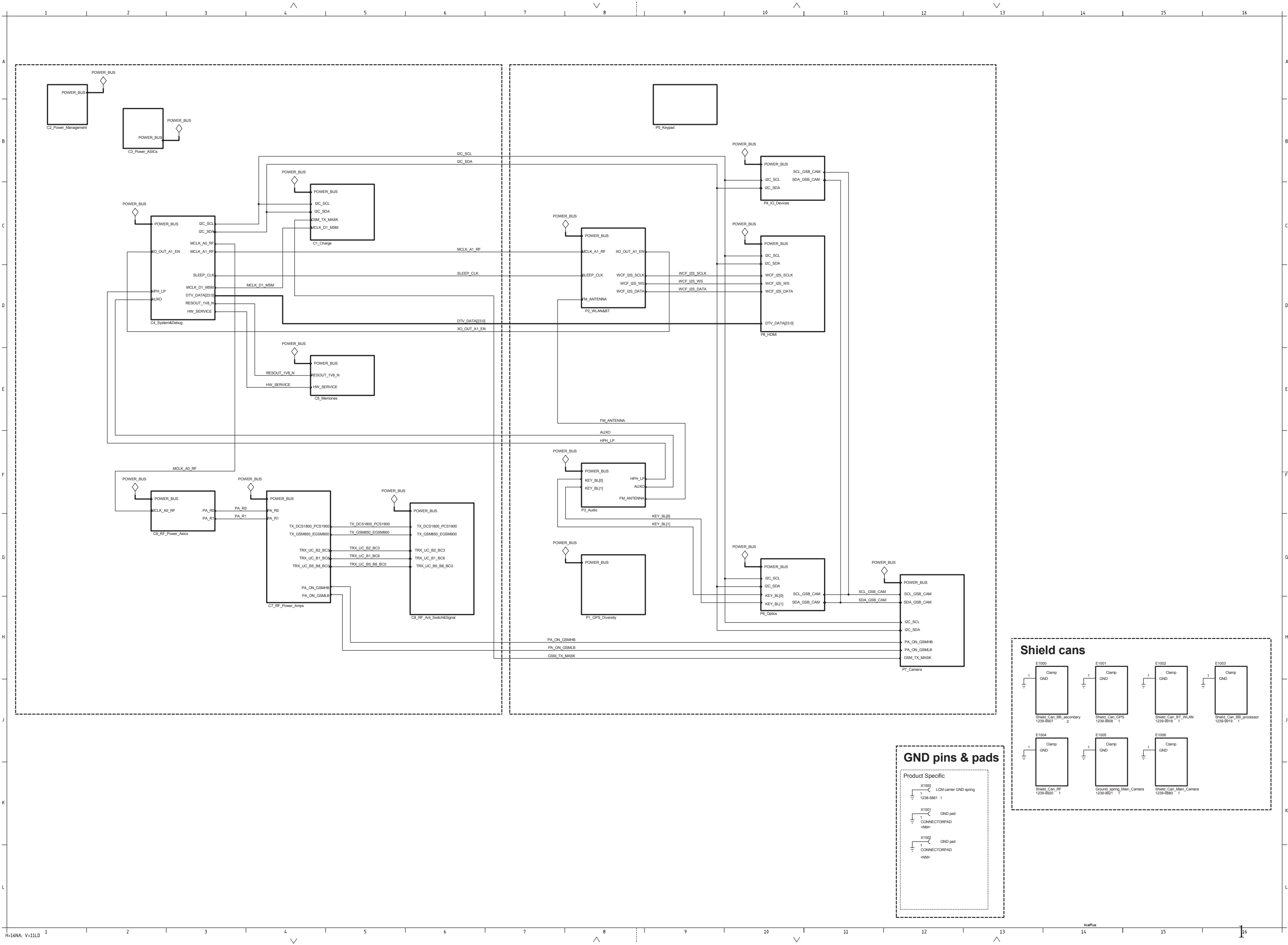
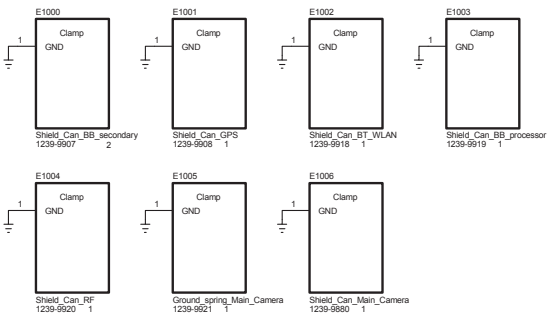


# Schematics, Electrical

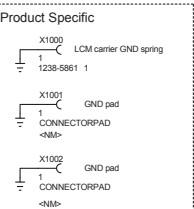
Applicable for Xperia™ MT15i, MT15a

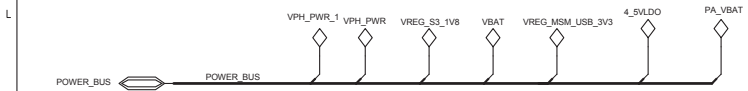
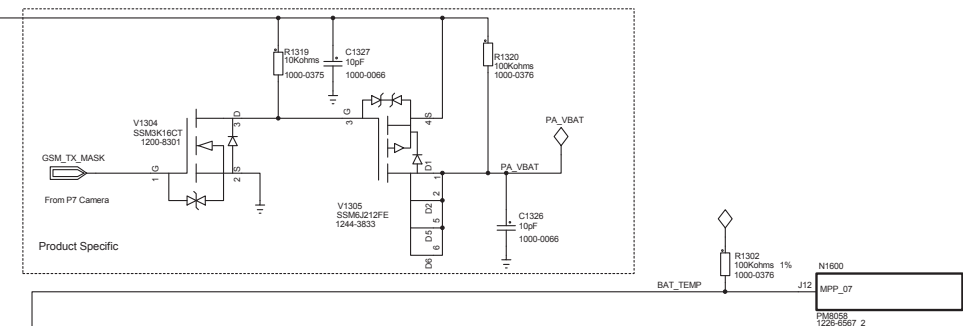


## Shield cans



## GND pins & pads

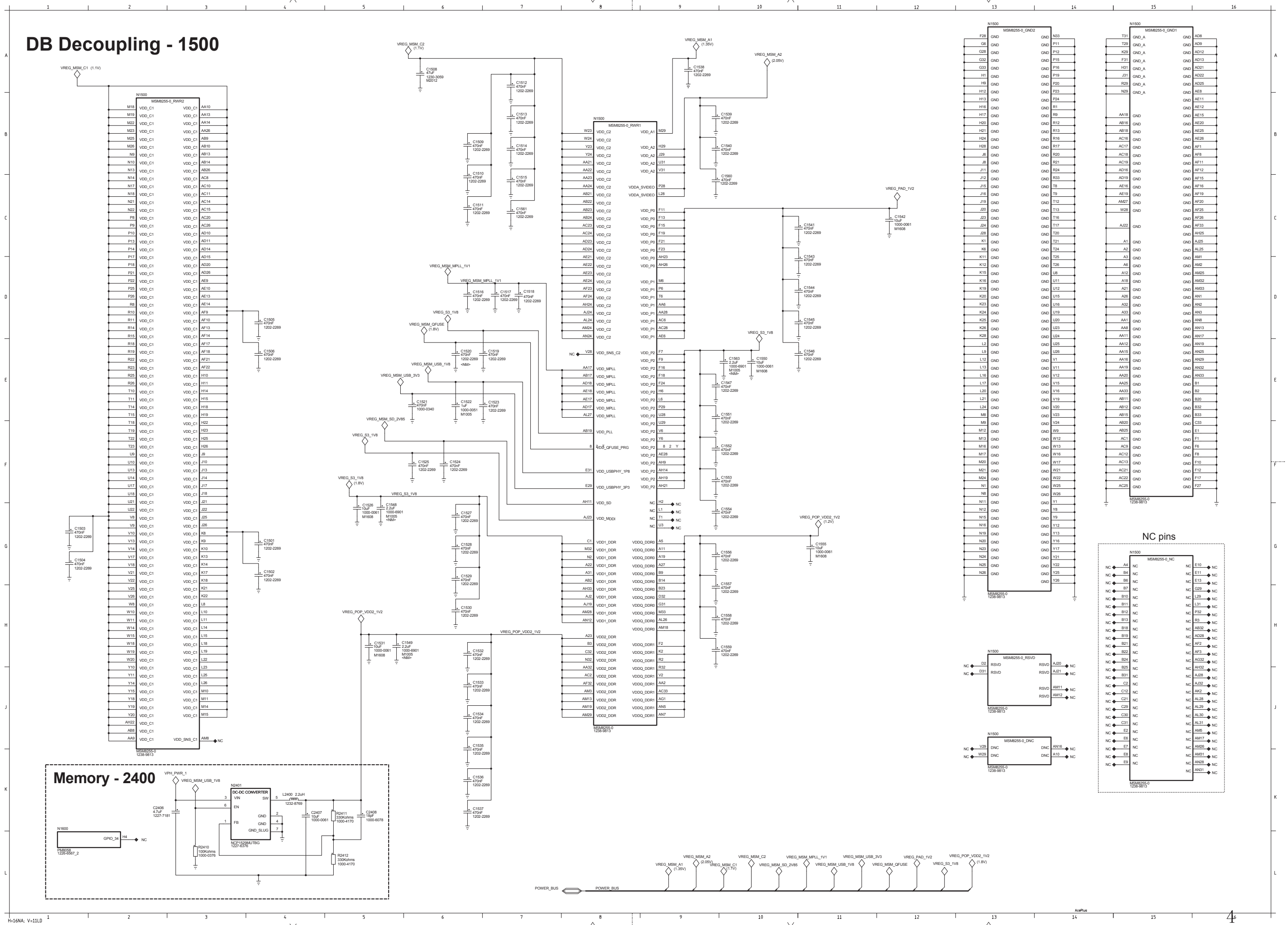


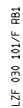
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## LZF 030 101/F R81

