hours of web browsing
27W fast charging, peak at 30W
Supports Quick charge 4+ & USB power delivery
Full charge in 85 minutes
50% charge in 25 minutes

Connectivity & Location
Wi-Fi 6E
Bluetooth® 5.4 LE
NFC
GPS/A-GPS, Beidou, Galileo, GLONASS
Dual SIM (nano-SIM + eSIM, both 5G enabled)
Bands and Band-Combinations:
GSM(2G): 850, 900, 1800, 1900
UMTS(3G): 850, 900, 1900, 2100
LTE(4G): 1, 2, 3, 4, 5, 7, 8, 12, 17, 20, 25, 26, 28, 32, 66, 71
5G: n1, n2, n3, n5, n7, n8, n20, n28, n38, n41, n48, n66, n71, n77, n78
USB-C 3.0 (OTG capable)

Durability
IP55
MIL 810H:2019 (1.5 meter)

Sensors & Security
Fingerprint scanner (integrated in power button)
Facial recognition
Magnetometer
Accelerometer
Gyroscope
E-Compass
Barometer
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. Upper Back Cover
3. Lower
4. Display
5. Top Unit
6. Wide Camera
7. Ultra-Wide Camera
8. Selfie Camera
9. Earpiece
10. Loud Speaker and Vibration Unit
11. USB-C Port
12. Mid-Frame
13. Main PCBA
14. Sub PCBA
15. Main FPC
16. Volume Key
17. Fingerprint Sensor
18. Toggle Key
19. SIM Tray

3. List of repair and test equipment needed

Repairing the Fairphone (Gen. 6) is very simple, and the list of required tools is short. Most of the repairs will only require a T5 Torx Screwdriver. For more complex repairs, you will need tools 2–8.

1. T5 Torx Screwdriver
2. Prying tool (preferably made of plastic)
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 Manuals

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. FP Gen6. Charge your phone
2. FP Gen6. Set up SIM card
3. FP Gen6. Set up eSIM card (embedded SIM)
4. FP Gen6. Connect to Mobile data
5. FP Gen6. Connect to Bluetooth
6. FP Gen6. Connect to a Wi-Fi
7. FP Gen6. Migrate data from another phone
8. FP Gen6. Update to the latest Fairphone OS
9. FP Gen6. Maximize battery lifespan
10. FP Gen6. 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 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 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 (Gen. 6) contains the following key components with the following key data Points:

<table>
<tr><th>Component</th><th>Part details</th><th>Vendor</th><th>Key specs</th></tr>
<tr><td>Battery</td><td>KPL596066</td><td rowspan="2">Kayo</td><td rowspan="2">Typical capacity : 4415 mAh
Nominal voltage: 3.91 V
Cut off voltage: 3.0 V
Charging voltage: 4.50 V
Dimensions: 72.01 × 68.15 × 6.38 mm
DC internal impedance ≤ 70 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.</td></tr>
<tr><td>Battery Connector</td><td>BM25-4P2-V(51)</td></tr>
<tr><td>Chipset</td><td>SM7635
(Radio: WCN6755)</td><td>Qualcomm</td><td>64-bit, 4 nm, Qualcomm® Kryo™ CPU cores, up to 2.5 GHz
Qualcomm® Adreno™, supports OpenGL® ES 3.2, Vulkan® 1.3, OpenCL™ 2.0 FP
8 GB of 3200 MHz LPDDR5 Memory
5G modem-RF system, 140 MHz bandwidth (Sub-6), 200 MHz bandwidth (mmWave)
Wi-Fi 6e, 802.11a/ac/ax/b/g/n, 2.4, 5 & 6 GHz bands, up to 2.9 Gbps
Bluetooth ver. 5.4, Low energy audio feature
Qualcomm Aqstic™ Hi-Fi DAC & Speaker Max
Qualcomm® FastConnect™ Mobile Connectivity System
Camera: Multi-frame Noise Reduction (MFNR), AI-Based De-Noising Engine (AIDE), Low light capture, Staggered High Dynamic Range (HDR) sensor, Multi-Frame HDR and Limited Blanking Multi-Frame HDR sensor, supports H.264 & H.265 formats</td></tr>
<tr><td>Display</td><td>BJ631JHM-T71</td><td>BOE</td><td>6.31”
Outline: 69.84(W) × 153.235(H) × 1.183(T) mm
Active area: 65.68776(W) × 146.20824(H) mm
Number of dots: 1116(W) × 2484(H)
Frequency (refresh rate): 10~120 Hz
Logical input & output voltage: -0.3 to 0.3 V
Operating Temp: -20 ~ 70°C
Electrical Characteristics:
<table><tr><th>Unit (V)</th><th>VDDI</th><th>DVDD</th><th>VCI</th><th>VBAT</th><th>AVDD</th><th>TSP_AVDD</th><th>TSP_VDDIO</th></tr><tr><td>Min</td><td>1.65</td><td>1.20</td><td>2.65</td><td>2.5</td><td>5</td><td>2.7</td><td>1.65</td></tr><tr><td>Typical</td><td>1.8</td><td>1.25</td><td>3.0</td><td>4.6</td><td>7.6</td><td>3.3</td><td>1.8</td></tr><tr><td>Max</td><td>1.95</td><td>1.95</td><td>4.8</td><td>4.8</td><td>7.9</td><td>3.6</td><td>1.95</td></tr></table></td></tr>
<tr><td>Microphone</td><td>SM0103B-RIS421-M02</td><td>AAC</td><td>Sensitivity: -42 dB
Output Impedance: 450 Ω
Supply Voltage: 2.5 ~ 3.6 V
Rated Current: 100 µA
S/N Ratio: 64 dB
Power Supply Rejection: -96 dBV
Load Resistor: 5 kΩ
Operating Temperature: -40 ~ 100℃
Soldering Information:
- Preheat: 150 ~ 180℃ for a maximum of 120 secs.</td></tr>
</table>

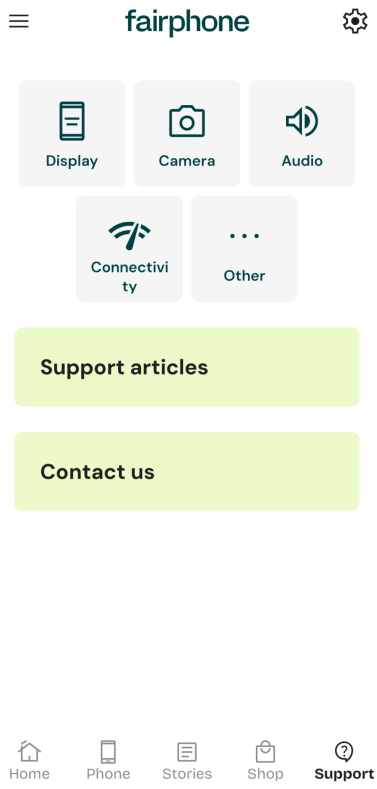
			- Soldering: Above 220°C for a maximum of 90 secs. - Peak: 260°C for a maximum of 30 seconds. • Do not reflow more than 3 times.
Main Camera	PVCP4307 PNSS4307	TSP	Sensor: Sony Lytia LYT-700C (IMX896) Dimensions: 25.67 × 15.6 × 7.456 mm Lens Field of View: 84.4° Resolution: 50 MP Sensor size: 1/1.56" Sensor pixel size: 1.0 µm Lens aperture size: F/1.88 Focus: AF Stabilisation: OIS & EIS Pixel binning: Quad Pixel options
Ultrawide Camera	PVCP4344	TSP	Sensor: OV13B10 Dimensions: 16.98 × 8.8 × 6.01 mm Lens Field of View: 108° Resolution: 13 MP Sensor size: 1/3.06" Sensor pixel size: 1.12 µm Lens aperture size: F/2.2 Focus: AF Stabilisation: EIS
Selfie Camera	PVCP4346 PSHP4346	TSP	Sensor: KD1 Dimensions: 16.23 × 8.95 × 5.06 mm Lens field of view: 81.8° Resolution: 32 MP Sensor size: 1/3.44” Sensor pixel size: 0.64 µm Lens aperture size: F/2.0 Focus: AF
USB-C Port	HC-07680243001 04	FRTERS	Dimensions: 9.34 × 8.64 × 4.06 Positioning: top-mount, 24-pin Contact resistance: 40 mΩ (at 20 mV, 100 mA) Contact current rating: 7 A Operating Temperature: -40 ~ 85°C Protection: IP67
Speaker	XHS151151LN-01-R H	ZHEJIANG HAOSHENG	Dimensions: 11.1 × 15.1 × 2.45 mm 7.3 Ω ± 10% @ 2 kHz, 2.83 Vrms Input 1.14 W Rated Noise (1.75 W Max) in 0.65 cc & 25°C 200 ~ 20 KHz Frequency range Operating Temperature: -30 ~ 70°C Storage Temperature: -40 ~ 85°C
Earpiece Speaker	XHSR121005LY-24- RH	ZHEJIANG HAOSHENG	Dimensions: 10 x 12 x 2.9 mm Impedance: 7 Ω @ 2 kHz Input DC Resistance: 6 Ω Rated Power: 50 mW Operating Temperature: -30 ~ 70°C Storage Temperature: -40 ~ 85°C

7. Diagnosis Information

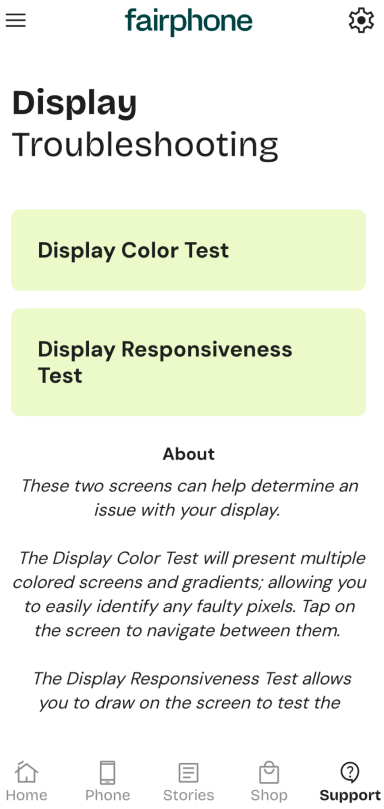
There are several components in your device that can be diagnosed. We advise you to follow our diagnosis tree on our website.
You can also test one of the phone functions or components directly. To do so, please go to My Fairphone App on your phone. Please only do this under the instruction of

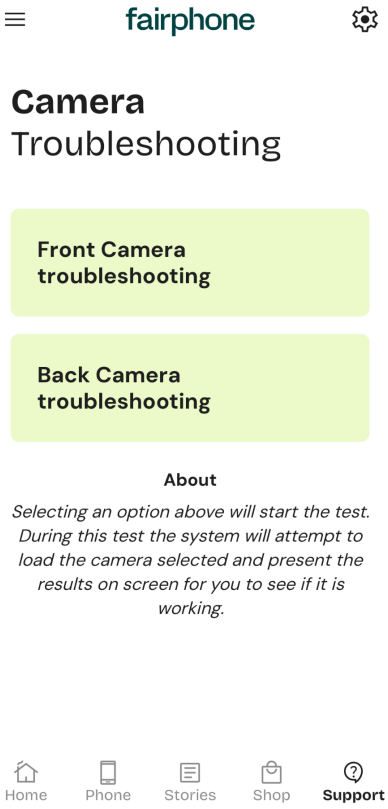
our customer support :
- Open MyFairphone App
- Click on "Support" (5th item in Bottom Navigation Bar)
- Click on “Other”
- Click on "Internal Testing Tool"

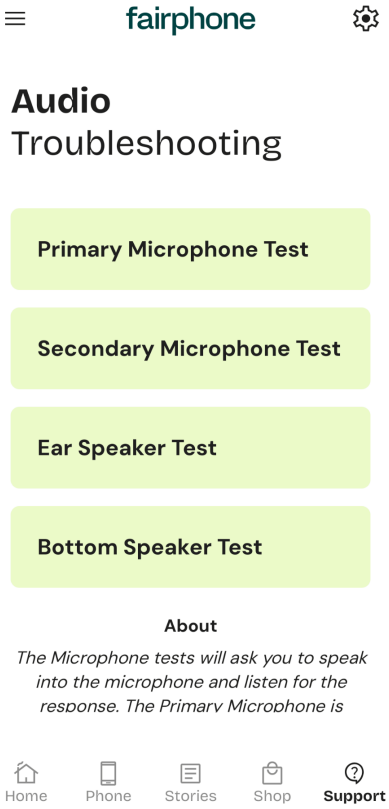
To exit the test mode, scroll down and press exit.

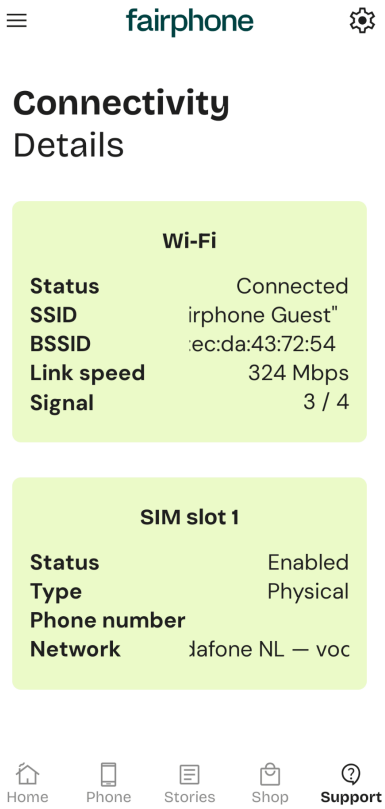


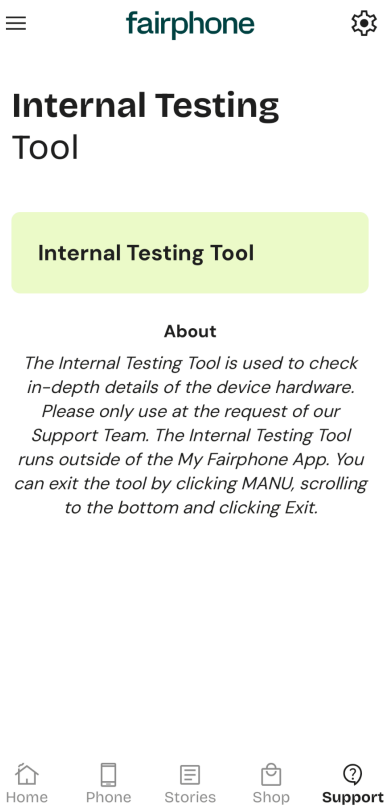
Internal Testing Tool in the MyFairphone-App

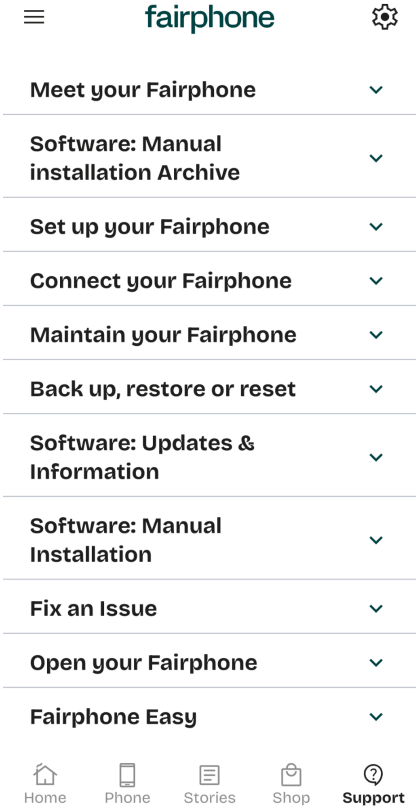












Diagnostic tests you can perform:

a. Traceability test
b. Fingerprint sensor (raw data)
c. Touch panel (raw data)
d. Sensor (raw data)
e. SD Memory card
f. SIM

g. Battery
h. eSIM
i. Earpiece (top speaker)
j. Speaker (bottom speaker)
k. Bluetooth
l. Wi-Fi 2.4G
m. Wi-Fi 5G
n. Hall effect sensor
o. GPS
p. Fingerprint enroll (image capture)
q. Touch panel
r. Screen
s. Screen Backlight LEDs
t. Keyboard
u. E-compass
v. G-Sensor
w. Gyroscope
x. Front Camera
y. Super Macro (Camera)
z. Main Camera
aa. Ultra Wide Camera
bb. Camera LED
cc. Audio
dd. Vibration sensor
ee. NFC
ff. Proximity sensor
gg. Light sensor
hh. USB / Charger
ii. USB Type-C

8. Instructions for Software Updates

Fairphone OS releases for Fairphone (Gen. 6), based on Android 15, and we provide regular software updates.
Important: Back up and charge your Fairphone to at least 80% before updating to the latest software version.
If your Fairphone is connected to the internet, you'll get a notification when an update is available for you. Open it and follow the steps to update to the latest software version.
If you don't get a notification:

- Go to Settings → System → System update.
- Tap Check for update to check if an update is available.
- If an update appears, tap the Update button.

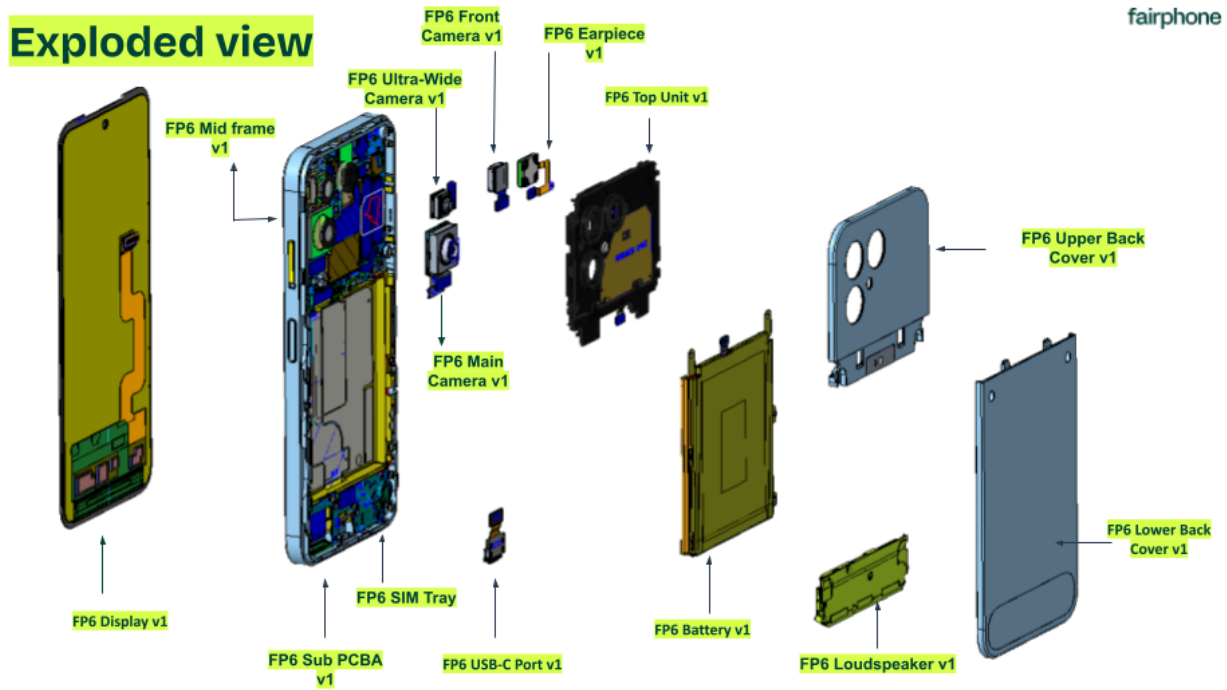
Instructions on how to download and install these updates directly on your phone are here.
Instructions on how to download and install these updates using your computer can be found here.
Here you will also find the updated list of new features, bug fixes, and security patches for each release. The date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

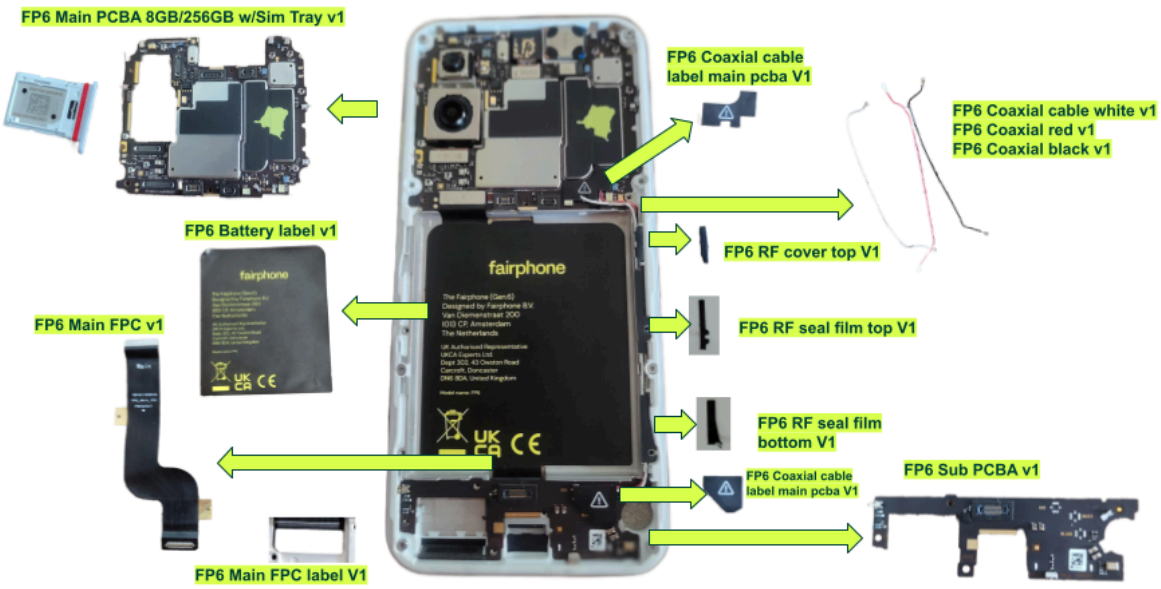
9. Privacy of Data Records of Reported Failure Incidents

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.

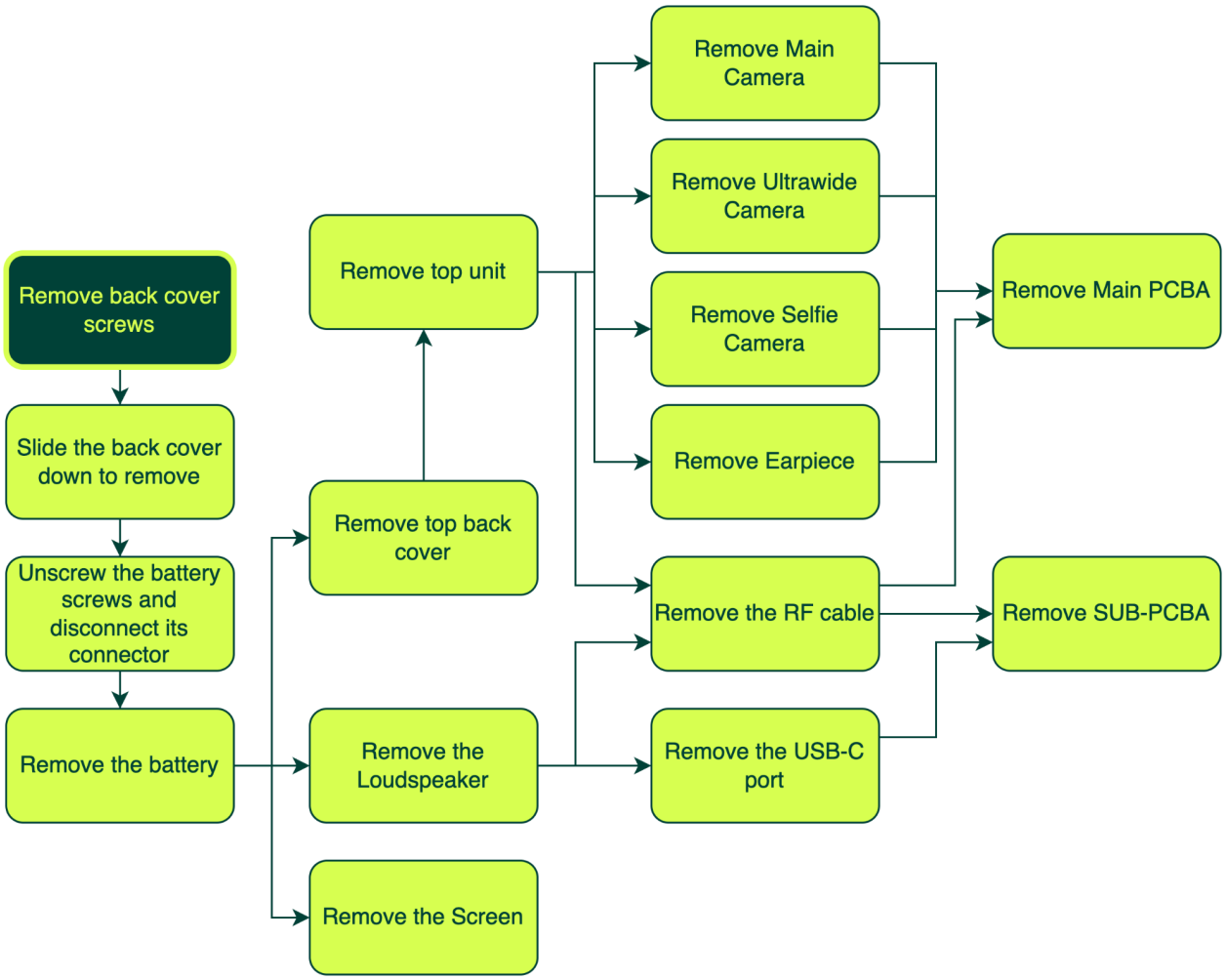
10. Guidance for Self-repair and Technical Manual

I. Spare parts overview & disassembly





II. Disassembly flow



III. Cautions before disassembly

1. Power off the device: Before disassembly, please power off the device and take out the battery.
2. Press the power button more than 5 seconds after the battery is removed, to release the electricity residual in capacitors.
3. ESD Protection: Electronic-sensitive components inside (especially in winter); suggest releasing the static electricity on the body (e.g., finger touch metal objects).
4. Pay attention to the two different types of screws:
    - Black T5 Torx (for display repairs)
    - Silver T5 Torx (M1.4) (for other repairs)
5. Prepare your tools:
    - T5 Torx screwdriver.
6. If you are a professional repairer, consider the torque force needed for screw/unscrew operation:
    - Torque force for T5 Torx screws: 0.47±0.04 N.m

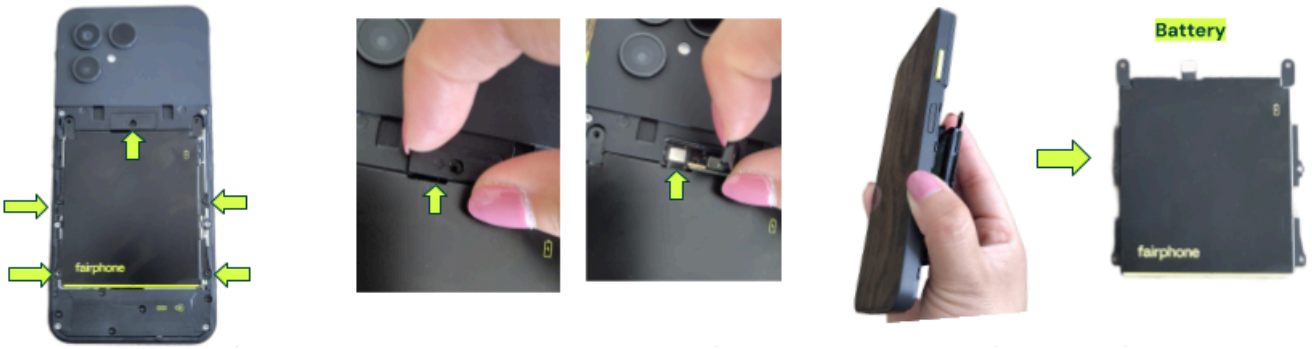
- Tips:
    - Always remove the SIM tray first, in case you forget to do so during the process, to avoid damaging other components during the repair
    - Always use a plastic prying tool to avoid damaging various connectors.

IV. Replacing back cover & battery

Step 1: Unscrew the Torx screws on top of the back cover with a T5 screwdriver and slide it down to open.



Step 2: Remove the 5 black Torx screws using the same T5 screwdriver. Open the connector cover and disconnect the connector using plastic tweezers.



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

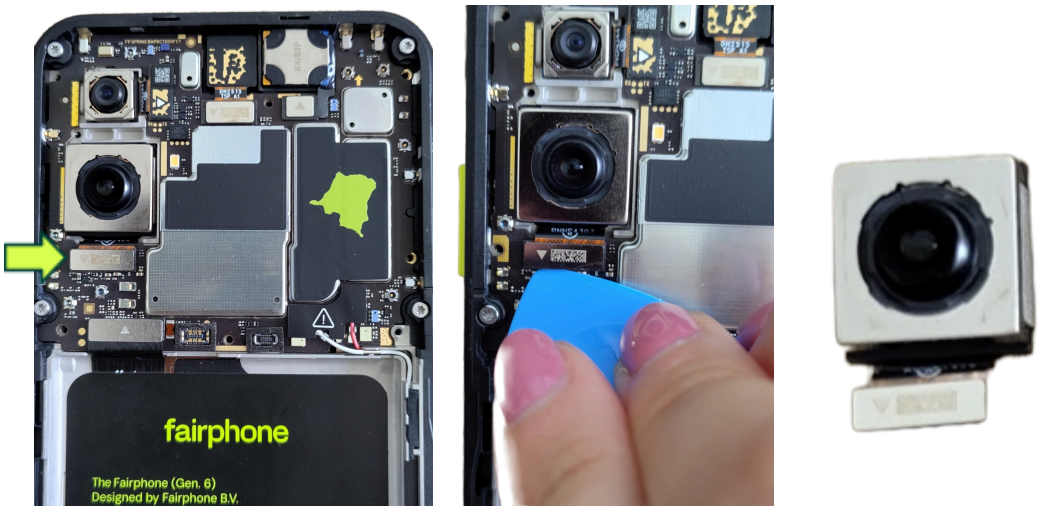
Step 1: Remove top cover by hand or with the help of a pick tool. First the left side, then the right side, and finally remove the upper part. You will hear the sound of the unit's hooks disengaging. Then lift up the cover until removal.



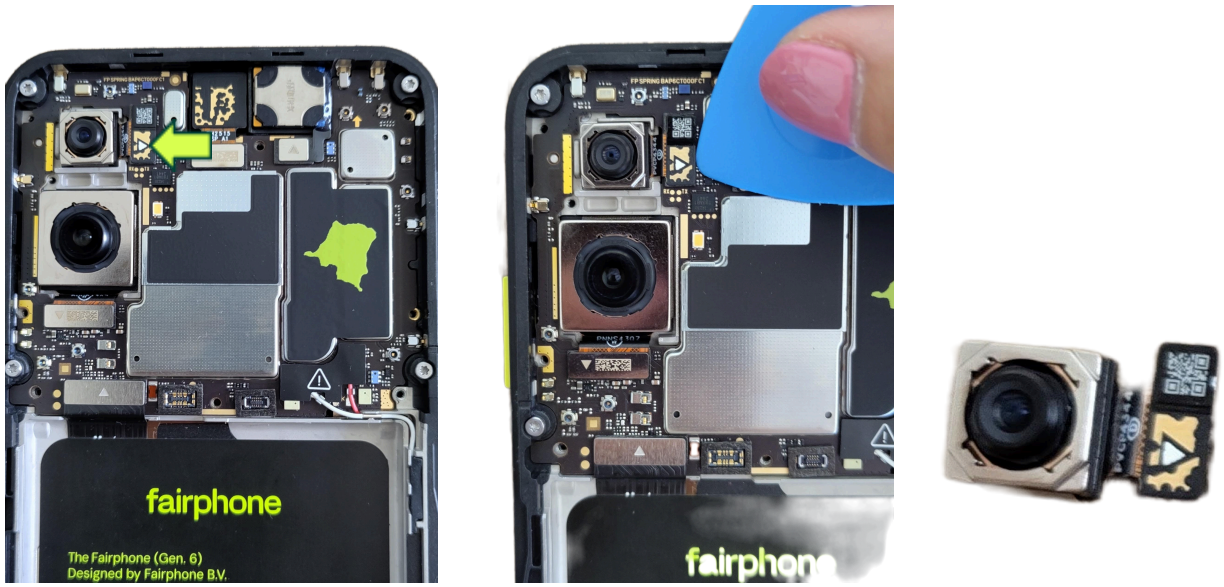
Step 2: Remove the 6 torx black screws with a T5 screwdriver. Then, remove the top BTB (board to board) connector. Finally, remove the top unit.



