



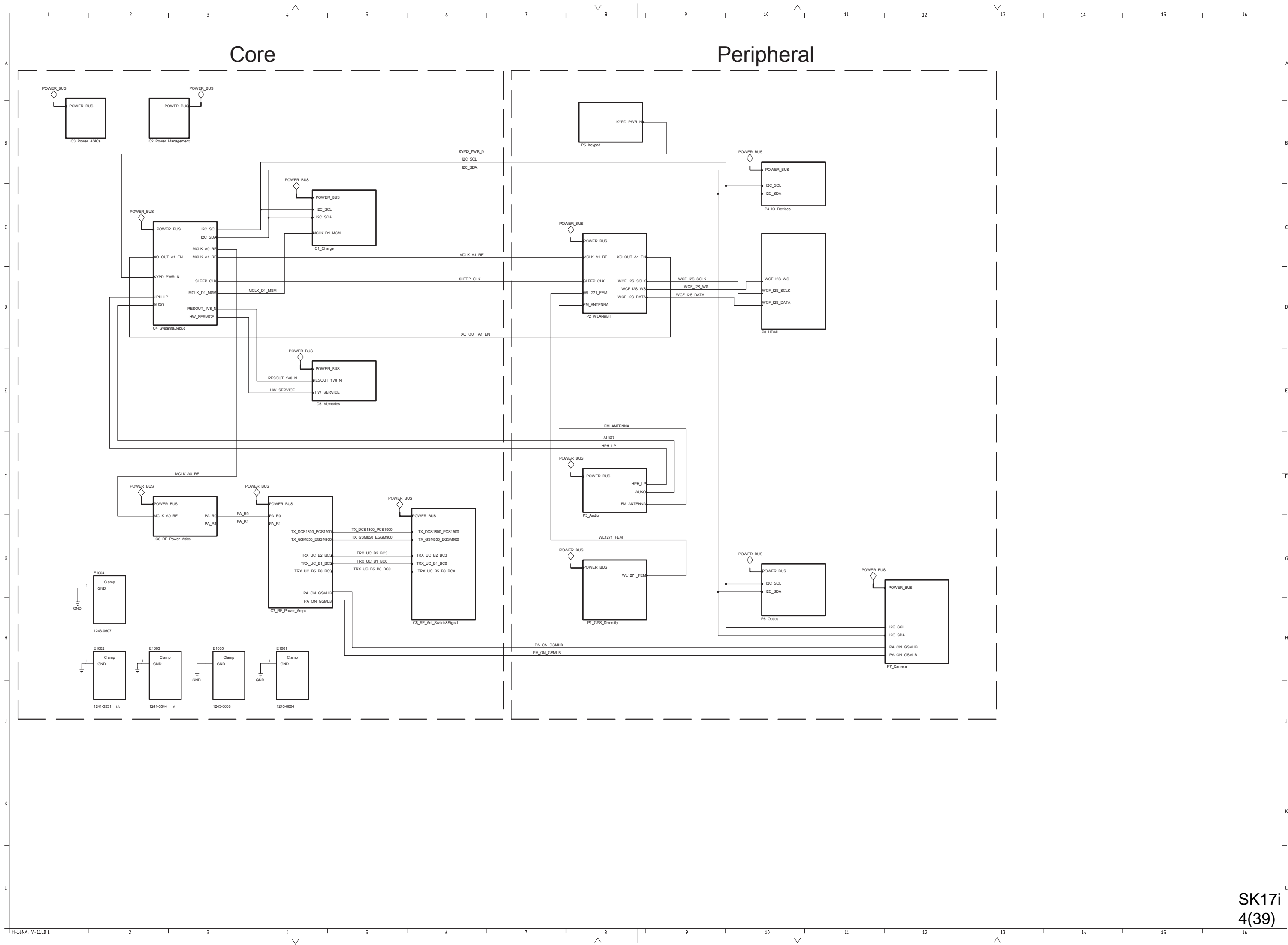
# **Schematics, Electrical**

Applicable for Xperia Mini Pro/SK17

## CONTENTS

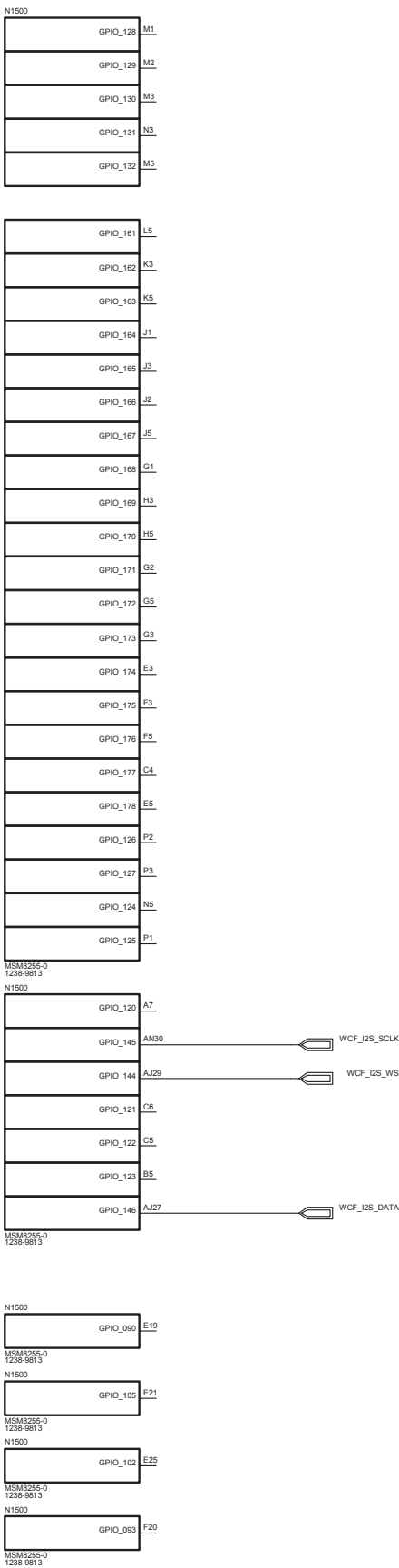
1 SK17i.....	3
2 SK17a.....	21

# SK17i



HDMI - 6500

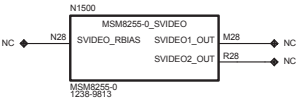
Analog TV\_Out - 6400



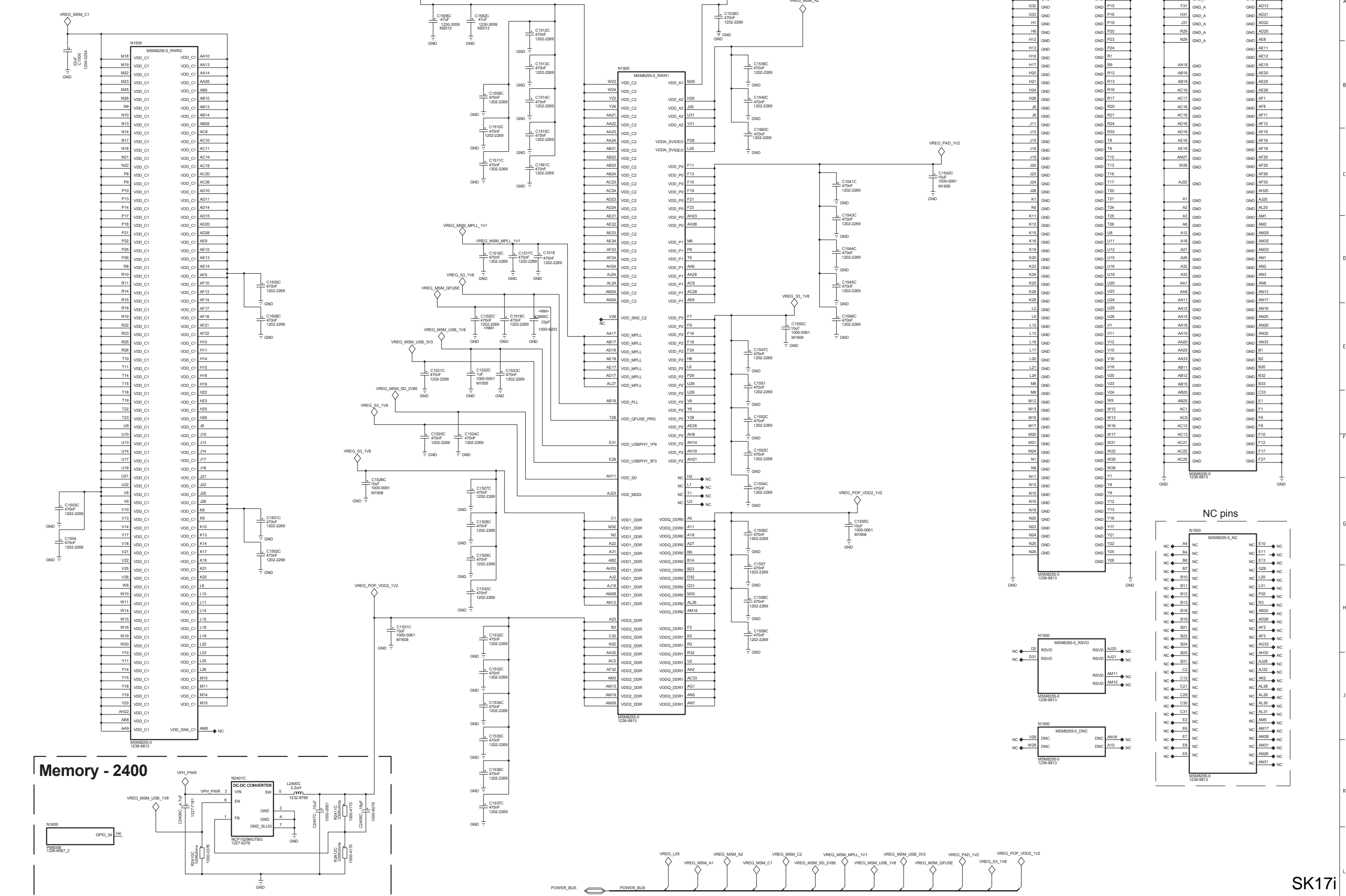