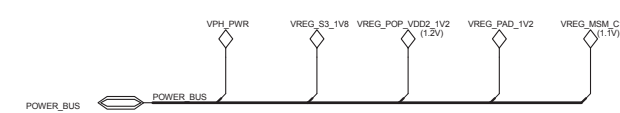
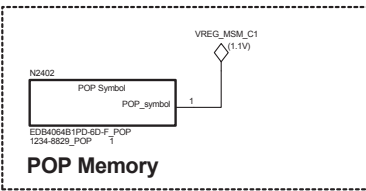
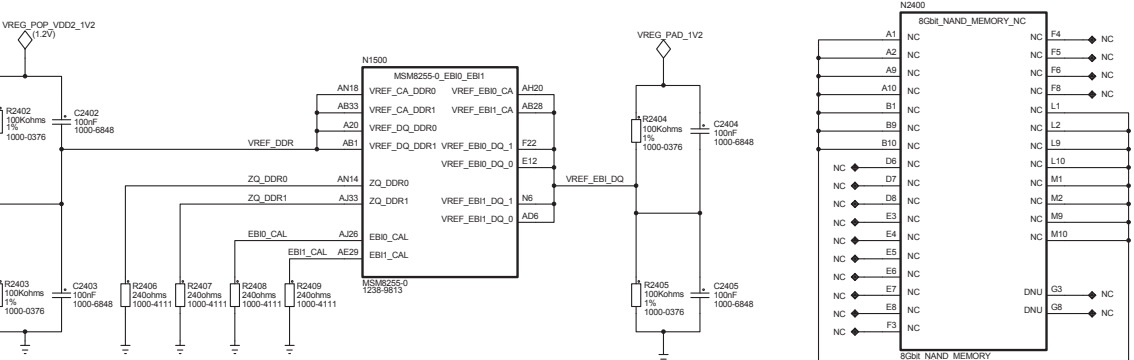
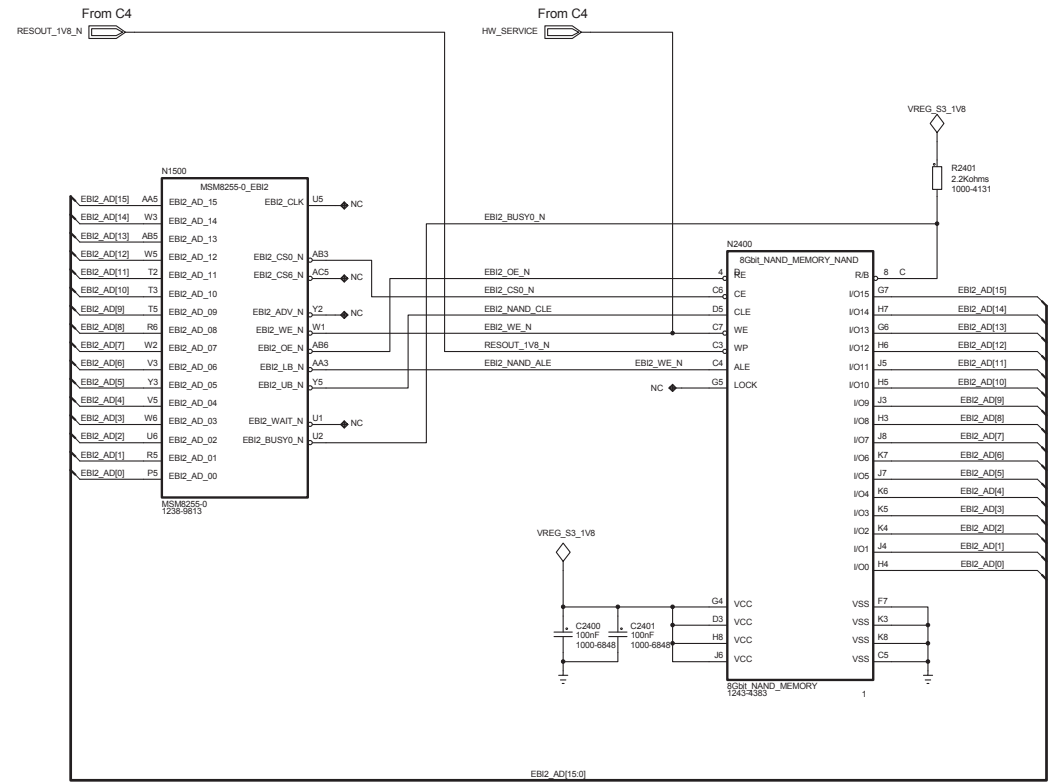