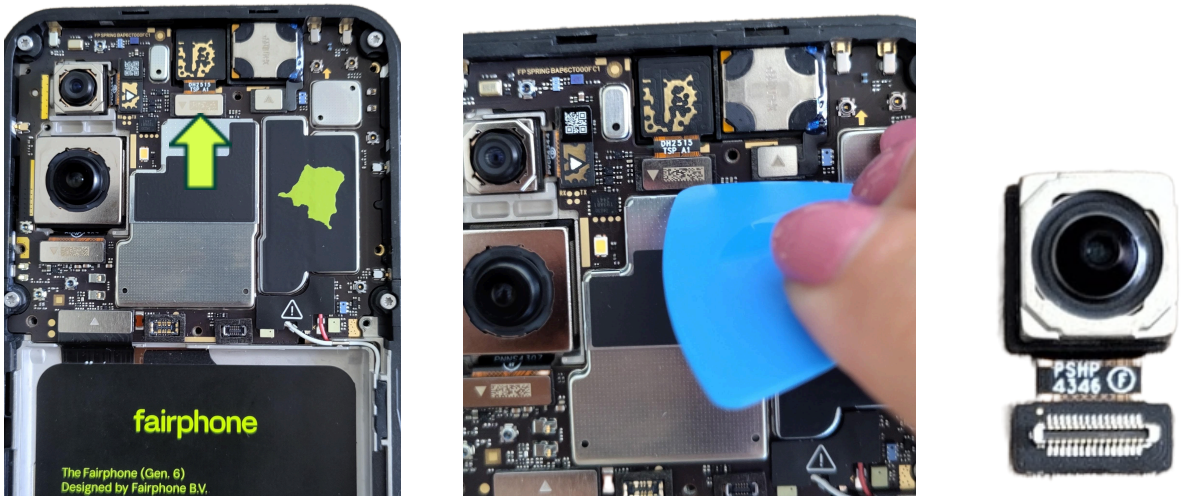
Step 3 (Main Camera): Disconnect the main camera BTB connector and remove the main camera.



Step 4 (Ultrawide Camera): Disconnect the ultrawide camera BTB connector and remove the ultrawide camera.

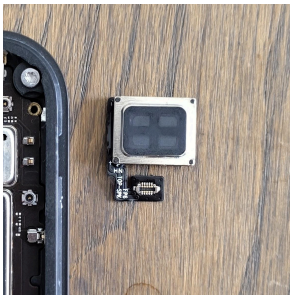


Step 5 (Selfie Camera): Disconnect the front camera BTB connector and remove the front camera.



Step 6 (Earpiece): Disconnect the earpiece BTB connector and remove the earpiece.





VI. Replacing the display

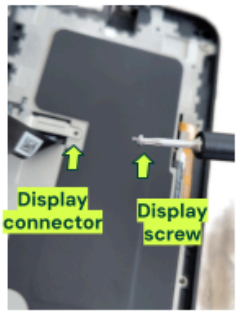
Step 1: Remove the battery and top back cover as mentioned before.
Step 2: Remove the 8 Torx silver screws with a T5 screwdriver, then flip the device over, the display should come out with not much force applied.

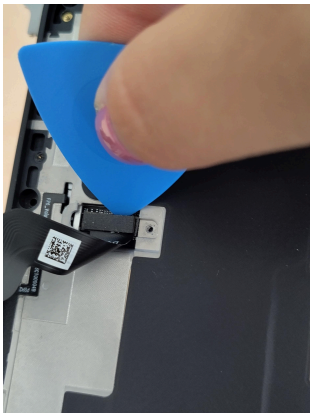




Step 3: Remove the small Torx silver screw on top of the display connector with a T5 screwdriver. Then, remove the display steel connector. Ultimately, remove the display by disconnecting the display BTB connector.







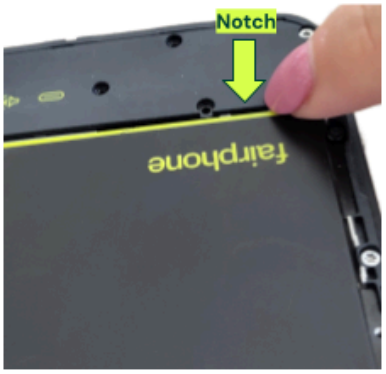


VII. Replacing the loudspeaker, vibration motor, or USB-C port

Step 1: Disconnect the battery by opening the connector cover and disconnecting its connector using plastic tweezers.

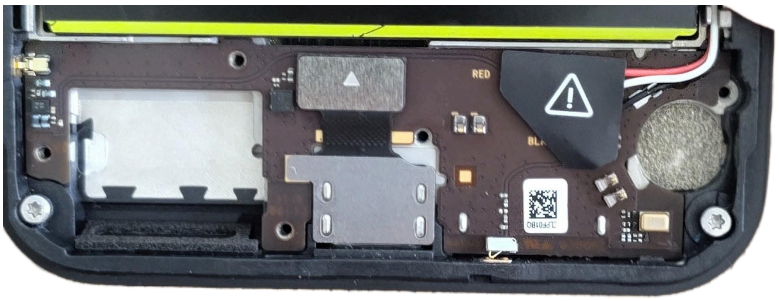
Step 2 (Loudspeaker): Remove the 5 black Torx screws with a T5 screwdriver. With a pick tool, remove the loudspeaker housing from the bottom of the frame, using the bottom left notch, to access the loudspeaker module.







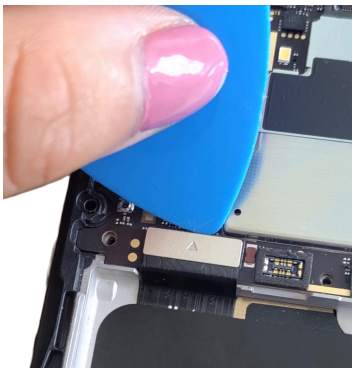
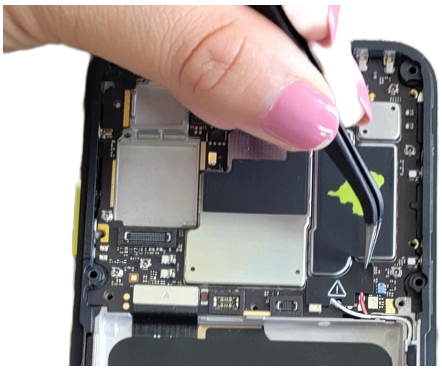
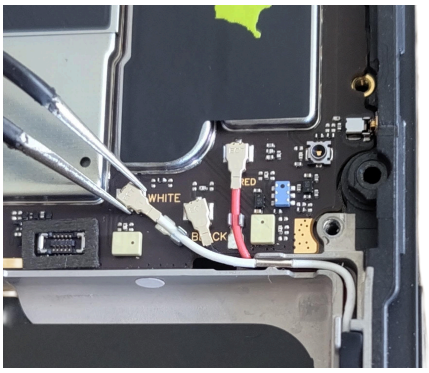
Step 3 (USB Port): Access the USB-C port by removing the BTB (board-to-board) connector.





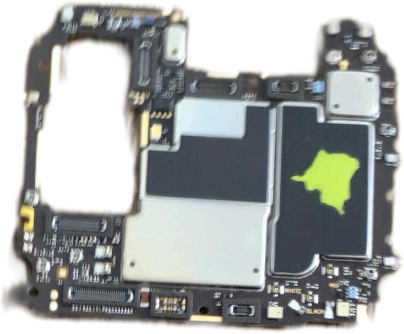
VIII. Replacing the PCBAs and mid-frame

Step 1: Disconnect the top side of the main FPC BTB connector, connected to the Main PCBA. Remove the coaxial cable label and disconnect the FPC cable from the main PCBA (start with white, then black, and finally red).

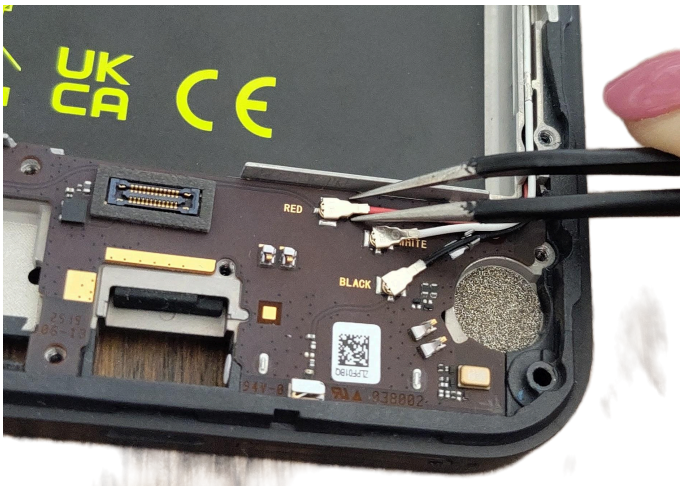
Step 2 (Main PCBA): Remove SIM tray and remove the PCBA by hand.



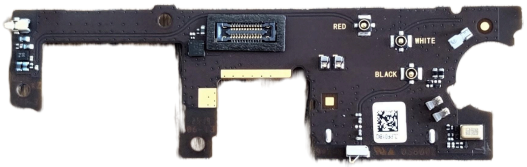


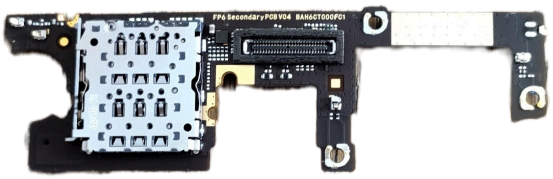

Step 3 (SUB-PCBA): Remove the sub-pcba coaxial cable label and disconnect the FPC cable from SUB-PCBA (start with white, then black, and finally red).





Step 4: Remove the SUB-PCBA by hand.

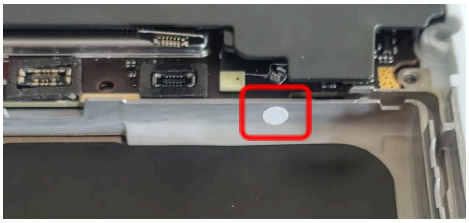


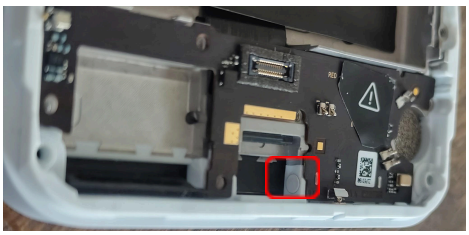


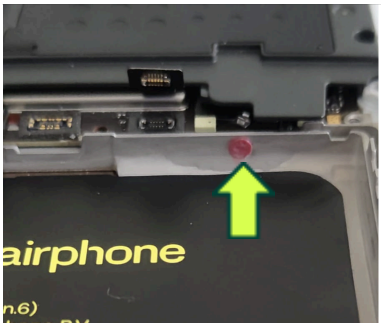
IX. Check for water ingress

The position of water markers has been marked in the image below. Watermarks will show a Red color when water damage is present. (as seen in the last image)

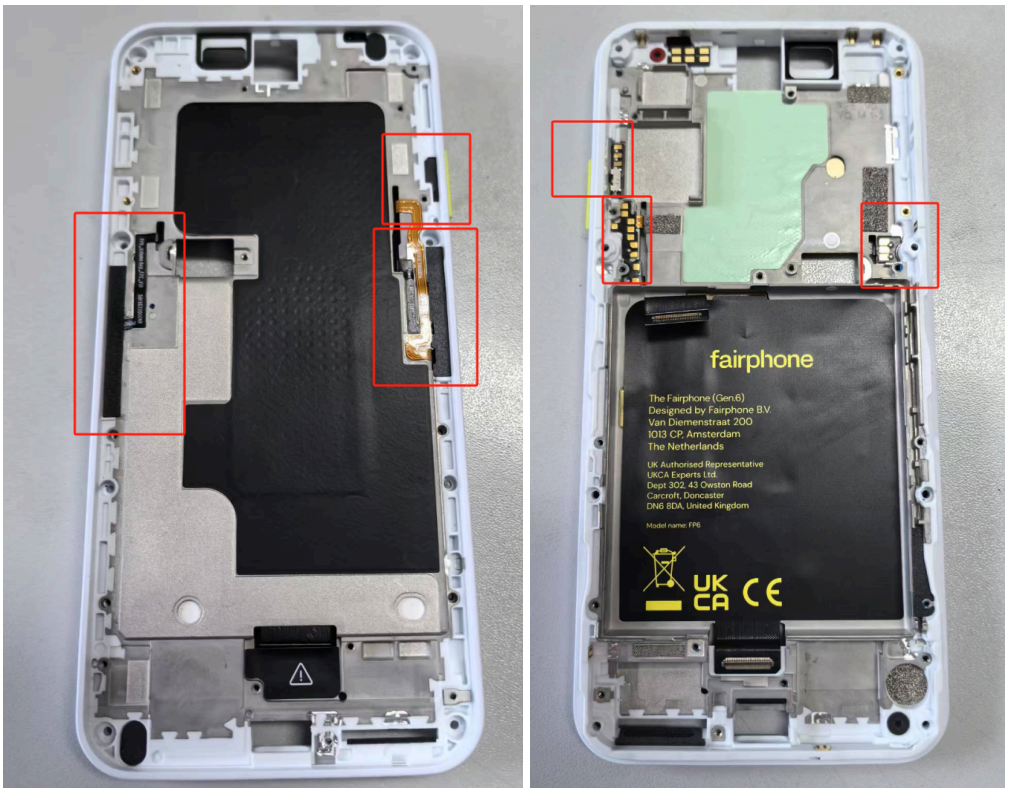






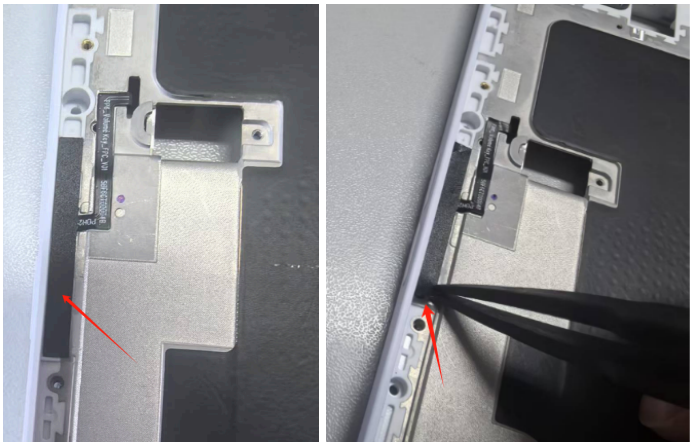


X. Removing the volume keys

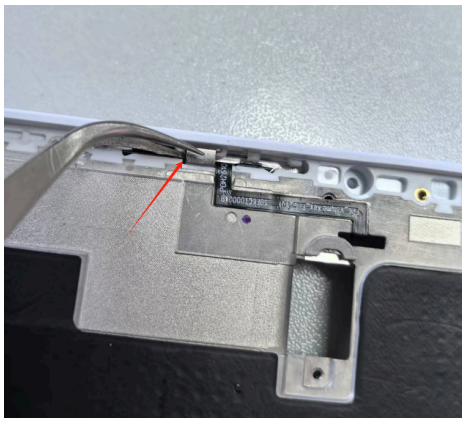


Removing volume keys

Step 1: Remove vol key seal film



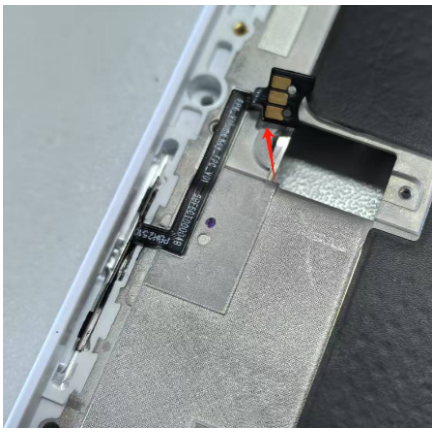
Step 2: Use tweezers to pry the volume keys steel and the steel sheets from the position as shown below. Finally, remove the two volume keys.



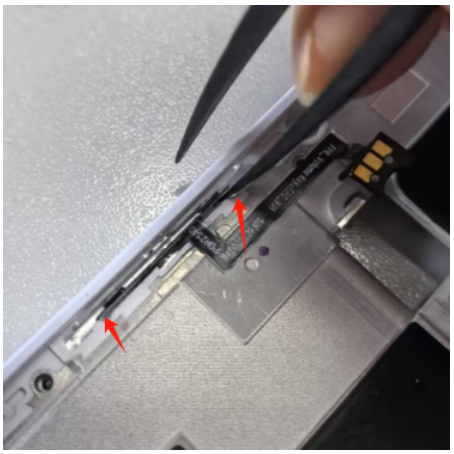
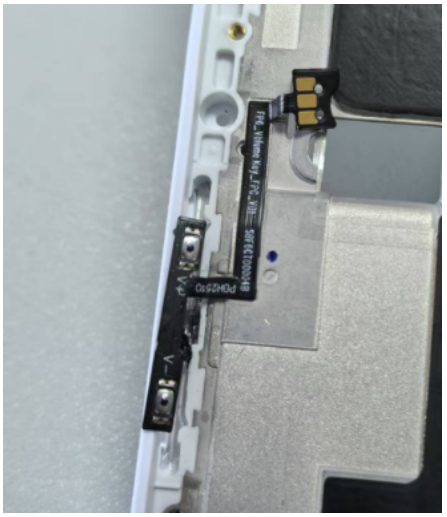
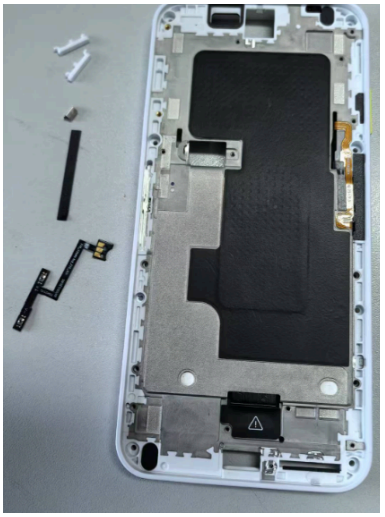

Remove volume key FPC and its housing

Step 1: Use a plastic prying tool to gently pry up the pad from the corner. Then, bend the vol key FPC pads from the back side to the front side.





Step 2: Use plastic tweezers to gently tear the FPC from the positions of the two small holes framed in the image below.

** **Disclaimer:** other instructions will be added to this section gradually. Check back for more information! **

11. Material Information for Recyclers

Below, you can find materials and information about the Fairphone (Gen. 6). 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 FP Gen.6 (gram)	Components You can mainly find these materials in	% of total mass in these components
Aluminium	7429-90-5	25.634166	Framing, battery	99.81 %
Chromium	7440-47-3	2.449360	Battery, VC, USB port	83.12 %
Copper	7440-50-8	18.480509	Component shields, battery, PCB, OLED & touch panel	78.94 %
Cobalt	7440-48-4	15.1275 *	Battery	99.96 %
Glass/Glass Fiber	65997-17-3	17.770407	OLED, touch panel, Screen framing, antenna cover	97.42 %
Gold	7440-57-5	0.020898	Fingerprint, memory, camera, touch panel, SAW	69.07 %
Graphite	7782-42-5	15.153370	Battery	92.17 %
Indium	7440-74-6	0.000684 *	OLED	99.1 %
Iron	7439-89-6	13.591125	Battery, screw, VC, camera, USB	87.77 %
Lithium	7439-93-2	1.7845 *	Battery	99.97 %
Magnesium	7439-95-4	2.189063	Device & Screen framing	100 %
Manganese	7439-96-5	0.323427 *	Framing, battery, VC, shielding, screws, speaker, camera	91.24 %
Mica	12001-26-2	0.002032	BTB connector	100 %
Nickel	7440-02-0	3.488433	Component Shields & Covering, battery, VC, speaker	79.4 %
Palladium	7440-05-3	0.000378	PA Switch Filter, Thermistor, Camera, Resistors	60.63 %
Platinum	7440-06-4	0.0000000137	ICs, Sensors	100 %
Plastics: - PC - TPU	25037-45-0 9009-54-5	31.0489 *	Display & Mid frames, Antenna Covers, Upper & Lower Back Covers	91 %
Silicon	7440-21-3	3.150210	Framing, power	92.96 %
Silver	7440-22-4	0.083716	Deplexer, battery, coupler, passive	70.72 %
Tantalum	7440-25-7	0.015087 *	SAW filter	99.92 %
Tin	7440-31-5	0.983491	Power, speaker, battery, memory, framing	87.87 %
Titanium	7440-32-6	0.4121 *	Device & Screen Framing, Capacitors, Battery	93.88 %
Tungsten	7440-33-7	0.743103	Linear vibrator	99.72 %

Zinc	7440-66-6	1.963638	Component Shields & Casings	71.17 %
Rare Earth Elements				
Dysprosium	7429-91-6	0.005306	Camera, Speaker, Linear vibrator	100 %
Neodymium	7440-00-8	0.095480	Camera, Speaker, Linear vibrator	100 %
Praseodymium	7440-10-0	0.036010	Camera, Speaker, Linear vibrator	100 %

** In the "Weight" column, an asterisk indicates that the value represents the pure weight of the material, with the weight of other constituent substances in the compound having been removed during calculations.*

12. Schematics and Board Diagrams

Component	PCBA	Position	Layer
Battery connector	Main board	J1900	Bottom
Display connector	Main board	P2701	Top
Top Microphone	Main board	M2603	Bottom
Bottom Microphone	Sub-board	M101	Bottom
Main Camera	Main board	P2801	Bottom
Ultrawide Camera	Main board	P2802	Bottom
Selfie Camera	Main board	P2803	Bottom
USB-C FPC connector	Sub-board	J102	Bottom
Loudspeaker	Sub-board	J106/J107	Bottom
Earpiece	Sub-board	J2601	Bottom

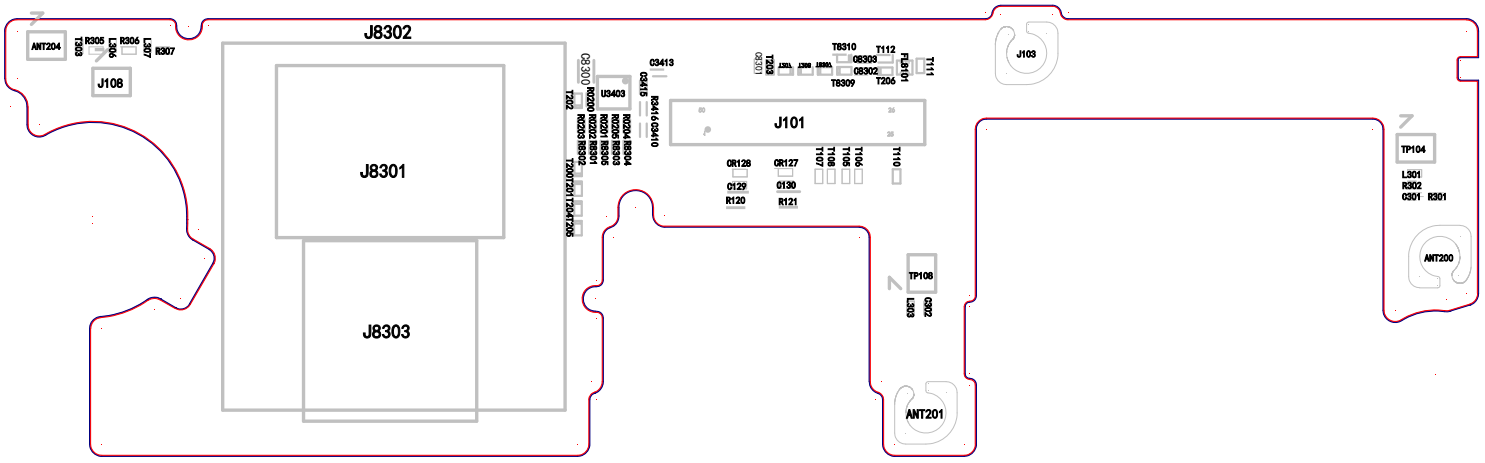
Main PCBA - Top side



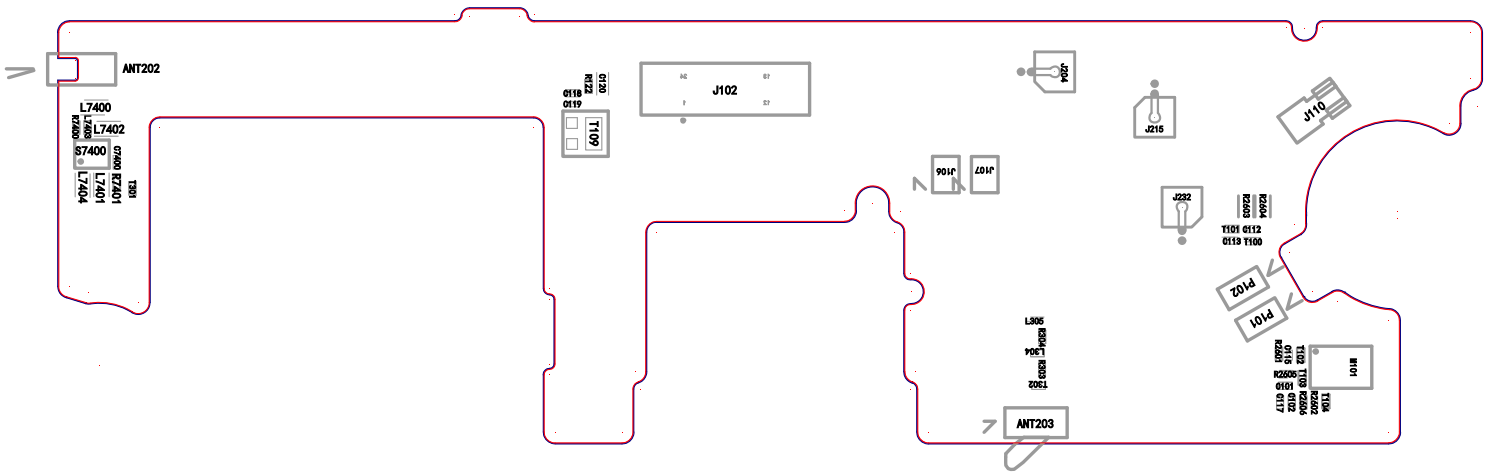
Main PCBA - Bottom Side

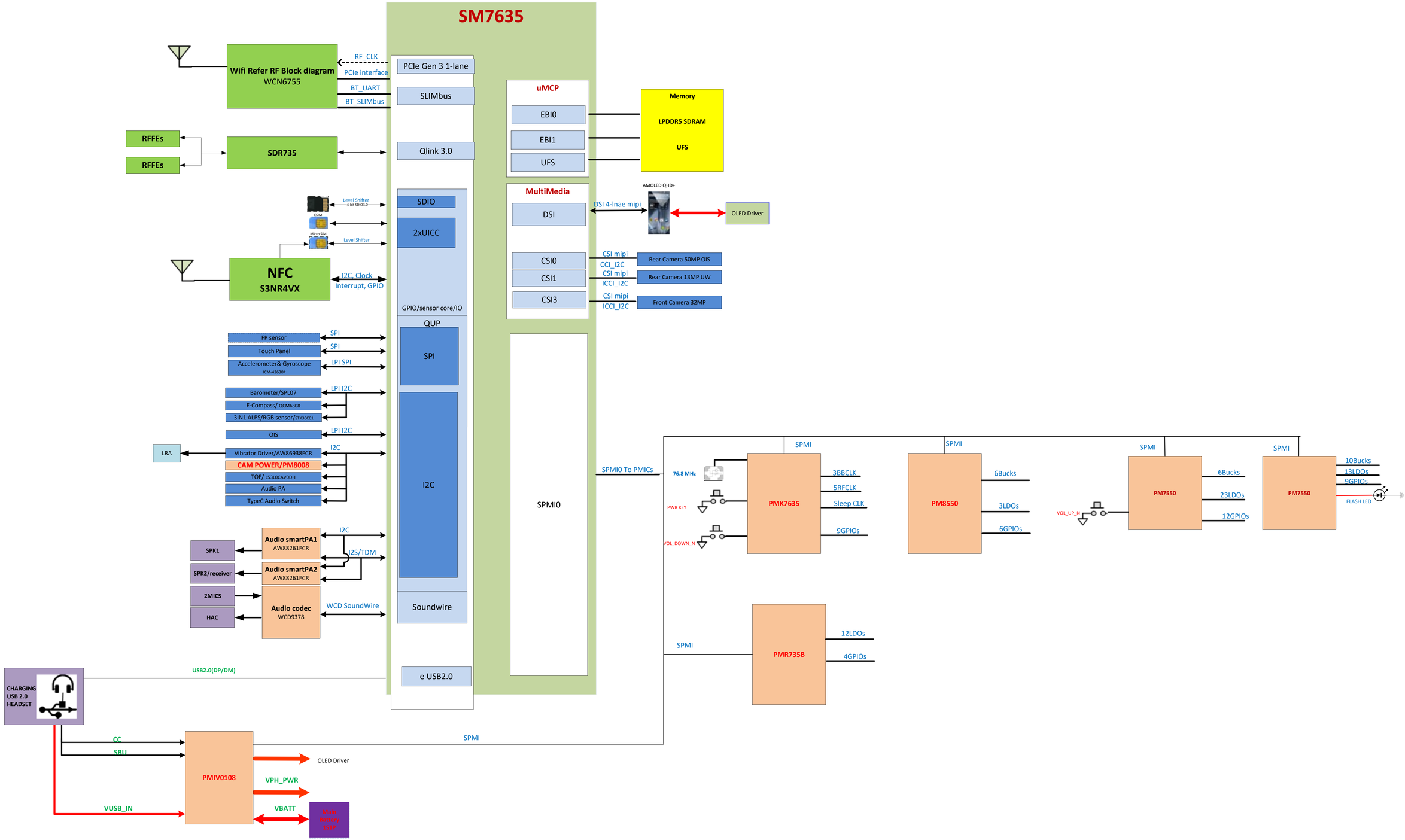


Sub PCBA - Top Side



Sub PCBA - Bottom Side




SM7635
Wifi Refer RF Block diagram
WCN6755
RF_CLK
PCIe interface
BT_UART
BT_SLIMbus
PCIe Gen 3 1-lane
SLIMbus
RFFEs
RFFEs
SDR735
Qlink 3.0
uMCP
EBI0
EBI1
UFS
Memory
LPDDR5 SDRAM
UFS
SDIO
2xUICC
Level Shifter
1-bit SDR03.0
eSIM
Micro SIM
Level Shifter
MultiMedia
DSI
AMOLED QHD+
DSI 4-lnae mipi
OLED Driver
CSI0
CSI1
CSI3
CSI mipi
CCI_I2C
Rear Camera 50MP OIS
CSI mipi
ICCI_I2C
Rear Camera 13MP UW
CSI mipi
ICCI_I2C
Front Camera 32MP
NFC
S3NR4VX
I2C, Clock
Interrupt, GPIO
GPIO/sensor core/IO
QUP
SPI
FP sensor
SPI
Touch Panel
SPI
Accelerometer& Gyroscope
ICM-42630*
LPI SPI
Barometer/SPL07
LPI I2C
E-Compass/ QCME308
3IN1 ALPS/RGB sensor/STK3GC61
OIS
LPI I2C
LRA
Vibrator Driver/AW86938FCR
I2C
CAM POWER/PM8008
TOF/ LS3L0CAV0DH
Audio PA
TypeC Audio Switch
I2C
SPK1
Audio smartPA1
AW88261FCR
SPK2/receiver
Audio smartPA2
AW88261FCR
I2S/TDM
2MICS
HAC
Audio codec
WCD9378
WCD SoundWire
I2C
Soundwire
SPMI0
e USB2.0
USB2.0(DP/DM)
CHARGING
USB 2.0
HEADSET
CC
SBU
VUSB_IN
PMIV0108
OLED Driver
VPH_PWR
VBATT
SPMI
SPMI0 To PMICs
SPMI
76.8 MHz
PWR KEY
VOL_DOWN_N
PMK7635
3BBCLK
5RFCLK
Sleep CLK
9GPIOs
SPMI
PM8550
6Bucks
3LDOs
6GPIOs
SPMI
VOL_UP_N
PM7550
6Bucks
23LDOs
12GPIOs
SPMI
PM7550
10Bucks
13LDOs
9GPIOs
FLASH LED
SPMI
PMR735B
12LDOs
4GPIOs