WCF\_I2S\_SCLK

WCF\_I2S\_WS

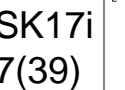
WCF\_I2S\_DATA



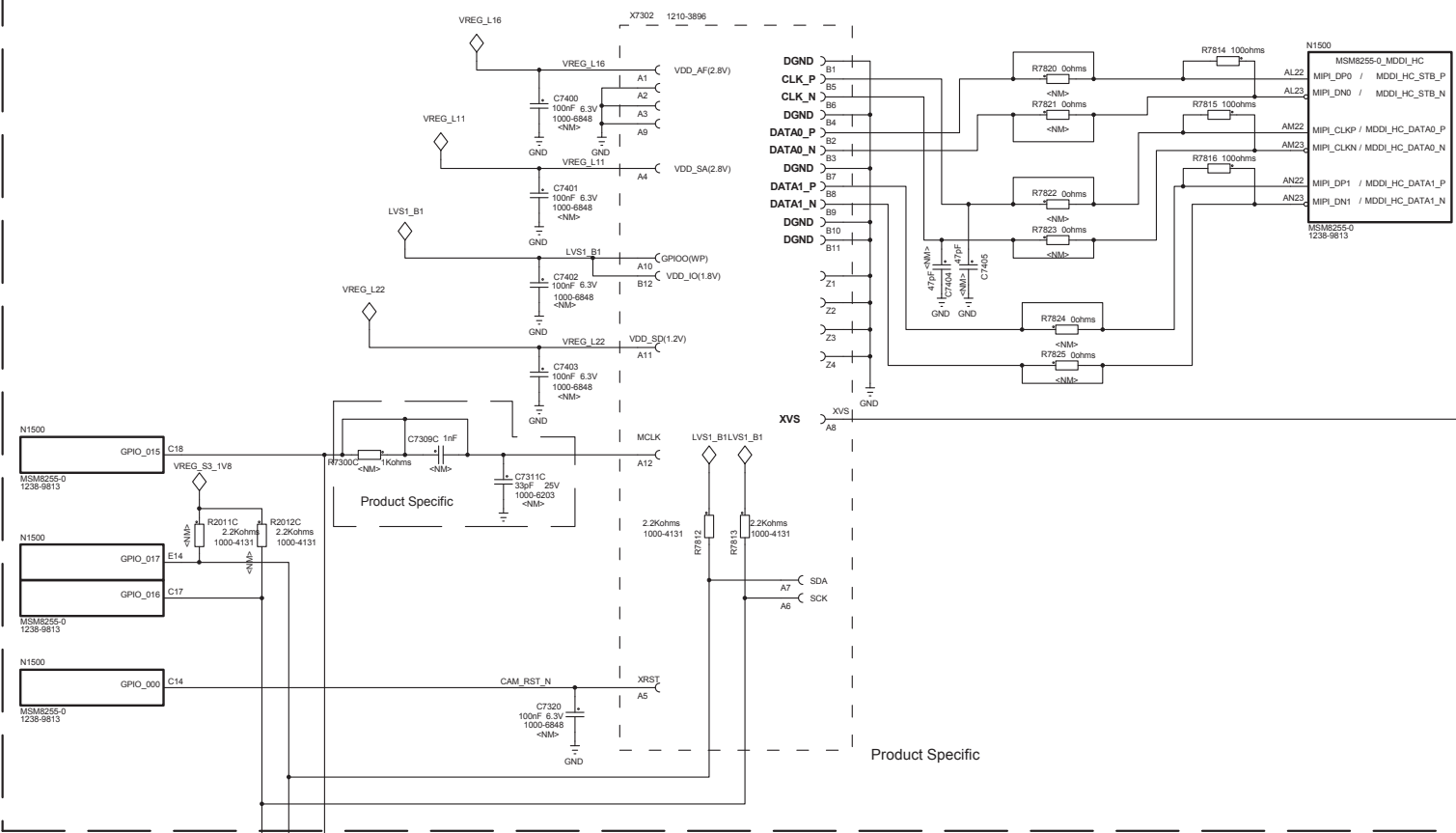
## DB Decoupling - 1500



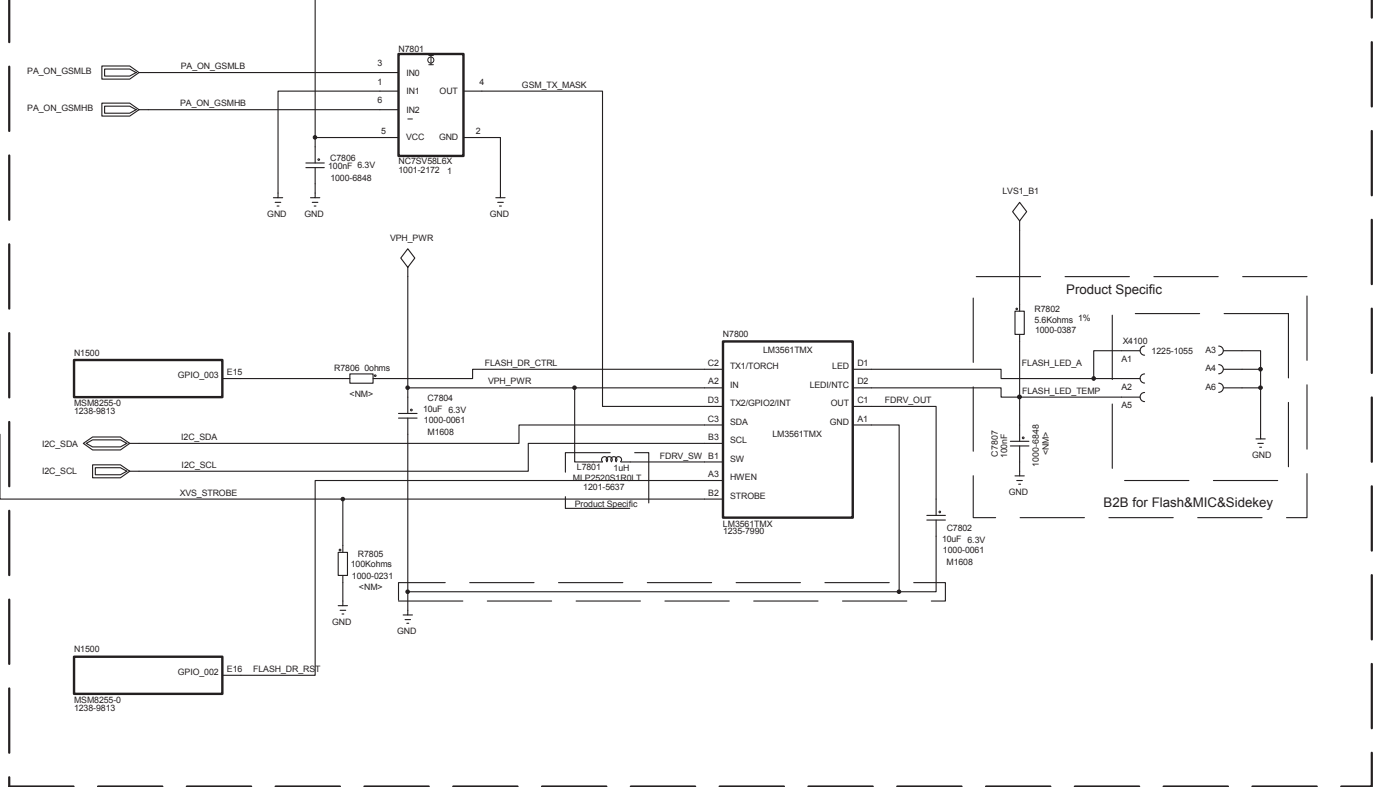
## PM8058 SMPS, LDO, NCP, LVS



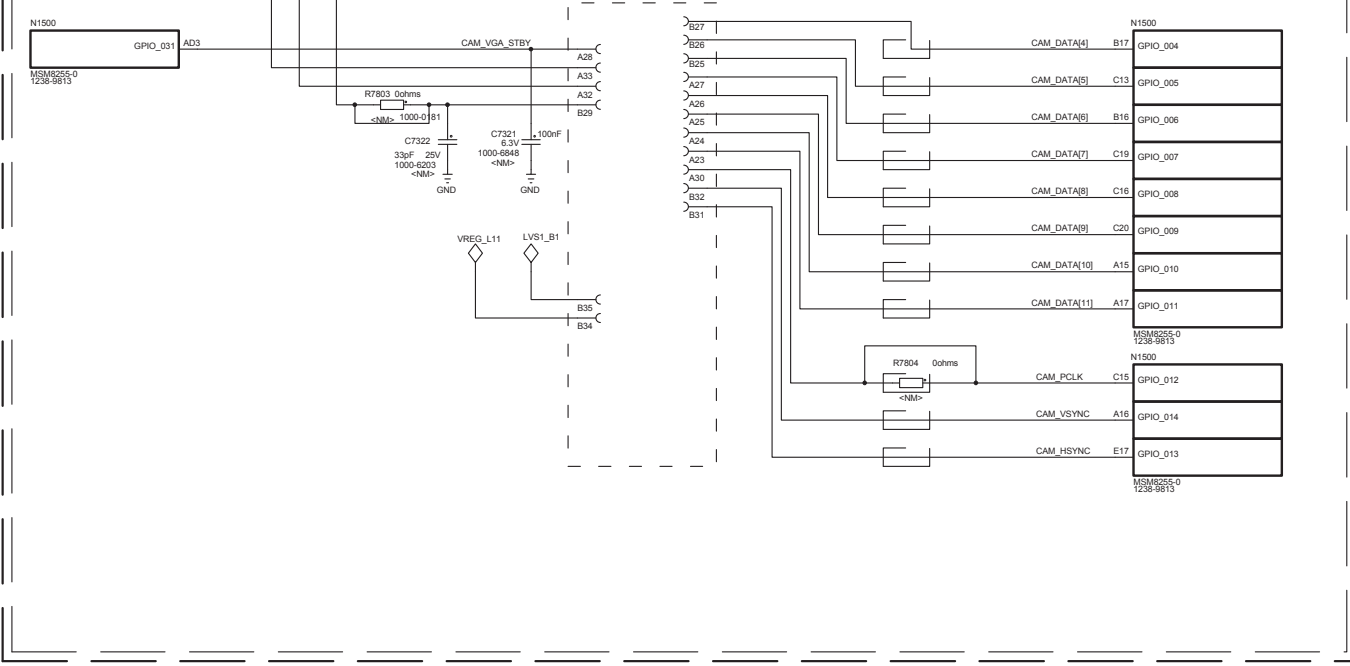