## DB Decoupling - 1500

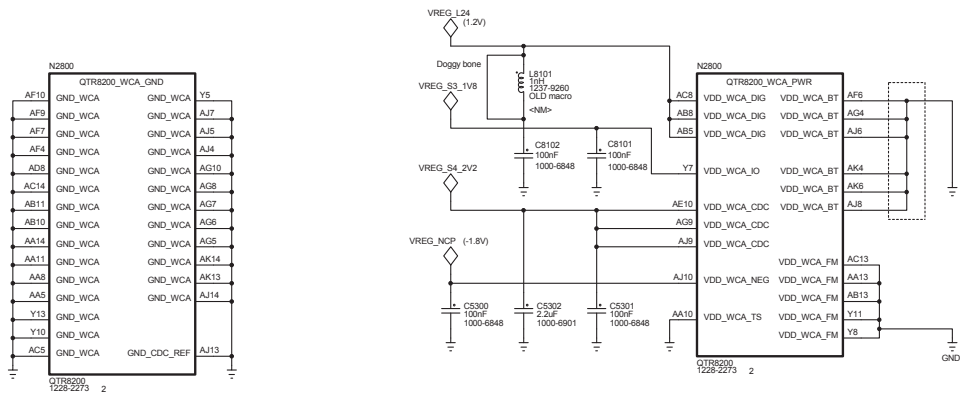




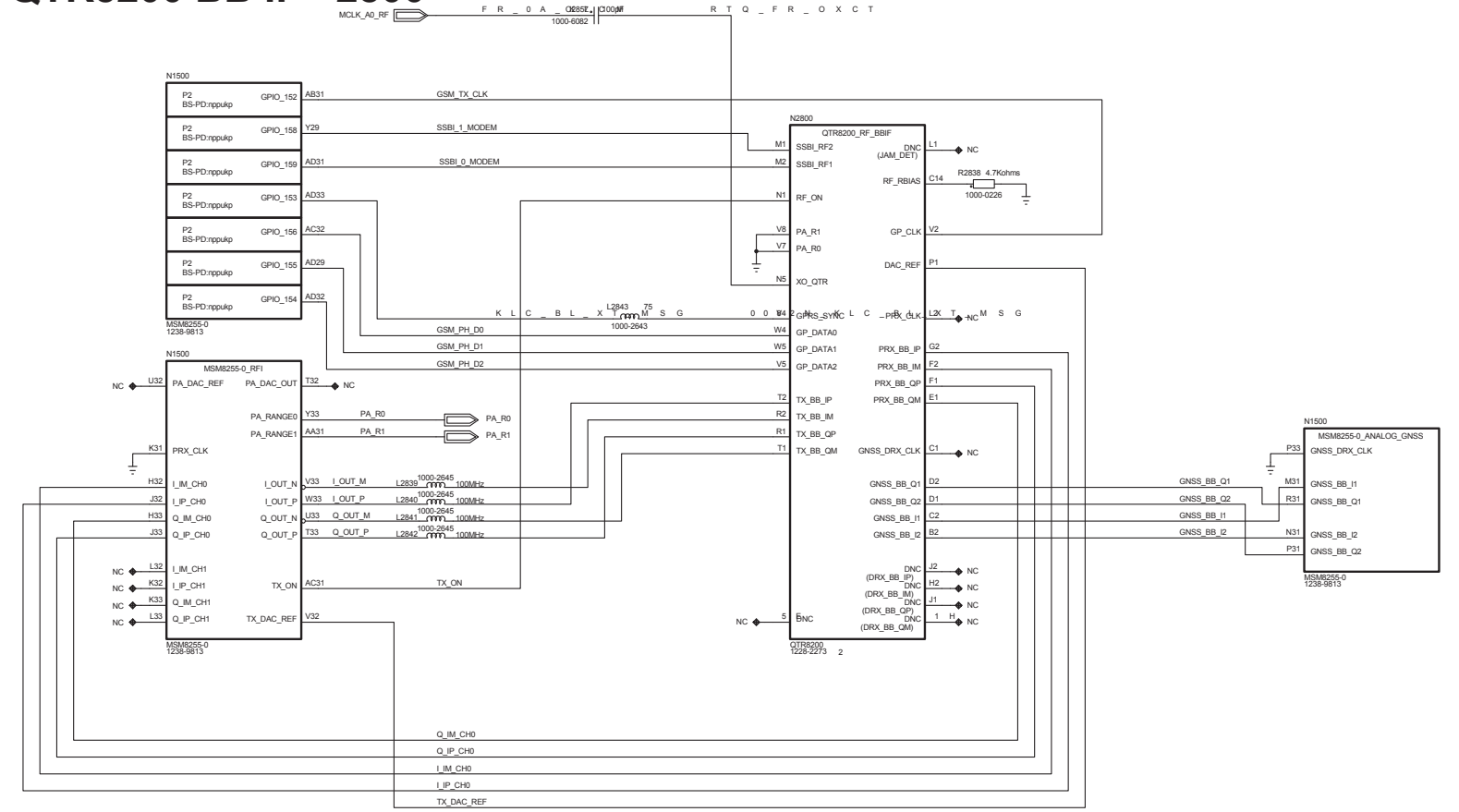
Memory - 2400



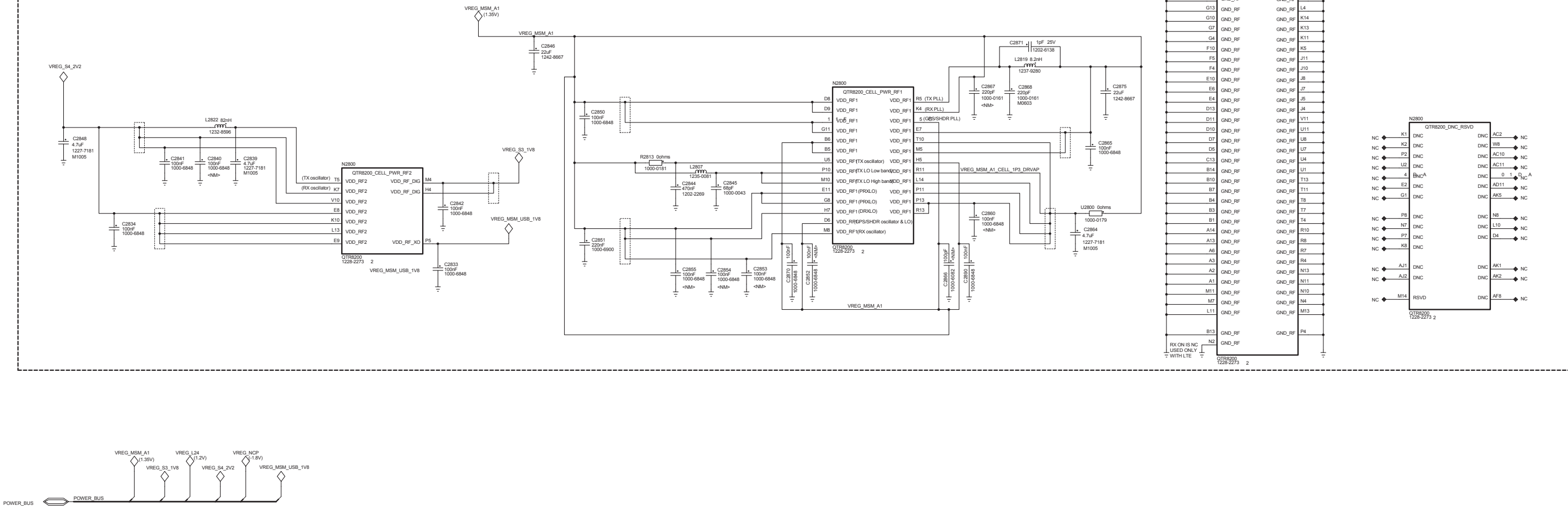
## QTR8200 WCA POWER - 8500,5300



## QTR8200 BB IF - 2800

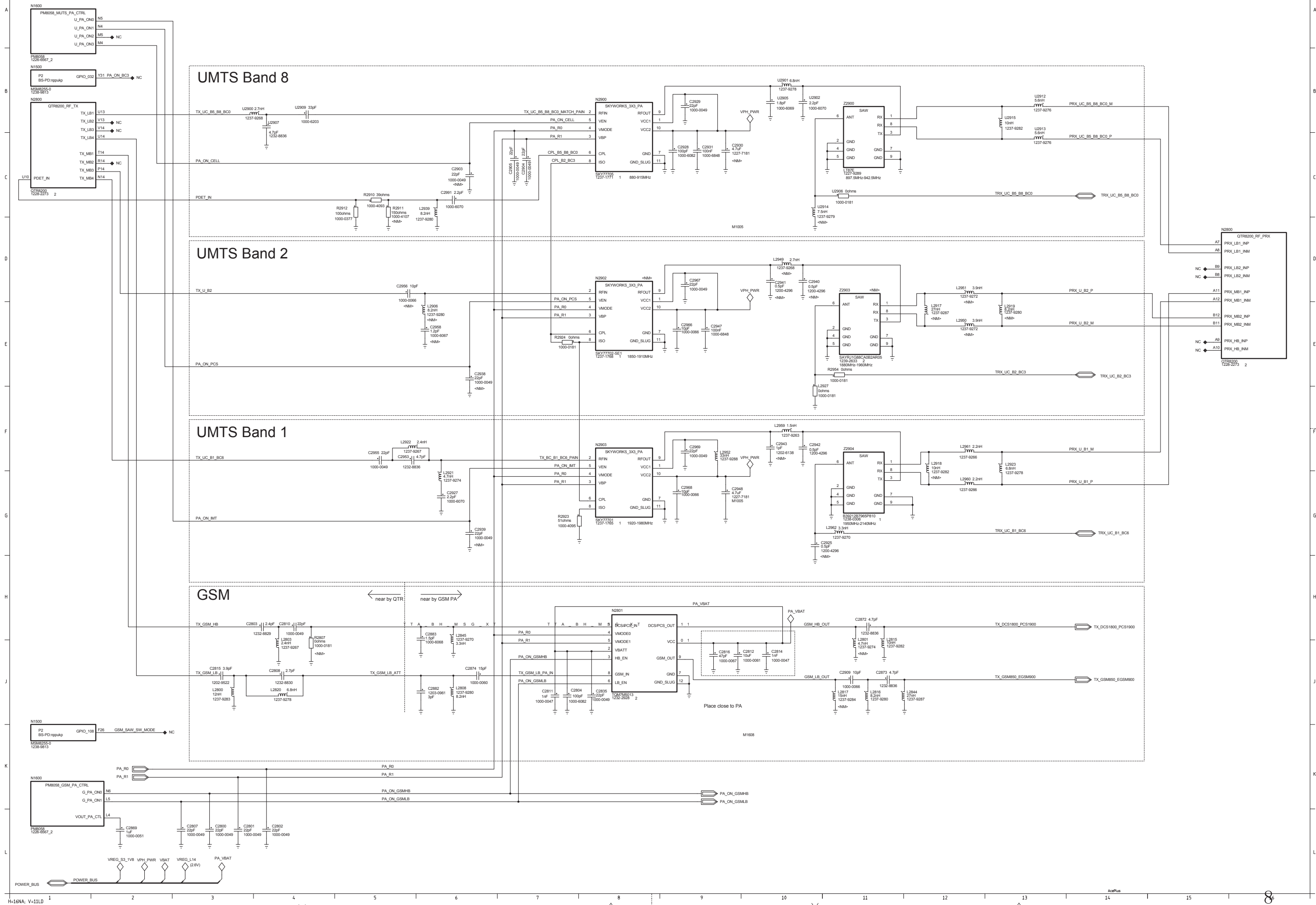


## QTR8200 CELL POWER - 2800





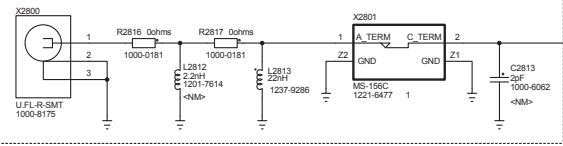
# UMTS-radio - 2900



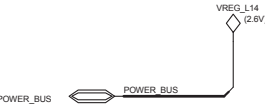
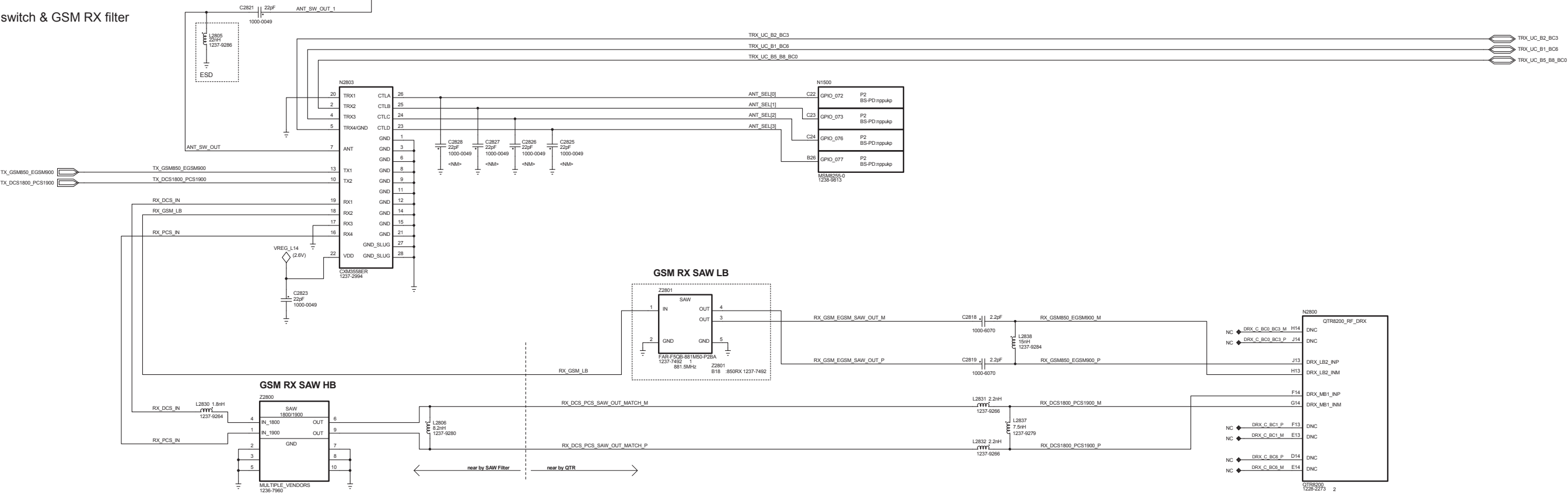
# GSM/EDGE/Common - 2800