FP6
2G: Quad bands 850/900/1800/1900
3G: UMTS B1/2/5/8
FDD-LTE: B1/2/3/4/5/7/8/12/17/20/25/26/28/32/66/71
TDD-LTE: 38/40/41(HPUE)/42
NR5G:n1/2/3/5/7/8/20/28/38/40/41(HPUE)/66/71/77/78(HPUE)
LTE 4x4 MIMO: B1/2/3/4/7/38/40/41/42/66
NR 4x4 MIMO: n1/2/3/7/38/40/41/66/77/78

UHB
N77: 3300 MHz – 4200 MHz
N78: 3300 MHz – 3800 MHz
N79: 4400 MHz – 5000 MHz
B42: 3400 MHz – 3600 MHz
B43: 3600 MHz – 3800 MHz
B48: 3550 MHz – 3700 MHz
WIFI: 2.4G 2402 MHz - 2494 MHz
WIFI: 5G 5150 MHz – 5950 MHz
WIFI 6E: 5925MHz-7125MHz
L1:1575.42±1.023MHz
L2:1227.60±1.023MHz
L5:1176.45±1.023MHz

A5:
MB(TRX0)
HB DRX MIMO(SRS)
MB DRX
DPX252690DT-5082A1

A0
LB TRX0
HB PRX MIMO(SRS)
RFTIP2506T10A8Q 1C(LB/MH/UHB)
QCM_RFFE0
QAT5618
USID:L
LB TRX0
HB PRX MIMO

A6
HB TRX0
HB DRX(SRS)
B32 DRX
DPX252690DT-5082A1

A1:
LB DRX
B20 TX1
MB DRX MIMO
QCM_RFFE0
RFTIP2506T10A8Q 1C(LB/MH/UHB)
USID:H
QAT5618

A4
HB TRX1
UHB TRX1
RFDIP2506L11AT(LMH/UHB)

A2:
UHB PRX MIMO(SRS)
MB TRX1
RFDIP2506L11AT(LMH/UHB)

A3
TO A3
MB PRX MIMO

ANT8
UHB DRX (SRS)
GNSS L5
RFDIP2506L11AT (LMH/UHB)

ANT3
UHB DRX MIMO(SRS)
MB PRX MIMO
RFDIP2506L11AT (LMH/UHB)

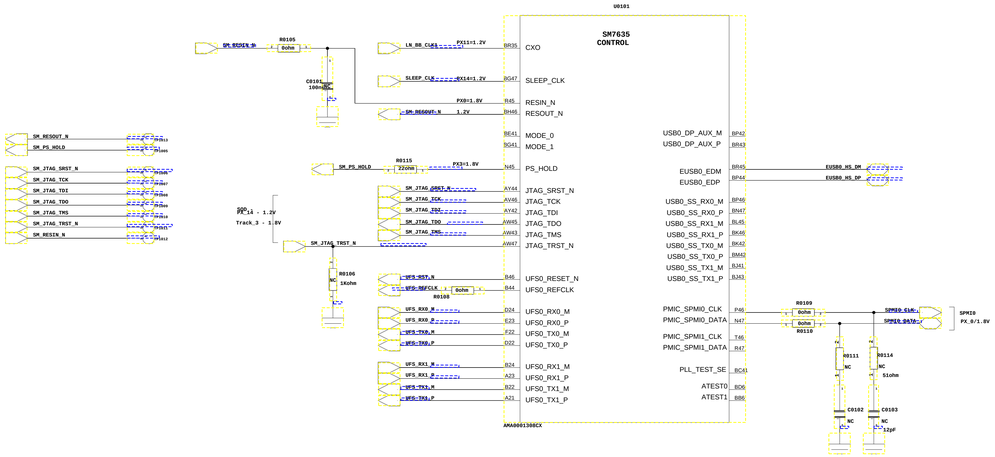
ANT4
N77/78 TRX1
N77/78_PRX MIMO

ANT7
LTE B32 PRX
GNSS L1
WIFI 2.4G CH1

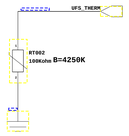
ANT 10
WIFI 5G_CH0
WIFI 2p4G_CH0

ANT 9
WIFI 5G_CH1

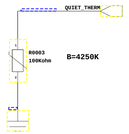
N77/78 1T4R

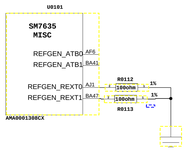


CAD Note: Place Near UMCP

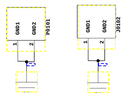


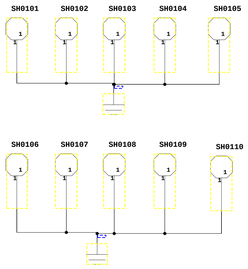
CAD Note: Place away from PMIC and heat-sources

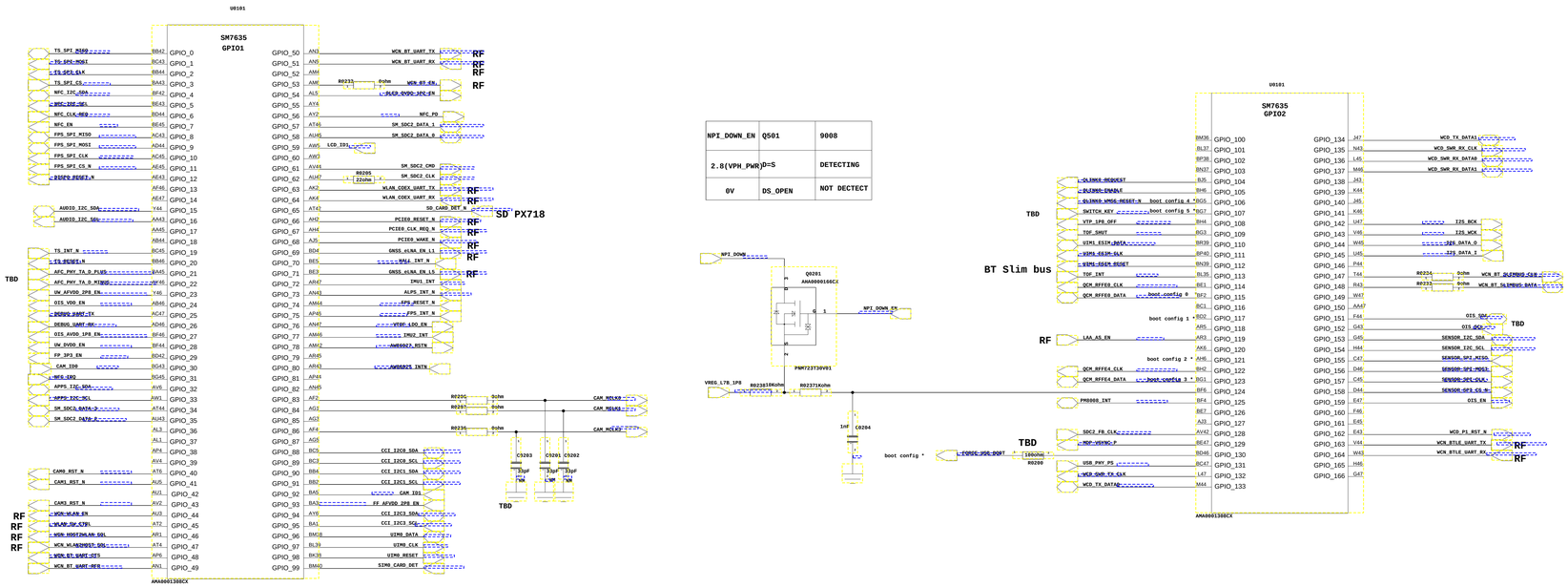




CAD Note: Place the resistors connected to the REXT pins near to SoC
and route away from noisy siganls.
CAD Note: RESIN_N and RES_OUT signals are to be routed as sensitive signals,
away from noise sources/high speed signals..
CAD Note: Route the SPMI signals in Daisy Chain/Start routing from SoC to the PMICs to avoid stubs

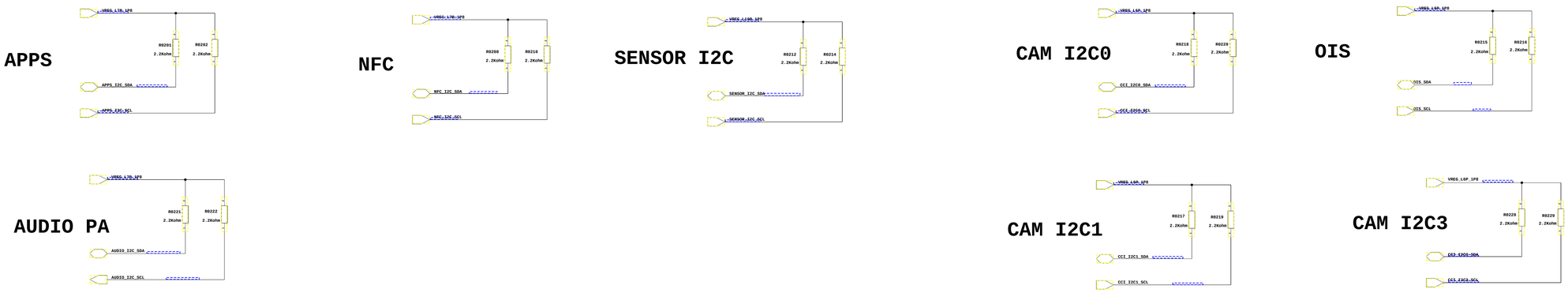






NPI_DOWN_EN	Q501	9008
2.8(VPH_PWR)	D=S	DETECTING
0V	DS_OPEN	NOT DECTECT

I2C PULL- UP RESISTORS



CPHY 45 ohm +/- 10%

REAR

90 ohm +/- 10%

UW

FRONT

90 ohm +/- 10%

LCD

90 ohm +/- 10%

U0101

SM7635
MIPI1

CSI0_A0_CLK_M	H2	CSI0_NC_CLK_P	CSI3_NC_CLK_P	AD4	MIPI_CSI3_CLK_P
CSI0_B0_L0_P	H1	CSI0_A0_CLK_M	CSI3_A0_CLK_M	AD5	MIPI_CSI2_CLK_M
CSI0_C0_L0_M	J2	CSI0_B0_LN0_P	CSI3_B0_LN0_P	AC3	MIPI_CSI2_L0_P
CSI0_A1_L1_P	K1	CSI0_C0_LN0_M	CSI3_C0_LN0_M	AC5	MIPI_CSI2_L0_M
CSI0_B1_L1_M	K2	CSI0_A1_LN1_P	CSI3_A1_LN1_P	AB4	MIPI_CSI3_L1_P
CSI0_C1_L2_P	L1	CSI0_B1_LN1_M	CSI3_B1_LN1_M	AB5	MIPI_CSI3_L1_M
CSI0_A2_L2_M	L2	CSI0_C1_LN2_P	CSI3_C1_LN2_P	AB2	MIPI_CSI2_L2_P
CSI0_B2_L3_P	M1	CSI0_A2_LN2_M	CSI3_A2_LN2_M	AC1	MIPI_CSI2_L2_M
CSI0_C2_L3_M	M2	CSI0_B2_LN3_P	CSI3_B2_LN3_P	AD2	MIPI_CSI3_L3_P
		CSI0_C2_LN3_M	CSI3_C2_LN3_M	AE1	MIPI_CSI3_L3_M

MIPI_CSI1_CLK_P	T4	CSI1_NC_CLK_P	DSI0_A0_LN0_P	AF42	MIPI_DSI0_L0_P
MIPI_CSI1_CLK_M	T5	CSI1_A0_CLK_M	DSI0_B0_LN0_M	AG43	MIPI_DSI0_L0_M
MIPI_CSI1_L0_P	R3	CSI1_B0_LN0_P	DSI0_C0_LN1_P	AH42	MIPI_DSI0_L1_P
MIPI_CSI1_L0_M	R5	CSI1_C0_LN0_M	DSI0_A1_LN1_M	AH44	MIPI_DSI0_L1_M
MIPI_CSI1_L1_P	P4	CSI1_A1_LN1_P	DSI0_B1_CLK0_P	AH46	MIPI_DSI0_CLK_P
MIPI_CSI1_L1_M	P6	CSI1_B1_LN1_M	DSI0_C1_CLK0_M	AJ47	MIPI_DSI0_CLK_M
MIPI_CSI1_L2_P	P2	CSI1_C1_LN2_P	DSI0_A2_LN2_P	AK46	MIPI_DSI0_L2_P
MIPI_CSI1_L2_M	R1	CSI1_A2_LN2_M	DSI0_B2_LN2_M	AL47	MIPI_DSI0_L2_M
MIPI_CSI1_L3_P	T2	CSI1_B2_LN3_P	DSI0_C2_LN3_P	AL43	MIPI_DSI0_L3_P
MIPI_CSI1_L3_M	U1	CSI1_C2_LN3_M	DSI0_A3_LN3_M	AK44	MIPI_DSI0_L3_M

	W1	CSI2_NC_CLK_P	DSI0_B3_SL_CLK_P	AJ43	
	V2	CSI2_A0_CLK_M	DSI0_C3_SL_CLK_M	AK42	
	V4	CSI2_B0_LN0_P			
	V6	CSI2_C0_LN0_M			
	W3	CSI2_A1_LN1_P			
	W5	CSI2_B1_LN1_M			
	Y4	CSI2_C1_LN2_P			
	Y6	CSI2_A2_LN2_M			
	Y2	CSI2_B2_LN3_P			
	AA1	CSI2_C2_LN3_M			

AMA0001308CX

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RF

SM7635
MIPI2

QLINK0_CLK_P	BR15	QLINK0_CLK_P	QLINK1_CLK_P	BR25	
QLINK0_CLK_M	BP14	QLINK0_CLK_M	QLINK1_CLK_M	BP24	
QLINK0_L0_P	BP18	QLINK0_DL0_P	QLINK1_DL0_P	BR31	
QLINK0_L0_M	BN19	QLINK0_DL0_M	QLINK1_DL0_M	BP30	
QLINK0_L1_P	BL23	QLINK0_DL1_P	QLINK1_DL1_P	BL29	
QLINK0_L1_M	BK22	QLINK0_DL1_M	QLINK1_DL1_M	BK30	
QLINK0_L2_P	BL15	QLINK0_DL2_P	QLINK1_UL0_P	BP28	
QLINK0_L2_M	BM16	QLINK0_DL2_M	QLINK1_UL0_M	BN27	
QLINK0_L3_P	BL19	QLINK0_UL0_P	QLINK1_UL1_P	BM30	
QLINK0_L3_M	BK18	QLINK0_UL0_M	QLINK1_UL1_M	BN33	
QLINK0_L4_P	BR21	QLINK0_UL1_P	QLINK1_UL2_P	BK26	
QLINK0_L4_M	BP22	QLINK0_UL1_M	QLINK1_UL2_M	BL27	

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SM7635
PCIE

PCIE0_REFCLKP	BL1	PCIE0_REFCLK_P	PCIE1_REFCLK_P	BM6	
PCIE0_REFCLKM	BK2	PCIE0_REFCLK_M	PCIE1_REFCLK_M	BL5	
WCN_PCIE_TX0P	BL5	PCIE0_RX0_P	PCIE1_RX0_P	BM12	
WCN_PCIE_TX0M	BM4	PCIE0_RX0_M	PCIE1_RX0_M	BL11	
WCN_PCIE_RX0P	BN1	PCIE0_TX0_P	PCIE1_RX1_P	BJ9	
WCN_PCIE_RX0M	BP2	PCIE0_TX0_M	PCIE1_RX1_M	BK8	
			PCIE1_TX0_P	BP10	
			PCIE1_TX0_M	BP11	
			PCIE1_TX1_P	BK7	
			PCIE1_TX1_M	BP6	

C0102 220nF

C0101 220nF

AMA0001308CX

U0101

SM7635
EBI0

EBI0_WCK_C_0	F16		
EBI0_WCK_T_0	G17		
EBI0_WCK_C_1	G7		
EBI0_WCK_T_1	H6		
EBI0_CK_C	G13		
EBI0_CK_T	F14		
EBI0_CA_NC_CS_1	G11		
EBI0_CA_CS_1_CKE_0	C11		
EBI0_CA_CS_0_CKE_1	F12	EBI0_CAL	B2
EBI0_DMI_1_DMI_0	E5	EBI0_DQ_0_DQ_8	B18
EBI0_DMI_0_DMI_1	B16	EBI0_DQ_1_DQ_9	C19
		EBI0_DQ_2_DQ_10	A19
EBI0_DQS_C_0_DQS_C_1	F18	EBI0_DQ_3_DQ_11	D16
EBI0_DQS_T_0_DQS_T_1	G19	EBI0_DQ_4_DQ_12	D18
		EBI0_DQ_5_DQ_13	A15
EBI0_DQS_C_1_DQS_C_0	F4	EBI0_DQ_6_DQ_14	B14
EBI0_DQS_T_1_DQS_T_0	G5	EBI0_DQ_7_DQ_15	D14
		EBI0_DQ_8_DQ_0	D4
	D12	EBI0_DQ_9_DQ_1	A3
EBI0_CA_CA_0_CA_0	B12	EBI0_DQ_10_DQ_2	B4
EBI0_CA_CA_1_CA_1	A11	EBI0_DQ_11_DQ_3	D6
EBI0_CA_CA_2_CS_0	B10	EBI0_DQ_12_DQ_4	B6
EBI0_CA_CA_3_CA_2	D10	EBI0_DQ_13_DQ_5	B8
EBI0_CA_CA_4_CA_3	F10	EBI0_DQ_14_DQ_6	A7
EBI0_CA_CA_5_CA_4	G9	EBI0_DQ_15_DQ_7	D8
EBI0_CA_CA_6_CA_5			

R0401
240ohm
VREQ_L2C_0P594

AMA000138ECX

U0101

SM7635
EBI1

EBI1_WCK_C_0	G37		
EBI1_WCK_T_0	H38		
EBI1_WCK_C_1	F28		
EBI1_WCK_T_1	G27		
EBI1_CA_NC_CA_2	G35		
EBI1_CK_C	G31		
EBI1_CK_T	F30		
EBI1_CA_CS_0_CKE_0	C33		
EBI1_CA_CS_1_CKE_1	F32		
EBI1_DMI_0_DMI_0	E36	EBI1_DQ_0_DQ_0	D40
EBI1_DMI_1_DMI_1	A29	EBI1_DQ_1_DQ_1	B42
		EBI1_DQ_2_DQ_2	A41
EBI1_DQS_C_0_DQS_C_0	F40	EBI1_DQ_3_DQ_3	D38
EBI1_DQS_T_0_DQS_T_0	G39	EBI1_DQ_4_DQ_4	A39
		EBI1_DQ_5_DQ_5	A37
EBI1_DQS_C_1_DQS_C_1	F26	EBI1_DQ_6_DQ_6	B38
EBI1_DQS_T_1_DQS_T_1	G25	EBI1_DQ_7_DQ_7	D36
		EBI1_DQ_8_DQ_8	A27
EBI1_CA_CA_0_CA_5	G33	EBI1_DQ_9_DQ_9	D26
EBI1_CA_CA_1_CA_4	F34	EBI1_DQ_10_DQ_10	B26
EBI1_CA_CA_2_CA_3	D34	EBI1_DQ_11_DQ_11	D28
EBI1_CA_CA_3_CS_1	A35	EBI1_DQ_12_DQ_12	C27
EBI1_CA_CA_4_CS_0	B34	EBI1_DQ_13_DQ_13	B30
EBI1_CA_CA_5_CA_1	A33	EBI1_DQ_14_DQ_14	A31
EBI1_CA_CA_6_CA_0	D32	EBI1_DQ_15_DQ_15	D30
		EBI1_TEST	C35
		DDR_RESET_N	A45

DDR_RST_N

AMA000138ECX

Kryo Silver

Kryo Gold

Graphics

TO install C8556 and C8554 when VDDA_EBI powered by SID

U0101

SM7635
PWR1

AMA0001308CX

U0101

SM7635
PWR2

AMA0001308CX

VREG_L2B_0P9 — R0601 0Ω — VREG_L2B_0P9_MSM

VREG_L4B_1P2 — R0602 0Ω — VREG_L4B_1P2_MSM

VREG_IX_0P9 — R0603 0Ω — VREG_IX_0P9_MSM

U0101

SM7635
PWR3

VDD2H

VREG_1P2_EVS
VREG_1P2_PX0
VREG_S3C_1P112

SPMI 0/ RESIN_N

DDR

UFS

WCD/WCN

WCD
WCN
WSA

NFC/WCN

AMA0001300CX

C0604 1uF
C0607 2.2uF
C0609 2.2uF
C0613 1uF
C0621 1uF
C0614 1uF
C0615 1uF
C0617 1uF
C0618 1uF
C0612 1uF
C0619 1uF
C0635 1uF
C0638 1uF
C0611 1uF
C0616 1uF
C0620 1uF
C0626 2.2uF
C0625 1uF
C0629 1uF
C0630 1uF
C0631 1uF
C0632 1uF
C0633 1uF
C0624 1uF
C0627 1uF
C0634 1uF

digital circuits

U0101

SM7635

PWR4

VREG_S4B_950_0P728

VSNS_S4B_P

VSNS_S4B_N

E0701

E0703

C0701 10uF

C0702 1uF

C0703 10uF

C0706 10uF

C0707 10uF

C0778 2.2uF

C0774 2.2uF

C0773 2.2uF

C0715 2.2uF

C0716 2.2uF

C0717 2.2uF

C0718 2.2uF

C0764 2.2uF

C0765 2.2uF

C0779 100nF

C0772 2.2uF

C0771 2.2uF

C0770 2.2uF

C0753 2.2uF

C0725 2.2uF

C0726 2.2uF

C0727 1uF

C0762 2.2uF

C0763 2.2uF

C0777 220nF

C0775 220nF

C0766 2.2uF

C0767 2.2uF

C0768 2.2uF

C0769 2.2uF

C0761 2.2uF

C0733 2.2uF

C0735 2.2uF

C0736 2.2uF

AG26 VDD_CX

AC25 VDD_CX

AC27 VDD_CX

AF32 VDD_CX

AF34 VDD_CX

AG31 VDD_CX

AJ15 VDD_CX

AK14 VDD_CX

AK16 VDD_CX

AK18 VDD_CX

AK20 VDD_CX

AK22 VDD_CX

AK24 VDD_CX

AK26 VDD_CX

AL15 VDD_CX

AL17 VDD_CX

AL19 VDD_CX

AL21 VDD_CX

AL23 VDD_CX

AL25 VDD_CX

AL27 VDD_CX

AM26 VDD_CX

AM28 VDD_CX

AM30 VDD_CX

AM32 VDD_CX

AM34 VDD_CX

AN27 VDD_CX

AN29 VDD_CX

AN31 VDD_CX

AN33 VDD_CX

AN35 VDD_CX

AY28 VDD_CX

AY30 VDD_CX

AY28 VDD_CX

F24 VDD_CX

R25 VDD_CX

V22 VDD_CX

V26 VDD_CX

W25 VDD_CX

W27 VDD_CX

AB28 VDD_CX_WPSS

AMA0001308CX

VDD_MX_A AF15

VDD_MX_A AF13

VDD_MX_A AF21

VDD_MX_A AF23

VDD_MX_A AF19

VDD_MX_A AG15

VDD_MX_A AG17

VDD_MX_A AG19

VDD_MX_A AG21

VDD_MX_A AG23

VDD_MX_A AG25

VDD_MX_A AG27

VDD_MX_A AG29

VDD_MX_A AH30

VDD_MX_A AH32

VDD_MX_A AJ29

VDD_MX_A AJ31

VDD_MX_A AJ33

VDD_LPI_CX AA31

VDD_LPI_CX AA33

VDD_LPI_CX AA35

VDD_LPI_CX AB32

VDD_LPI_CX AD34

VDD_LPI_MX AD29

VDD_LPI_MX AD30

VDD_LPI_MX AE31

VDD_LPI_MX AE41

VDD_LPI_MX_NAV AW13

VREG_S5C_0P752

E0702

E0704

VSNS_S5C_P

VSNS_S5C_N

C0711 10uF

C0710 10uF

C0709 10uF

C0757 2.2uF

C0758 2.2uF

C0759 2.2uF

C0714 2.2uF

C0713 2.2uF

C0734 100nF

C0769 2.2uF

C0721 2.2uF

C0722 2.2uF

C0723 2.2uF

C0724 2.2uF

VREG_L3C_0P728

C0739 1uF

C0732 2.2uF

C0776 100nF

VREG_L12F_0P752

C0737 2.2uF

C0738 1uF

C0730 2.2uF

C0755 2.2uF

memory

U0101

SM7635

PWR5

VREG_L4B_0P9

VSNS_S4B_P

VSNS_S4B_N

E0705

E0706

C0743 10uF

C0745 10uF

C0744 10uF

C0728 2.2uF

C0729 2.2uF

C0756 2.2uF

C0754 2.2uF

C0752 2.2uF

C0746 2.2uF

C0749 2.2uF

C0751 2.2uF

C0750 2.2uF

AP14 VDD_MODEM

AP16 VDD_MODEM

AP18 VDD_MODEM

AP20 VDD_MODEM

AP22 VDD_MODEM

AP24 VDD_MODEM

AP26 VDD_MODEM

AR15 VDD_MODEM

AR17 VDD_MODEM

AR19 VDD_MODEM

AR21 VDD_MODEM

AR23 VDD_MODEM

AR25 VDD_MODEM

AR27 VDD_MODEM

AV16 VDD_MODEM

AV18 VDD_MODEM

AV20 VDD_MODEM

AV22 VDD_MODEM

AV24 VDD_MODEM

AV26 VDD_MODEM

AY26 VDD_MODEM

BB26 VDD_MODEM

BD26 VDD_MODEM

BF26 VDD_MODEM

BG27 VDD_MODEM

VDD_A_QLINK_0_0P9 BB13

VDD_A_QLINK_0_0P9 BB20

VDD_A_QLINK_1_0P9 BB22

VDD_A_QLINK_1_0P9 BB28

VDD_A_QLINK_0_CK_0P9 BD20

VDD_A_QLINK_1_CK_0P9 BD22

C0741 100nF

C0742 1uF

R0781 0ohm

R0782 0ohm

Qlink1 not used

VREG_L12B_0P9

AMA0001308CX

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SM7635
VSS1

A1	VSSX_0	AG25
A5	VSSX_0	AG29
A9	VSSX_0	AG41
A13	VSSX_0	AG45
A17	VSSX_0	AG47
A25	VSSX_0	AH10
A43	VSSX_0	AH14
A47	VSSX_0	AH16
AA3	VSSX_0	AH18
AA5	VSSX_0	AH22
AA7	VSSX_0	AH24
AA9	VSSX_0	AH26
AA13	VSSX_0	AH36
AA25	VSSX_0	AJ7
AA27	VSSX_0	AJ13
AA39	VSSX_0	AJ19
AB8	VSSX_0	AJ23
AB42	VSSX_0	AJ27
AC7	VSSX_0	AJ35
AC9	VSSX_0	AJ41
AC11	VSSX_0	AJ45
AC13	VSSX_0	AK28
AC29	VSSX_0	AK30
AD8	VSSX_0	AK32
AD10	VSSX_0	AL7
AD12	VSSX_0	AL11
AD14	VSSX_0	AL13
AD32	VSSX_0	AL29
AE3	VSSX_0	AL31
AE5	VSSX_0	AL33
AE7	VSSX_0	AL35
AE9	VSSX_0	AL37
AE13	VSSX_0	AL41
AE15	VSSX_0	AL45
AE17	VSSX_0	AM2
AE19	VSSX_0	AM14
AE21	VSSX_0	AM16
AE23	VSSX_0	AM18
AE25	VSSX_0	AM20
AE27	VSSX_0	AM22
AE29	VSSX_0	AM24
AE33	VSSX_0	AN7
AE35	VSSX_0	AN15
AF8	VSSX_0	AN17
AF28	VSSX_0	AN19
AF30	VSSX_0	AN21
AF36	VSSX_0	AN23
AF44	VSSX_0	AN25
AG7	VSSX_0	AN41
AG33	VSSX_0	AP2

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SM7635
VSS2

AP28	VSSX_0	BA31
AP36	VSSX_0	BA33
AP42	VSSX_0	BA39
AR7	VSSX_0	BB12
AR11	VSSX_0	BB30
AT14	VSSX_0	BB32
AT16	VSSX_0	BB34
AT18	VSSX_0	BB35
AT20	VSSX_0	BB36
AT22	VSSX_0	BB40
AT24	VSSX_0	BC7
AT26	VSSX_0	BC11
AT28	VSSX_0	BC19
AT36	VSSX_0	BC21
AU7	VSSX_0	BC23
AU15	VSSX_0	BC25
AU17	VSSX_0	BC27
AU19	VSSX_0	BC35
AU21	VSSX_0	BC37
AU23	VSSX_0	BC39
AU25	VSSX_0	BD8
AU27	VSSX_0	BD12
AU39	VSSX_0	BD18
AV10	VSSX_0	BD24
AV40	VSSX_0	BD28
AW7	VSSX_0	BD32
AW9	VSSX_0	BD34
AW27	VSSX_0	BD36
AW35	VSSX_0	BD38
AW39	VSSX_0	BE9
AW41	VSSX_0	BE11
AY12	VSSX_0	BE13
AY16	VSSX_0	BE15
AY18	VSSX_0	BE17
AY24	VSSX_0	BE19
AY30	VSSX_0	BE21
AY38	VSSX_0	BE23
B20	VSSX_0	BE25
B28	VSSX_0	BE27
B32	VSSX_0	BE29
B36	VSSX_0	BE31
B40	VSSX_0	BE33
BA7	VSSX_0	BE35
BA9	VSSX_0	BE37
BA11	VSSX_0	BE39
BA13	VSSX_0	BF8
BA19	VSSX_0	BF10
BA21	VSSX_0	BF11
BA23	VSSX_0	BF12
BA27	VSSX_0	BF18

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SM7635
VSS3

BF20	VSSX_0	BJ29
BF22	VSSX_0	BJ31
BF24	VSSX_0	BJ33
BF34	VSSX_0	BJ35
BF36	VSSX_0	BJ37
BF38	VSSX_0	BJ39
BF40	VSSX_0	BJ45
BG9	VSSX_0	BJ47
EG11	VSSX_0	BK4
EG13	VSSX_0	BK6
EG15	VSSX_0	BK12
EG17	VSSX_0	BK12
EG19	VSSX_0	BK14
EG21	VSSX_0	BK16
EG23	VSSX_0	BK20
EG25	VSSX_0	BK21
EG31	VSSX_0	BK28
EG33	VSSX_0	BK32
EG35	VSSX_0	BK34
EG37	VSSX_0	BK36
EG39	VSSX_0	BK42
EH8	VSSX_0	BK44
EH10	VSSX_0	BL3
EH12	VSSX_0	BL7
EH14	VSSX_0	BL13
EH16	VSSX_0	BL17
EH18	VSSX_0	BL31
EH20	VSSX_0	BL33
EH22	VSSX_0	BL41
EH24	VSSX_0	BL43
EH26	VSSX_0	BL47
EH28	VSSX_0	BM2
EH34	VSSX_0	BM6
EH36	VSSX_0	BM10
EH38	VSSX_0	BM14
EH40	VSSX_0	BM18
EH42	VSSX_0	BM20
EH44	VSSX_0	BM22
BJ1	VSSX_0	BM24
BJ3	VSSX_0	BM26
BJ7	VSSX_0	BM28
BJ11	VSSX_0	BM30
BJ13	VSSX_0	BM34
BJ15	VSSX_0	BM44
BJ17	VSSX_0	BM46
BJ19	VSSX_0	BN3
BJ21	VSSX_0	BN5
BJ23	VSSX_0	BN7
BJ25	VSSX_0	BN9
BJ27	VSSX_0	BN11

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SM7635
VSS4

EN13	VSSX_0	C41
EN15	VSSX_0	C43
EN17	VSSX_0	D2
EN21	VSSX_0	D20
EN23	VSSX_0	D42
EN25	VSSX_0	E1
EN29	VSSX_0	E3
EN33	VSSX_0	E7
EN35	VSSX_0	E9
EN41	VSSX_0	E11
EN43	VSSX_0	E15
EN45	VSSX_0	E17
BP4	VSSX_0	E21
BP8	VSSX_0	E27
BP12	VSSX_0	E29
BP16	VSSX_0	E33
EP20	VSSX_0	E35
EP26	VSSX_0	E37
EP32	VSSX_0	E41
EP34	VSSX_0	F2
EP36	VSSX_0	F8
BR1	VSSX_0	F20
BR3	VSSX_0	F24
BR5	VSSX_0	F36
BR9	VSSX_0	F42
BR13	VSSX_0	G1
ER17	VSSX_0	G3
ER19	VSSX_0	G15
ER23	VSSX_0	G21
ER27	VSSX_0	G23
ER29	VSSX_0	G29
ER33	VSSX_0	G41
ER37	VSSX_0	H4
ER41	VSSX_0	H8
ER47	VSSX_0	H10
C1	VSSX_0	H12
C3	VSSX_0	H20
C5	VSSX_0	H22
C7	VSSX_0	H24
C9	VSSX_0	H28
C13	VSSX_0	H32
C15	VSSX_0	H34
C17	VSSX_0	H36
C21	VSSX_0	H40
C23	VSSX_0	H42
C25	VSSX_0	J1
C29	VSSX_0	J5
C31	VSSX_0	J7
C37	VSSX_0	J9
C39	VSSX_0	