# Main Camera - 7300



# Flash LED Driver - 7800

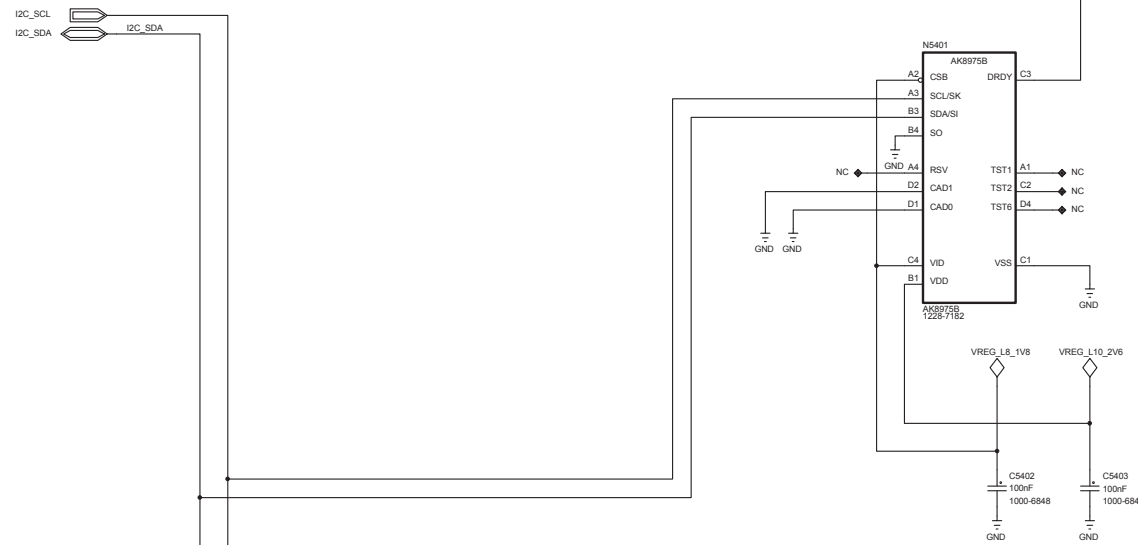


# Sub Camera - 7300

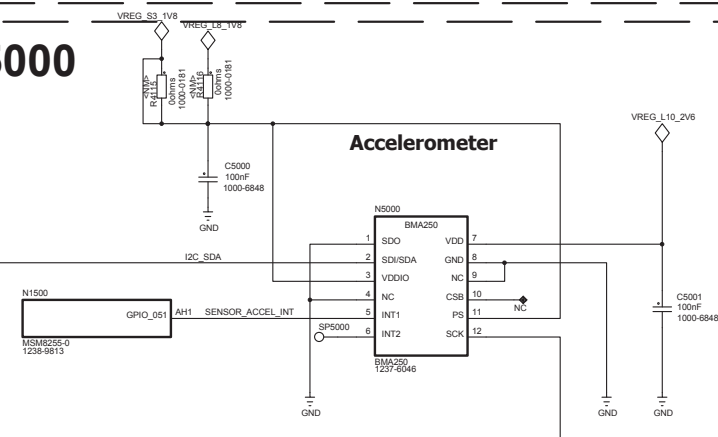




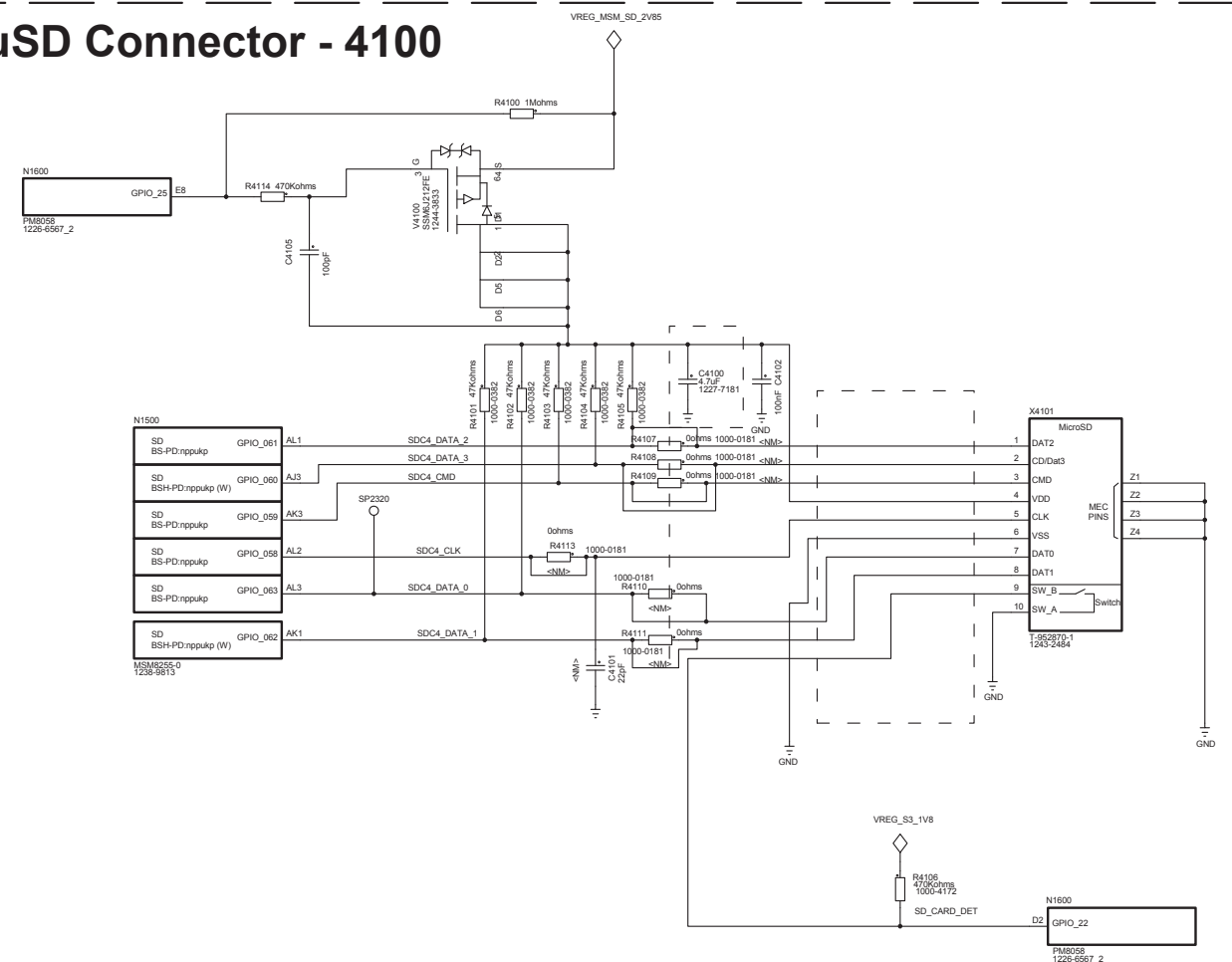
## E-Compass - 5400



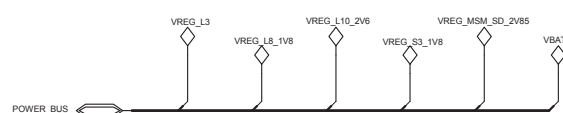
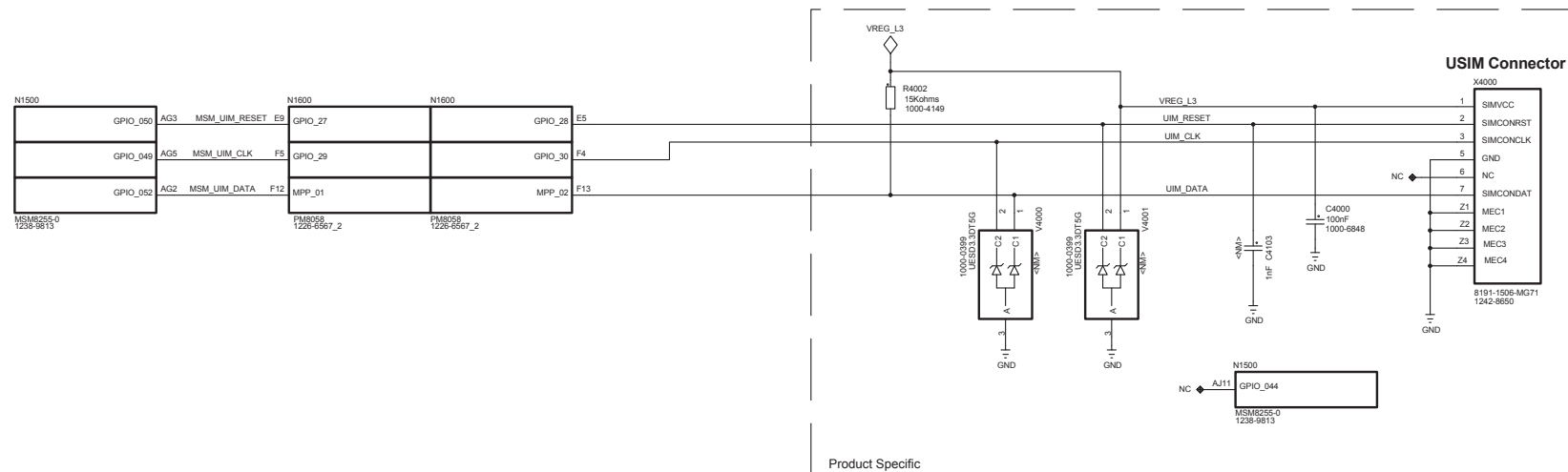
## Accelerometer - 5000