## Antenna matching

### Product Specific

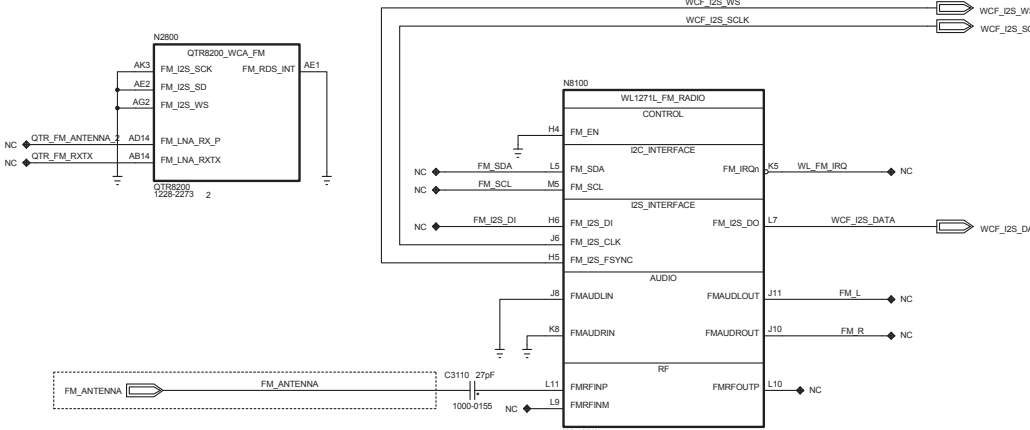


## Antenna switch & GSM RX filter

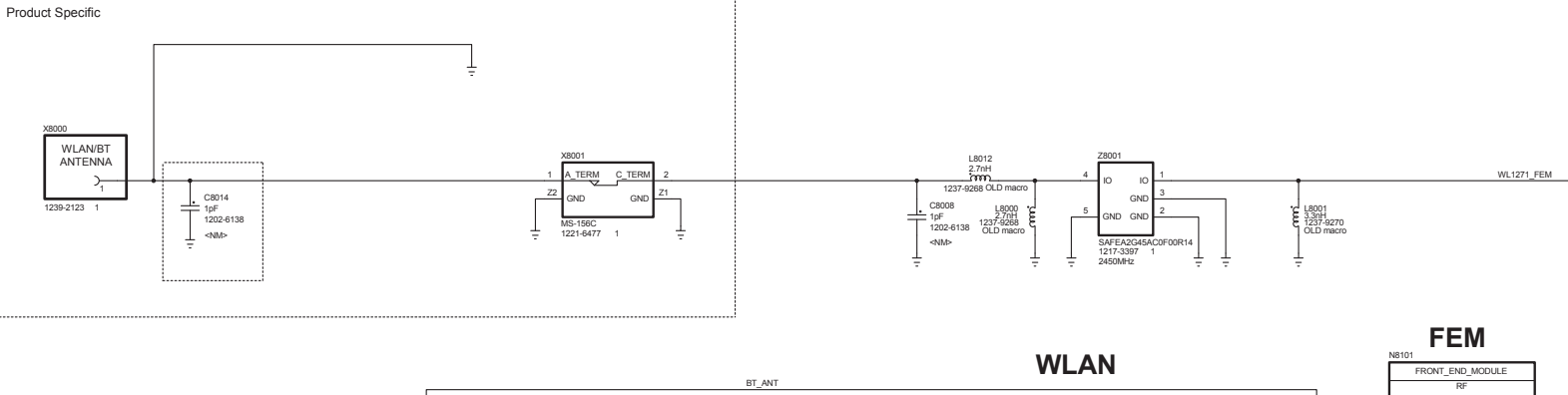


The schematic diagram illustrates the GPS receiver circuit. It begins with the **GPS ANTENNA** (1239-2123) connected to the **GPS\_ANT** pin (1) of the **Z8401** (SAFEB1G57K0X0F00, 1207-2629, 1575-428MHz). The antenna is also connected to a **R2830** (000m, 1000-0179) and a **R2899** (000m, 1000-0179) network. The **Z8401** has multiple pins for **GND** (3, 5, 2) and **VCC** (4). It is connected to the **N8401** (LNA\_IN, LNA\_OUT, DC\_BIAS, POWER\_ON\_CONTROL, VCC, RF\_GND, GND\_DC) via a network of capacitors (**C8437** 33pF, **C8420** 15pF) and inductors (**L8424** 7.3nH, **L8426** 75nH). The **N8401** is also connected to **GND** (7) and **VCC** (5). The **N8401** output is connected to the **GPS\_RX\_SAW\_IN** pin (1) of the **Z8403** (SAFIEA1G58FBI0F00, 1238-2044, 1575MHz). The **Z8403** has pins for **Unbal** (1), **Bal** (3), **GND** (2, 4, 5), and **VCC** (6). It is connected to the **L8402** (12nH, 1241-2624) via a network of capacitors (**C8405** 1pF, **C8409** 25pF) and inductors (**L8403** 12nH, **L8404** 12nH). The **L8402** is connected to the **GPS\_P** (A4) and **GPS\_M** (A5) pins of the **N2800** (QTR2800\_RF\_GNSS, 1239-2273, 2). The **N2800** is also connected to **GNSS\_INP** and **GNSS\_NMI** pins. The circuit includes various passive components like **C8432** 39pF, **C8433** 10pF, **C8434** 1pF, **C8436** 10pF, **C8438** 10pF, **C8439** 10pF, **C8440** 10pF, **C8441** 10pF, **C8442** 10pF, **C8443** 10pF, **C8444** 10pF, **C8445** 10pF, **C8446** 10pF, **C8447** 10pF, **C8448** 10pF, **C8449** 10pF, **C8450** 10pF, **C8451** 10pF, **C8452** 10pF, **C8453** 10pF, **C8454** 10pF, **C8455** 10pF, **C8456** 10pF, **C8457** 10pF, **C8458** 10pF, **C8459** 10pF, **C8460** 10pF, **C8461** 10pF, **C8462** 10pF, **C8463** 10pF, **C8464** 10pF, **C8465** 10pF, **C8466** 10pF, **C8467** 10pF, **C8468** 10pF, **C8469** 10pF, **C8470** 10pF, **C8471** 10pF, **C8472** 10pF, **C8473** 10pF, **C8474** 10pF, **C8475** 10pF, **C8476** 10pF, **C8477** 10pF, **C8478** 10pF, **C8479** 10pF, **C8480** 10pF, **C8481** 10pF, **C8482** 10pF, **C8483** 10pF, **C8484** 10pF, **C8485** 10pF, **C8486** 10pF, **C8487** 10pF, **C8488** 10pF, **C8489** 10pF, **C8490** 10pF, **C8491** 10pF, **C8492** 10pF, **C8493** 10pF, **C8494** 10pF, **C8495** 10pF, **C8496** 10pF, **C8497** 10pF, **C8498** 10pF, **C8499** 10pF, **C8500** 10pF, **C8501** 10pF, **C8502** 10pF, **C8503** 10pF, **C8504** 10pF, **C8505** 10pF, **C8506** 10pF, **C8507** 10pF, **C8508** 10pF, **C8509** 10pF, **C8510** 10pF, **C8511** 10pF, **C8512** 10pF, **C8513** 10pF, **C8514** 10pF, **C8515** 10pF, **C8516** 10pF, **C8517** 10pF, **C8518** 10pF, **C8519** 10pF, **C8520** 10pF, **C8521** 10pF, **C8522** 10pF, **C8523** 10pF, **C8524** 10pF, **C8525** 10pF, **C8526** 10pF, **C8527** 10pF, **C8528** 10pF, **C8529** 10pF, **C8530** 10pF, **C8531** 10pF, **C8532** 10pF, **C8533** 10pF, **C8534** 10pF, **C8535** 10pF, **C8536** 10pF, **C8537** 10pF, **C8538** 10pF, **C8539** 10pF, **C8540** 10pF, **C8541** 10pF, **C8542** 10pF, **C8543** 10pF, **C8544** 10pF, **C8545** 10pF, **C8546** 10pF, **C8547** 10pF, **C8548** 10pF, **C8549** 10pF, **C8550** 10pF, **C8551** 10pF, **C8552** 10pF, **C8553** 10pF, **C8554** 10pF, **C8555** 10pF, **C8556** 10pF, **C8557** 10pF, **C8558** 10pF, **C8559** 10pF, **C8560** 10pF, **C8561** 10pF, **C8562** 10pF, **C8563** 10pF, **C8564** 10pF, **C8565** 10pF, **C8566** 10pF, **C8567** 10pF, **C8568** 10pF, **C8569** 10pF, **C8570** 10pF, **C8571** 10pF, **C8572** 10pF, **C8573** 10pF, **C8574** 10pF, **C8575** 10pF, **C8576** 10pF, **C8577** 10pF, **C8578** 10pF, **C8579** 10pF, **C8580** 10pF, **C8581** 10pF, **C8582** 10pF, **C8583** 10pF, **C8584** 10pF, **C8585** 10pF, **C8586** 10pF, **C8587** 10pF, **C8588** 10pF, **C8589** 10pF, **C8590** 10pF, **C8591** 10pF, **C8592** 10pF, **C8593** 10pF, **C8594** 10pF, **C8595** 10pF, **C8596** 10pF, **C8597** 10pF, **C8598** 10pF, **C8599** 10pF, **C8600** 10pF, **C8601** 10pF, **C8602** 10pF, **C8603** 10pF, **C8604** 10pF, **C8605** 10pF, **C8606** 10pF, **C8607** 10pF, **C8608** 10pF, **C8609** 10pF, **C8610** 10pF, **C8611** 10pF, **C8612** 10pF, **C8613** 10pF, **C8614** 10pF, **C8615** 10pF, **C8616** 10pF, **C8617** 10pF, **C8618** 10pF, **C8619** 10pF, **C8620** 10pF, **C8621** 10pF, **C8622** 10pF, **C8623** 10pF, **C8624** 10pF, **C8625** 10pF, **C8626** 10pF, **C8627** 10pF, **C8628** 10pF, **C8629** 10pF, **C8630** 10pF, **C8631** 10pF, **C8632** 10pF, **C8633** 10pF, **C8634** 10pF, **C8635** 10pF, **C8636** 10pF, **C8637** 10pF, **C863**