AMA00013308CX

U0101

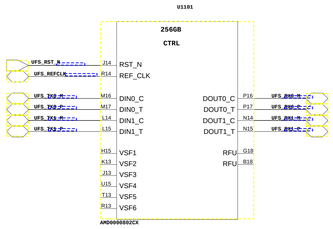
SM7635
VSS5

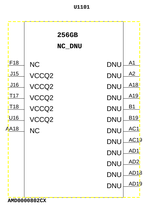
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J13	VSSX_0	R39
J15	VSSX_0	T8
J17	VSSX_0	T10
J19	VSSX_0	T12
J21	VSSX_0	T20
J23	VSSX_0	T22
J25	VSSX_0	T24
J27	VSSX_0	T26
J29	VSSX_0	T28
J31	VSSX_0	T30
J33	VSSX_0	T32
J35	VSSX_0	T34
J37	VSSX_0	T36
J39	VSSX_0	U3
K6	VSSX_0	U5
K10	VSSX_0	U7
K12	VSSX_0	U13
K34	VSSX_0	U15
K36	VSSX_0	U33
L9	VSSX_0	U35
L11	VSSX_0	U37
L43	VSSX_0	U41
M6	VSSX_0	V8
M8	VSSX_0	V16
M10	VSSX_0	V40
M12	VSSX_0	V42
M36	VSSX_0	W7
M42	VSSX_0	W9
N3	VSSX_0	W35
N5	VSSX_0	W37
N7	VSSX_0	Y8
N11	VSSX_0	Y10
N13	VSSX_0	Y12
N15	VSSX_0	Y14
N17	VSSX_0	Y16
N19	VSSX_0	Y26
N21	VSSX_0	Y28
N23	VSSX_0	Y30
N25	VSSX_0	Y32
N27	VSSX_0	Y34
N29	VSSX_0	
N31	VSSX_0	
N33	VSSX_0	
N35	VSSX_0	
N37	VSSX_0	
P8	VSSX_0	
P38	VSSX_0	
R7	VSSX_0	
R9	VSSX_0	

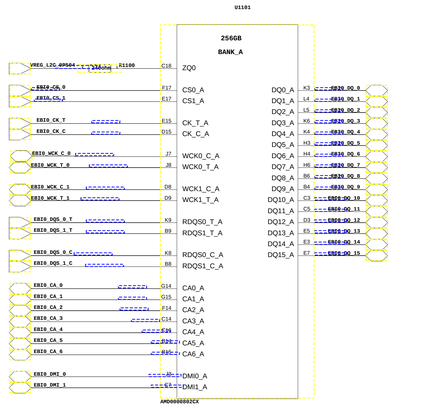
AMA00013308CX

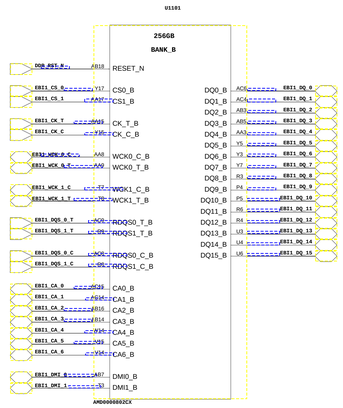
UFS3.1+LPDRAM

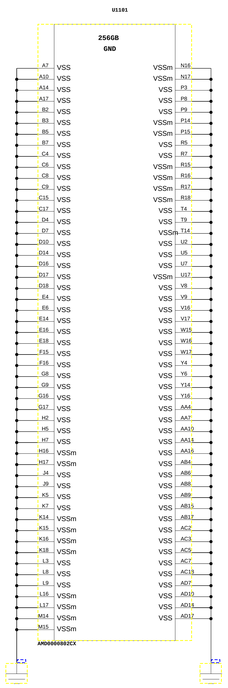
VCC 3.3V
VCCQ2 1.8V
VDD1/VDD2/VDDQ:18/1.1V/0.6V

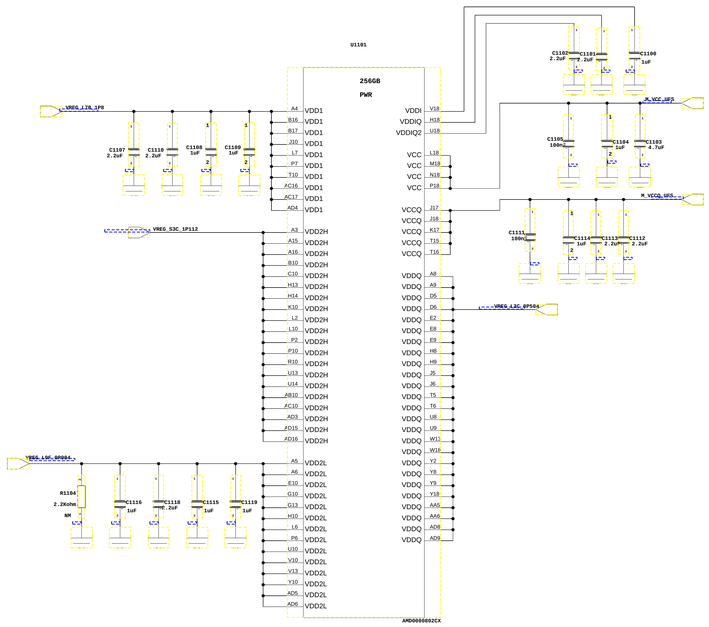


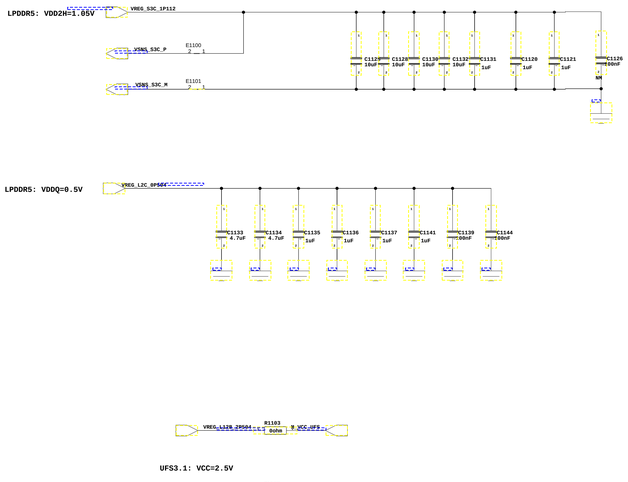






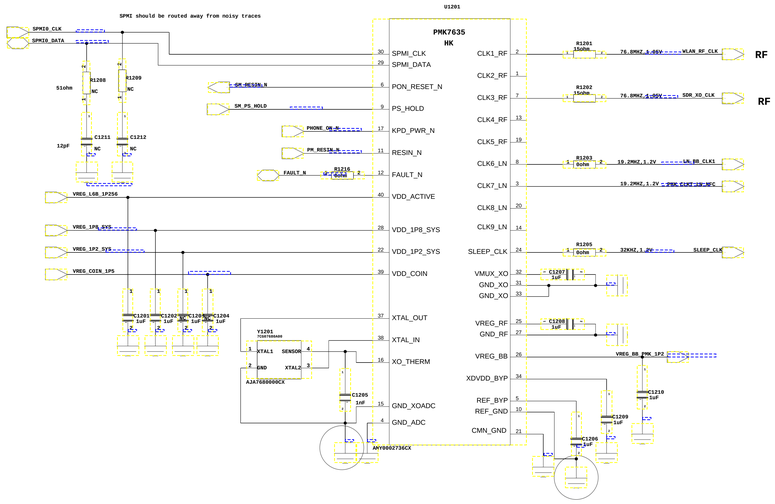


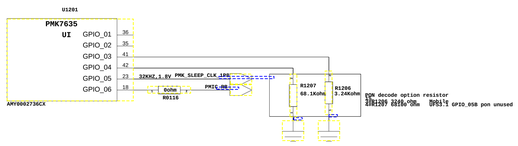


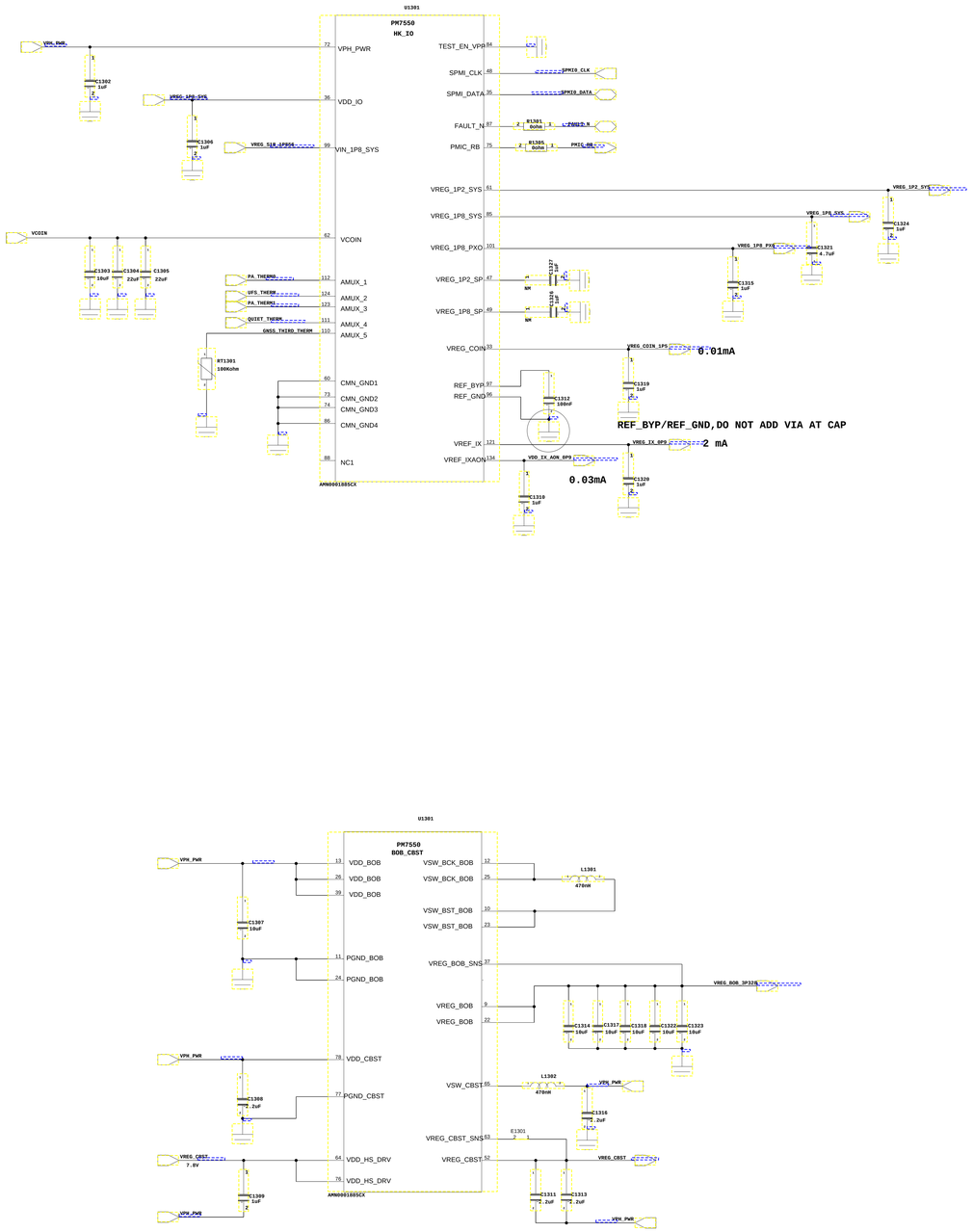


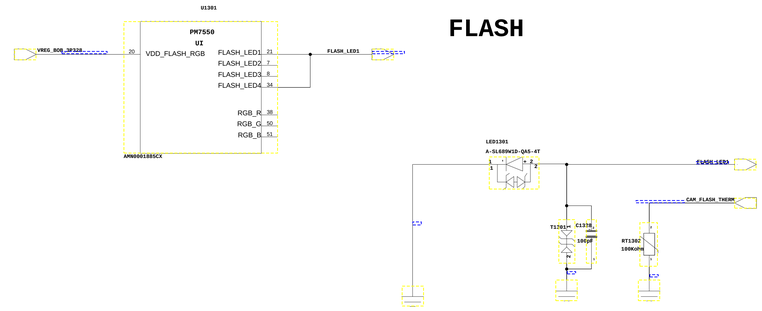
Zebra Confi

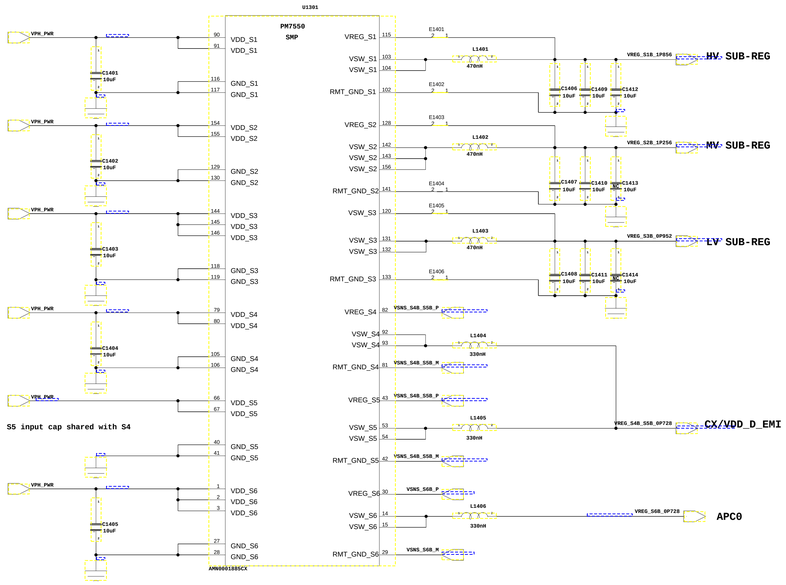
Assembly number	PT
Revision	Rev1.0
Page number	Page 13 of


U1201
PMK7635
HK
SPMI should be routed away from noisy traces
SPMI0_CLK
SPMI0_DATA
51ohm
R1208
NC
R1209
NC
12pF
C1211
NC
C1212
NC
GM_RESIN_N
SM_PS_HOLD
PHONE_ON_N
PM_RESIN_N
FAULT_N
R1216
0ohm
VREG_L6B_1P25G
VREG_1P8_SYS
VREG_1P2_SYS
VREG_COIN_1P5
C1201 1uF
C1202 1uF
C1203 1uF
C1204 1uF
Y1201
32KHz
XTAL1
SENSOR
GND
XTAL2
AJA7680000CK
C1205 1nF
AHY00027360CK
SPMI_CLK
SPMI_DATA
PON_RESET_N
PS_HOLD
KPD_PWR_N
RESIN_N
FAULT_N
VDD_ACTIVE
VDD_1P8_SYS
VDD_1P2_SYS
VDD_COIN
XTAL_OUT
XTAL_IN
XO_THERM
GND_XOADC
GND_ADC
CLK1_RF
CLK2_RF
CLK3_RF
CLK4_RF
CLK5_RF
CLK6_LN
CLK7_LN
CLK8_LN
CLK9_LN
SLEEP_CLK
VMUX_XO
GND_XO
GND_XO
VREG_RF
GND_RF
VREG_BB
XDVDD_BYP
REF_BYP
REF_GND
CMN_GND
R1201 15ohm
76.8MHZ_0.65V
WLAN_RF_CLK
RF
R1202 15ohm
76.8MHZ_0.65V
SDR_XO_CLK
RF
R1203 0ohm
19.2MHZ_1.2V
LN_BB_CLK1
19.2MHZ_1.2V
PMK_CLK2_TO_WFC
R1205 0ohm
32KHZ_1.8V
SLEEP_CLK
C1207 1uF
C1208 1uF
VREG_BB_PMK_1P2
C1210 1uF
C1209 1uF
C1206 1uF


U1201
PMK7635
UI
GPIO_01
GPIO_02
GPIO_03
GPIO_04
GPIO_05
GPIO_06
AHY00027360CK
32KHZ_1.8V
PMK_SLEEP_CLK_1P8
PMIC_GPIO_2
0ohm
RR116
R1207
68.1kohm
R1206
3.24kohm
PON decode option resistor
RR1205 324k+5%
RR1207 68.1k+ 1%
RR1206 3.24k+ 1%
Default GPIO_05B pon unused


U1301
PM7550
HK_IO
VPH_PWR
VDD_IO
VIN_1P8_SYS
VCOIN
AMUX_1
AMUX_2
AMUX_3
AMUX_4
AMUX_5
CMN_GND1
CMN_GND2
CMN_GND3
CMN_GND4
NC1
TEST_EN_VPH
SPMI_CLK
SPMI_DATA
FAULT_N
PMIC_RB
VREG_1P2_SYS
VREG_1P8_SYS
VREG_1P8_PXO
VREG_1P2_SP
VREG_1P8_SP
VREG_COIN
REF_BYP
REF_GND
VREF_IX
VREF_IXAON
AMN00001885CX
VPH_PWR
VREG_S1B_GPS04
VREG_1P2_SYS
C1302
1uF
C1306
1uF
C1303
10uF
C1304
22uF
C1305
22uF
PA_THERM0
UFS_THERM
PA_THERM1
QUIET_THERM
GNSS_THIRD_THERM
RT1301
100Kohm
C1308
2.2uF
C1309
1uF
C1307
10uF
C1314
10uF
C1317
10uF
C1318
10uF
C1322
10uF
C1323
10uF
L1302
470nH
C1316
2.2uF
C1311
2.2uF
C1313
2.2uF
E1301
C1312
100nF
C1310
1uF
C1319
1uF
C1320
1uF
VREG_COIN_SP5
VREG_IX_GP5
VDD_IX_AON_GP5
0.01mA
2 mA
0.03mA
REF_BYP/REF_GND,DO NOT ADD VIA AT CAP
R1301
0ohm
R1305
0ohm
PMIC_RB
L1301
470nH
VREG_BOB_3P32S
VREG_BOB_SNS
VREG_BOB
VSW_BCK_BOB
VSW_BST_BOB
VSW_CBST
VREG_CBST_SNS
VREG_CBST
VDD_HS_DRV
PGND_BOB
PGND_CBST
VREG_CBST
7.8V
C1324
1uF
C1321
4.7uF
C1315
1uF
VREG_1P8_SYS
VREG_1P8_PXO
VREG_1P2_SP
VREG_1P8_SP
NM
U1301
PM7550
GPIO
GPIO_01
GPIO_02
GPIO_03
GPIO_04
GPIO_05
GPIO_06
GPIO_07
GPIO_08
GPIO_09
GPIO_10
GPIO_11
GPIO_12
AMN00001885CX
VDD2L
TBD
VPH_PWR
CAM_FLASH_THERM
PA_THERM2
KYPD_VOLP_N
REAR_CAMERA_THERM
VREG_LSF_GPS04
NPI_DOWN_EN
SD_CARD_DET_N
R1303
0ohm
R1304
0ohm
* AMUX


FLASH
U1301
PM7550
UI
VDD_FLASH_RGB
FLASH_LED1
FLASH_LED2
FLASH_LED3
FLASH_LED4
RGB_R
RGB_G
RGB_B
AMN00001885CX
VREG_BOB_3P32S
FLASH_LED1
LED1301
A-SL689W1D-QAS-4T
FLASH_LED3
CAM_FLASH_THERM
T1701
C1378
100pF
RT1302
100Kohm


U1301
PM7550
SMP
VPH_PWR
C1401
10uF
C1402
10uF
C1403
10uF
C1404
10uF
C1405
10uF
VDD_S1
VDD_S1
GND_S1
GND_S1
VDD_S2
VDD_S2
GND_S2
GND_S2
VDD_S3
VDD_S3
VDD_S3
GND_S3
GND_S3
VDD_S4
VDD_S4
GND_S4
GND_S4
VDD_S5
VDD_S5
S5 input cap shared with S4
GND_S5
GND_S5
VDD_S6
VDD_S6
VDD_S6
GND_S6
GND_S6
AMN00018SCX
VREG_S1
VSW_S1
VSW_S1
RMT_GND_S1
VREG_S2
VSW_S2
VSW_S2
VSW_S2
RMT_GND_S2
VSW_S3
VSW_S3
VSW_S3
RMT_GND_S3
VREG_S4
VSW_S4
VSW_S4
RMT_GND_S4
VREG_S5
VSW_S5
VSW_S5
RMT_GND_S5
VREG_S6
VSW_S6
VSW_S6
RMT_GND_S6
E1401
E1402
E1403
E1404
E1405
E1406
L1401
470nH
L1402
470nH
L1403
470nH
L1404
330nH
L1405
330nH
L1406
330nH
C1406
10uF
C1409
10uF
C1412
10uF
C1407
10uF
C1410
10uF
C1413
10uF
C1408
10uF
C1411
10uF
C1414
10uF
VSNS_S4B_S5B_F
VSNS_S4B_S5B_M
VSNS_S6B_F
VSNS_S6B_M
VREG_S1B_1P856
VREG_S2B_1P256
VREG_S3B_0P952
VREG_S4B_S5B_0P728
VREG_S6B_0P728
HV SUB-REG
MV SUB-REG
LV SUB-REG
CX/VDD_D_EMI
APC0

U1301

PM7550
VREG_LX

AMN6001885CK

VREG_S1B_1P525 → 122 VDD_L1
VREG_S3B_925G2 → 135 VDD_L2_L3
VREG_S2B_1P225 → 137 VDD_L4_L5
138 VDD_L6
VREG_S1B_1P525 → 139 VDD_L7
140 VDD_L8
126 VDD_L9_L10
113 VDD_L11
VREG_BOB_3P328 → 19 VDD_L12_L14
32 VDD_L12_L14
18 VDD_L13_L16
46 VDD_L15_L17_L18_L19_L20_L21_L22_L23

VREG_L1 109
VREG_L1_S 108
VREG_L2 148
VREG_L3 147
VREG_L4 149
VREG_L4_S 136
VREG_L5 150
VREG_L6 151
VREG_L7 152
VREG_L8 153
VREG_L9 154
VREG_L10 125
VREG_L11 100
VREG_L12 6
VREG_L13 5
VREG_L14 31
VREG_L15 57
VREG_L16 17
VREG_L17 58
VREG_L18 56
VREG_L19 59
VREG_L20 44
VREG_L21 46
VREG_L22 70
VREG_L23 71

WCN

920mA VREG_L2B_0P9 → QCTDX
VREG_L3B_0P85 → WCN_CORE
120 mA VREG_L4B_1P2

315 mA VREG_L5B_1P2 → VDD12_1P2,PX14,PX18,PX71B
3.4 mA VREG_L6B_1P256 → PMK_VDD
VREG_L7B_1P8 → VDD18_1P8,WCD_VDD_BUCK
650 mA VREG_L8B_1P8 → VDD578_VDD_CP
VREG_L9B_1P8 → VDD_TP,DDIC_VDDIO
VREG_L10B_1P8 → CAMIO_1P8
10.33 mA VREG_L11B_1P8 → PX14_VDD
800 mA VREG_L12B_2P504 → VDD_DDIC_VCC
978 mA VREG_L13B_2P96 → VDCAC_VDD
2G_PA
5G_PA
VREG_L15B_3P0 → VDD_3V
215 mA VREG_L17B_3P1 → VDD_T
VREG_L18B_2P8 → VDD_T
VREG_L19B_VCI_3P1 → VDD_LCD_VCI
VREG_L20B_1P8_3P0 → VDD_DDIC
VREG_L21B_1P8 → UIM2 UNUSED
VREG_L22B_TS_3P2 → TP_3V3
VREG_L23B_2P96 → SDC_VDD1D/1.8/3V

C1502 4.7uF
C1503 4.7uF
C1504 4.7uF
C1505 4.7uF
C1506 1uF
C1507 10uF
C1508 2.2uF
C1509 2.2uF
C1510 1uF
C1511 1uF
C1512 4.7uF
C1513 4.7uF
C1516 4.7uF
C1517 1uF
C1518 1uF
C1519 1uF
C1520 1uF
C1521 1uF
C1522 1uF
C1523 1uF

U1601

PM8550VS
HK

SPMI0_CLK → 12 SPMI_CLK
SPMI0_DATA → 13 SPMI_DATA
VREG_1P8_GX5 → 4 VDD_1P8_SYS
11 VDD_IO
29 VPH_PWR
38 VBOB
3 VDD_LS_DRV
5 VDD_HS_DRV
VREG_CDCT_
VPH_PWR
VREG_BOB_2P328
VPH_PWR
VPH_PWR

GPIO_01 57
GPIO_02 61
GPIO_03 21
GPIO_04 32
GPIO_05 14
GPIO_06 10
TEST_EN_VPP 28
PMIC_RB 31
FAULT_N 64
NC1 37
NC2 66
CMN_GND 30
CMN_GND 39
CMN_GND 40
CMN_GND 48

R1697 NM 0ohm → VDD_D1_EN
PMIC_RB
FAULT_N

C1617 1uF
C1601 1uF
C1604 1uF
C1606 1uF
C1607 1uF

AMN00018D7CX

U1601

PM8550VS
VREG1

VPH_PWR → VDD_S1 76, VDD_S1 77
C1611 10uF
GND_S1 60, GND_S1 61
VPH_PWR → VDD_S2 33, VDD_S2 34
C1612 1uF
GND_S2 51, GND_S2 52
VPH_PWR → VDD_S3 6, VDD_S3 7
C1613 10uF
GND_S3 24, GND_S3 25
VPH_PWR → VDD_S4 1, VDD_S4 2
C1614 10uF
GND_S4 17, GND_S4 18
VPH_PWR → VDD_S5 26, VDD_S5 27
C1615 1uF
GND_S5 44, GND_S5 45
VPH_PWR → VDD_S6 71, VDD_S6 72
C1616 10uF
GND_S6 53, GND_S6 54

AMN00018D7CX

VREG_S1 58 ← VSNS_S1C_S2C_P
VSW_S1 69, VSW_S1 70 ← L1601 330nH ← VREG_S1C_S2C_0P728 → APC1
RMT_GND_S1 59 ← VSNS_S1C_S2C_M
VREG_S2 49 ← VSNS_S1C_S2C_P
VSW_S2 42, VSW_S2 43 ← L1602 330nH
RMT_GND_S2 50 ← VSNS_S1C_S2C_M
VREG_S3 22 ← VSNS_S3C_P
VSW_S3 15, VSW_S3 16 ← L1603 330nH ← VREG_S3C_1P312 → VDD2H 2.525A
C1620 1uF
RMT_GND_S3 23 ← VSNS_S3C_M
VREG_S4 20 ← VSNS_S4C_P
VSW_S4 8, VSW_S4 9 ← L1604 330nH ← VREG_S4C_0P728 → MODERM
RMT_GND_S4 19 ← VSNS_S4C_M
VREG_S5 47 ← VSNS_S5C_P
VSW_S5 35, VSW_S5 36 ← L1605 AC0473MD01CX 470nH ← VREG_S5C_0P752 → MX_A
RMT_GND_S5 46 ← VSNS_S5C_M
VREG_S6 56 ← VSNS_S6C_P
VSW_S6 62, VSW_S6 63 ← L1606 330nH ← VREG_S6C_0P728 → GFX
RMT_GND_S6 55 ← VSNS_S6C_M

POR option: VDDA_EBI powered by L1C, DNI R1602,R0503
Backup option: VDDA_EBI powered by S1D, DNI R1601,R2213,R2206

U1601

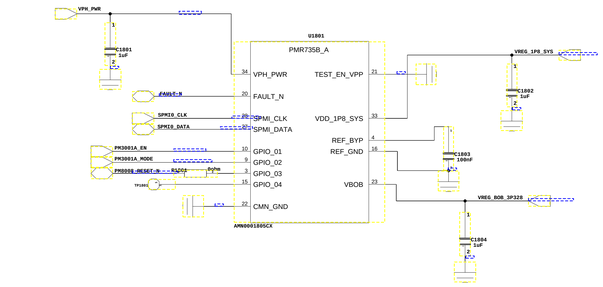
PM8550VS
VREG2

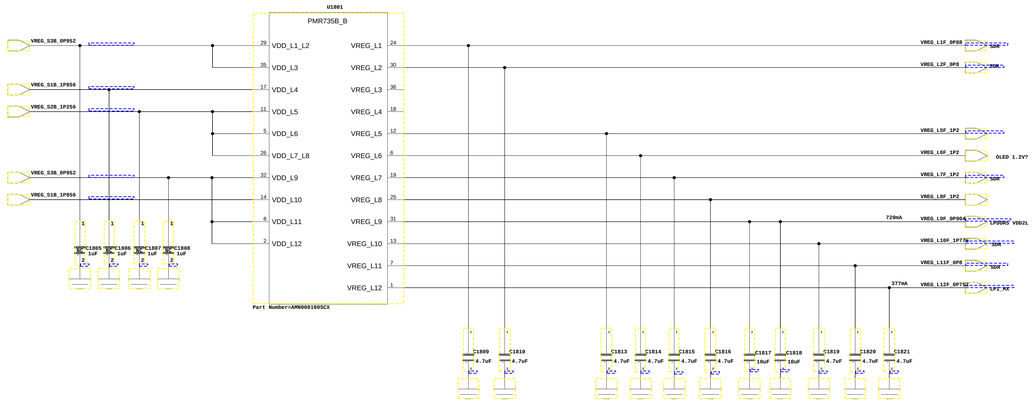
VREG_S3D_0R852 → 67 VDD_L1
VREG_S5C_0P752 → 66 VDD_L2
VREG_S3B_0P952 → 65 VDD_L3

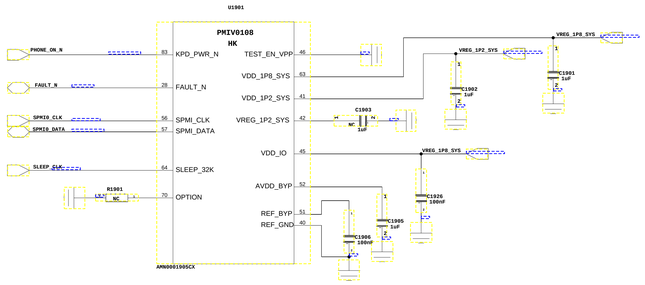
VREG_L1 75 → VREG_L1C_0P880 → VDD_A_EBI_0_1 739mA
VREG_L2 74 → VREG_L2C_0P584 → LPDDR5_VDDQ,VDD_IO_EBI_0_1 1125mA
VREG_L3 73 → VREG_L3C_0P728 → LPI_CX 1106mA

C1602 1uF
C1603 1uF
C1605 1uF
C1619 22uF
C1608 10uF
C1609 10uF
C1610 10uF

AMN00018D7CX

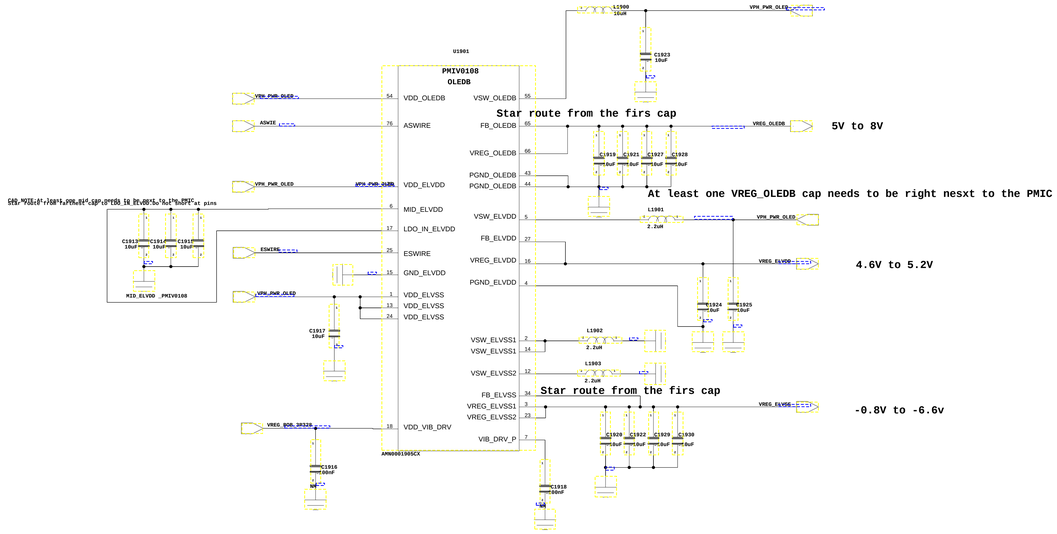

VPH_PWR
C1801
1uF
U1801
PMR735B_A
VPH_PWR
34
FAULT_N
20
SPMI_CLK
SPMI_DATA
PM3001A_EN
PM3001A_MODE
PMR735B_RESET_N
GPIO_01
GPIO_02
GPIO_03
GPIO_04
CMN_GND
22
TEST_EN_VPP
21
VDD_1P8_SYS
33
REF_BYP
4
REF_GND
16
VBOB
23
VREG_1P8_SYS
C1802
1uF
C1803
100nF
VREG_BOB_3P328
C1804
1uF
AMR0001805CX


U1801
PMR735B_B
VREG_S3B_0P952
VREG_S1B_1P856
VREG_S2B_1P256
VREG_S3B_0P952
VREG_S1B_1P856
VDD_L1_L2
29
VDD_L3
35
VDD_L4
17
VDD_L5
11
VDD_L6
5
VDD_L7_L8
26
VDD_L9
32
VDD_L10
14
VDD_L11
8
VDD_L12
2
VREG_L1
24
VREG_L2
30
VREG_L3
36
VREG_L4
18
VREG_L5
12
VREG_L6
6
VREG_L7
19
VREG_L8
25
VREG_L9
31
VREG_L10
13
VREG_L11
7
VREG_L12
1
C1805 1uF
C1806 1uF
C1807 1uF
C1808 1uF
VREG_L1F_0P88
VREG_L2F_0P8
VREG_L5F_1P2
VREG_L6F_1P2
OLED 1.2V?
VREG_L7F_1P2
VREG_L8F_1P2
720mA
VREG_L9F_0P504
VREG_L10F_1P776
VREG_L11F_0P8
VREG_L12F_0P752
377mA
C1809 4.7uF
C1810 4.7uF
C1813 4.7uF
C1814 4.7uF
C1815 4.7uF
C1816 4.7uF
C1817 10uF
C1818 10uF
C1819 4.7uF
C1820 4.7uF
C1821 4.7uF
Part Number=AMR0001805CX
L8F IS part pon,output cap should always be there

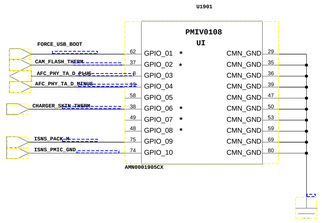


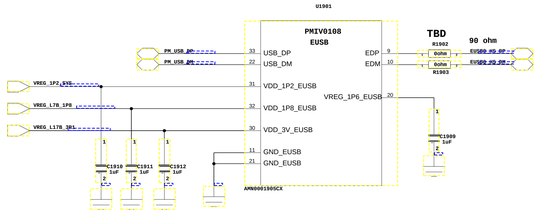
REF_GND routes to Pin29
CMN_GND on surface layer

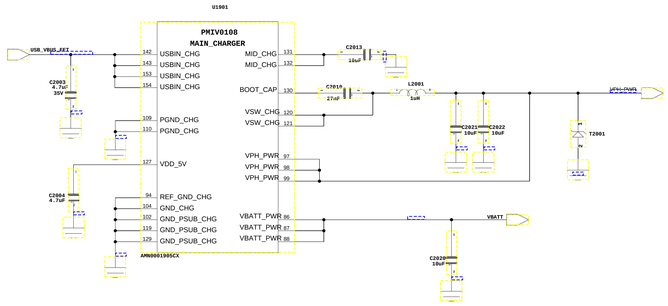


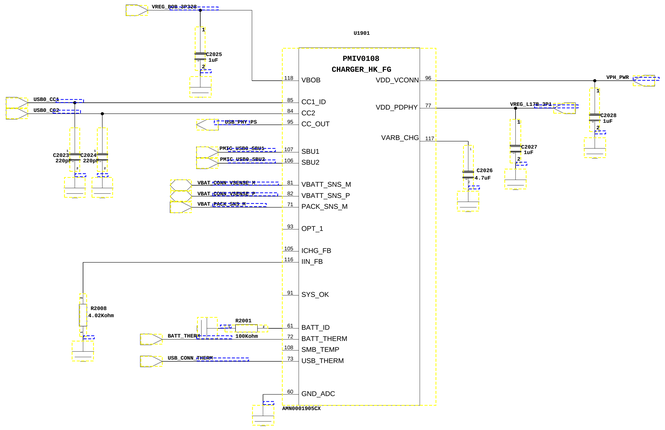


VDD SEL ?