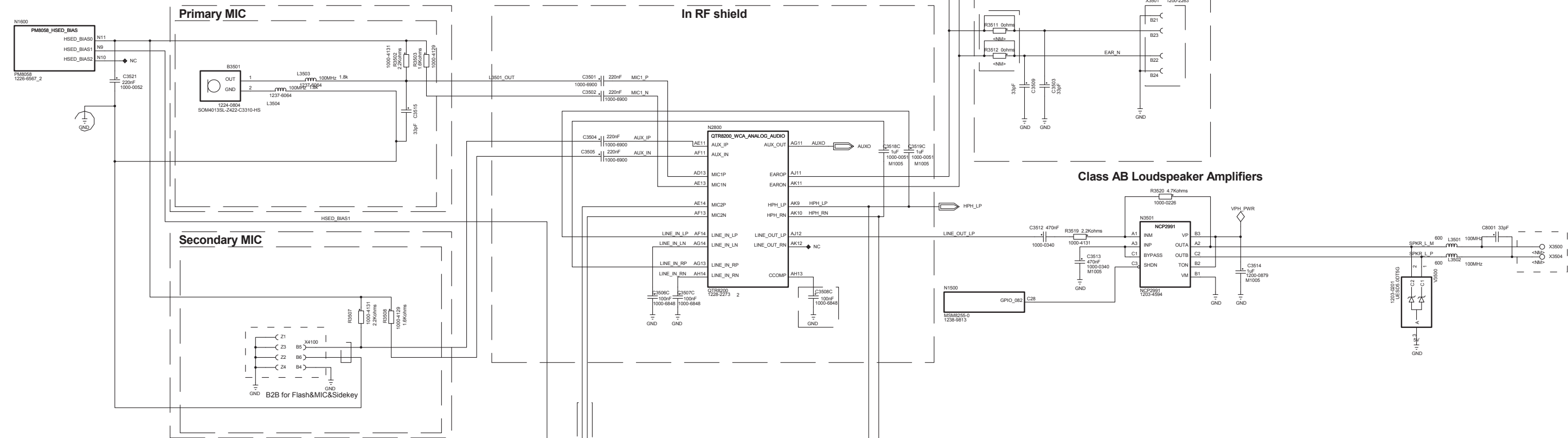
## uSD Connector - 4100



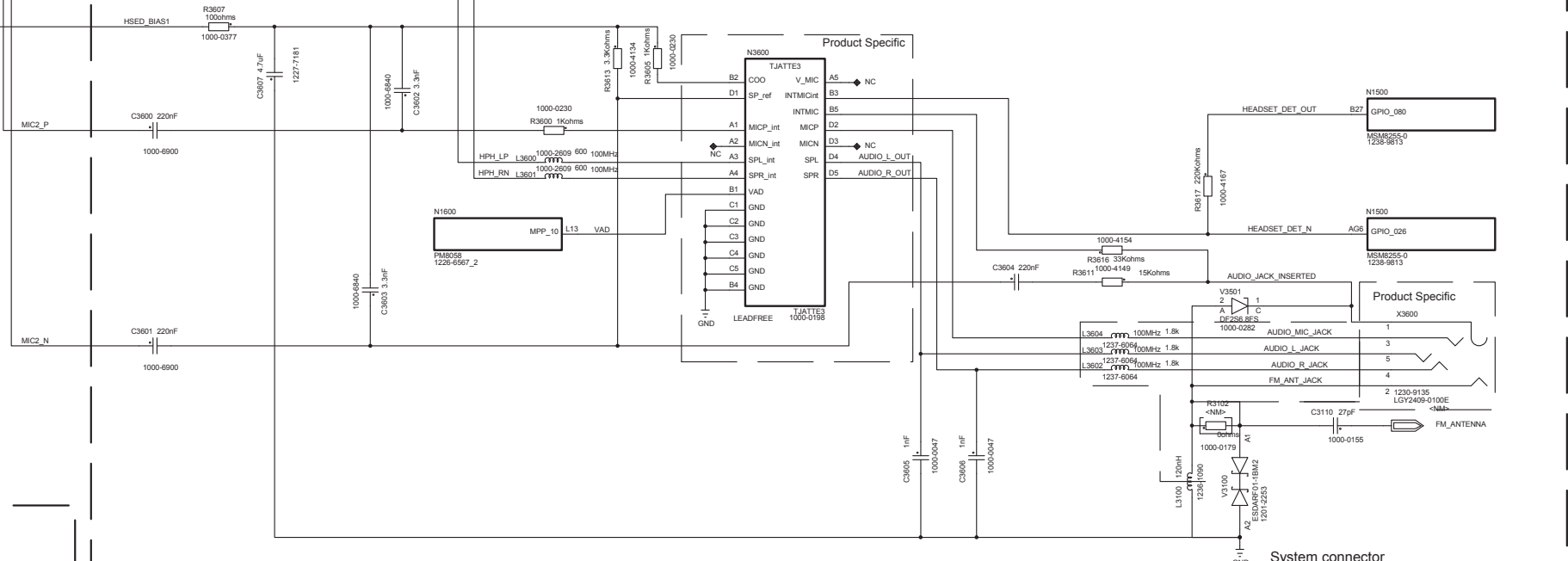
## USIM Connector - 4000



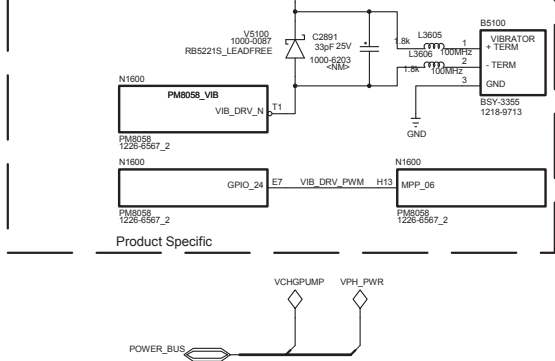
# Analog Audio - 3500



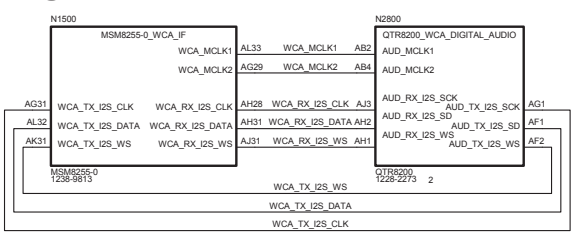
# SE-PORT - 3600



# Vibrator - 5100



# Digital Audio - 3000



## Keyboard(Key Back Light) - 5200

## MMI LED - 5100

## Ambient Light sensor - 5600

## Proximity sensor - 5500

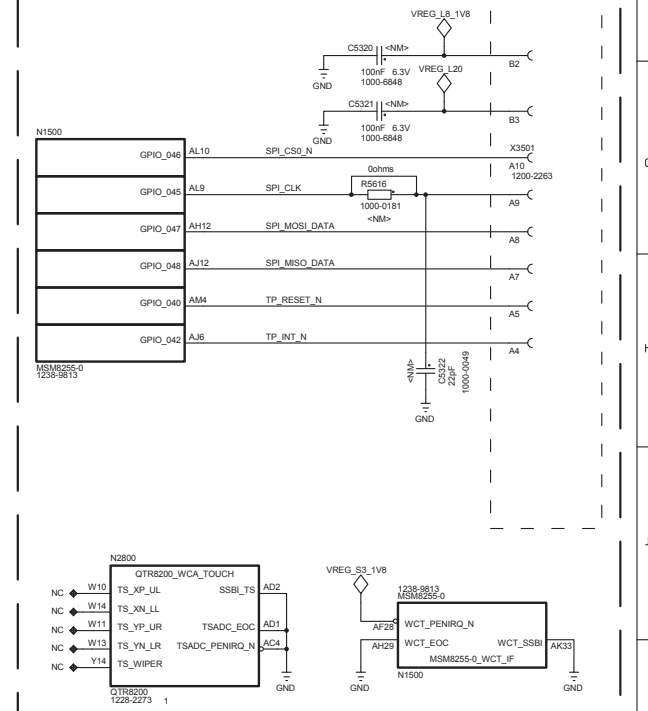
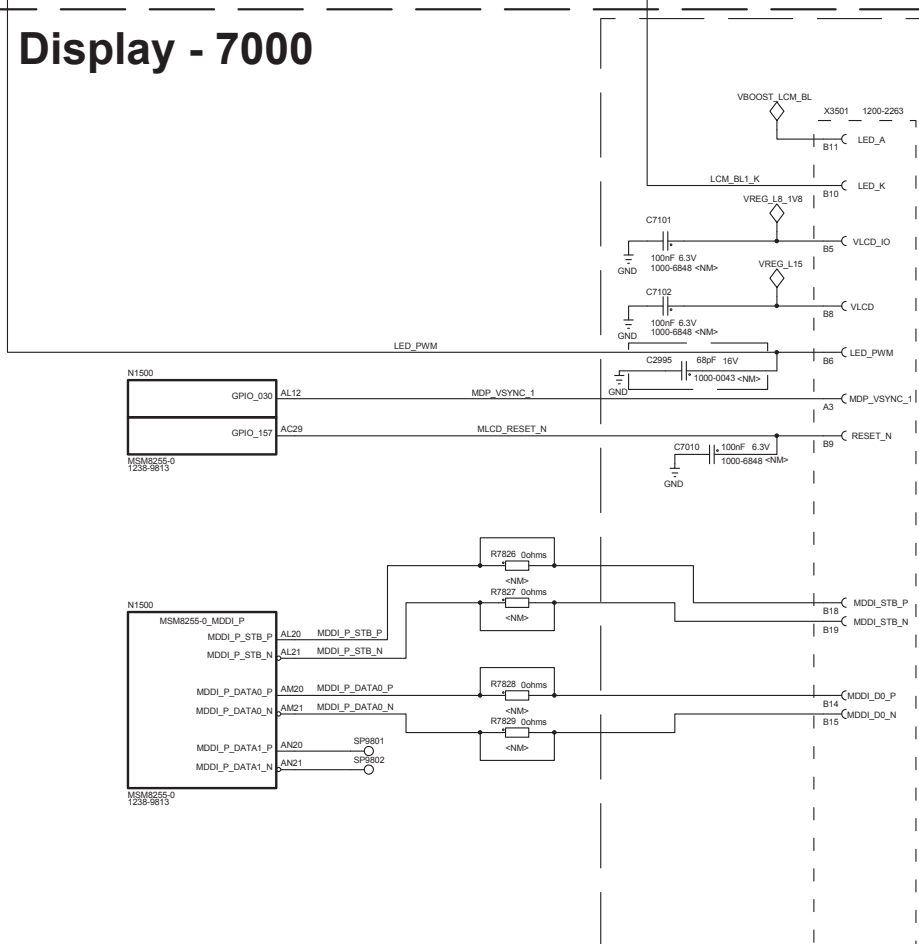
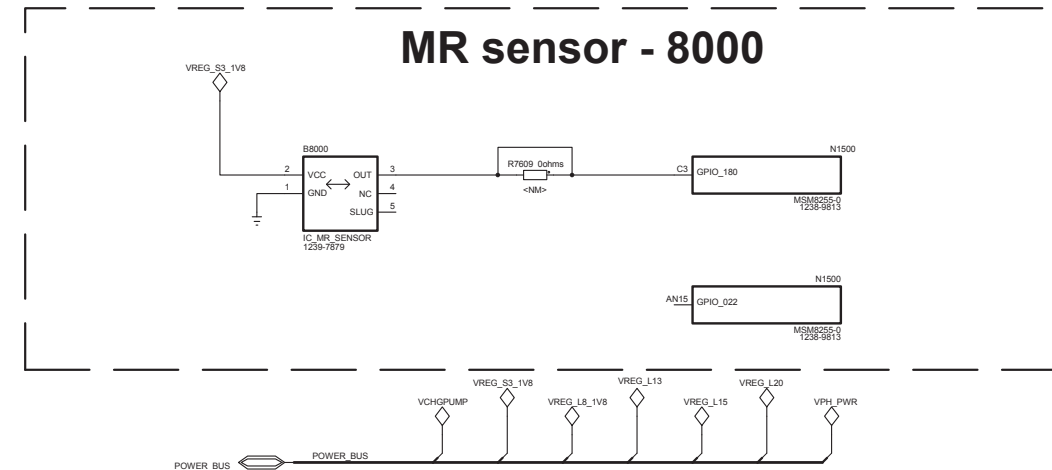
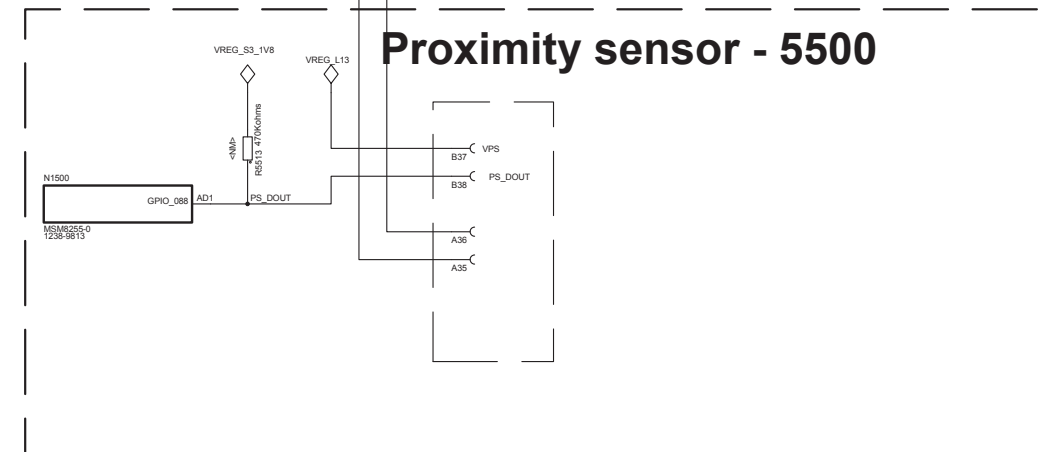
## MR sensor - 8000