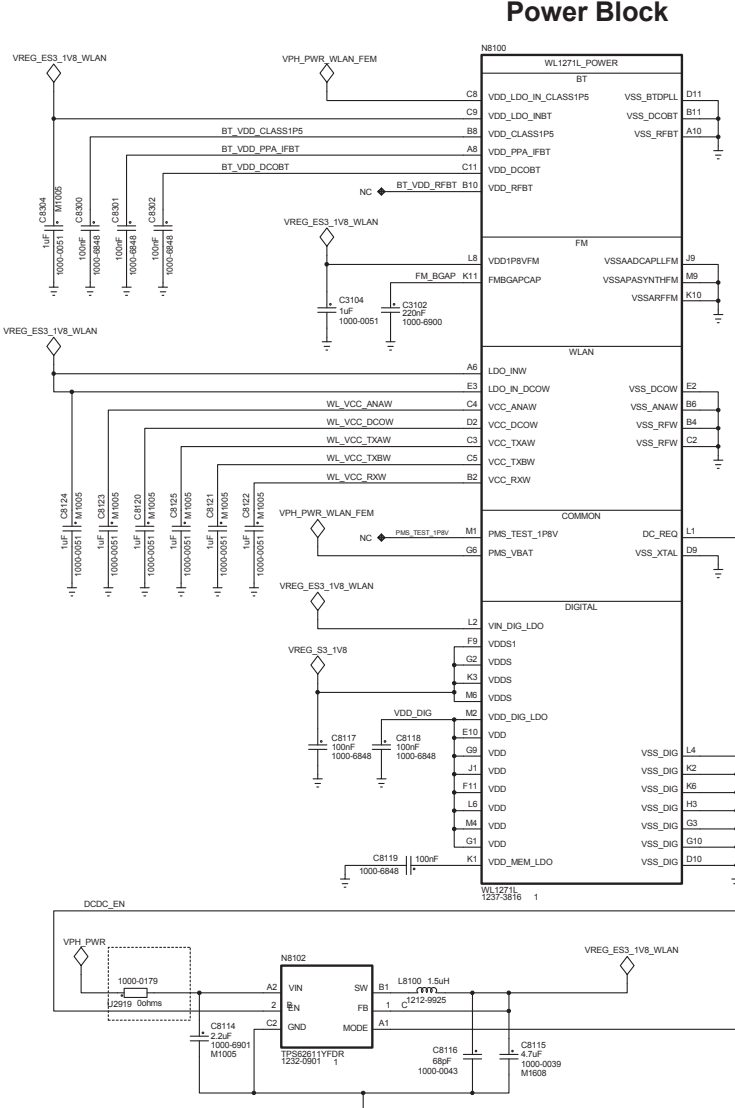
# FM Radio - 3100



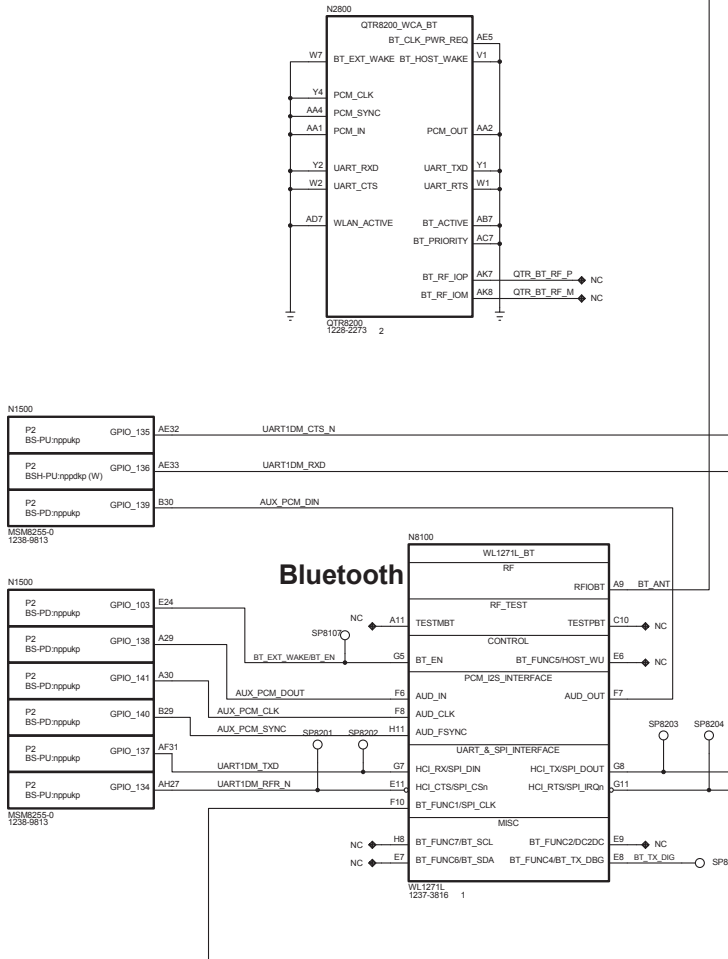
## WLAN Radio - 8000



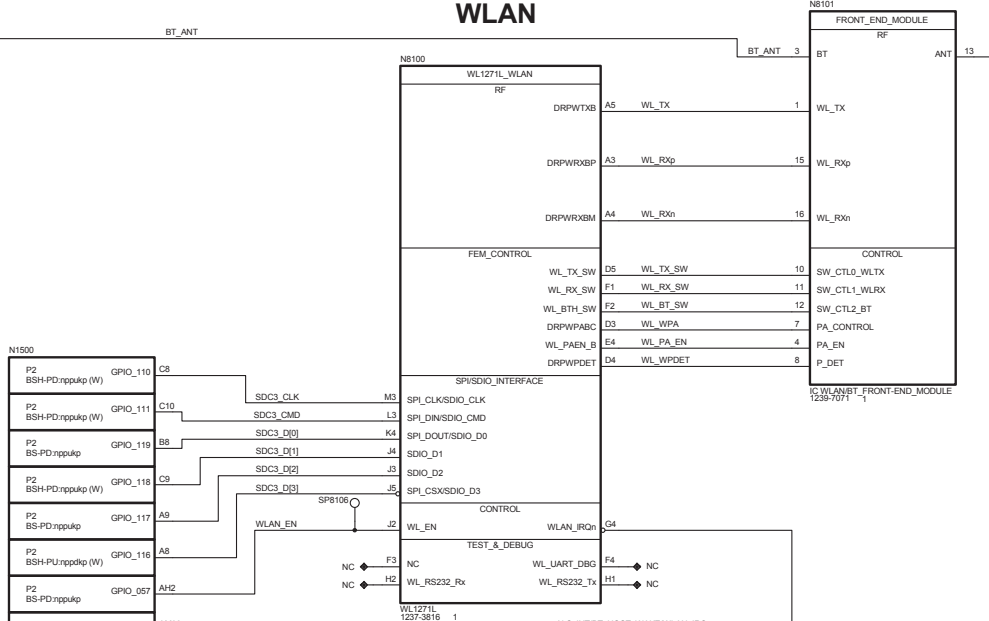
**WLAN/BT/FM power**  
**- 8100/8300/3100**