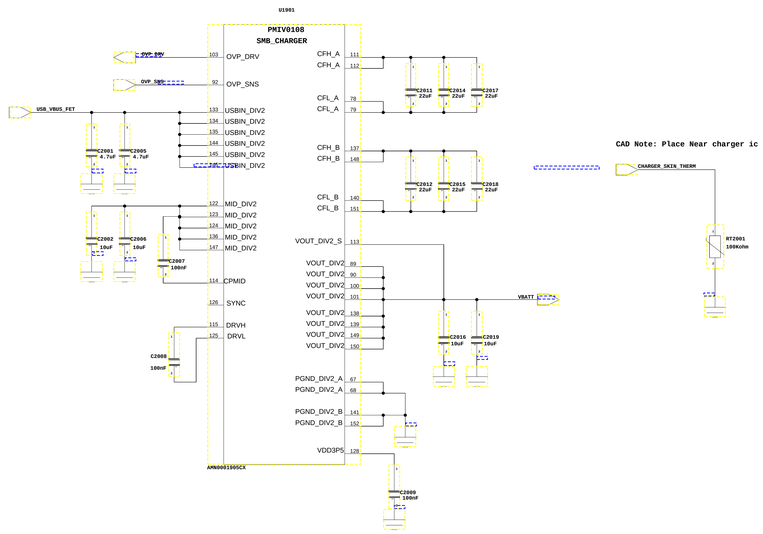




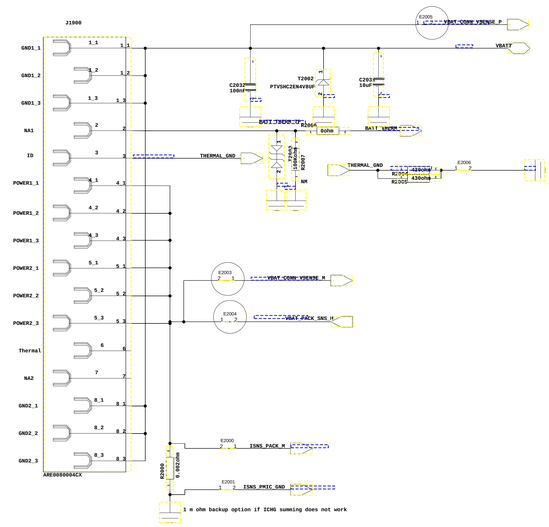


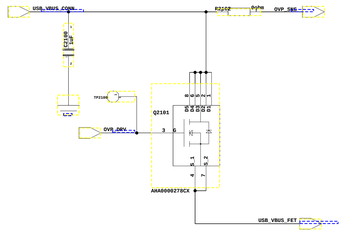


BATTERY CONNECTOR



CAD Note: Place Near charger ic




USB_VBUS_CONN
R2268
0ohm
OVP_SNS
C2108
0.1uF
TP2166
OVS_DRV
Q2101
AMA000270CK
USB_VBUS_FET

U2401
WCD9378_B
WCD9378
PWR_GND

B2401
0ohm

VREG_BOB_3P3EN
VREG_L2B_1P8
VREG_L2B_1P8
VREG_L6B_1P8

C2404 4.7uF
C2405 100nF
C2406 100nF
C2407 100nF
C2408 1uF
C2409 100nF
C2412 1uF

1	VDD_EFUSE	PA_VPOS	39
9	VDD_MIC_BIAS	CP_VPOS	40
25	VDD_A	CP1_FLYP	41
24	VDD_IO		
50	VDD_CP	CP1_FLYN	36
6	VDD_CX	CP_VNEG	49
5	LDO_H	PA_VNEG	43
2	CCOMP	CP2_FLYP	32
7	CCOMP_REF	CP2_FLYN	27
26	GND_RXTX		
45	GND_CP		
38	GND_A	CP_VNEGDAC	31
11	GND_D		

AMY0002577CX

C2403 2.2uF
C2413 1uF
C2414 470nF

B2401 MMZ1005Y121CT
C2401 1uF
C2402 470pF
Main GND

B2402 MMZ1005Y121CT
C2411 1uF
C2410 470pF
Main GND

U2401
WCD9378_A
WCD9378
CODEC

WCD_P1_RST_N

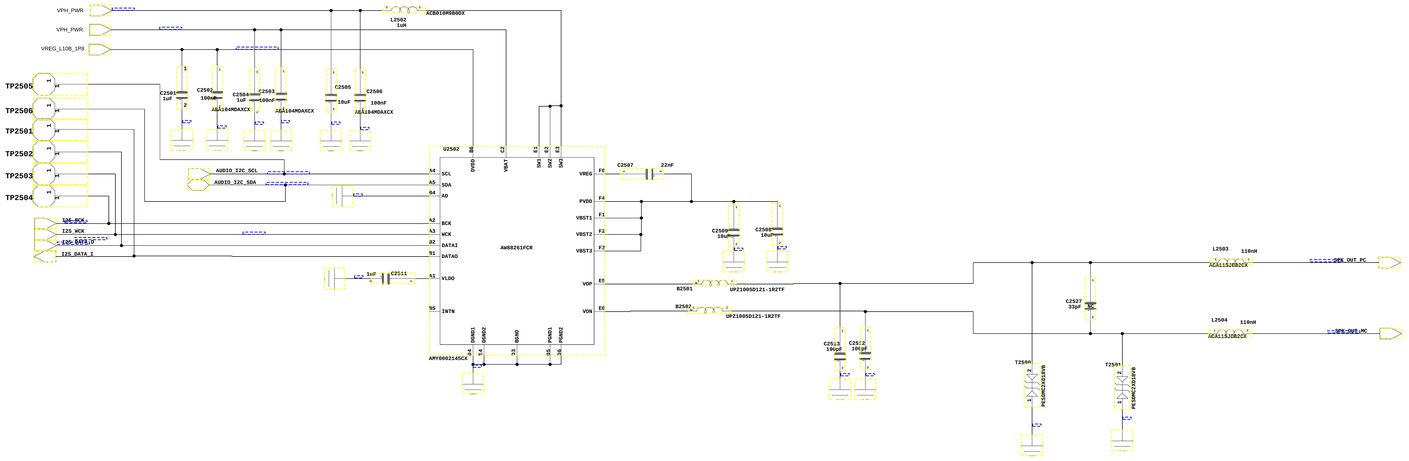
33	RESET_N	AMIC1_INP	3
29	TEST_MODE	AMIC1_INM	12
		AMIC2_INP	21
		AMIC2_INM	22
19	CDC_SWR_RX_CLK		
28	CDC_SWR_RX_DATA0	AMIC3_INP	8
10	CDC_SWR_RX_DATA1	AMIC3_INM	4
		AMIC4_INP	17
20	CDC_SWR_TX_CLK	AMIC4_INM	13
15	CDC_SWR_TX_DATA0		
16	CDC_SWR_TX_DATA1		
		AUX_OUT_P	42
		AUX_OUT_M	47
30	MBHC_HSDET_L	EAR_OUT_P	46
		EAR_OUT_M	37
34	MBHC_HSDET_G		
18	MIC_BIAS1	HPH_L	44
23	MIC_BIAS2	HPH_R	48
14	MIC_BIAS3	HPH_REF	35

WCD_SWR_RX_CLK
WCD_SWR_RX_DATA0
WCD_SWR_RX_DATA1
WCD_SWR_TX_CLK
WCD_TX_DATA0
WCD_TX_DATA1
WCD_MIC_BIAS1
WCD_MIC_BIAS3
WCD_EN1_P
WCD_EN1_M
WCD_EN3_P
WCD_EN3_M

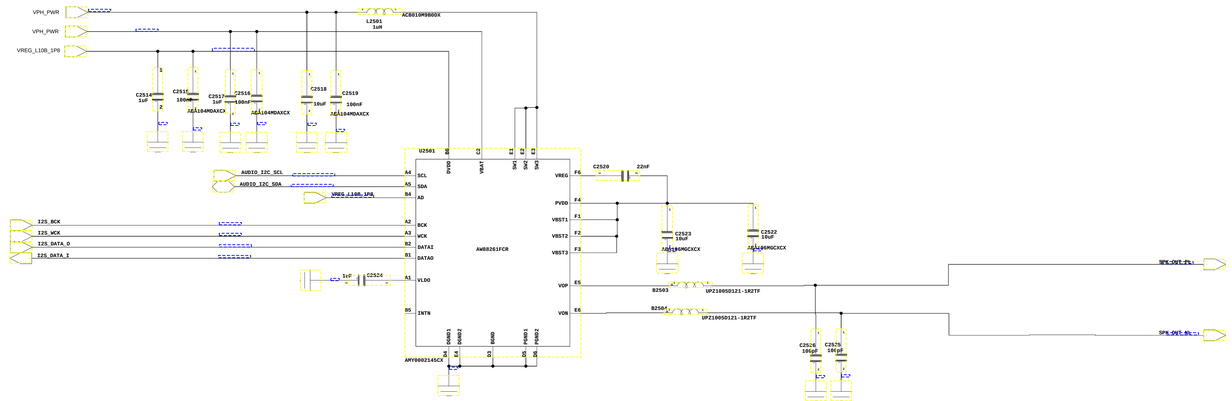
AMY0002577CX

1UF C2421
1UF C2420

TOP RCV &SPEAKER SMART PA

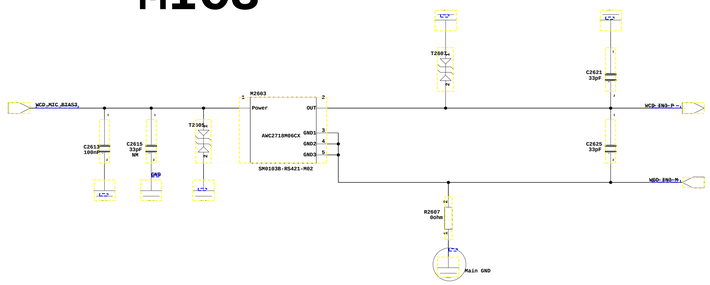


BOT SPEAKER SMART PA



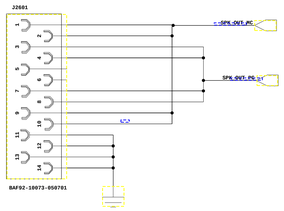
AD	Address(7-bit)
0	0x34
1	0x35

MIC3

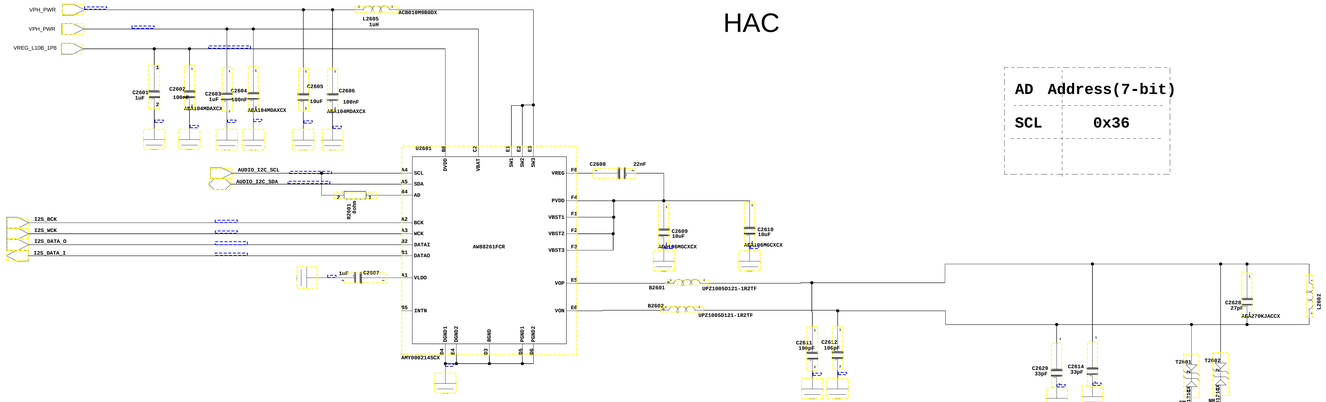


top speaker connector

PIN 1£¬2£¬3£¬9£¬10	-
PIN 4£¬5£¬6£¬7£¬8	+

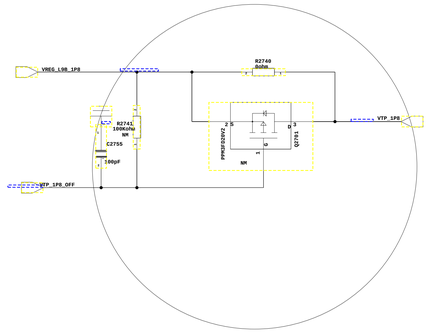


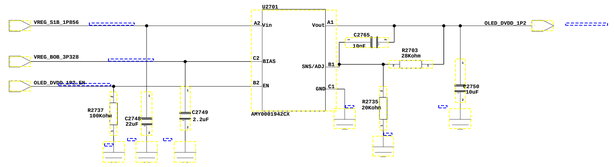
HAC

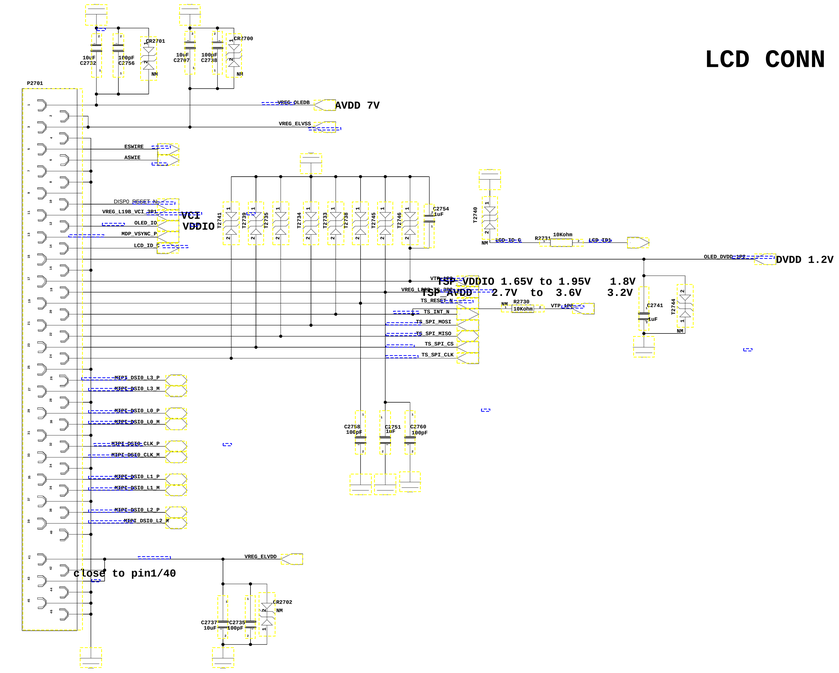


AD	Address(7-bit)
SCL	0x36

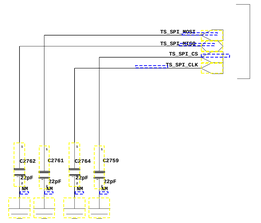
LCD CONN

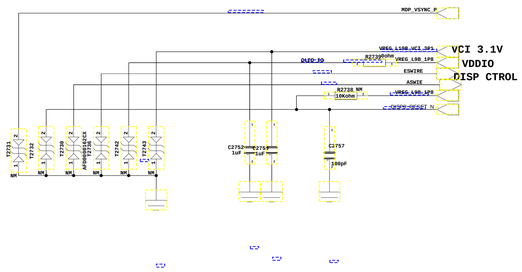






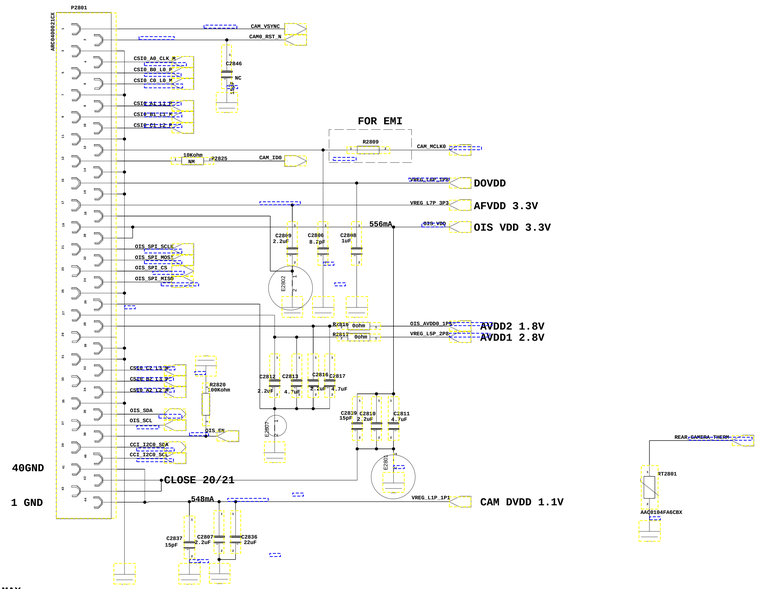
VDDIO 1.65V-1.95V
DVDD 1.1V-1.95V
VCI 2.65V-4.5V
AVDD 5V-8V
ELVDD 0-8V
ELVDD -8V-0V





50M OIS CAMERA

CPHY 45 ohm +/- 10%



MAX

AVDD28 2.7-2.9V 2.8V 57.6mA

AVDD18 1.7-1.9V 1.8V 33.4mA

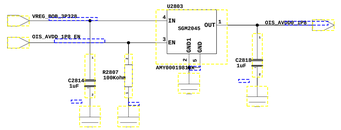
DOVDD 1.7-1.9V 1.8V 7.2mA

DVDD 1.0-1.2V 1.1V 548.6mA

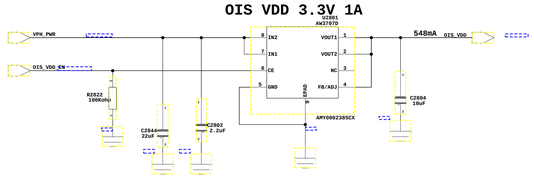
AFVDD 2.6-3.6V 3.3V 30mA

OIS_VDD 1.8-3.6V 3.3V 556mA

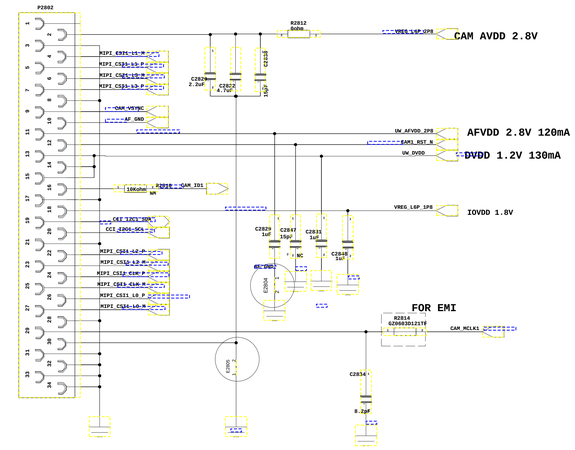
AVDD2 1.8V



OIS VDD 3.3V 1A



UW CAMERA



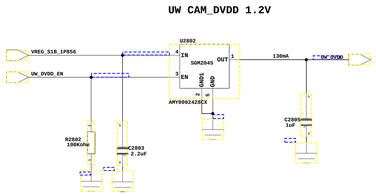
AFVDD 2.8V 120mA

DVDD 1.14-1.26V 130mA

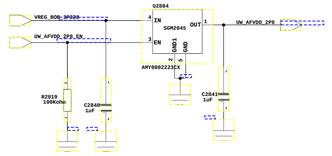
AVDD 2.7-2.9V 45mA

DOVDD 1.7-1.9V 3mA

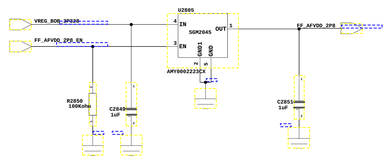
UW CAM_DVDD 1.2V

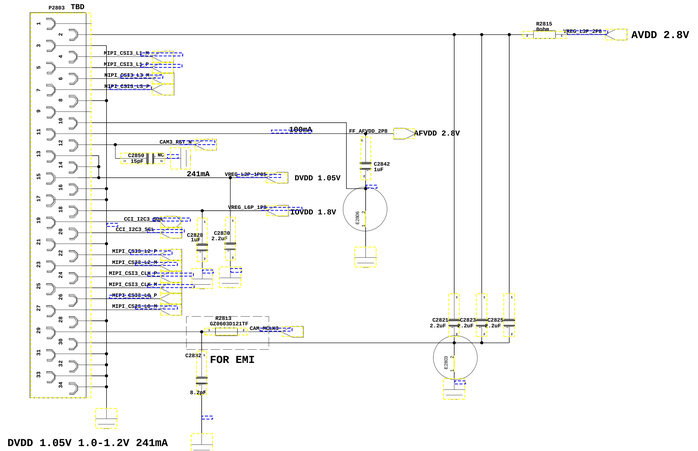


UW AFVDD 2.8V



32M front camera





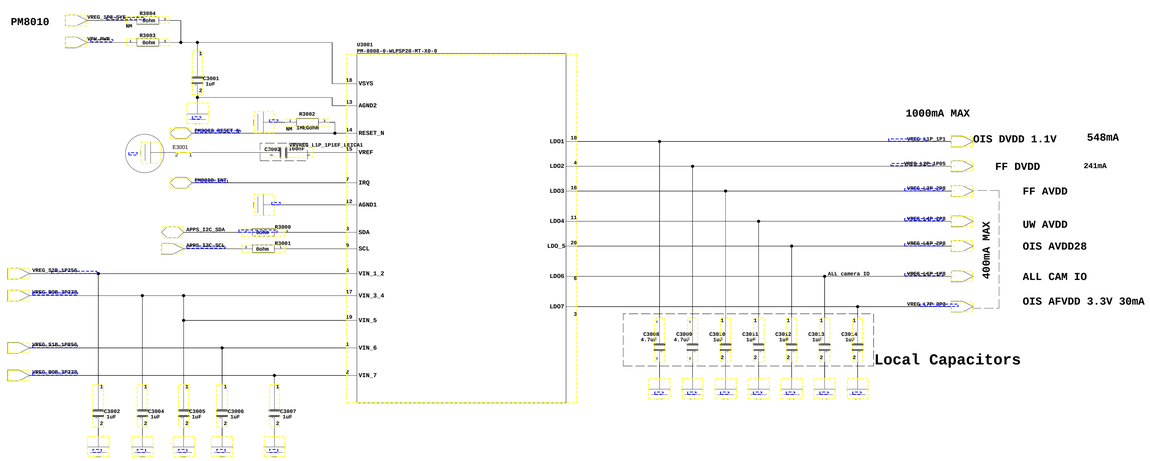
DVDD 1.05V 1.0-1.2V 241mA

AVDD28 2.8V 2.7-2.9V 52mA

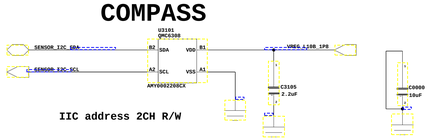
DOVDD 1.8V 1.7-1.9V 1mA

AFVDD 2.8V 2.7-2.9V 120mA

CAM_PM8008

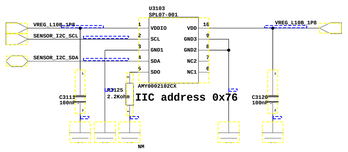

PM8010
R3004
0ohm
NM
R3003
0ohm
C3001
1uF
R3002
NM
1MLG0H0
PM8008_RESET_N
E3001
C3008
1000pF
PM8008_L1P_1P18F_LEICA1
PM8008_INT
APPS_I2C_SDA
R3000
0ohm
APPS_I2C_SCL
R3001
0ohm
VREG_S2B_LP25
VREG_BOB_3P32
VREG_S1B_1P05
VREG_BOB_3P32
C3002
1uF
C3004
1uF
C3005
1uF
C3006
1uF
C3007
1uF
U3001
PM-8008-0-WLPSP20-MT-X0-0
VSYS
AGND2
RESET_N
VREF
IRQ
AGND1
SDA
SCL
VIN_1_2
VIN_3_4
VIN_5
VIN_6
VIN_7
1000mA MAX
LDO1
LDO2
LDO3
LDO4
LDO_5
LDO6
LDO7
VREG_L1P_1P1
VREG_L2P_1P95
VREG_L3P_2P8
VREG_L4P_2P8
VREG_L5P_2P8
VREG_L6P_2P8
VREG_L7P_1P8
VREG_L7P_BOB
All camera IO
400mA MAX
OIS DVDD 1.1V
548mA
FF DVDD
241mA
FF AVDD
UW AVDD
OIS AVDD28
ALL CAM IO
OIS AFVDD 3.3V 30mA
C3008
4.7uF
C3009
4.7uF
C301
1uF
C301
1uF
C301
1uF
C301
1uF
C301
1uF
Local Capacitors
L1/L2 1000mA MAX
L3 TO L7 400mA MAX