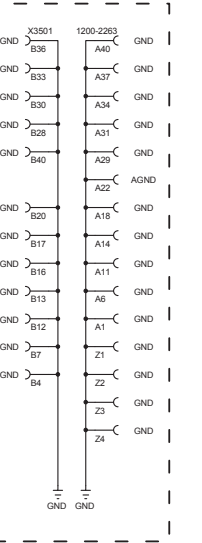
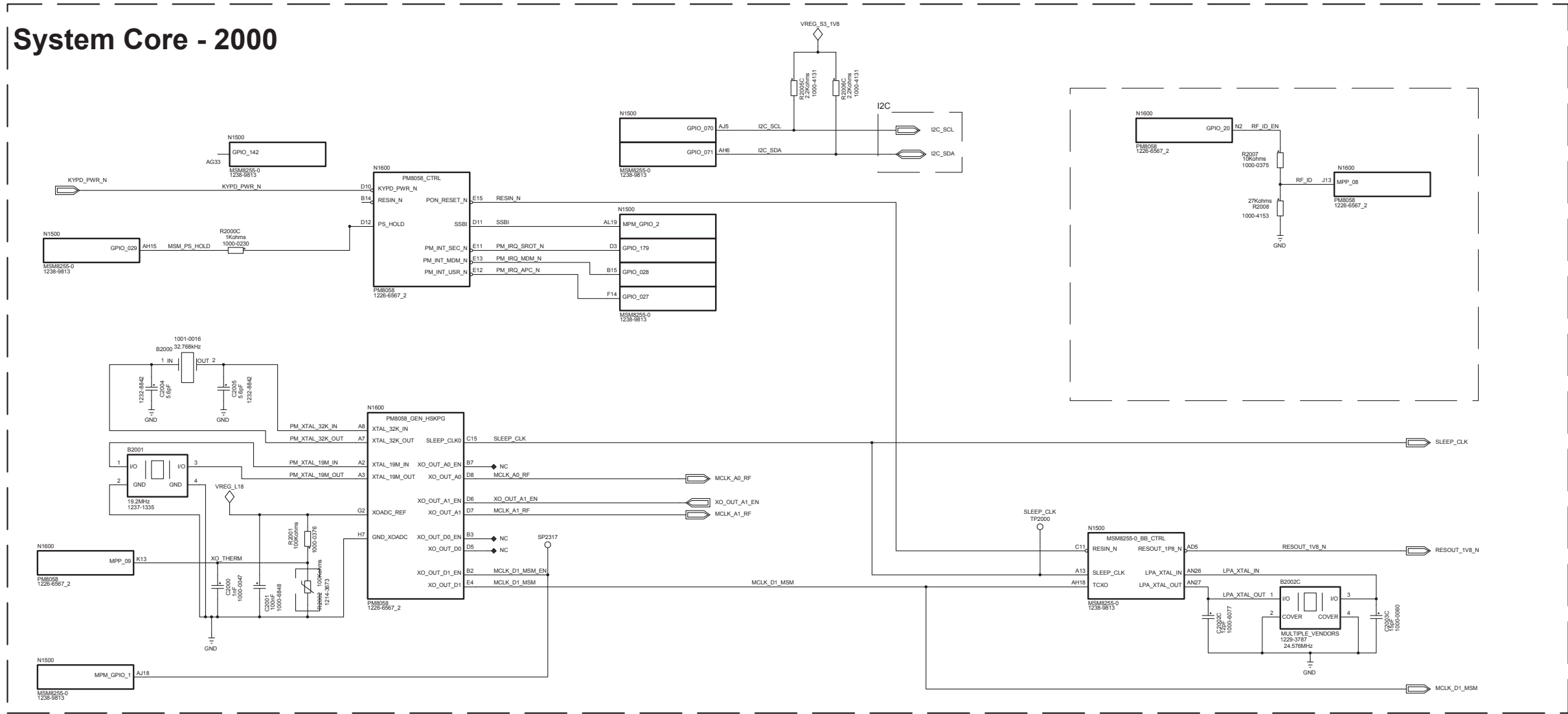
## LMU - 7600

## Display - 7000

## Touch sensor - 5300

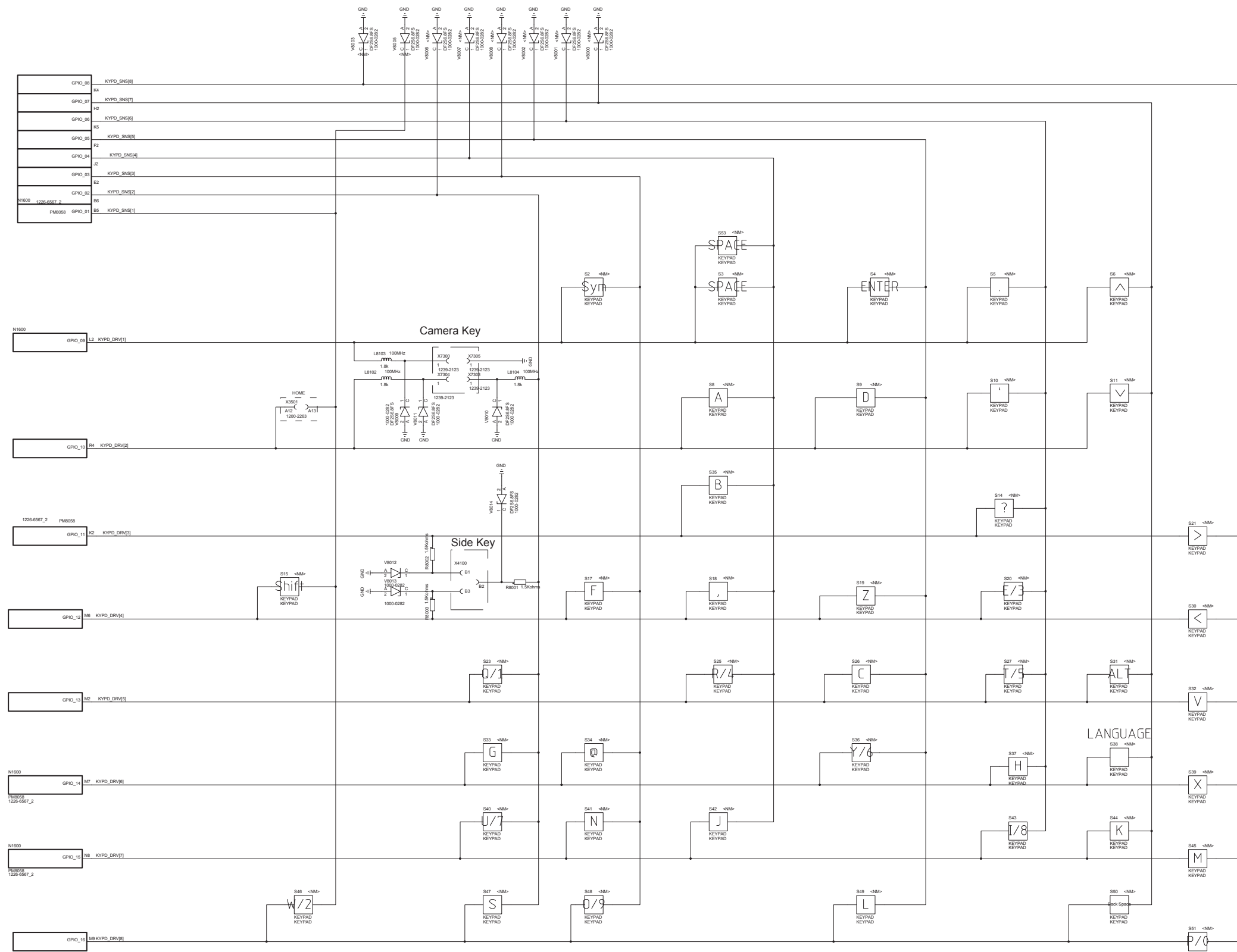
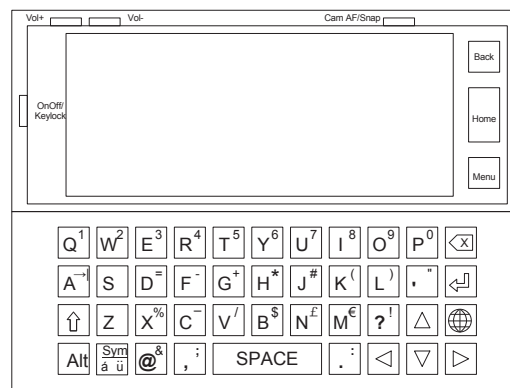
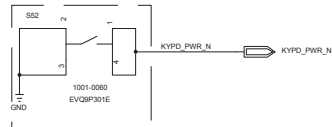
I2C\_SDA I2C\_SCL