## BT Radio - 8200



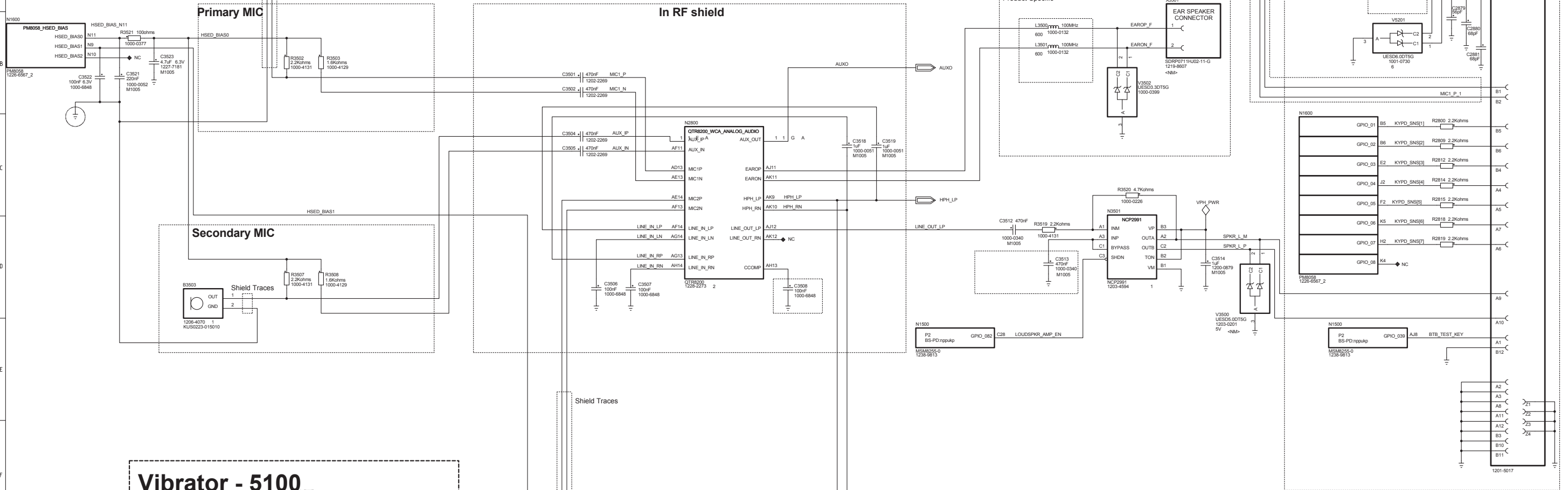
## WLAN



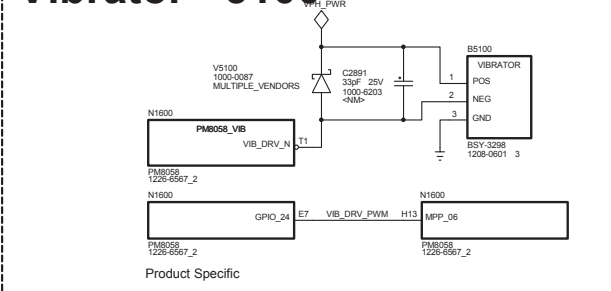
## FFM Power



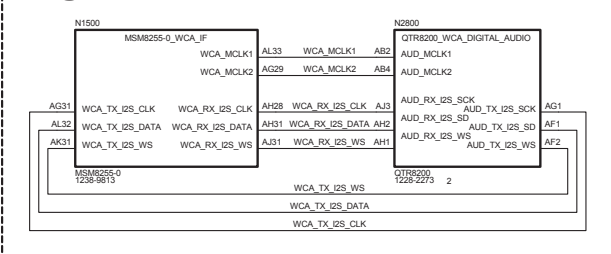
## Analog Audio - 3500



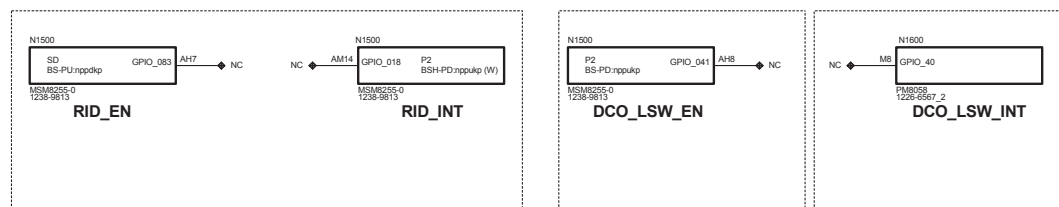
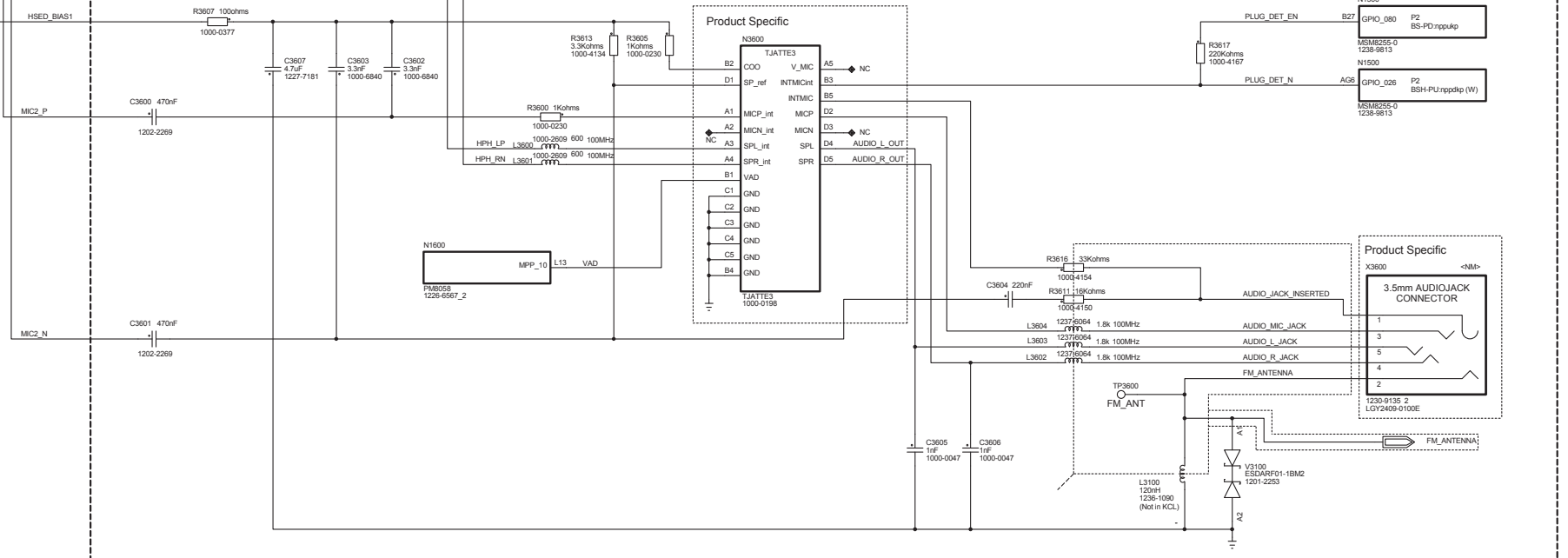
## Vibrator - 5100



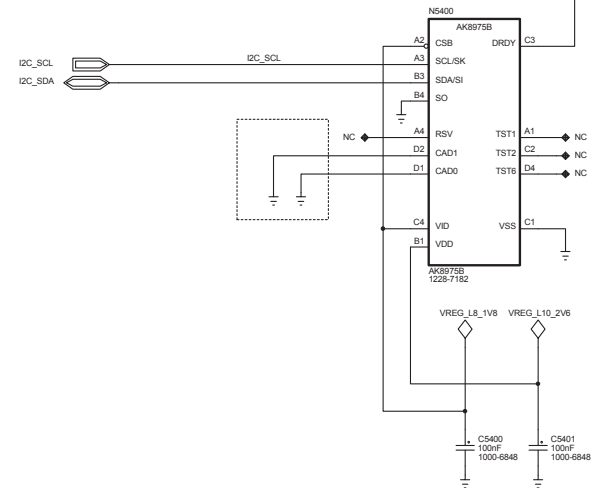
## Digital Audio - 3000



## SE-PORT - 3600



## E-Compass - 5400

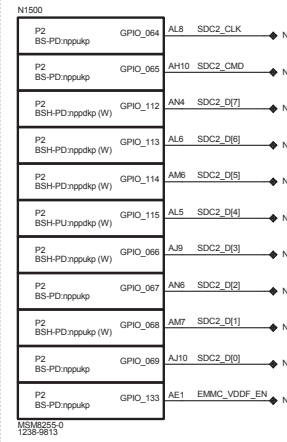


Product Specific

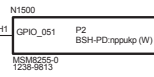
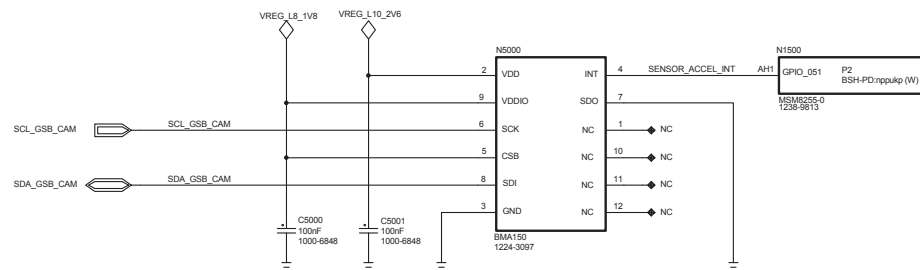