COMPASS



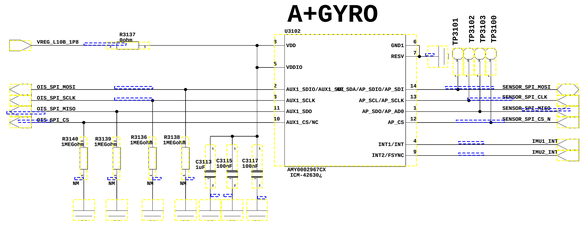
IIC address 2CH R/W

Barometer

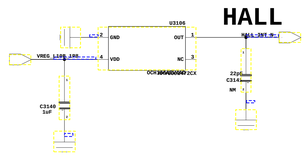


IIC address 0x76

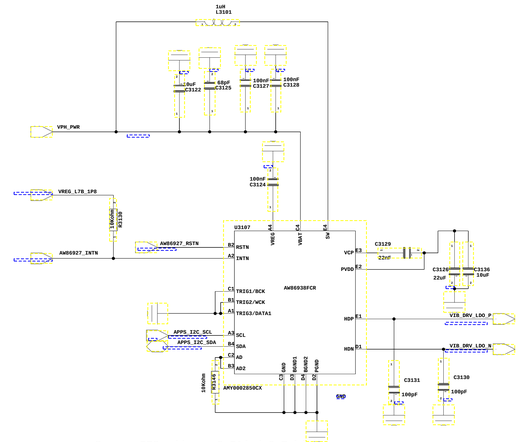
A+GYRO



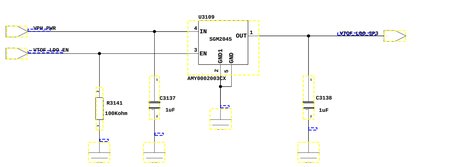
HALL



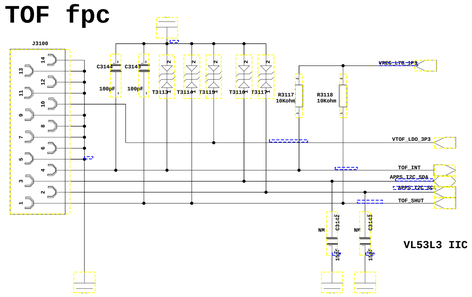
VIBRATOR



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

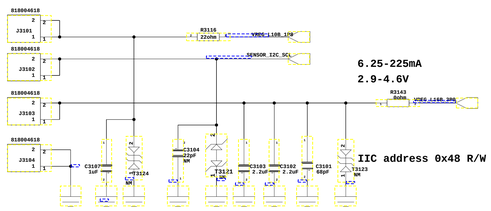


TOF fpc



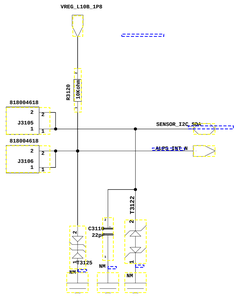
VL53L3 IIC address 0x52 0101001 R/W


RGB SENSOR
ALS&P SENSOR



6.25-225mA
2.9-4.6V

IIC address 0x48 R/W

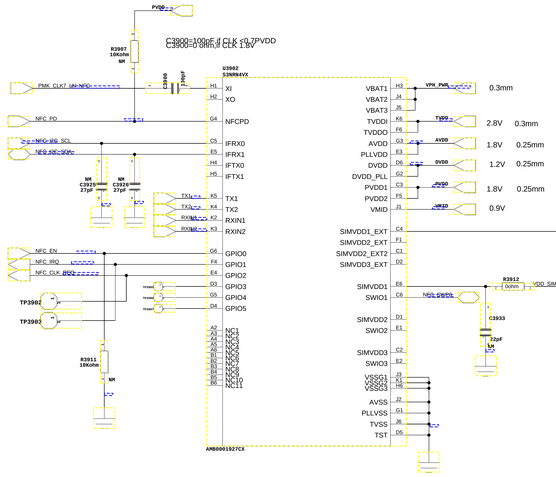


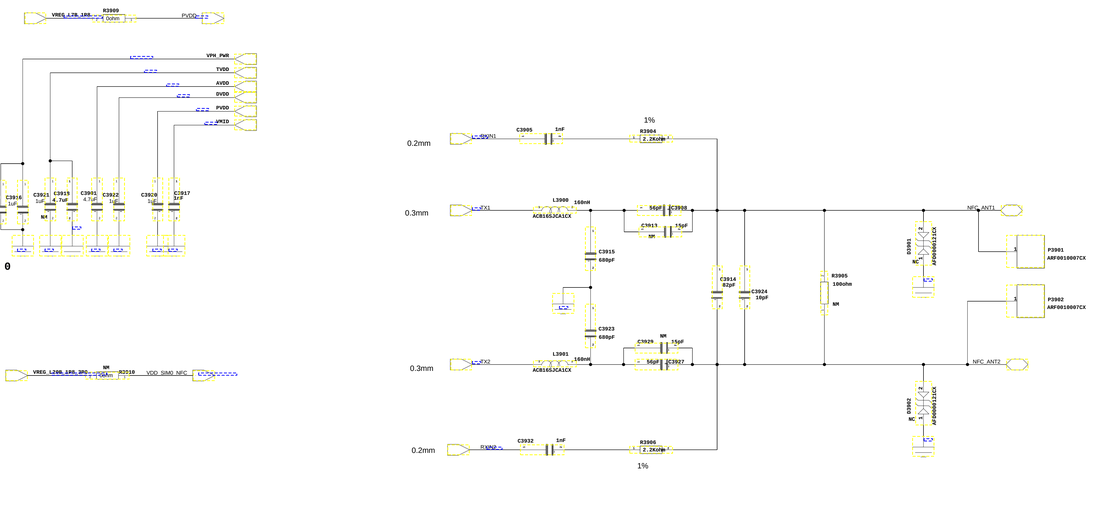


Tray	Detect_SWITCH
pull out	GND
inserted	open

Zebra Confidential

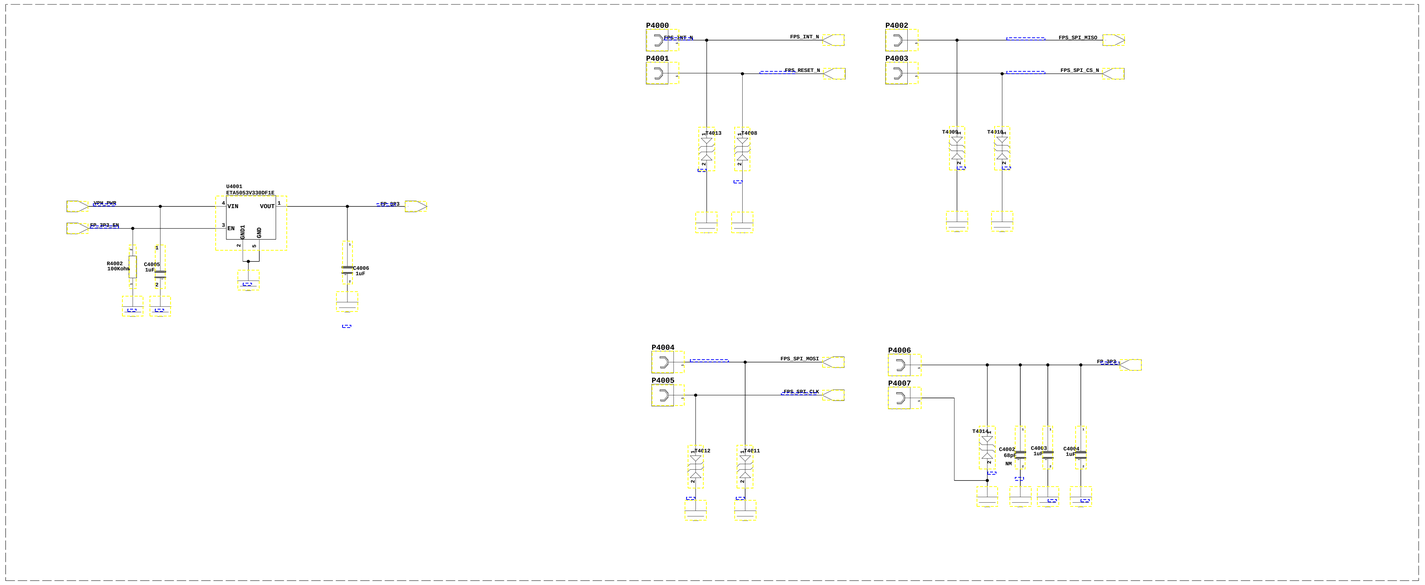
Project name	Panther
Revision	Rev1.0
Function	BTB_SIM_T-card
Page number	Page 33 of 58


PVDD
C3900=100pF if CLK <0.7PVDD
C3900=0 ohm if CLK 1.8V
R3907
10KohM
NM
C3930
27pF
U3902
S3MN64VX
FSNK_CLK7 (div-NFC)
NFC_PD
NFC_I2C_SCL
NFC_I2C_SDA
NFC_EN
NFC_IRQ
NFC_CLK_REQ
XI
XO
NFCPD
IFRX0
IFRX1
IFTX0
IFTX1
TX1
TX2
RXIN1
RXIN2
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
NC1
NC2
NC3
NC4
NC5
NC6
NC7
NC8
NC9
NC10
NC11
C3929
27pF
C3928
27pF
TP3902
TP3903
R3911
10Kohm
NM
VBAT1
VBAT2
VBAT3
TVDDI
TVDDO
AVDD
PLLVDD
DVDD
DVDD_PLL
PVDD1
PVDD2
VMID
SIMVDD1_EXT
SIMVDD2_EXT
SIMVDD2_EXT2
SIMVDD3_EXT
SIMVDD1
SWIO1
SIMVDD2
SWIO2
SIMVDD3
SWIO3
VSSPD1
VSSPD2
VSSPD3
AVSS
PLLVSS
TVSS
TST
VPH_PWR
0.3mm
TVDD
2.8V
0.3mm
AVDD
1.8V
0.25mm
DVDD
1.2V
0.25mm
PVDD
1.8V
0.25mm
VMID
0.9V
VDEG_L28_1P8_3P0
SIM 0
R3912
0ohm
VDD_SIM0_NFC
0.25mm
C3933
22pF
NM
C3912
1uF
NM
VDEG_L28_1P8_3P0
R3910
0ohm
VDD_SIM0_NFC
AMB0001927CK


R3909
0ohm
VREG_L28_1P8_3P0
PVDD
VPH_PWR
TVDD
AVDD
DVDD
PVDD
VMID
C3909
1uF
NM
C3916
1uF
C3921
1uF
C3915
4.7uF
NM
C3991
4.7uF
C3922
1uF
C3920
1uF
C3917
1uF

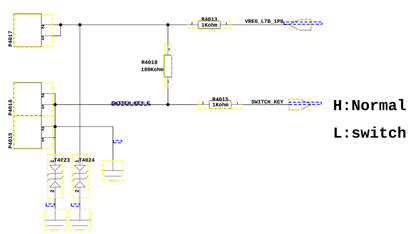
1%
0.2mm
0.3mm
0.3mm
0.2mm
1%
RXIN1
C3905
1nF
R3904
2.2Kohm
RFX1
L3900
160nH
ACB1653C41CX
RFX2
L3901
160nH
ACB1653C41CX
56pF
C3908
C3915
68pF
NM
C3915
15pF
NM
C3923
68pF
C3929
NM
15pF
56pF
2C3927
C3914
82pF
C3924
18pF
R3905
100ohm
NM
NFC_ANT1
NFC_ANT2
P3901
ARF0010007CX
P3902
ARF0010007CX
R3901
NC
R3902
NC
AMB0001121CX
AMB0001121CX
RXIN2
C3932
1nF
R3906
2.2Kohm

FP



KEY

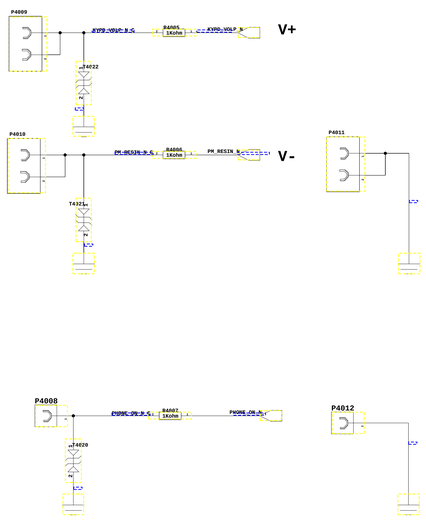
SWITCH



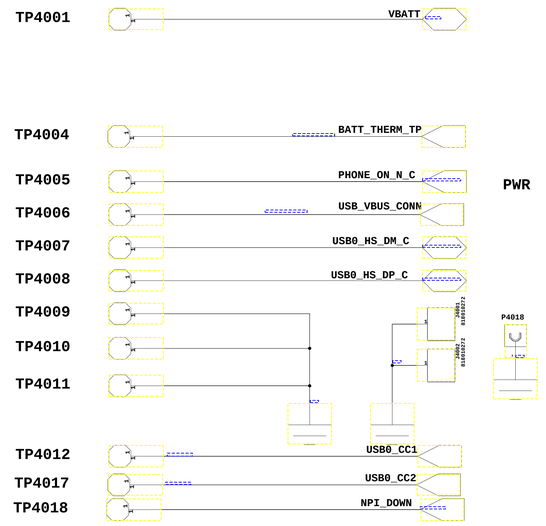
H:Normal

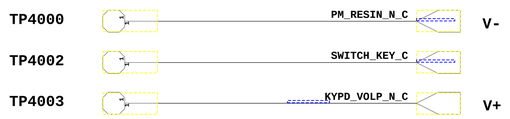
L:switch

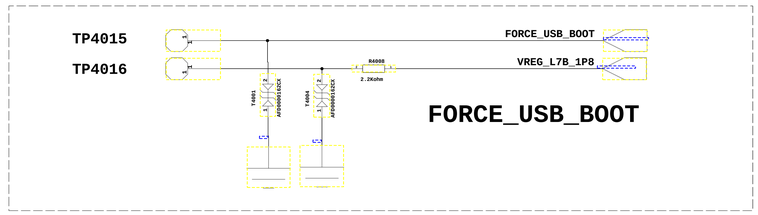
sidekey

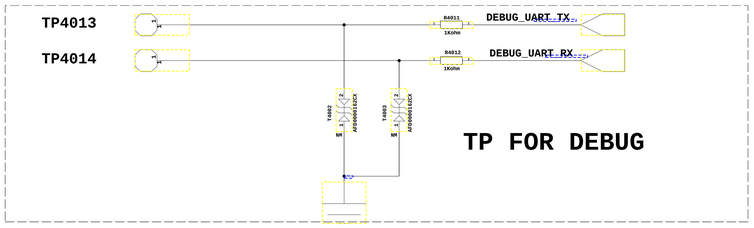


TP FOR NPI TEAM

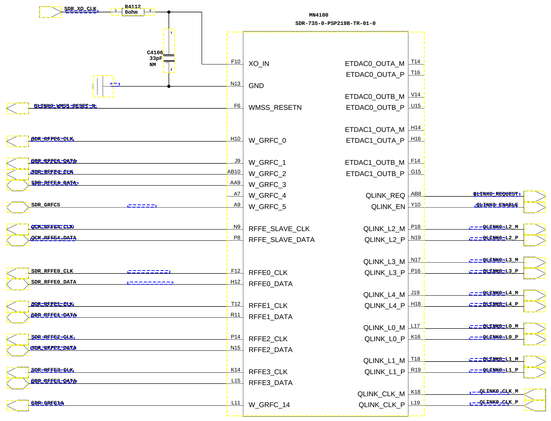




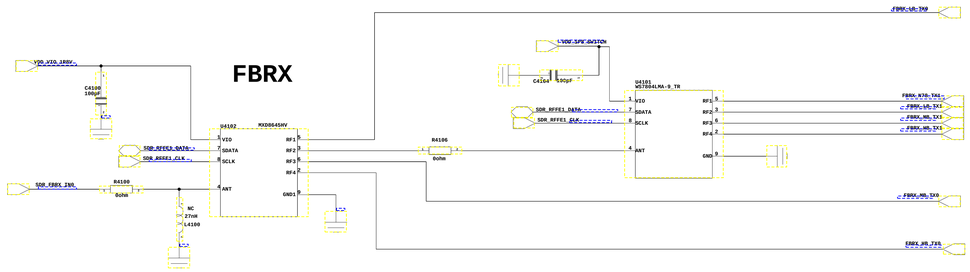


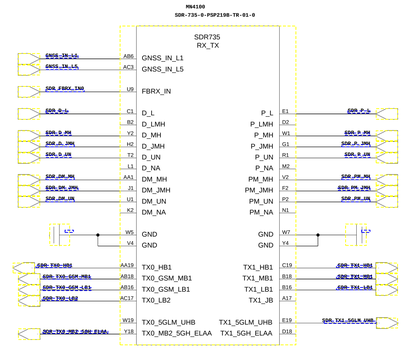


SDR735 CONTROL



FBRX





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
		VDDAM_RX0	U5
		VDDAM_RX1	L5
		VDDAM_RX2	E5
Y8	GND		
K10	VDDAL_DIG0		
A11	VDDAL_DIG_1	VDDAM_RX_0	A3
AC11	VDDAL_DIG_2	VDDAM_RX_1	AB2
E9	VDDAL_DIG_XO		
		VDDAM_TX0_1	AB12
AA5	VDDAL_GPS_L1	VDDAM_TX1_1	B12
AB4	VDDAL_GPS_L5		
		VDDAM_TX0	AB14
N7	VDDAL_ICON	VDDAM_TX1	B14
		VDDAM_XO	D10
U7	VDDAL_RX0		
L7	VDDAL_RX1	VDDAH_0	AC7
E7	VDDAL_RX2		
		VDDAH_FBRX	U11
B6	VDDAL_RX	VDDAH_1	L9
AC13	VDDAL_TX0_1		
A13	VDDAL_TX1_1	VDDAH_TX0	V18
		VDDAH_TX1	F18
AC15	VDDAL_TX0	VDDAH_TX0_1	U13
A15	VDDAL_TX1	VDDAH_TX1_1	G13

VREG_L1F_0P8, 681mA
VDD_PHY_MX_0P875V, 152mA
VDD_PX_1P85V, 261mA
VREG_L2F_0P8, 645mA
VREG_L7E_1P8, 1318mA
VDD_AM_1P8, 186mA

C4200 4.7uF
C4201 100nF
C4202 4.7uF
C4203 4.7uF
C4204 100nF
NM
C4206 100nF
C4207 100nF
C4208 4.7uF
C4209 100nF
C4210 680nF
C4211 680nF
C4212 680nF
C4213 680nF
C4214 680nF
C4216 100nF
C4217 100nF
C4218 4.7uF
C4219 100nF
C4220 680nF
C4221 680nF
C4225 100nF
C4226 100nF
C4227 680nF
C4228 680nF
C4229 680nF
C4230 680nF
C4233 4.7uF
C4234 100nF
C4235 680nF
C4236 680nF
C4238 100nF
C4239 680nF
C4240 100nF
C4241 100nF
C4242 100nF
C4243 680nF
C4244 680nF
C4245 680nF

MN4100
SDR-735-0-PSP2198-TR-01-0

SDR735
GND1

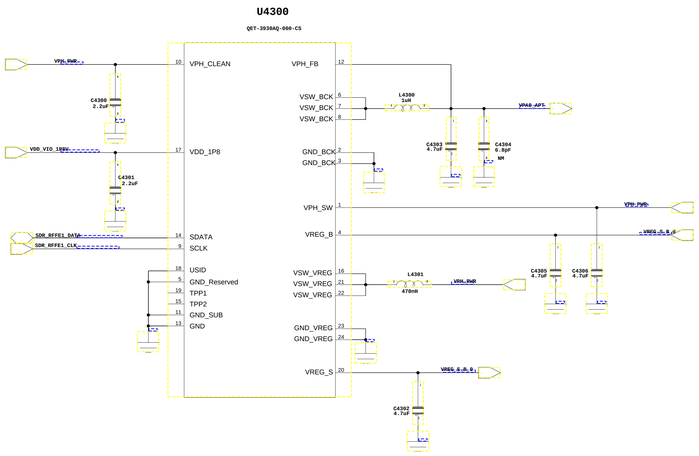
G8	GND	C9	GND
G11	GND	H8	GND
		T8	GND
		W9	GND
V16	GND		
F16	GND	E11	GND
		J13	GND
F8	GND	J17	GND
		M16	GND
		P10	GND
A1	GND	R17	GND
A16	GND		
AC1	GND	V12	GND
AC19	GND	W11	GND
		AA7	GND
R7	GND		
J7	GND	M10	GND
C7	GND		
AA11	GND	J11	GND
C11	GND	J15	GND
		R15	GND
K6	GND	R13	GND
D6	GND		
		U17	GND
V6	GND	G17	GND
AA3	GND		
		M8	GND
		R5	GND
D12	GND	W13	GND
		J5	GND
		C5	GND
		E13	GND

MN4100
SDR-735-0-PSP2198-TR-01-0

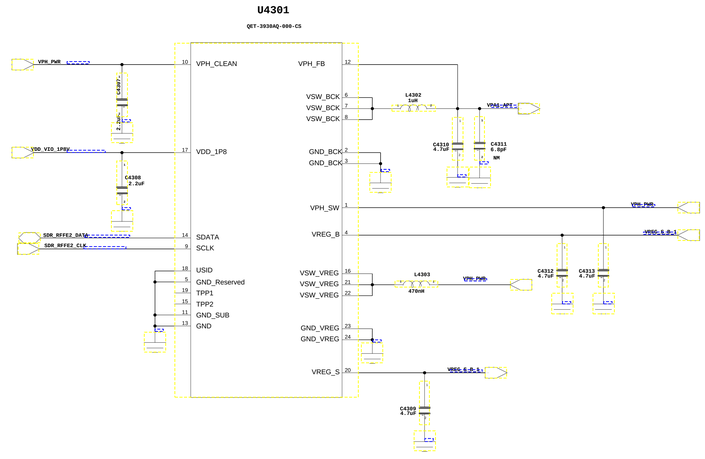
SDR735
GND2

R9	GND	C3	GND
		E3	GND
B4	GND	T4	GND
AA13	GND	K4	GND
N3	GND	D4	GND
W3	GND		
U19	GND	G3	GND
G19	GND	H4	GND
AC5	GND		
B8	GND	F4	GND
		G5	GND
V10	GND	R3	GND
		U3	GND
K8	GND		
V8	GND	J3	GND
		L3	GND
AA17	GND	M4	GND
Y16	GND	P4	GND
C17	GND		
D16	GND	T6	GND
		Y12	GND
W15	GND		
E15	GND	C15	GND
AA15	GND		
D8	GND		
N5	GND		
V6	GND	C13	GND
G7	GND		
M6	GND		
W17	GND		
Y14	GND		
D14	GND		
E17	GND		

5G QET3930 CH0



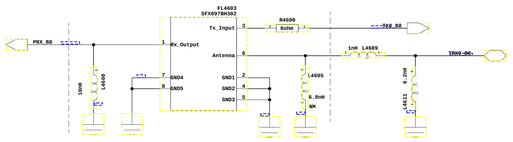
5G QET3930 CH1



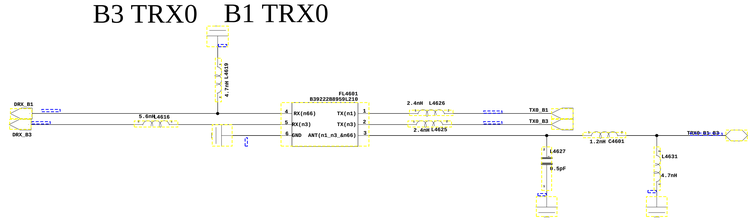
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R4400
0ohm
L4405
10nH
NM
C4407
0.8pF
NM
FL4401
SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
R4401
0ohm
R4402
0ohm
L4409
22nH
NM
FL4405
RFBFLPF1005000MHT1T0
Output
GND2
Input
NC2
GND1
NC1
R4403
0ohm
C4406
0.5pF
R4405
0ohm
R4406
300ohm
NM
R4407
300ohm
NM
RFBX_LB_TX0_
VDD_VIO_1P8V
SDR_RFFE3_CLK
SDR_RFFE3_DATA
MA4403
GND
VIO
SCLK
ANT
SDATA
RF1
RF2
RF3
RF4
MXD86A7_DS
RF10
RF9
RF8
RF7
RF5
RF6
C4405
10pF
NM
C4404
10pF
NM
C4402
100pF
TRX0_B8
TRX0_B12
TRX0_B20
TRX0_B71
ANT_MB_TRX0_
10nF
C4426
VDD_1P8_SWITCH
R4408
0ohm
MA4404
MXD8625CV
VDD
ANT
GND
VC
RF1
RF2
RF3
RF4
SDR_GRFC5
L4404
10nH
NM
C4421
100pF
B2_B4_GRX_
NC
27nH
L4425
FL4407
RFLPF1005040GM1T9
Output
GND2
Input
NC2
GND1
NC1
C4422
22pF
FL4409
SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
TRX0_B1_B3_
R4428
0ohm
R4409
0ohm
R4411
300ohm
NM
L4408
2.7nH
L4415
2.7nH
R4410
300ohm
NM
0.0nH
L4410
C4408
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FBRX_MB_TX0_
VDD_VIO_1P8V
SDR_RFFE2_DATA
SDR_RFFE2_CLK
100pF
C4409
MA4401
WS7304LMA-9_TR
VIO
SDATA
SCLK
ANT
RF1
RF2
RF3
RF4
GND
TRX1_B4_B66_
TRX1_B2_B25_
TRX1_B1_B3_
L4419
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FL4406
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OUT
IN
GND_2
GND_1
PA_OUT_DSM_MB
ANT_MB_TRX1_
R4412
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L4406
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NM
C4412
0.8pF
NM
FL4402
SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
R4427
0ohm
1.8nH
L4413
22nH
NM
R4413
L4417
22nH
NM
R4414
0ohm
R4416
300ohm
NM
R4415
300ohm
NM
L4411
2.7nH
L4416
2.7nH
0.0nH
L4414
C4413
0.75pF
FBRX_MB_TX1_
ANT_MB_TRX2_
2.7nH
R4417
L4403
10nH
NM
C4414
0.8pF
NM
N41-SRS
C4415
10pF
VDD_VIO_1P8V
MXD8645HV
MA4405
VIO
SDATA
SCLK
ANT
RF1
RF2
RF3
RF4
GND1
SDR_RFFE2_DATA
SDR_RFFE3_CLK
N41_SRS_DRX_
N41_SRS_PRXM_MB
N41_SRS_PRXM_MB
0ohm
R4418
0ohm
R4429
L4400
10nH
L4401
10nH
L4402
22nH
NM
FL4403
SLCP18-2R700G-01T
MainOUT
Termination
GND1
IN
CoupledOUT
GND2
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0ohm
R4421
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NM
L4418
22nH
NM
R4423
0ohm
L4423
2.7nH
L4424
2.7nH
R4425
300ohm
NM
R4424
300ohm
NM
0.0nH
L4424
C4423
0.75pF
FBRX_MB_TX2_
MA4402
QM12154
VIO
SDATA
SCLK
RFCOM
GND
RF1
RF2
RF3
RF4
C4416
1nF
C4417
10pF
C4418
10pF
NM
VDD_VIO_1P8V
SDR_RFFE2_DATA
SDR_RFFE2_CLK
TRX1_B32
TRX1_B66
TRX1_B2

DRX_B40
R4502 0ohm
L4525 10nH NM
DRX_B41
R4512 0ohm
L4520 10nH NM
SDR_TX0_HB1
C4524 33pF
C4523 100pF NM
C4525 100pF NM
SDR_RFFE1_DATA
SDR_RFFE1_CLK
NM 100pF C4528
NM 100pF C4529
VDD_VIO_1P8V
C4508 100nF
C4507 100pF NM
VPH_PWR
C4527 100nF
C4503 1uF
C4504 100pF NM
SDR_TX0_HB2_5GHLBAA
C4519 100pF NM
C4511 100pF NM
SDR_TX0_LB3
R4506 0ohm
C4512 100pF NM
C4513 100pF NM
U4500 555643-51
GND1 1
GND2 2
RFIN_H 3
NC1 4
SDATA 5
SCLK 6
VIO 7
VBATT 8
NC2 9
NC3 10
NC4 11
RFIN_M 12
RFIN_L1 13
RFIN_L2 14
GND4 15
HB4 16
LB3 17
LB2 18
LB1 19
HB1 20
TX_GND 21
HB4 52
HB3 51
GND11 49
HB2 39
GND12 38
HB1 37
GND11 36
HB2 35
GND10 34
HB1 33
HB5 32
GND9 31
VCC2 30
VCC1 29
VCC2_2 28
GND8 27
HB4 26
HB3 25
GND7 24
HB2 23
GND6 22
C4502 0.2pF
C4501 100pF
C4500 1uF
VPA0_APT
R4513 1.0nH
L4521 10nH NM
L4522 10nH NM
TRX0_B41
R4514 0ohm
L4523 10nH NM
L4524 10nH NM
TRX0_B40
R4511 0ohm
L4518 10nH NM
L4519 5.6nH
TX0_B7
R4500 0ohm
L4500 10nH NM
L4501 10nH NM
TX0_B1
R4501 0ohm
L4502 10nH NM
L4503 10nH NM
TX0_B3
R4504 1.5nH
C4506 2pF NM
1.8pF L4507 NM
TX0_B5_B26
R4505 0ohm
L4508 10nH NM
L4509 10nH NM
TX0_B28
R4508 0ohm
L4512 10nH NM
L4513 10nH NM
TX0_B20
8pF R4507
L4510 1.8pF NM
L4511 10nH
TX0_B12
R4503 10nH
C4505 2.4pF
L4506 1.8pF NM
TX0_B8
VPH_PWR
VPA0_APT
C4516 1uF
C4517 100nF
C4514 1uF
C4515 100nF
VDD_VIO_1P8V
C4518 100nF
SDR_RFFE0_CLK
SDR_RFFE0_DATA
SDR_TX0_GSM_HB1
R4510 0ohm
C4519 100pF NM
C4563 100pF NM
SDR_TX0_GSM_LB1
C4521 100pF
C4522 100pF NM
C4561 100pF NM
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U4501
VBATT 4
VIO 10
SCLK 3
SDATA 1
HB_RF_IN 2
LB_RF_IN 5
GND1 6
GND2 9
GND3 11
PAD 13
HB_RF_OUT 12
LB_RF_OUT 7
R4509 0ohm
L4514 10nH NM
L4515 10nH NM
PA_OUT_GSM_HB
L4516 4.3nH
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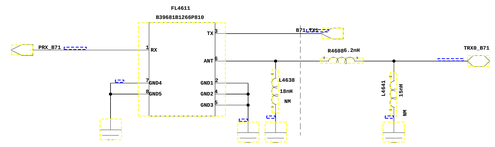
B8 TRX