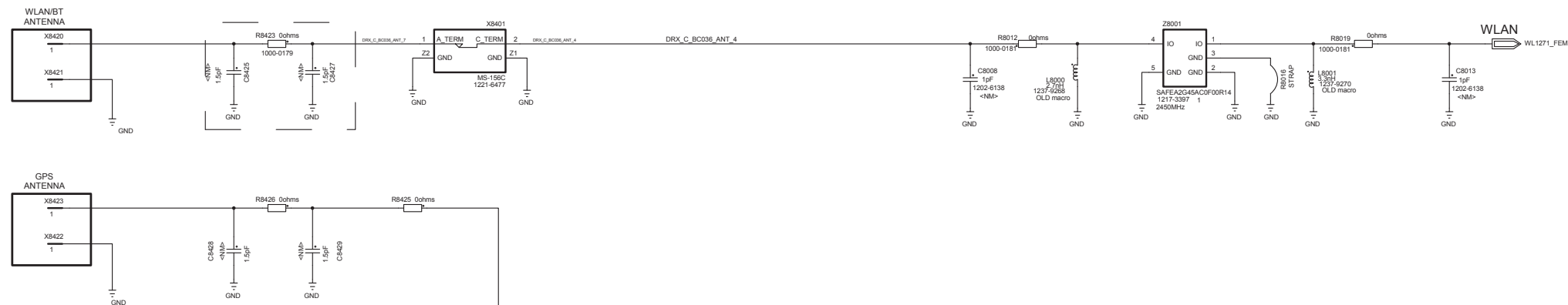


## Keyboard - 5200

ON/OFF

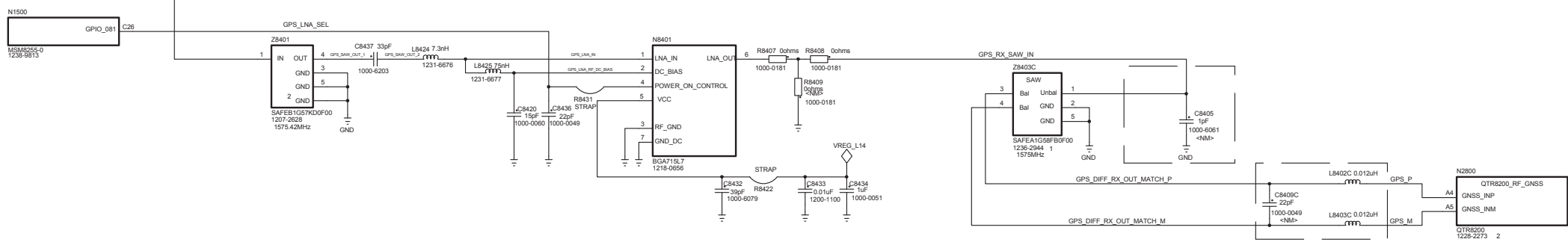


Product Specific



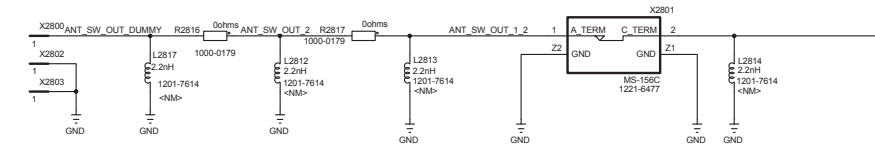
AGPS

GPS/GNSS\_PRIMARY\_SYSTEM -8400



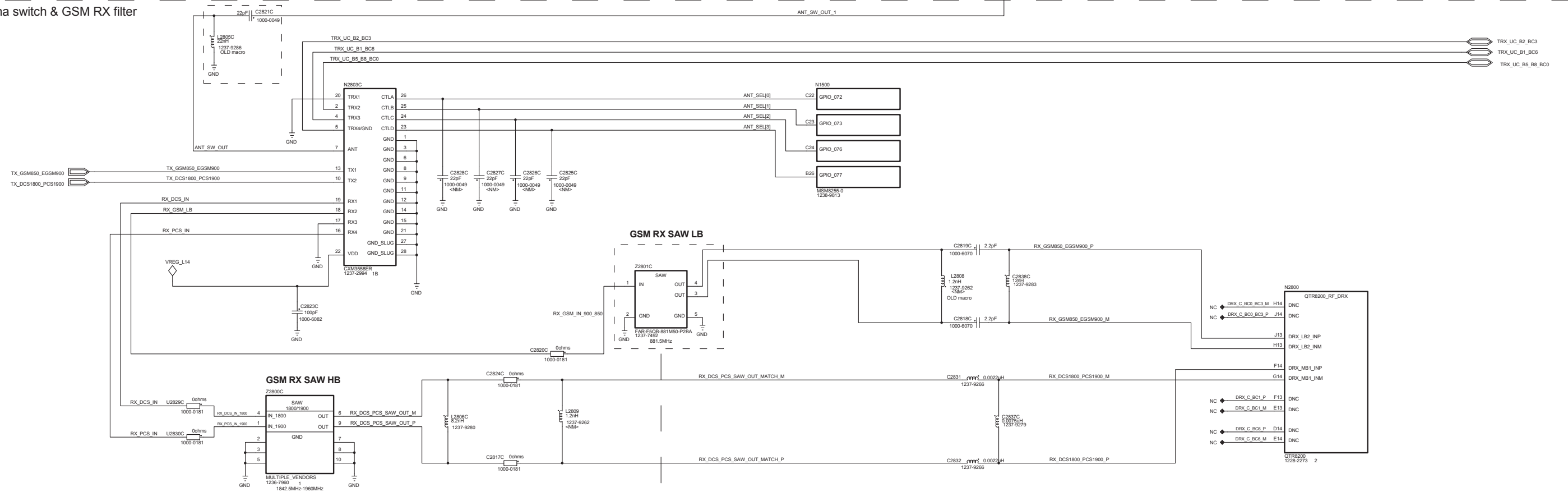
Antenna matching  
-2800,9600

## RF ANTENNA CONNECTOR



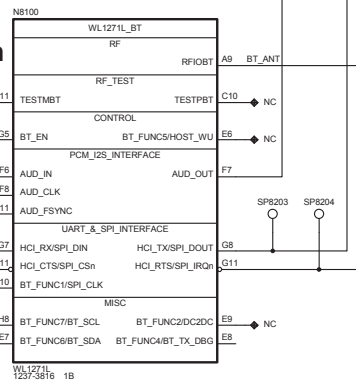
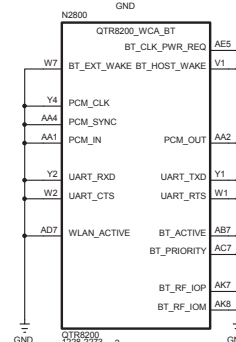
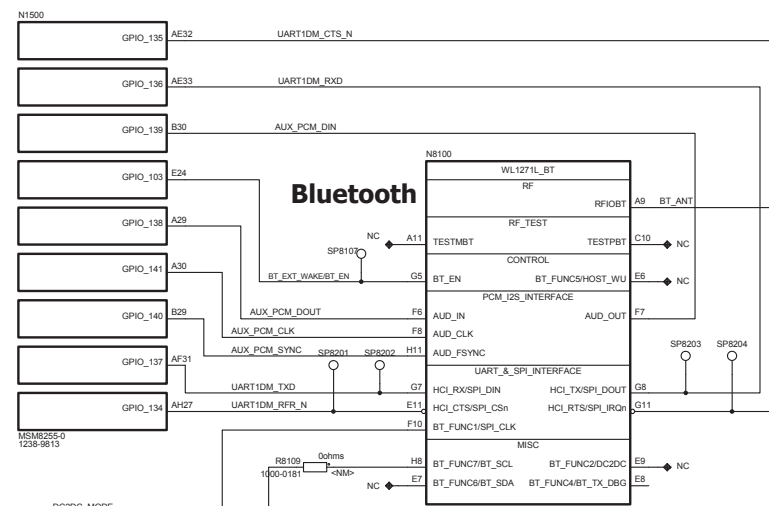
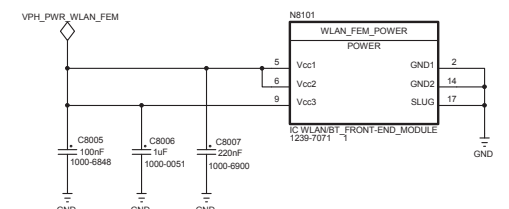
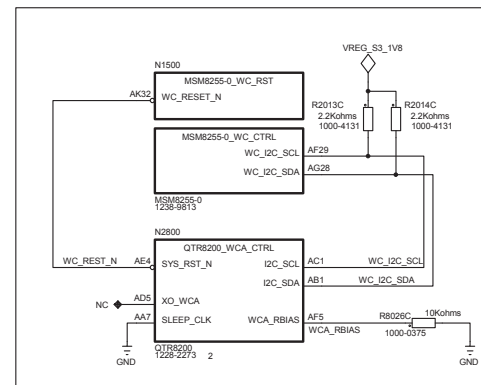
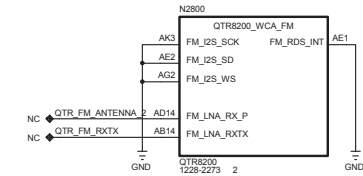
### Product Specific

Antenna switch & GSM RX filter  
-2800

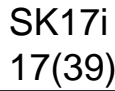


SK17i  
15(39)