## eMMC - 4200

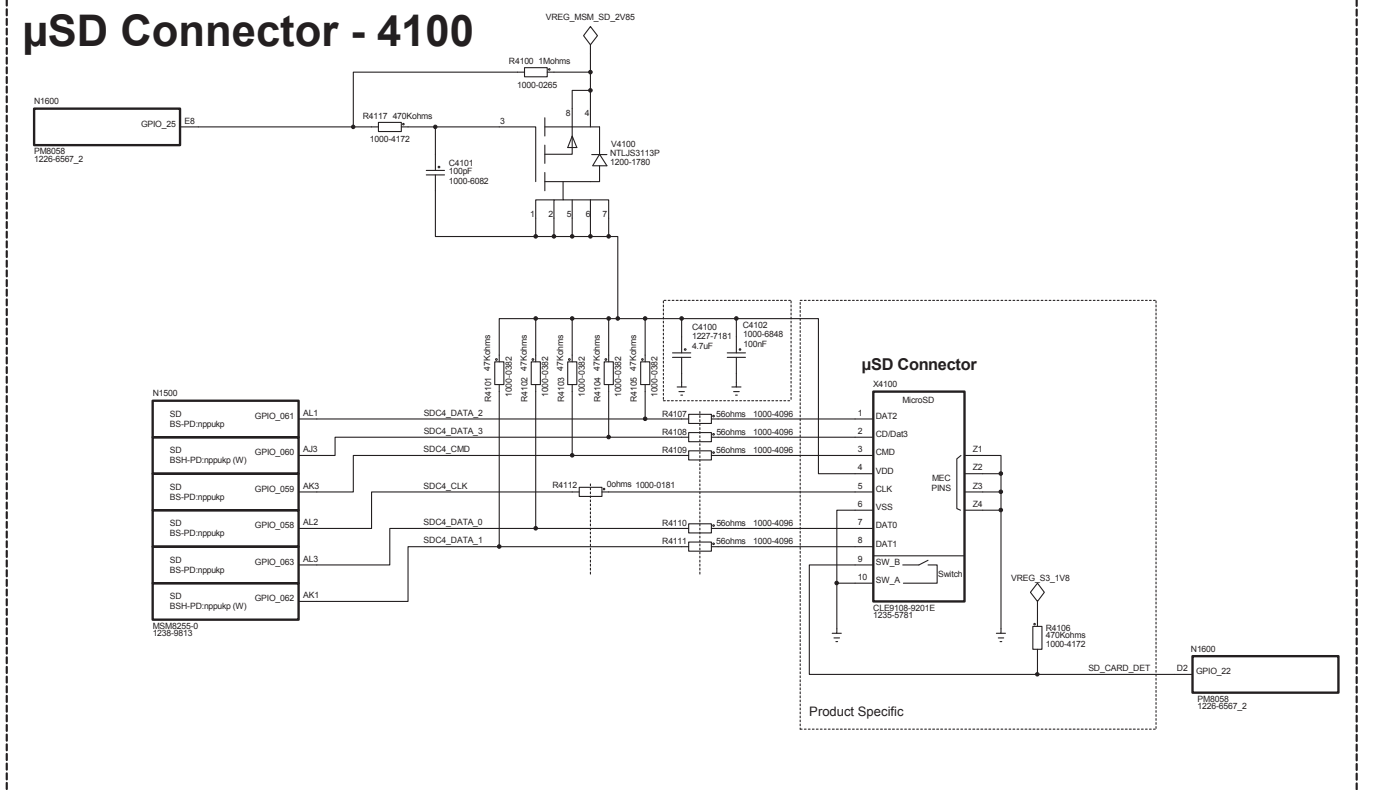
Product Specific



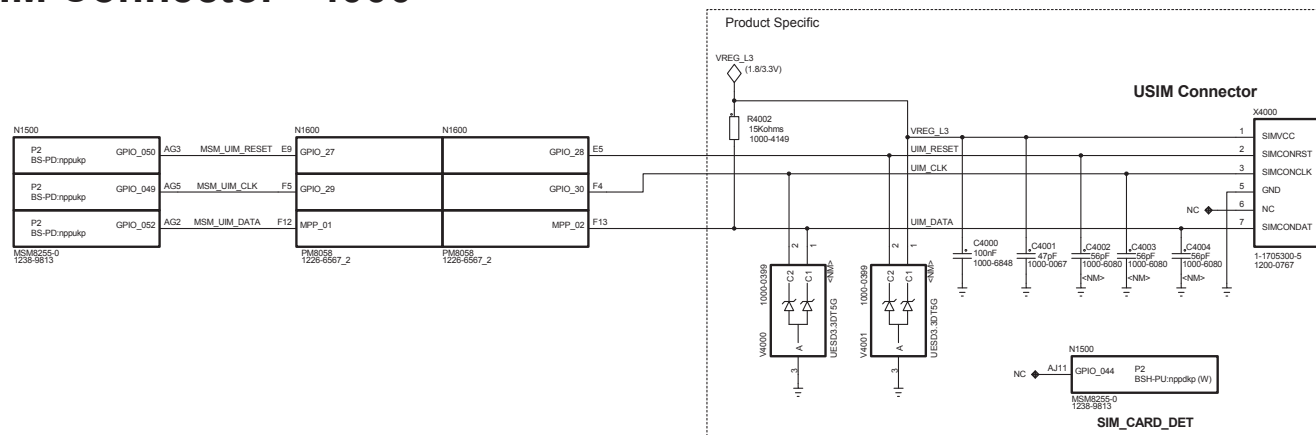
## Accelerometer - 5000



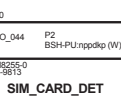
## μSD Connector - 4100



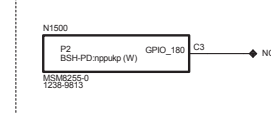
## USIM Connector - 4000



USIM Connector

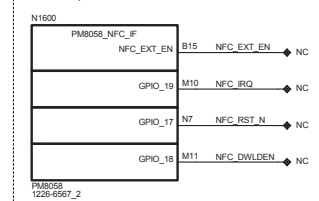


## MR\_DET

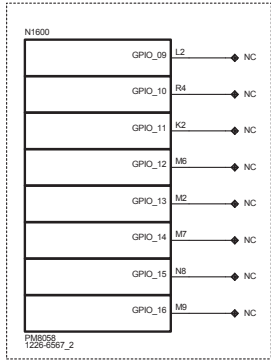


## NFC Board - 8600

Product Specific



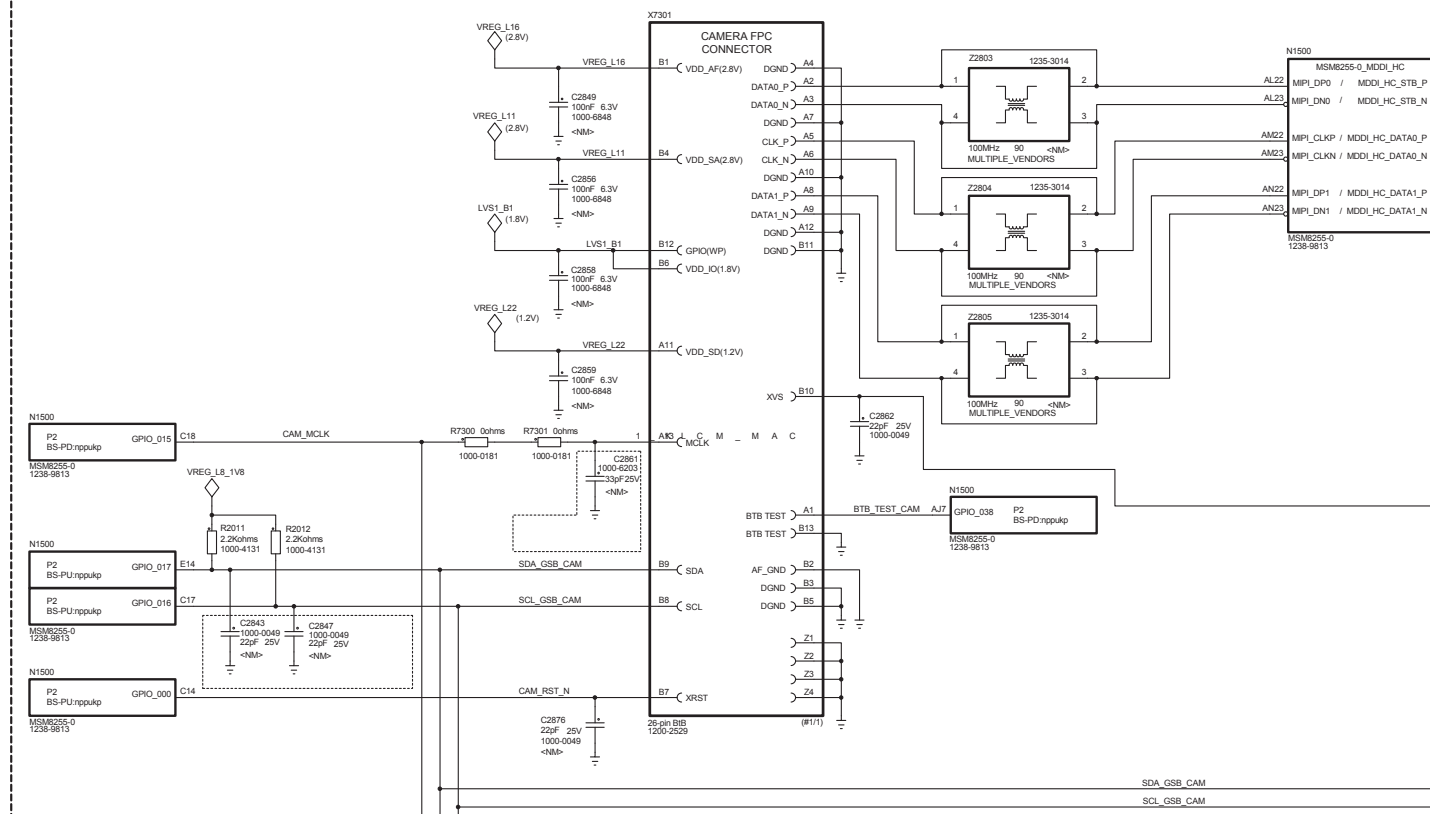
# Keyboard - 5200



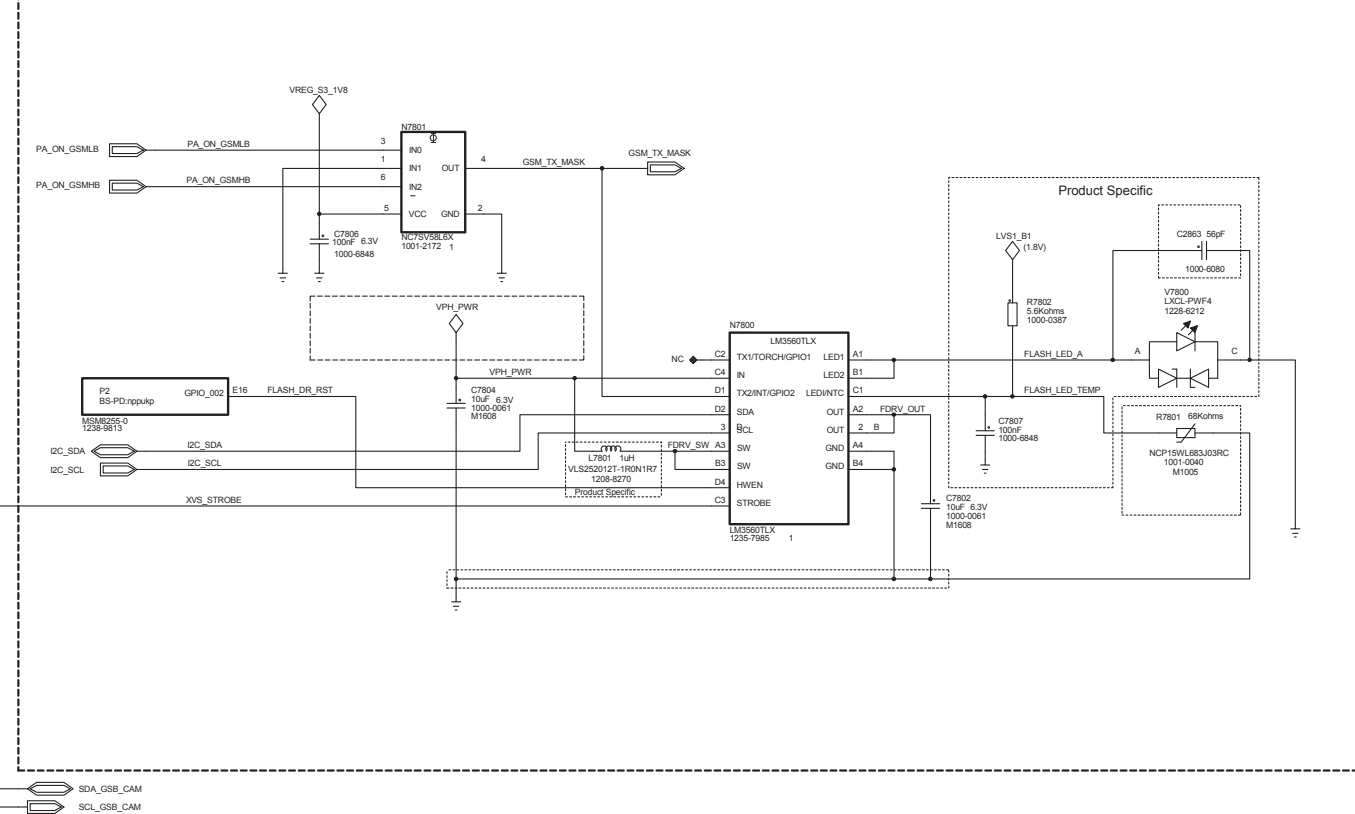
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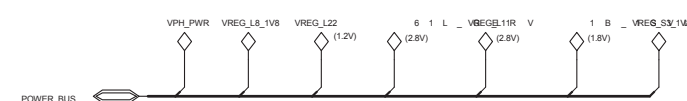
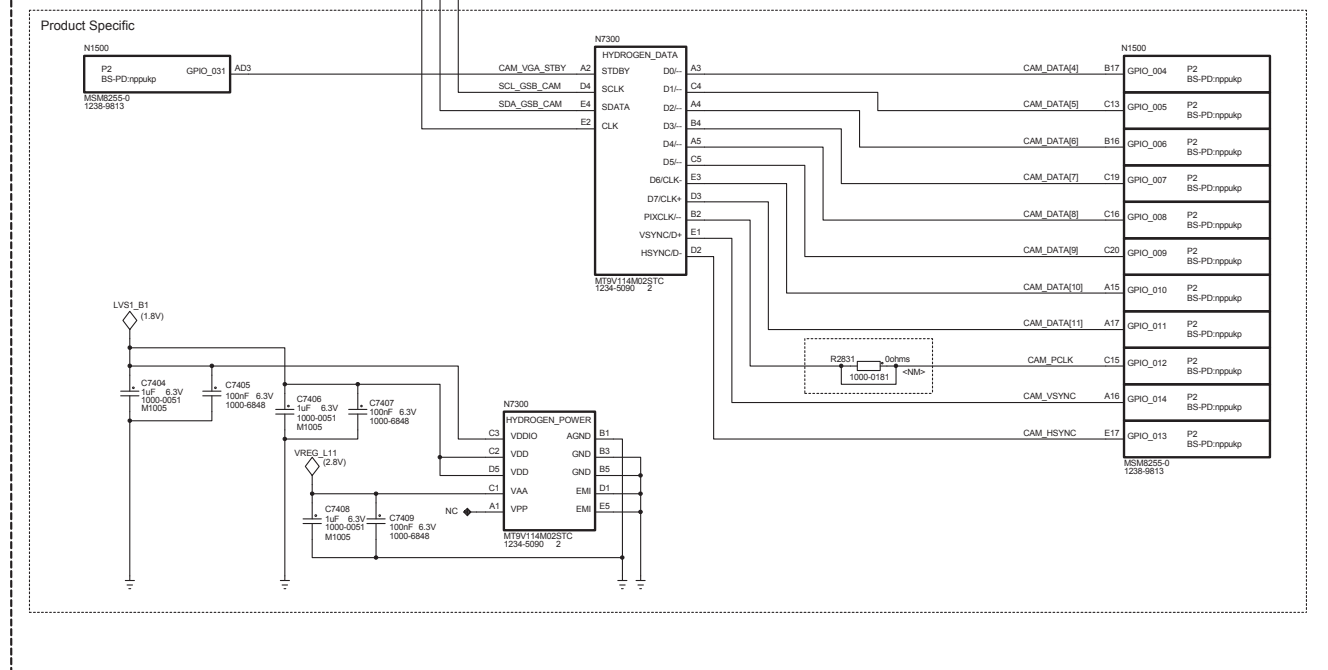
## Main Camera - 7300