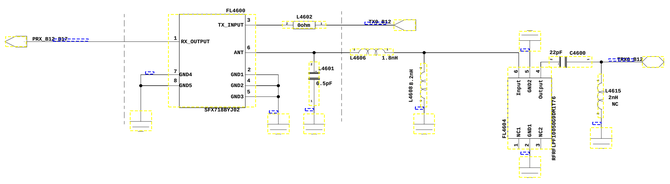
B3 TRX0 B1 TRX0



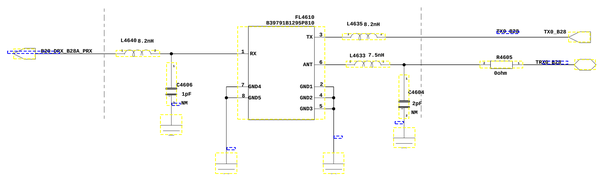
B71 TRX



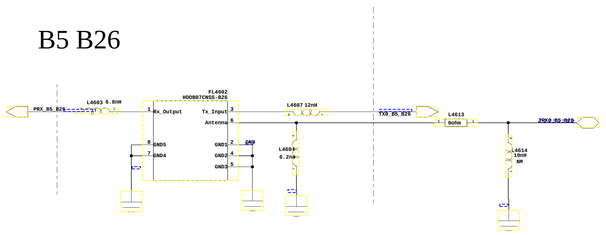
B12 TRX



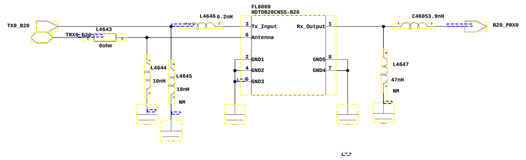
B28 TRX0 B20 DRX1



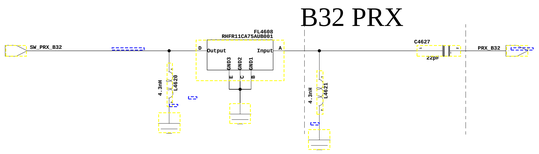
B5 B26



B20



B32 PRX



B41 TRX

B40 TRX

B7 TRX

B4/66 TRX

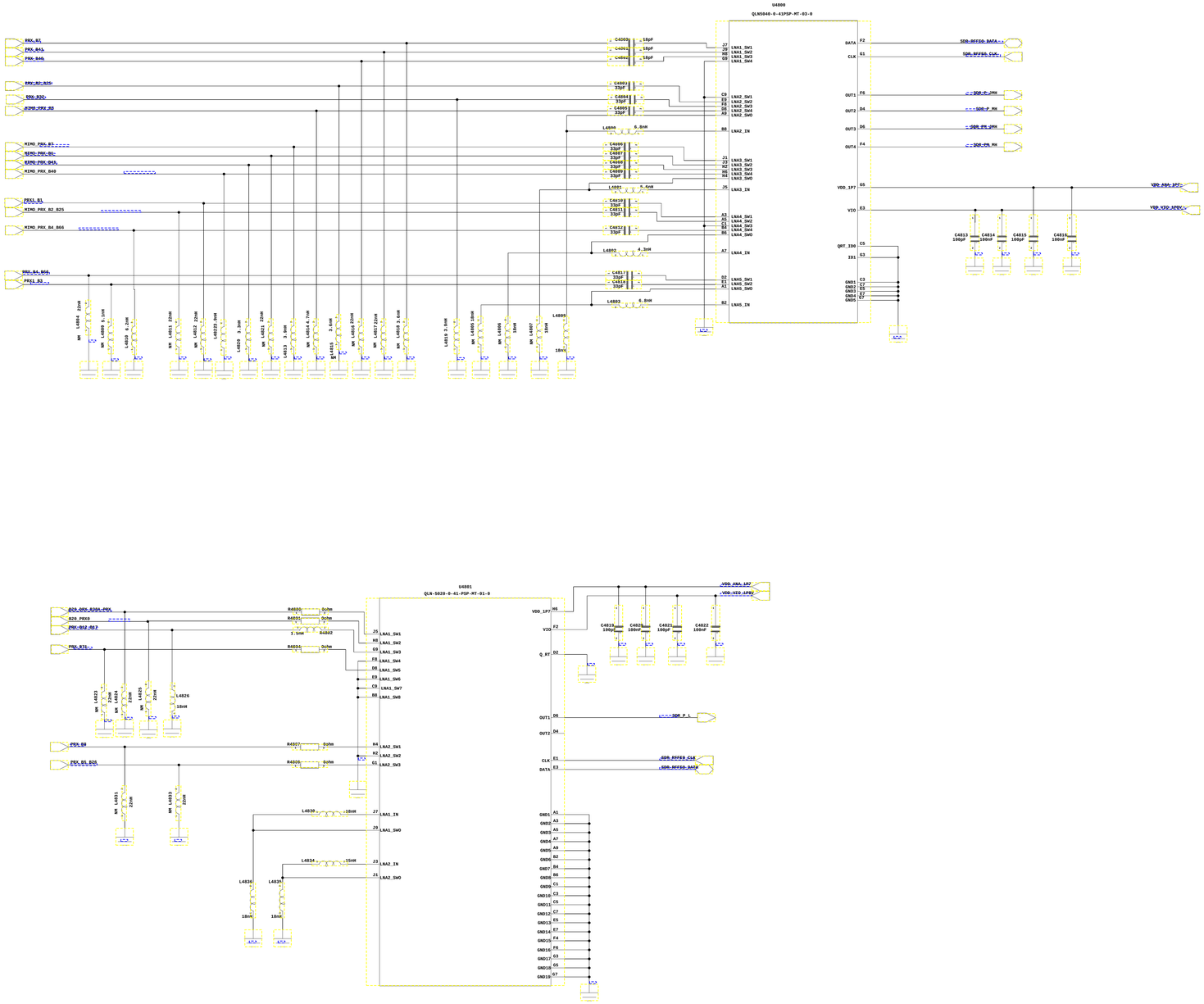
B2/25 TRX

B1 TRX

B3 TRX

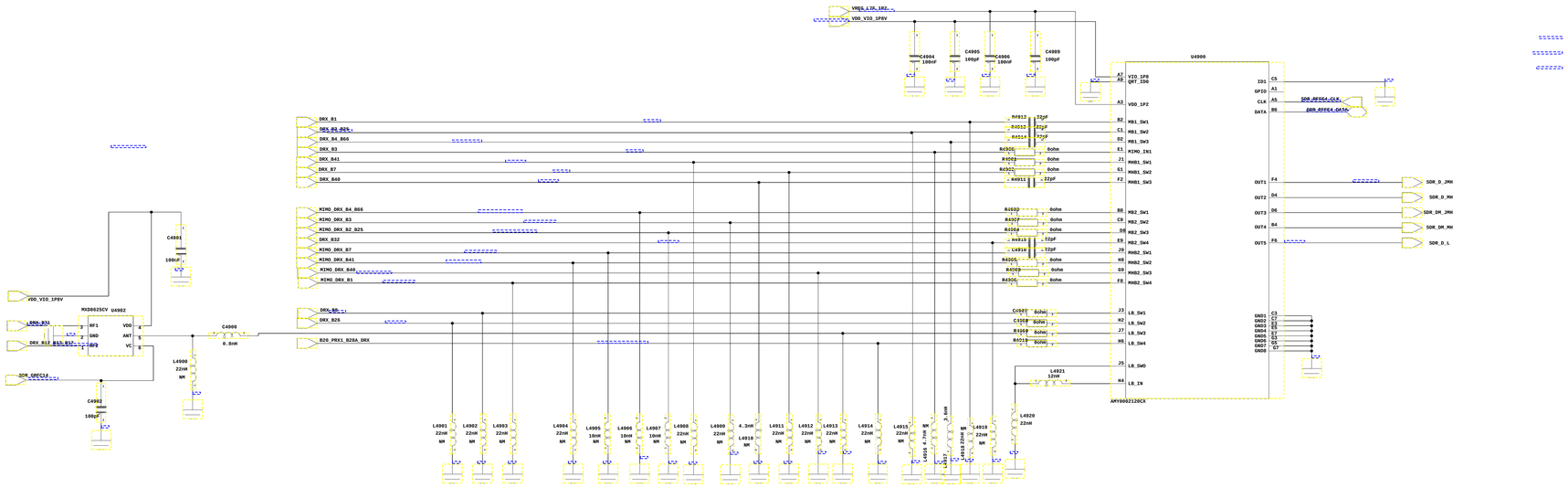
B1

ENDC_EU_B20


U4800
QLN5040-0-41PSP-MT-03-0
PRX_B7_
PRX_B41_
PRX_B40_
PRX_B7_B25_
SDR_RXIQ_
MIMO_PRX_B3
MIMO_PRX_B7
MIMO_PRX_B1_
MIMO_PRX_B41_
MIMO_PRX_B40
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MIMO_PRX_B2_B25
MIMO_PRX_B4_B66
PRX_B4_B66_
PRX1_B3_
L4804 22nH
L4809 5.1nH
L4810 6.2nH
L4811 22nH
L4812 22nH
L4823 8nH
L4820 3.3nH
L4821 22nH
L4813 3.9nH
L4814 4.7nH
L4815 3.6nH
L4816 22nH
L4817 22nH
L4818 3.6nH
L4819 3.3nH
L4806 8nH
L4807 3.9nH
L4808 18nH
L4809 18nH
C4803 33pF
C4804 33pF
C4805 33pF
C4806 33pF
C4807 33pF
C4808 33pF
C4809 33pF
C4810 33pF
C4811 33pF
C4812 33pF
C4817 33pF
C4818 33pF
C4000 18pF
C4001 18pF
C4002 18pF
L4804 0.8nH
L4805 5.6nH
L4802 4.3nH
L4803 6.8nH
LNA1_SW1
LNA1_SW2
LNA1_SW3
LNA1_SW4
LNA2_SW1
LNA2_SW2
LNA2_SW3
LNA2_SW4
LNA2_SWO
LNA2_IN
LNA3_SW1
LNA3_SW2
LNA3_SW3
LNA3_SW4
LNA3_SWO
LNA3_IN
LNA4_SW1
LNA4_SW2
LNA4_SW3
LNA4_SW4
LNA4_SWO
LNA4_IN
LNA5_SW1
LNA5_SW2
LNA5_SWO
LNA5_IN
DATA
CLK
OUT1
OUT2
OUT3
OUT4
VDD_1P7
VIO
Q_RT
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND18
GND19
SDR_RFFE0_DATA
SDR_RFFE0_CLK
SDR_P_MH
SDR_P_1
VDD_ANA_1P7
VDD_VIO_1P8
C4813 100pF
C4814 100nF
C4815 100pF
C4816 100nF

U4801
QLN-5020-0-41-PSP-MT-01-0
B20_ORX_B20A_P0X
B20_PRX0
PRX_B32_B32
PRX_B7_
PRX_B8
PRX_B5_B26
R4820 0ohm
R4821 0ohm
1.5nH
R4822
R4824 0ohm
R4827 0ohm
R4828 0ohm
L4823 22nH
L4824 22nH
L4825 22nH
L4826 18nH
L4831 22nH
L4833 22nH
L4830 18nH
L4834 15nH
L4835 18nH
L4836 18nH
LNA1_SW1
LNA1_SW2
LNA1_SW3
LNA1_SW4
LNA1_SW5
LNA1_SW6
LNA1_SW7
LNA1_SW8
LNA2_SW1
LNA2_SW2
LNA2_SW3
LNA2_IN
LNA1_IN
LNA1_SWO
LNA2_IN
LNA2_SWO
VDD_1P7
VIO
Q_RT
OUT1
OUT2
CLK
DATA
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND18
GND19
VDD_ANA_1P7
VDD_VIO_1P8V
C4819 100pF
C4820 100nF
C4821 100pF
C4822 100nF
SDR_P_1
SDR_RFFE0_CLK
SDR_RFFE0_DATA

QLN5030 DRX


VDD_VIO_1P8V
C4901
100nF
VDD_VIO_1P8V
KKD0625CV U4902
DRX_B24
DRX_B12_B15_B17
SDR_GREG18
C4902
100pF
RF1
GND
RF2
VDD
ANT
VC
C4900
0.0nH
L4900
22nH
NM
VDD_LIN_1R2_
VDD_VIO_1P8V
C4904
100nF
C4905
100pF
C4906
100nF
C4909
100pF
U4900
VIO_1P8
QNT_IO0
VDD_1P2
RB1_SW1
RB1_SW2
RB1_SW3
MIMO_IN1
RNB1_SW1
RNB1_SW2
RNB1_SW3
RB2_SW1
RB2_SW2
RB2_SW3
RB2_SW4
RNB2_SW1
RNB2_SW2
RNB2_SW3
RNB2_SW4
LB_SW1
LB_SW2
LB_SW3
LB_SW4
LB_SW5
LB_IN
AMY0602120CK
IO1
GPIO
CLK
DATA
SDR_RFFE4_CLK
SDR_RFFE4_DATA
OUT1
OUT2
OUT3
OUT4
OUT5
SDR_D_2MM
SDR_D_MM
SDR_DM_2MM
SDR_DM_MM
SDR_D_L
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
DRX_B1
DRX_B3_B25_
DRX_B4_B66
DRX_B3
DRX_B41
DRX_B7
DRX_B40
MIMO_DRX_B4_B66
MIMO_DRX_B3
MIMO_DRX_B2_B25
DRX_B32
MIMO_DRX_B7
MIMO_DRX_B41
MIMO_DRX_B40
MIMO_DRX_B1
DRX_B5_
DRX_B26
B20_PRX1_B28A_DRX
R4913 22pF
R4913 22pF
R4914 22pF
R4906 0ohm
R4904 0ohm
R4903 0ohm
R4911 22pF
R4908 0ohm
R4907 0ohm
R4904 0ohm
R4910 22pF
R4915 22pF
R4905 0ohm
R4909 0ohm
R4902 0ohm
C4907 0ohm
C4908 0ohm
R4909 0ohm
R4912 0ohm
L4921
12nH
L4901
22nH
NM
L4902
22nH
NM
L4903
22nH
NM
L4904
22nH
NM
L4905
10nH
NM
L4906
10nH
NM
L4907
10nH
NM
L4908
22nH
NM
L4909
4.3nH
L4910
NM
L4911
22nH
NM
L4912
22nH
NM
L4913
22nH
NM
L4914
22nH
NM
L4915
22nH
NM
L4916 4.7nH
L4917
0.6nH
L4918 12nH
L4919
22nH
NM
L4920
22nH

B40 TRX0

N41 SRS_DRX

B41 TRX0

TRX0 B7

MIMO PRX B40

N41 SRS_PRXMIMO

MIMO PRX B41

MIMO PRX B7

B32 DRX

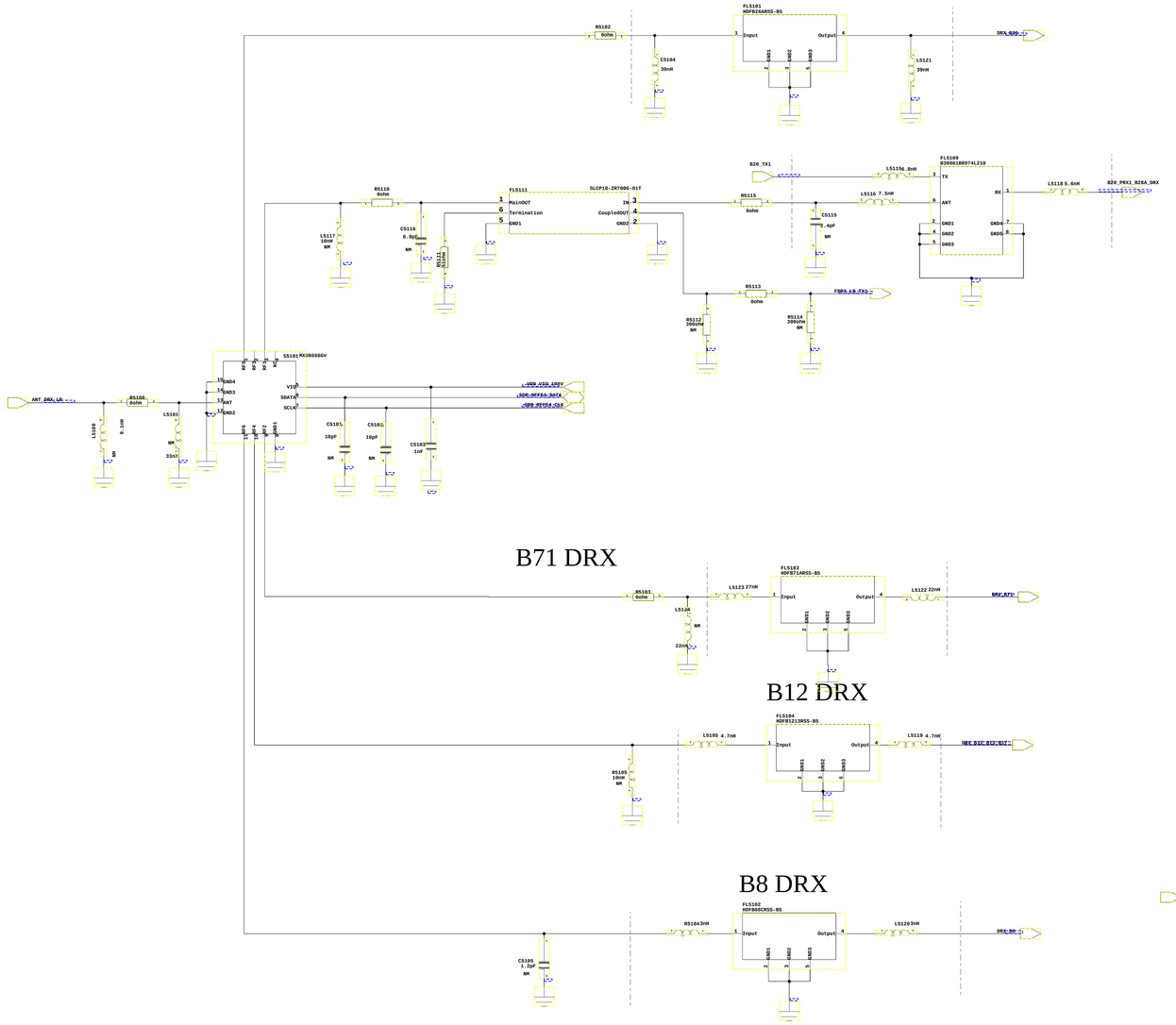
B1/3-DRX-MIMO

B25/66-DRX-MIMO

B1/3-PRX-MIMO

B25/66-PRX-MIMO

B26 DRX

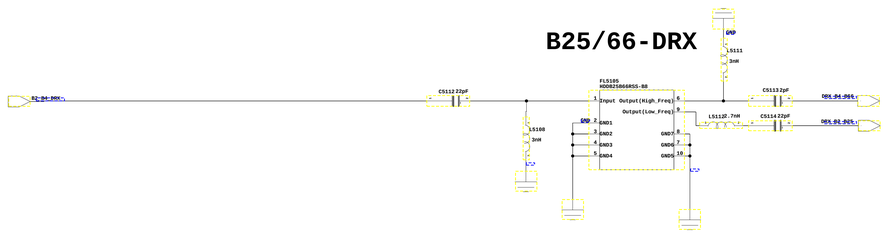


B71 DRX

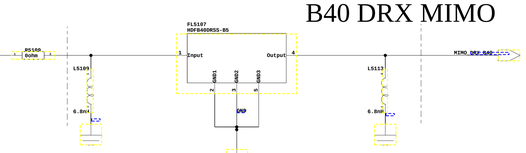
B12 DRX

B8 DRX

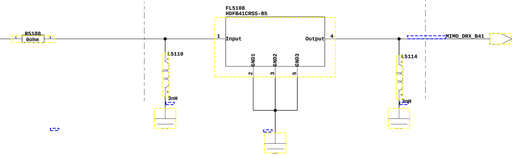
B25/66-DRX



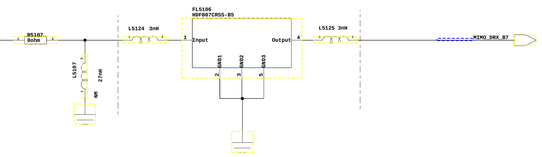
B40 DRX MIMO

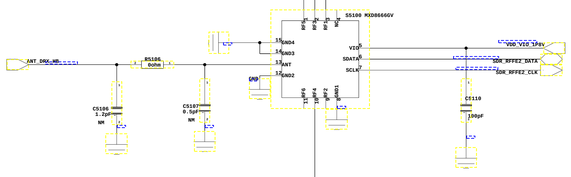


B41 DRX MIMO



B7 DRX MIMO

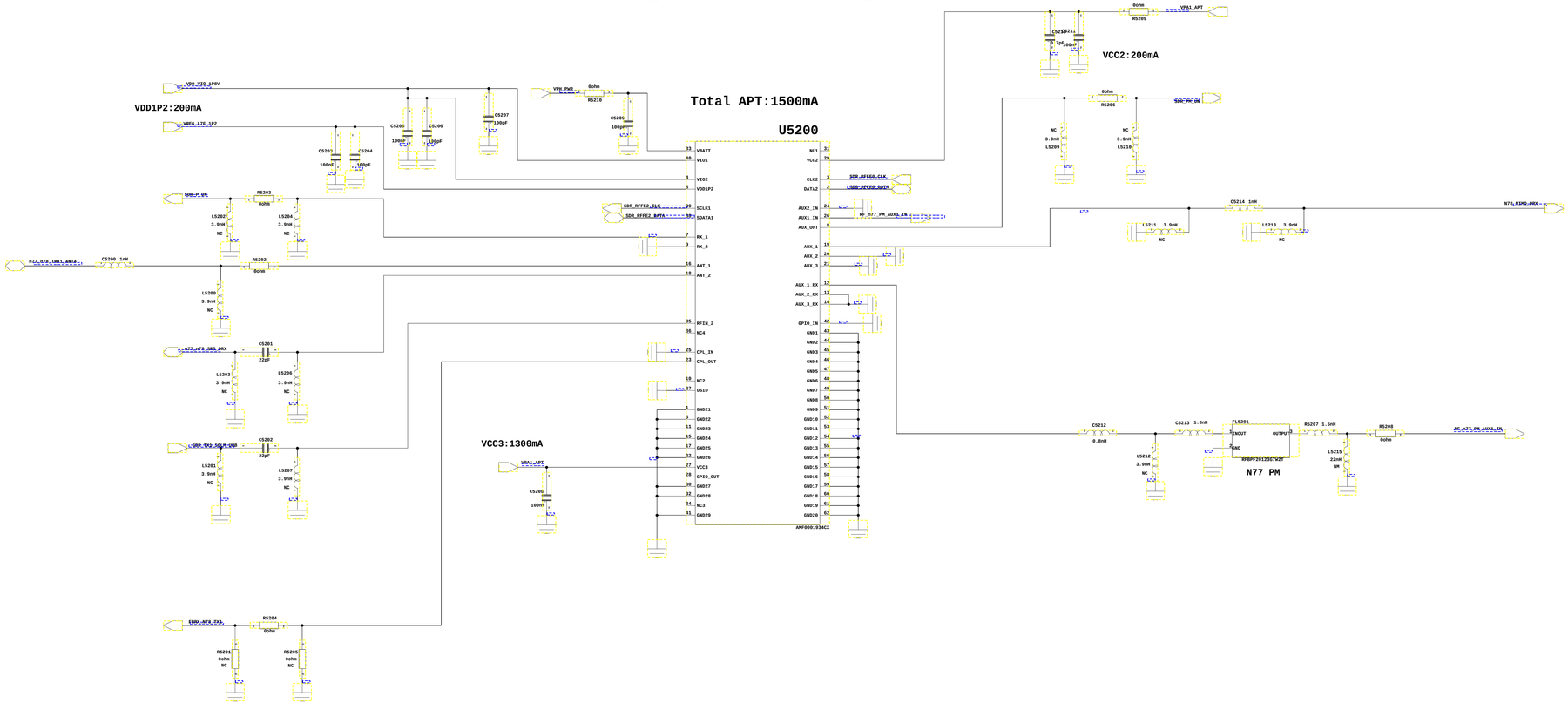




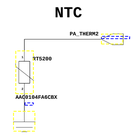
N41 SRS_DRX MIMO

N41_SRS_DRXMIMO

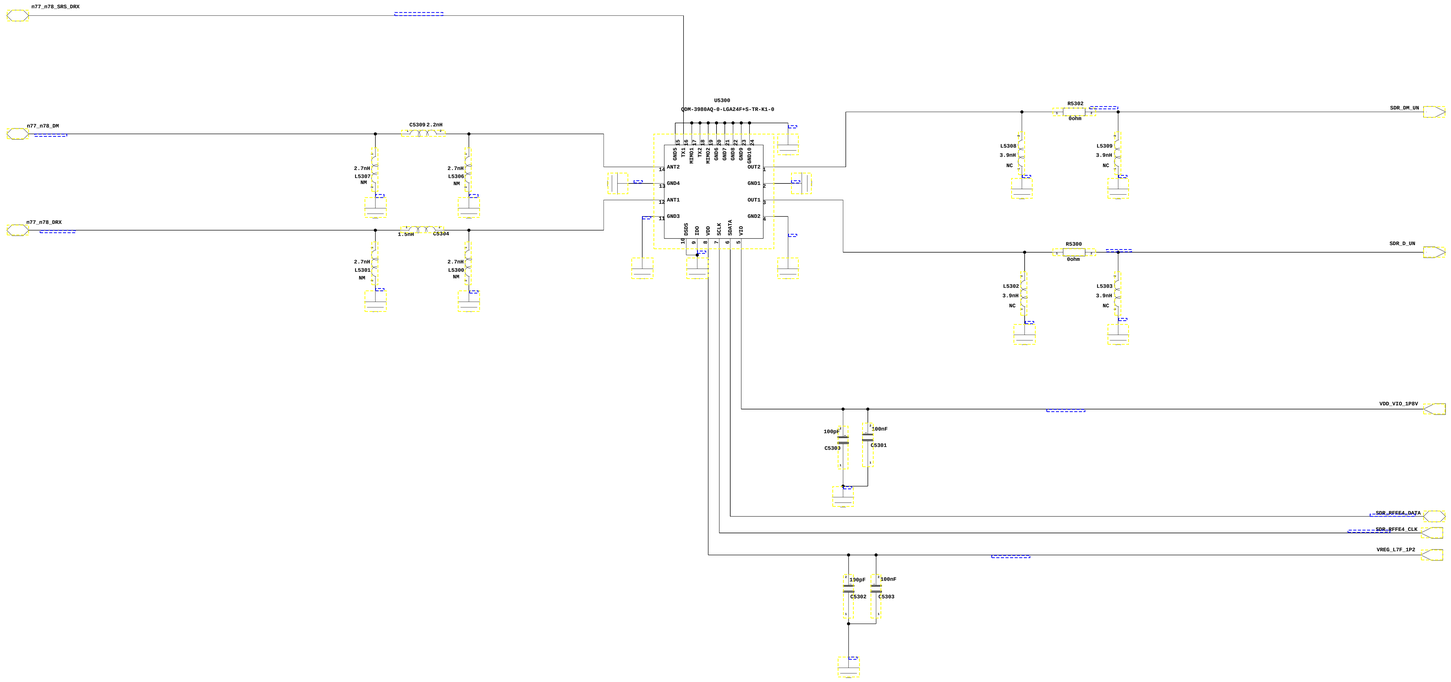
QPM2980AQ #1


VDD1P2:200mA
Total APT:1500mA
U5200
VCC2:200mA
VCC3:1300mA
N77 PM
VDD_VIO_1P8V
VREG_LFE_LP2
VPA_PWR
0ohm
RS210
C5205
100nF
C5206
100nF
C5207
100pF
C5208
100nF
C5209
100nF
C5204
100nF
SDR_M_ON
RS203
0ohm
L5202
3.9nH
NC
L5204
3.9nH
NC
n17_n78_TRX1_ANT4_1
C5200 1nH
RS202
0ohm
L5205
3.9nH
NC
n77_n78_SDR_DRX
C5201
22pF
L5203
3.9nH
NC
L5206
3.9nH
NC
SDR_TX1_SDR_M_ON
C5202
22pF
L5201
3.9nH
NC
L5207
3.9nH
NC
SDR_RFFE2_CLK
SDR_RFFE2_DATA
VBATT
VIO1
VIO2
VDD1P2
SCLK1
SDATA1
RX_1
RX_2
ANT_1
ANT_2
RFIN_2
NC4
CPL_IN
CPL_OUT
NC2
VSID
GND21
GND22
GND23
GND24
GND25
GND26
VCC3
GPIO_OUT
GND27
GND28
NC3
GND29
NC1
VCC2
CLK2
DATA2
AUX2_IN
AUX1_IN
AUX_OUT
AUX_1
AUX_2
AUX_3
AUX_3_RX
AUX_2_RX
AUX_1_RX
GPIO_IN
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND18
GND19
GND20
AMF000193HCX
SDR_RFFE2_CLK
SDR_RFFE2_DATA
RF_N77_PM_AUX1_IN
VPA1_APT
RS209
C5210
100pF
C5211
1.8pF
SDR_PC_ON
RS206
NC
3.9nH
L5209
NC
3.9nH
L5210
C5214 1nH
N78_M1MO_PRX
L5211 3.9nH
NC
L5213 3.9nH
NC
C5212
0.8nH
C5213 1.8nH
L5212
3.9nH
NC
FL5201
INOUT
GND
OUTPUT
RFBPF201233CYGT
RS207 1.5nH
RS208
0ohm
L5215
22nH
NM
RF_n27_PM_AUX1_IN

EBRX_N78_TX1
RS204
0ohm
RS201
0ohm
NC
RS205
0ohm
NC


NTC
PA_THERM2
NTS200
AAQS104FA6CBX

QDM3980AQ


n77_n78_SRS_DRX
n77_n78_DM
n77_n78_DRX
C5309 2.2nH
2.7nH
LS307
NM
2.7nH
LS306
NM
1.5nH
C5304
2.7nH
LS301
NM
2.7nH
LS305
NM
U5300
QDM-3980AQ-0-LGA24F+S-TR-K1-0
PDM1_CLK
PDM1_DAT
PDM2_CLK
PDM2_DAT
GND7
GND8
GND9
GND10
ANT2
GND4
ANT1
GND3
PDM3
ISO
VDD
SCLK
SDATA
ISO
OUT2
GND1
OUT1
GND2
R5302
0ohm
LS308
3.9nH
NC
LS309
3.9nH
NC
SDR_DM_UN
R5300
0ohm
LS302
3.9nH
NC
LS303
3.9nH
NC
SDR_D_UN
VDD_VIO_1P8V
100pF
C5303
100nF
C5301
SDR_RFFE4_DAT4
SDR_RFFE4_CLK
VREG_L7F_1P2
150pF
C5302
100nF
C5303

50mA
VDD08_PMU_RFA_CMN
350mA
VDD08_PMU_RFA_0
star
200mA
200mA
200mA
200mA
200mA
200mA
200mA
400mA
VDD12_PMU_RFA_0
200mA
200mA
200mA
200mA
200mA
200mA
400mA
VDD17_PMU_RFA_0
200mA
200mA
200mA
200mA
200mA
200mA
200mA
1200mA
2.2V RFA
LAYOUT NOTE: VDD08_WLLPSYN5G NEEDS GOOD ISOLATION FROM THE OTHE REST OF THE POWER RAILS
VDD12_WLBBPLL NEEDS GOOD ISOLATION FROM BB(1.2V),VO/BTPA(1.7V), AND RX(0.8V)
VDD17_WLSYN5G_VCO NEEDS GOOD ISOLATION FROM FROM THE REST OF THE POWER RAILS
U5400
WCN6755
RFA_PWR_GND
VDD08_RFA_CMN0
VDD08_RFA_CMN1
VDD08_BTADDA_CH0
VDD08_BTADDA_CH1
VDD08_BTBB_CH0
VDD08_BTBB_CH1
VDD08_BTSYN_LO
VDD08_WLBTRX2G_CH0
VDD08_WLBTRX2G_CH1
VDD08_WLRX5G_CH0
VDD08_WLRX5G_CH1
VDD08_WLSYN2G_LOGEN
VDD08_WLSYN5G_LOGEN
VDD08_WLLPSYN5G
VDD12_RFA
VDD12_BTPLL
VDD12_BTSYN
VDD12_BTTXBB_CH0
VDD12_WLADDA_CH0
VDD12_WLADDA_CH1
VDD12_WLBB_CH0
VDD12_WLBB_CH1
VDD22_WLBTPPA_CH0
VDD22_WLBTPPA_CH1
VDD12_WLBBPLL
VDD12_WLSYN_PLL
VDD12_WLSYN2G_TXLO_CH1
VDD12_WLSYN5G_TXLO_CH0
VDD12_WLSYN5G_TXLO_CH1
VDD12_WLTPC2G
VDD17_WLBTPA_CH0
VDD17_WLBTPA_CH1
VDD17_WLBTPPA_CH0
VDD17_WLBTPPA_CH1
VDD17_WLTX5G_CH0
VDD17_WLTX5G_CH1
VDD17_WLSYN_VCO
VDD17_RFA
VDD17_XTAL
VDD22_WLBTPA_CH0
VDD22_WLBTPA_CH1
VDD22_WLPA5G_CH0
VDD22_WLPA5G_CH1
VDD22_WLPPA5G_CH0
VDD22_WLPPA5G_CH1
AMB0001994CK
GND_BTADDA_CH0
GND_BTADDA_CH1
GND_BTBB_CH0
GND_BTBB_CH1
GND_BTSYN
GND_WLRXGM2G_CH0
GND_WLRXGM2G_CH1
GND_WLRX5G_CH0
GND_WLRX5G_CH1
GND_WLXFMR5G_CH0
GND_WLXFMR5G_CH1
GND_WLTX5G_CH0
GND_WLTX5G_CH1
GND_WLADDA_CH0
GND_WLADDA_CH1
GND_WLBB_CH0
GND_WLBB_CH1
GND_WLBBPLL
GND_WLBTPA_CH0
GND_WLBTPA_CH1
GND_WLBTPPA_CH0
GND_WLBTPPA_CH1
GND_WLBTRX_CH0
GND_WLBTRX_CH1
GND_WLBTTX_CH0
GND_WLBTTX_CH1
GND_WLLPSYN5G
GND_WLPA5G_CH0
GND_WLPA5G_CH1
GND_WLPPA5G_CH0
GND_WLPPA5G_CH1
GND_WLSYN
GND_WLSYN2G_LOGEN
GND_WLSYN5G_LOGEN
GND_RFA_CMN0
GND_RFA_CMN1
GND_XTAL
GND_SR_0
GND_SR_1
GND_SR_2
GND_SR_3
GND_SR_TPC
GND_ISO_0
GND_ISO_WALL_0
GND_ISO_WALL_1
GND_ISO_WALL_2
GND_ISO_WALL_3
GND_ISO_WALL_4
ADC/DAC + BBPLL
GND_WLLPSYN5G
GND_XTAL
RF/BB: 2G,5G, BT
DIGITAL GND
U5401
PM3001A
PM3001A_MODE
VPH_PWR
PM3001A_EN
MODE
GND
VIN
VOUT
EN
SW
AMY0002980CX
1uH
LS401
C5440 10uF
C5441 10uF
C5442 10uF
C5443 10uF
C5444 10uF
C5445 10uF
C5446 10uF
C5447 10uF
C5448 10uF
C5449 10uF
C5450 10uF
C5451 100nF

U5400

WCN6755
RFA

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

AMB0001944CX

WLBT_RFTRX0_2G
WLBT_RFTRX1_2G
WL_RFRX_5G_CH0
WL_RFRX_5G_CH1
WL_RFPA0_5G
WL_RFPA1_5G
WLAN_BT_CLK
CSG84 1uF
X5005 37.4M

U5400

WCN6755
CTRL1

R19	SB_DATA(BT_I2S_0_SDI_GPIO)		
U15	SB_CLK(BT_I2S_0_SCK_GPIO)		
U5	MODE_0	UART_RXD_GPIO	T20
U7	MODE_1	UART_TXD_GPIO	P16
V16	COEX_RXD_GPIO	UART_CTS_GPIO	R17
U19	COEX_TXD_GPIO	UART_RTS_GPIO	T18
Y8	ATBH	CLK_REQ_OUT	W15
V18	SRST_N	SENS_RXD_GPIO	V20
AB18	TCK	SENS_TXD_GPIO	T19
W18	TDI		
AC19	TDO		
Y18	TMS		
W17	TRST_N		
U17	LF_CLK_IN_GPIO		

AMB0001944CX

WCN_BT_SLIMBUS_DATA
WCN_BT_SLIMBUS_CLK
WLAN_COEX_UART_TX
WLAN_COEX_UART_RX
X7 32.768K
PMK_SLEEP_CLK_1P8
WCN_BT_UART_TX
WCN_BT_UART_RX
WCN_BT_UART_RTS
WCN_BT_UART_CTS
WCN_BTLE_UART_TX
WCN_BTLE_UART_RX