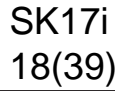
# WL1271L WLAN/BT SIGNALS&POWER





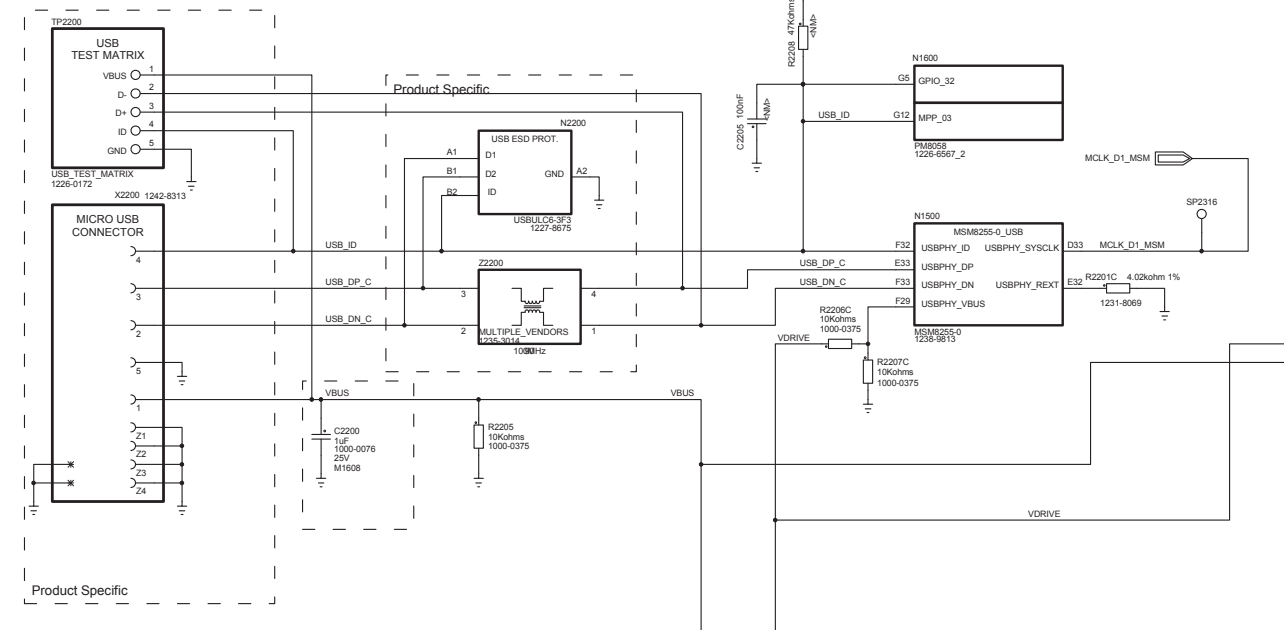


## UMTS Band 5

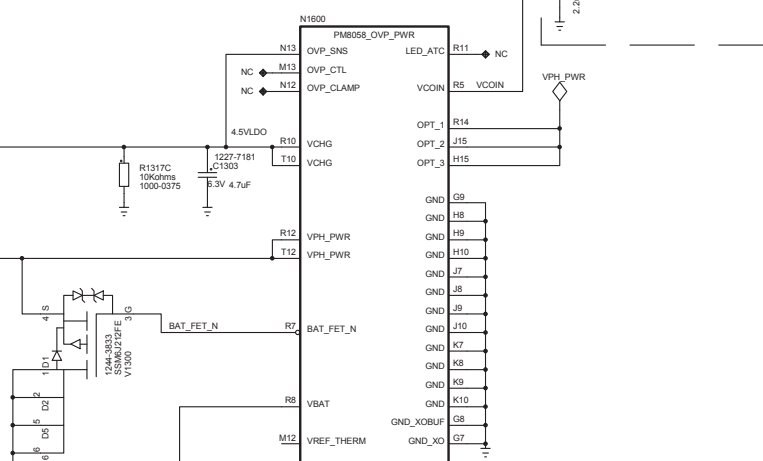


# Charging and Battery Management - 1300

## USB - 2200



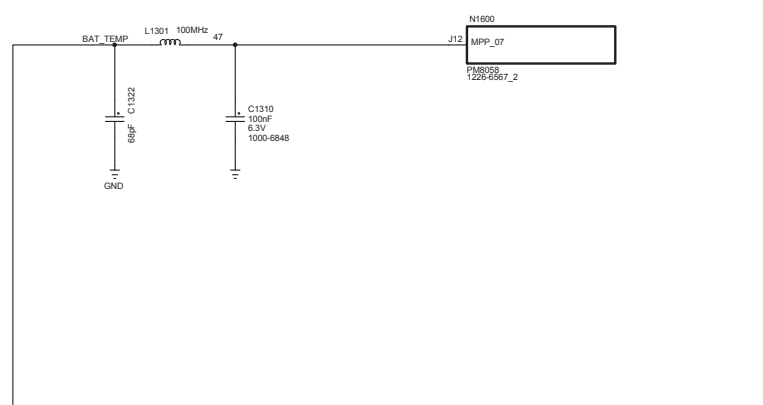
## PM8058 OVP, Charger



## BAT\_FET



## BATTERY CONNECTOR



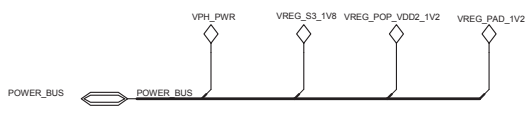
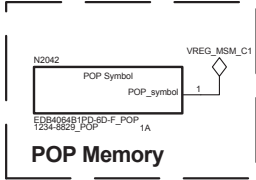
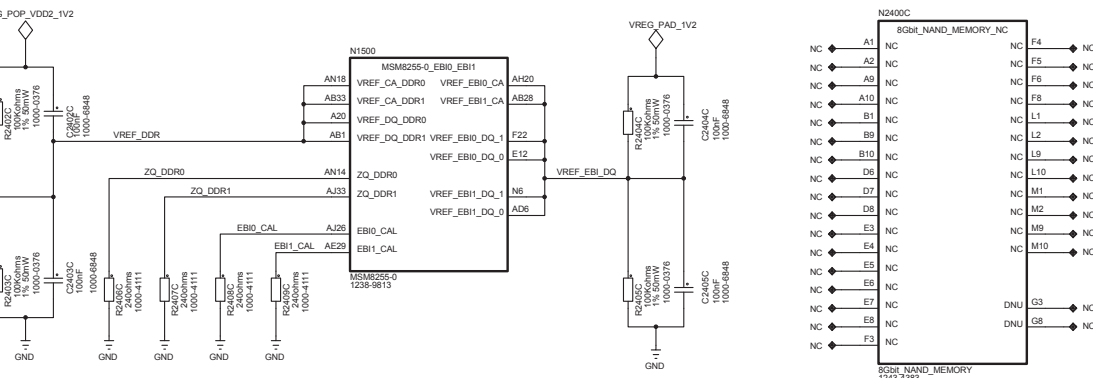
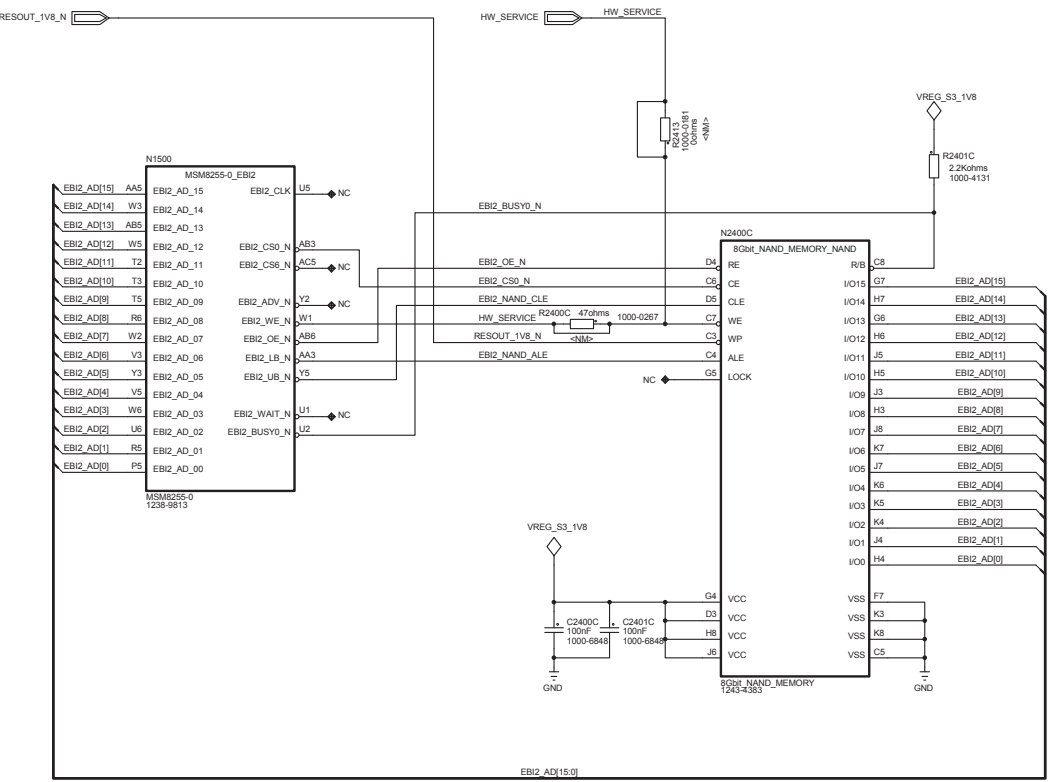
## Product Specific