# Flash LED Driver - 7800

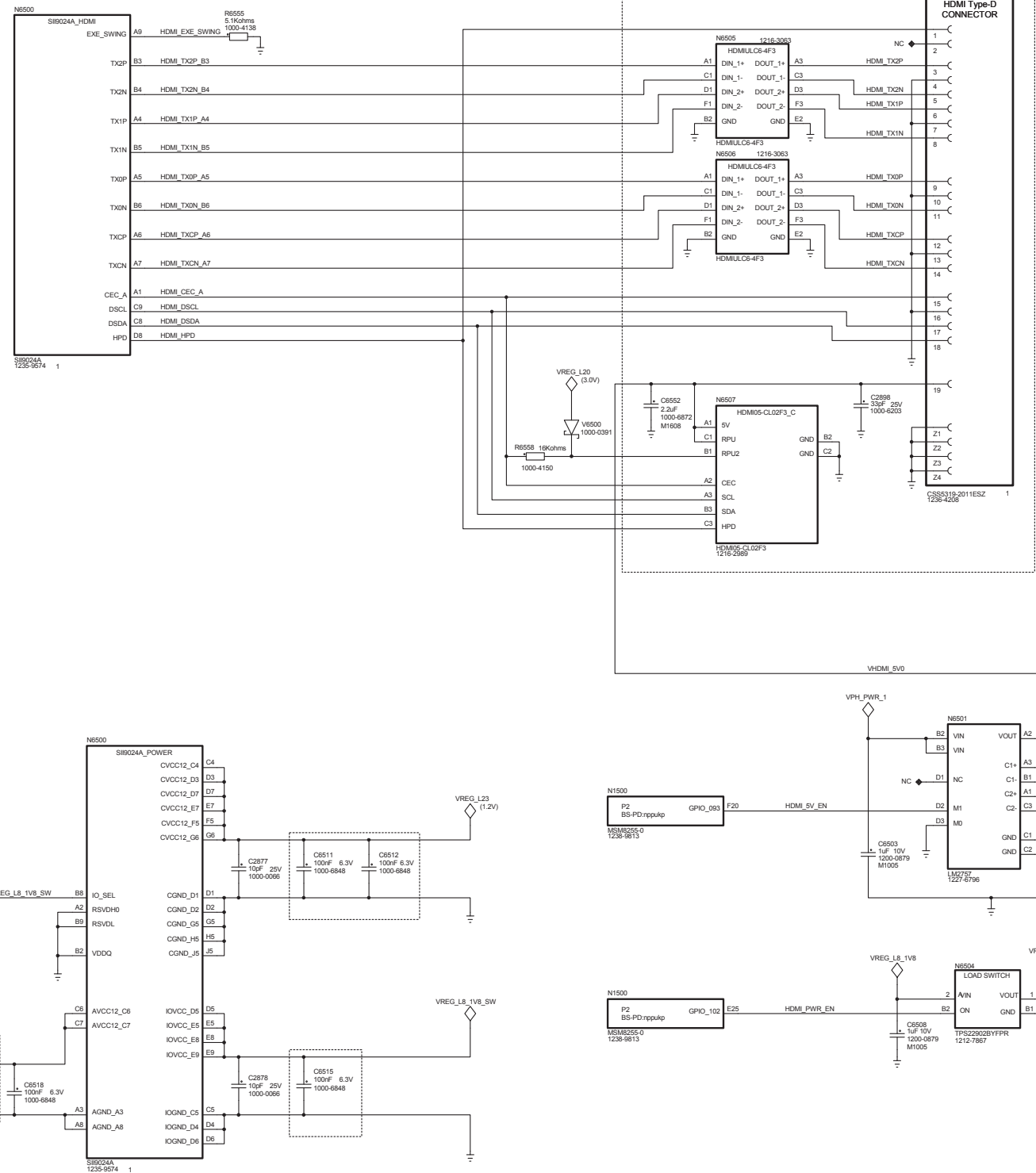
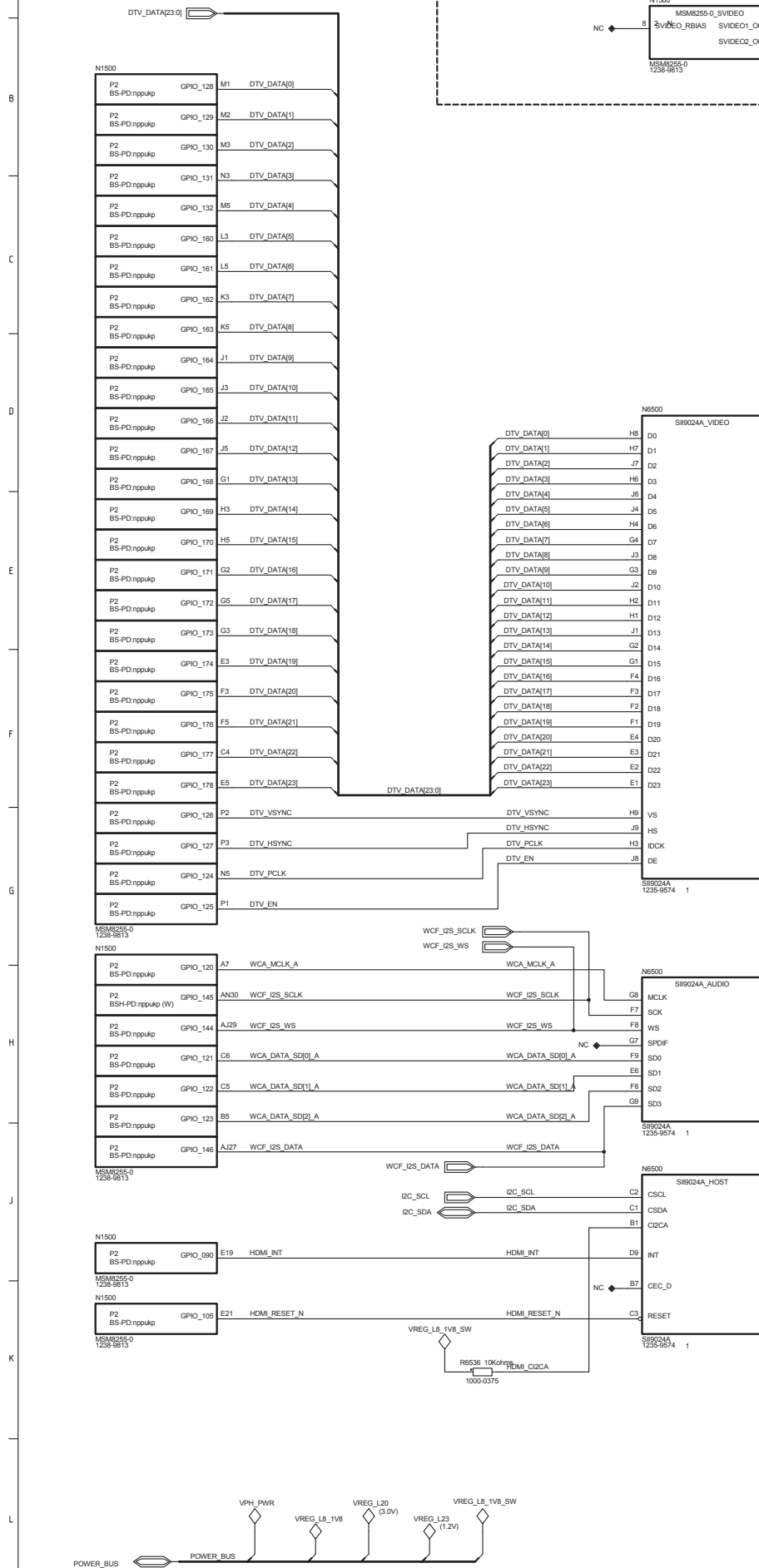
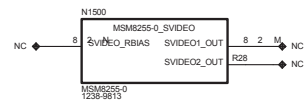


## Sub Camera - 7300



## HDMI - 6500

## Analog TV\_Out - 6400



## Revision History

Rev.	Date	Changes / Comments
1	2011-03-08	1 <sup>st</sup> release
2	2011-03-31	Notes update