BOOTSTRAPS

VREG_L7B_1P8

R5583	10kohm	NM
R5584	10kohm	NM
R5585	10kohm	NM

WL_UART_TX
WCN_WLAN2HOST_SOL
WL_GPIO_2

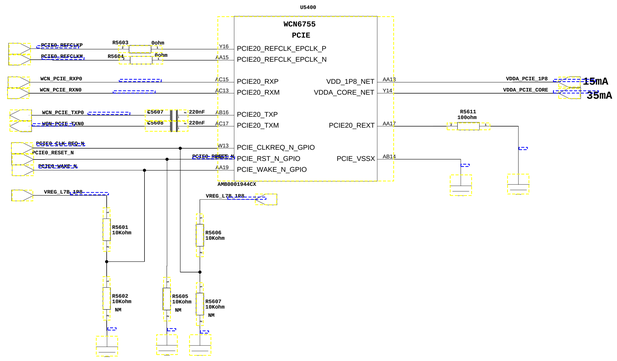
U5400

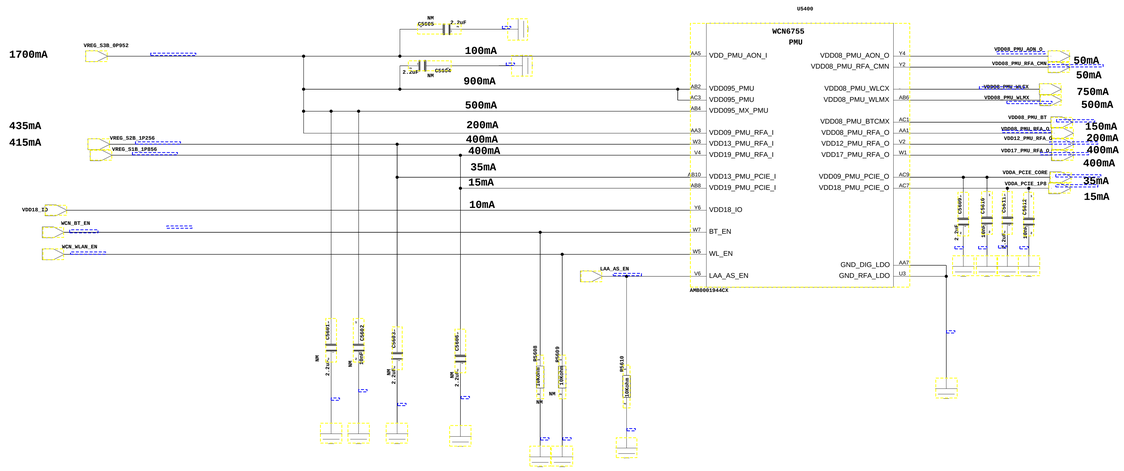
WCN6755
CTRL2

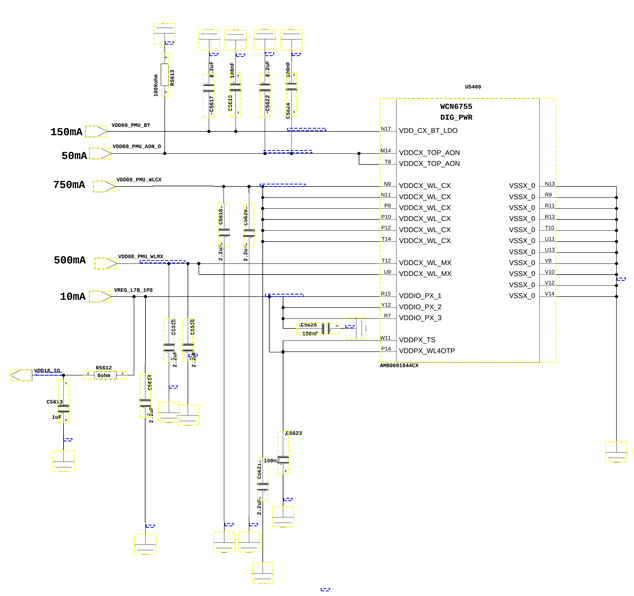
Reserved			
	WL_GPIO0	WL_XFEM_CTRL_2G_CH0_0_GPIO	M18
WL_UART_TX	WL_GPIO1	WL_XFEM_CTRL_2G_CH0_1_GPIO	M20
WL_GPIO_2	WL_GPIO2	WL_XFEM_CTRL_2G_CH0_2_GPIO	Y20
WCN_HOST2WLAN_SOL	WL_GPIO3		
WCN_WLAN2HOST_SOL	WL_GPIO4	WL_XFEM_CTRL_2G_CH1_0_GPIO	N15
		WL_XFEM_CTRL_2G_CH1_1_GPIO	M16
		WL_XFEM_CTRL_2G_CH1_2_GPIO	N19
		WL_XFEM_CTRL_5G_CH0_0_GPIO	T4
		WL_XFEM_CTRL_5G_CH0_1_GPIO	T6
		WL_XFEM_CTRL_5G_CH0_2_GPIO	T2
		WL_XFEM_CTRL_5G_CH0_3_GPIO	P2
WLAN_SW_CTRL	SW_CTRL_GPIO	WL_XFEM_CTRL_5G_CH1_0_GPIO	R5
		WL_XFEM_CTRL_5G_CH1_1_GPIO	R3
		WL_XFEM_CTRL_5G_CH1_2_GPIO	R1
		WL_XFEM_CTRL_5G_CH1_3_GPIO	N7
		WL_XFEM_CTRL_LAA_RX	N1
		WL_XFEM_CTRL_PA_MUTE	P4
		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

AMB0001944CX

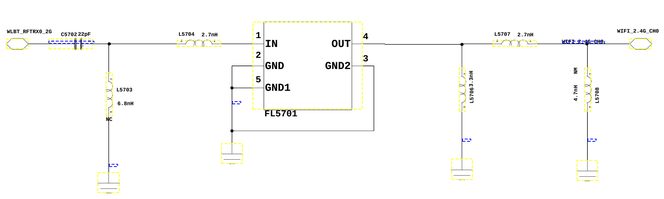
R5597 0ohm
PA_EN_5G_CH0
LNA_EN_5G_CH1
R5589 10kohm
R5518 10kohm


U5400
WCN6755
PCIE
PCIE20_REFCLK_EPCLK_P
PCIE20_REFCLK_EPCLK_N
PCIE20_RXP
PCIE20_RXM
PCIE20_TXP
PCIE20_TXM
PCIE_CLKREQ_N_GPIO
PCIE_RST_N_GPIO
PCIE_WAKE_N_GPIO
VDD_1P8_NET
VDDA_CORE_NET
PCIE20_REXT
PCIE_VSSX
AMB0001944CX
R5603 0ohm
R5604 0ohm
C5605 2.2uF
C5606 2.2uF
R5611 100ohm
R5601 10Kohm
R5606 10Kohm
R5602 10Kohm NM
R5605 10Kohm NM
R5607 10Kohm NM
VREG_L7B_1P8
VREG_L7A_1P8
WCN_PCIE_RXP0
WCN_PCIE_RXN0
WCN_PCIE_TXP0
WCN_PCIE_TXN0
PCIE0_CLK_REQ_N
PCIE0_RESET_N
PCIE0_WAKE_N
PCIE0_RESET_N

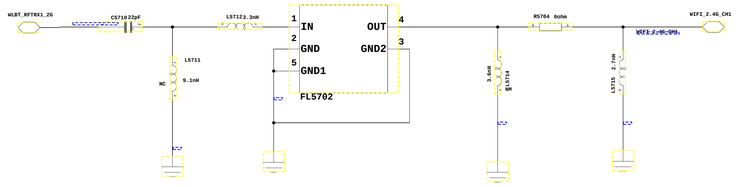

U5400
WCN6755
PMU
VDD_PMU_AON_I
VDD095_PMU
VDD095_PMU
VDD095_MX_PMU
VDD09_PMU_RFA_I
VDD13_PMU_RFA_I
VDD19_PMU_RFA_I
VDD13_PMU_PCIE_I
VDD19_PMU_PCIE_I
VDD18_IO
BT_EN
WL_EN
LAA_AS_EN
VDD08_PMU_AON_O
VDD08_PMU_RFA_CMN
VDD08_PMU_WLCX
VDD08_PMU_WLMX
VDD08_PMU_BTCMX
VDD08_PMU_RFA_O
VDD12_PMU_RFA_O
VDD17_PMU_RFA_O
VDD09_PMU_PCIE_O
VDD18_PMU_PCIE_O
GND_DIG_LDO
GND_RFA_LDO
AMB0001944CX
VREG_S3B_0P952
VREG_S2B_1P256
VREG_S1B_1P650
VDD18_IO
WCN_BT_EN
WCN_WLAN_EN
LAA_AS_EN
C5695 NM 2.2uF
C5696 NM 2.2uF
C5694 NM 2.2uF
C5693 NM 2.2uF
R5608 NM 100Ohm
R5609 NM 100Ohm
R5610 100Ohm
C5699 2.2uF
C5610 100nF
C5611 2.2uF
C5612 100nF
C5697 220nF
C5698 220nF
C5605 NM 2.2uF
C5606 NM 2.2uF
1700mA
435mA
415mA
100mA
900mA
500mA
200mA
400mA
400mA
35mA
15mA
10mA
50mA
50mA
750mA
500mA
150mA
200mA
400mA
400mA
35mA
15mA


U5400
WCN6755
DIG_PWR
VDD_CX_BT_LDO
VDDCX_TOP_AON
VDDCX_WL_CX
VDDCX_WL_MX
VDDIO_PX_1
VDDIO_PX_2
VDDIO_PX_3
VDDPX_TS
VDDPX_WL4OTP
VSSX_0
VDD08_PMU_BT
VDD08_PMU_AON_O
VDD08_PMU_WLCX
VDD08_PMU_WLMX
VREG_L7B_1P8
VDD18_IO
AMB0001944CX
R5613 100ohm
C5613 2.2uF
C5614 2.2uF
C5615 2.2uF
C5616 2.2uF
C5617 2.2uF
C5618 100nF
C5619 2.2uF
C5620 2.2uF
C5621 100nF
C5622 2.2uF
C5623 100nF
C5624 2.2uF
C5625 2.2uF
C5626 2.2uF
C5627 100nF
C5628 2.2uF
C5629 100nF
C5630 2.2uF
C5631 100nF
C5632 2.2uF
C5633 100nF
C5634 2.2uF
C5635 100nF
150mA
50mA
750mA
500mA
10mA

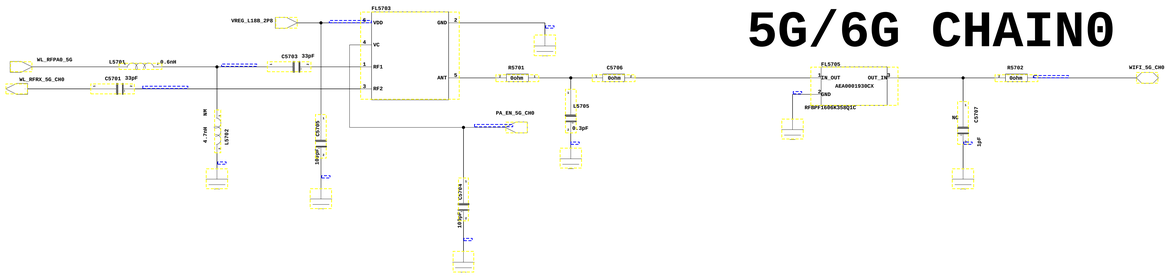
2.4G CHAIN0



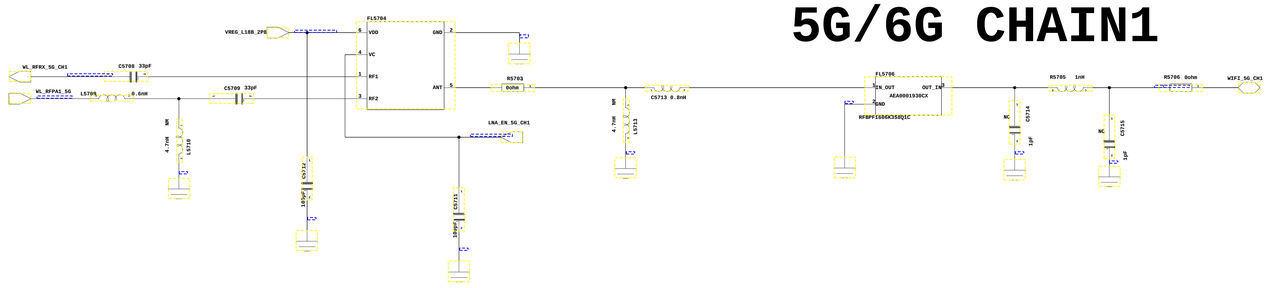
2.4G CHAIN1



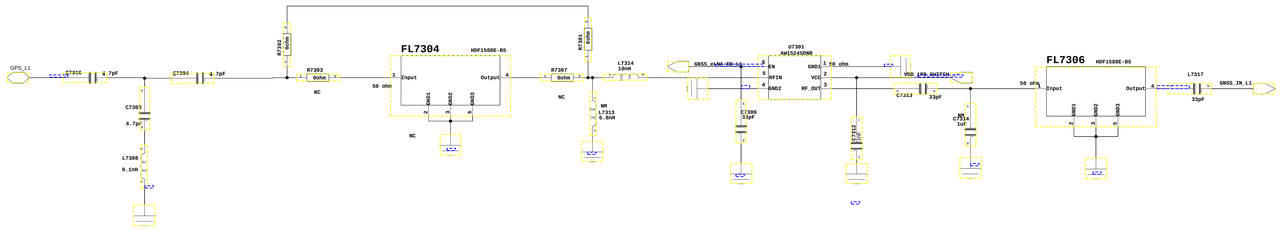
5G/6G CHAIN0



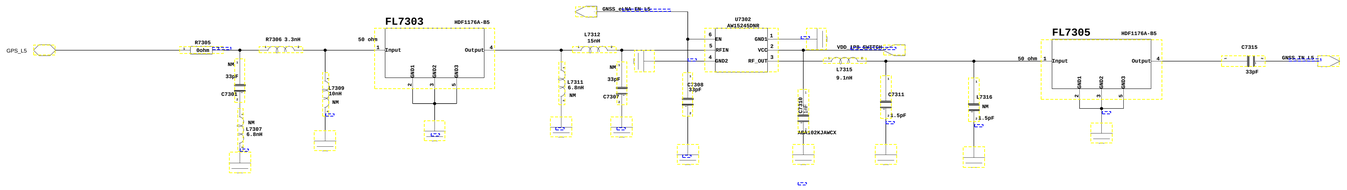
5G/6G CHAIN1

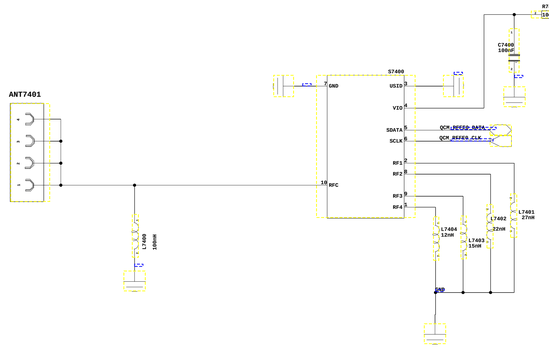


GPS L1

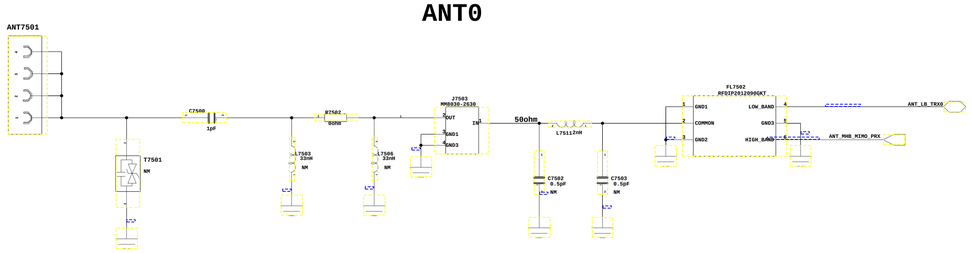

GPS_L1
L7316
4.7pF
C7304
4.7pF
R7304
0ohm
R7303
0ohm
NC
50 ohm
FL7304
HDF1588E-B5
Input
Output
GND1
GND2
GND3
R7307
0ohm
NC
L7314
10nH
C7303
4.7pF
L7308
9.1nH
NM
L7313
0.8nH
GNSS_eLNA_EN_L1
U7301
AW15265DNR
EN
RFIN
GND2
GND1
VCC
RF_OUT
50 ohm
VDD_LPS_SWITCH
C7309
33pF
C7313
33pF
C7314
1uF
C7312
33pF
FL7306
HDF1588E-B5
50 ohm
L7317
33pF
GNSS_IN_L1

GPS L5

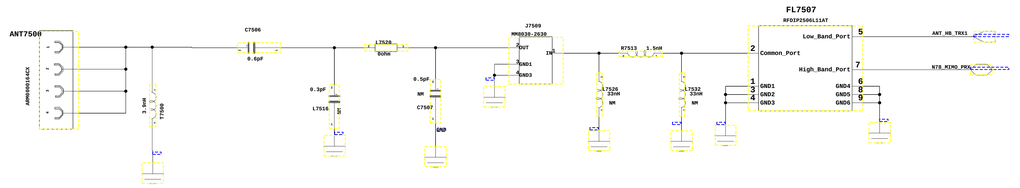

GPS_L5
R7305
0ohm
R7306 3.3nH
50 ohm
FL7303
HDF1176A-B5
Input
Output
GND1
GND2
GND3
GNSS_eLNA_EN_L5
U7302
AW15265DNR
EN
RFIN
GND2
GND1
VCC
RF_OUT
VDD_LPS_SWITCH
L7312
15nH
L7311
0.8nH
NM
C7307
33pF
C7308
33pF
C7310
AGA102KJAHCX
L7315
9.1nH
C7311
3.9pF
L7316
NM
3.9pF
50 ohm
FL7305
HDF1176A-B5
Input
Output
GND1
GND2
GND3
C7315
33pF
GNSS_IN_L5


R7401
15ohm
VDD_VSD_1P8V
C7400
180nF
S7400
VSID
VIO
SDATA
SCLK
RF1
RF2
RF3
RF4
GND
RFC
DCM_RFFE2_DATA
DCM_RFFE2_CLK
ANT7401
L7404
12nH
L7403
15nH
L7402
22nH
L7401
27nH
L7405
100nH

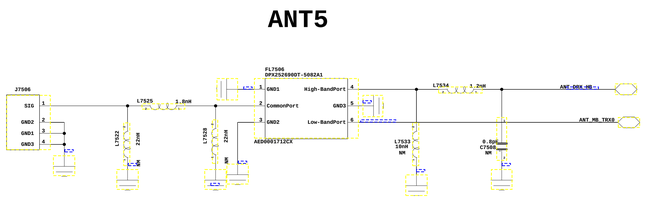
ANT0



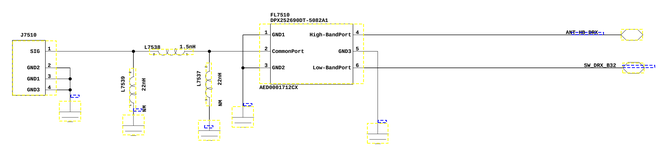
ANT4



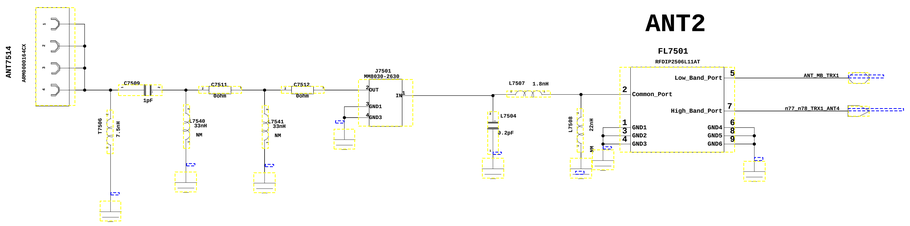
ANT5



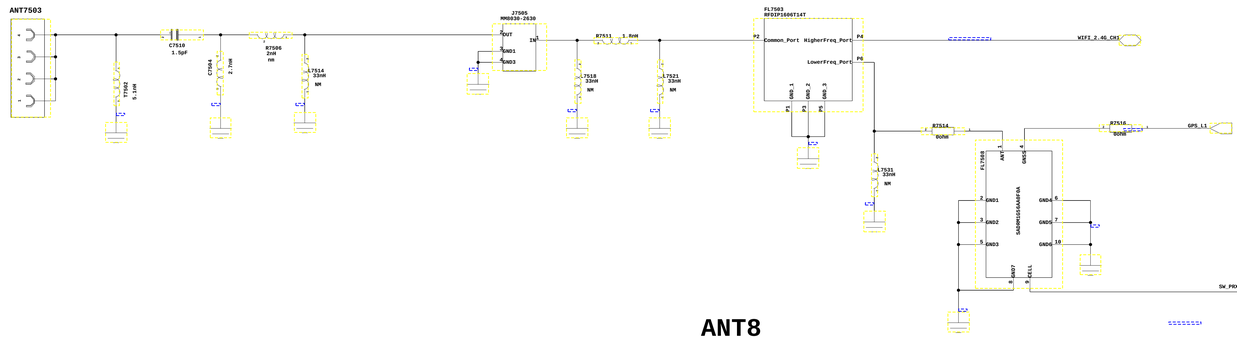
ANT6



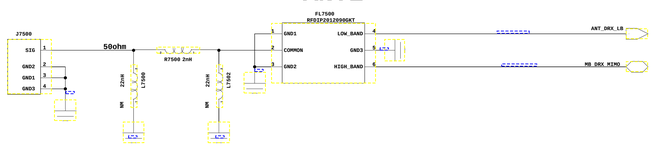
ANT2



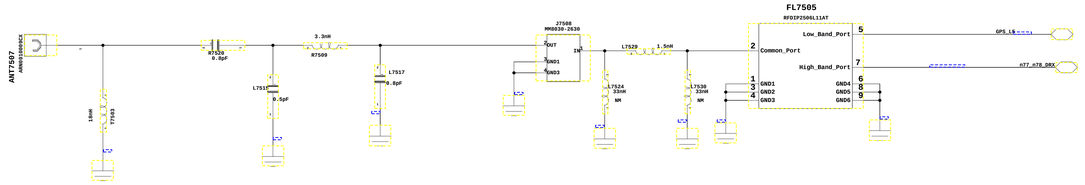
ANT7



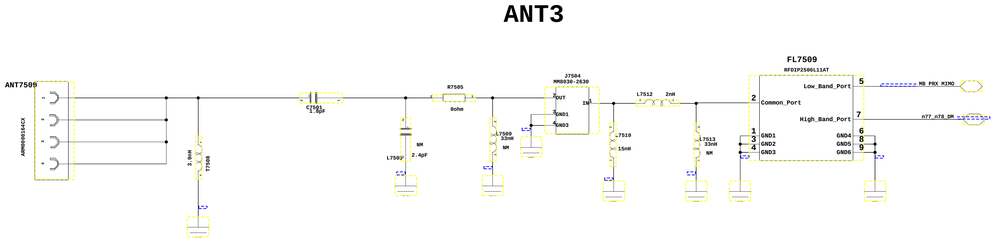
ANT1



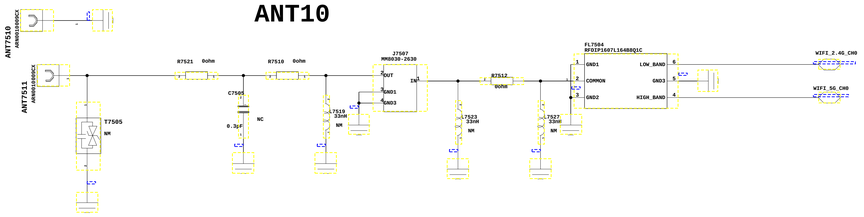
ANT8



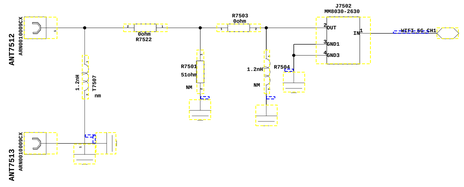
ANT3



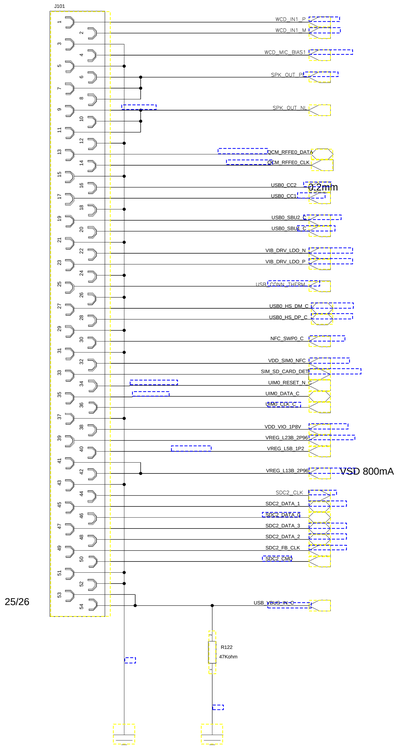
ANT10



ANT9



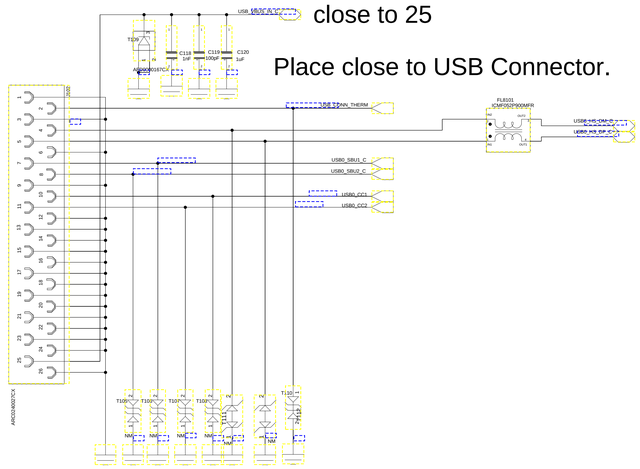
SUB BOARD CONN



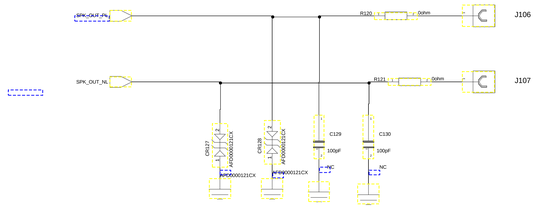
USB BTB

close to 25

Place close to USB Connector.

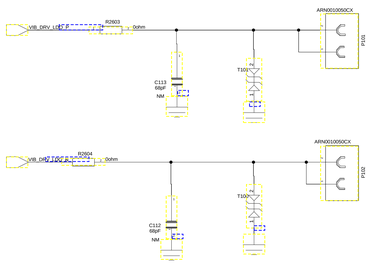


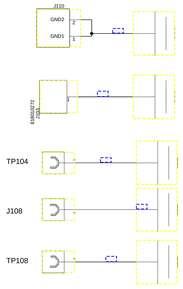
SPEAKER



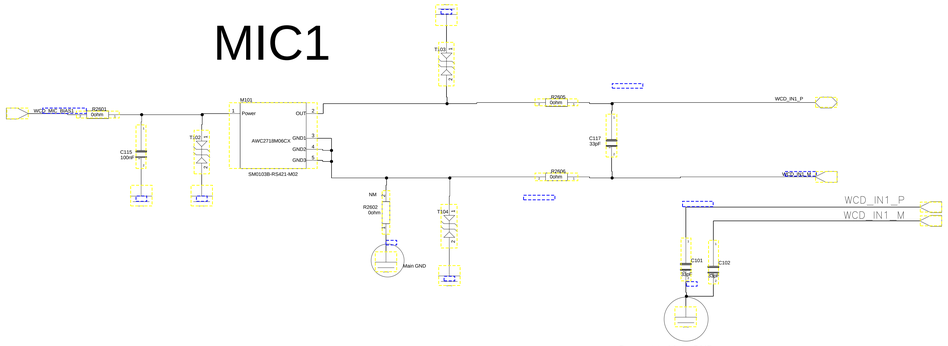
J106	+
J107	-

VIBRATOR



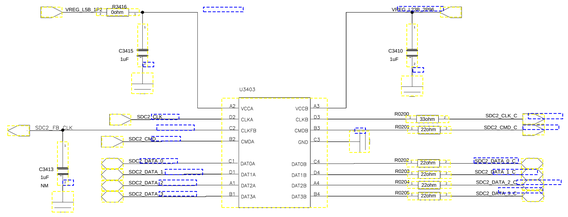


MIC1



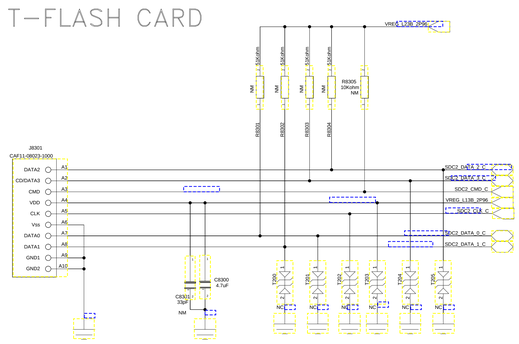
MARK102 MARK103 MARK104 MARK105

2022-10-20

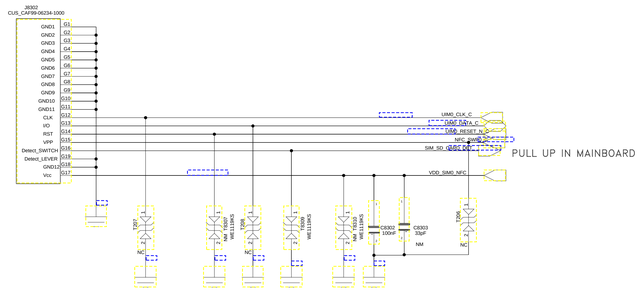


SD CARD

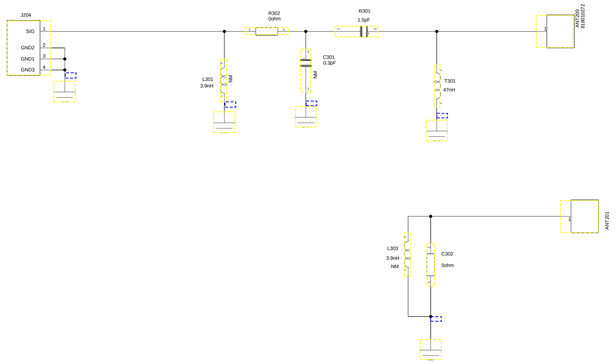
Tray	SD_CARD_DET_N	SD_VCC connectivity
pull out	low	open
inserted	high	closed



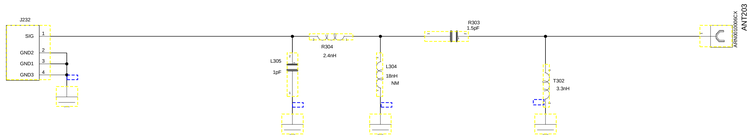
SIM



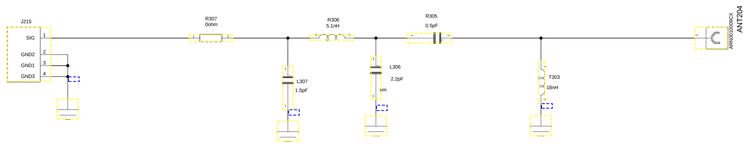
ANT1



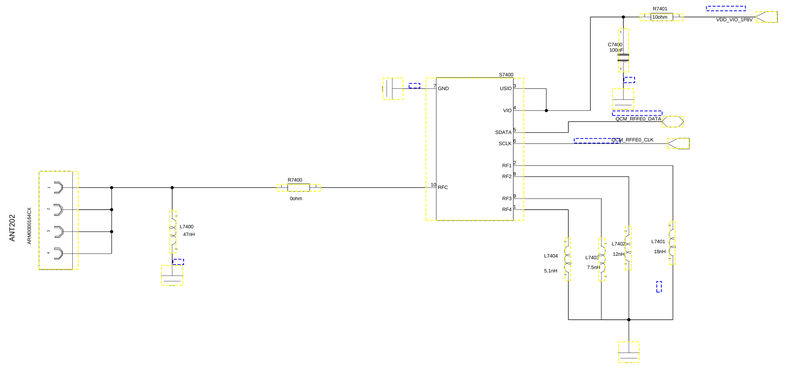
ANT5



ANT6



ANT1 tuner


ANT202
ANH000018AC3
R7401
10ohm
VDD_VIO_1P8V
C7400
100nF
S7400
GND
USD
VIO
SDATA
SCLK
RF1
RF2
RF3
RF4
RFC
QCM_RFFE_DATA
QCM_RFFEB_CLK
R7400
0ohm
L7400
47nH
L7404
5.1nH
L7402
7.5nH
L7403
12nH
L7401
18nH