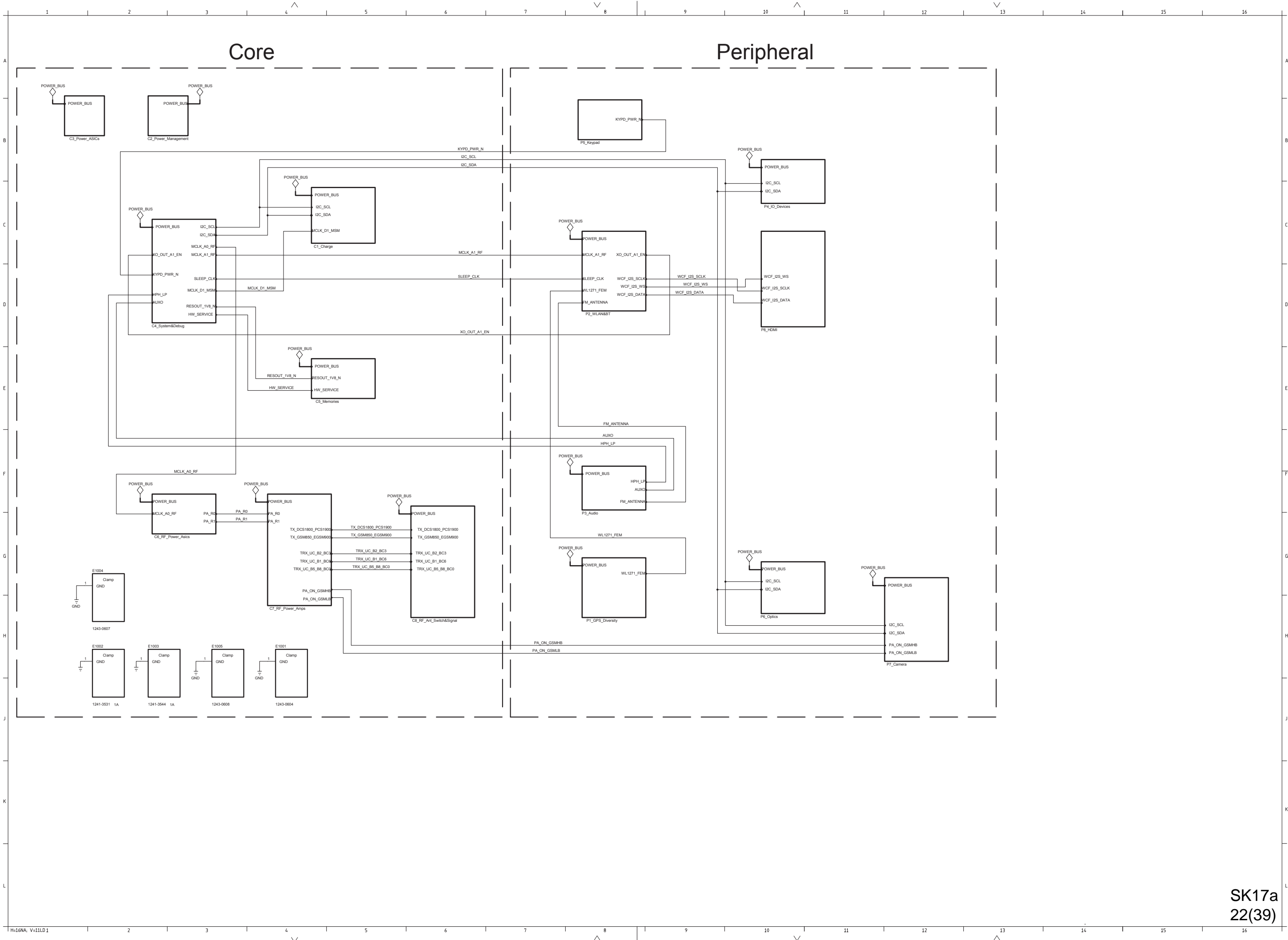
## POWER BUS



Memory - 2400

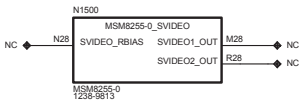


# SK17a



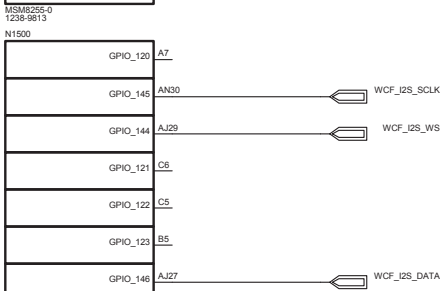
HDMI - 6500

Analog TV\_Out - 6400



N1500	GPIO_128	M1
	GPIO_129	M2
	GPIO_130	M3
	GPIO_131	N3
	GPIO_132	M5

	GPIO_161	L5
	GPIO_162	K3
	GPIO_163	K5
	GPIO_164	J1
	GPIO_165	J3
	GPIO_166	J2
	GPIO_167	J5
	GPIO_168	G1
	GPIO_169	H3
	GPIO_170	H5
	GPIO_171	G2
	GPIO_172	G5
	GPIO_173	G3
	GPIO_174	E3
	GPIO_175	F3
	GPIO_176	F5
	GPIO_177	C4
	GPIO_178	E5
	GPIO_126	P2
	GPIO_127	P3
	GPIO_124	N5
	GPIO_125	P1



N1500	GPIO_090	E19
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MSM8255-0 1238-9813

N1500	GPIO_105	E21
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MSM8255-0 1238-9813

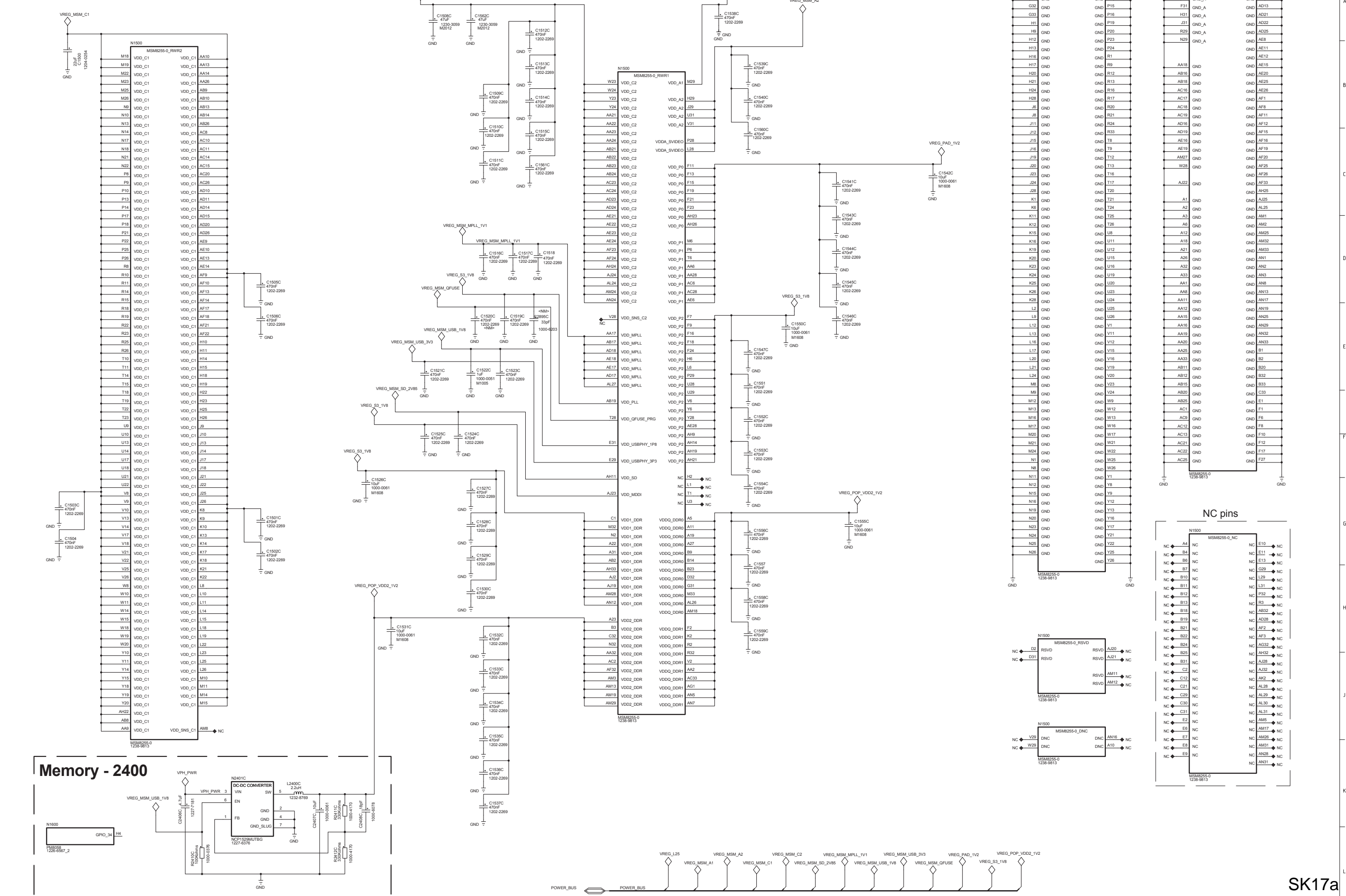
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MSM8255-0 1238-9813

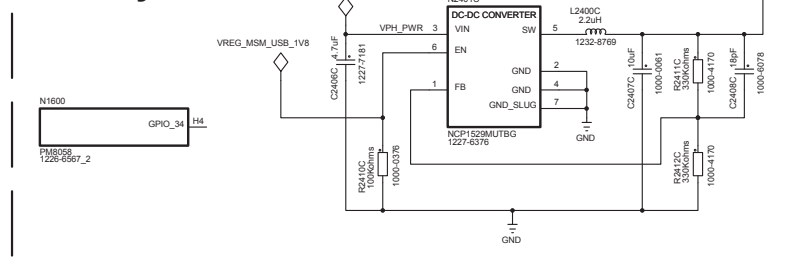
N1500	GPIO_093	F20
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MSM8255-0 1238-9813

## DB Decoupling - 1500



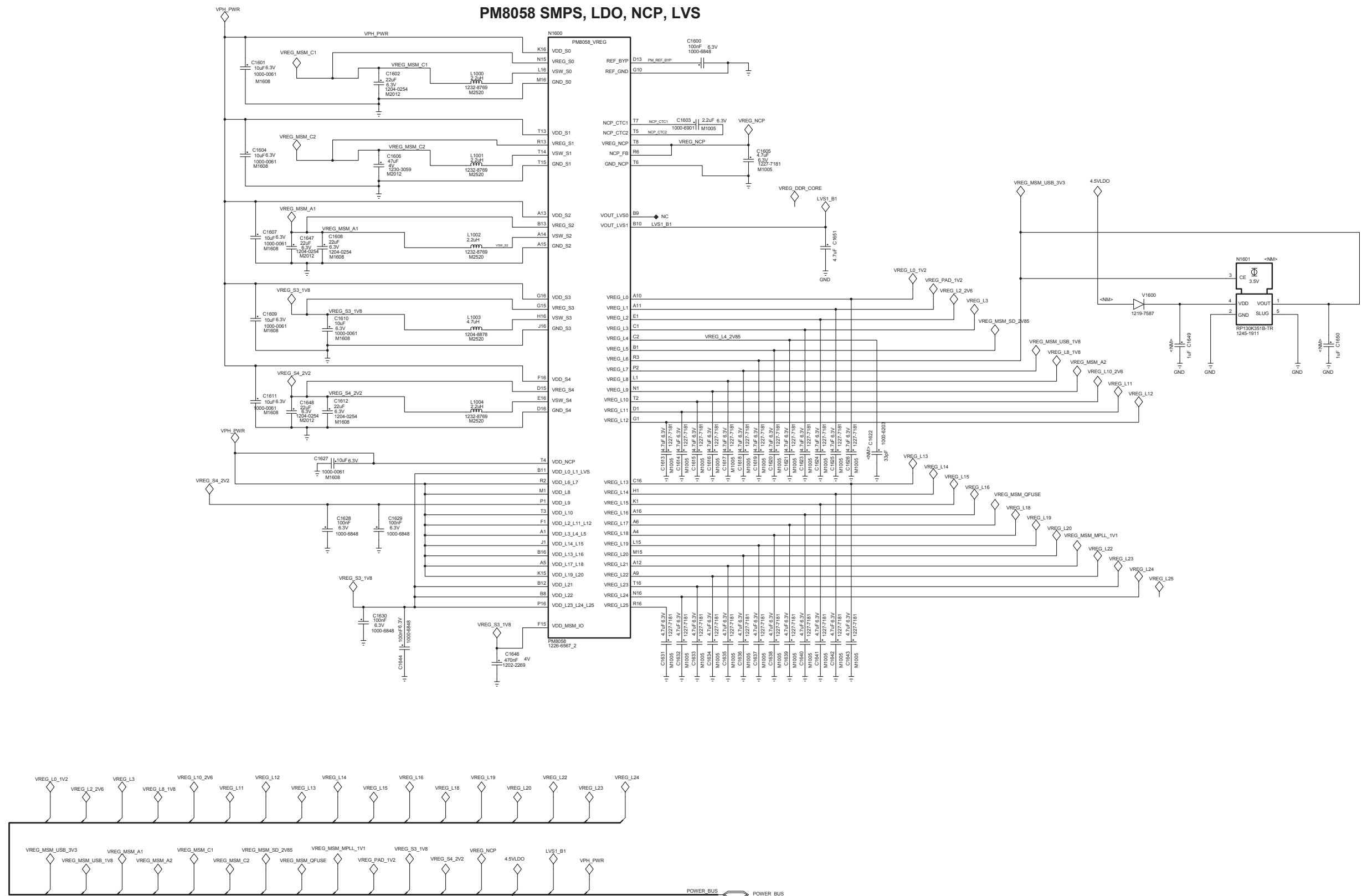
**Memory - 2400**



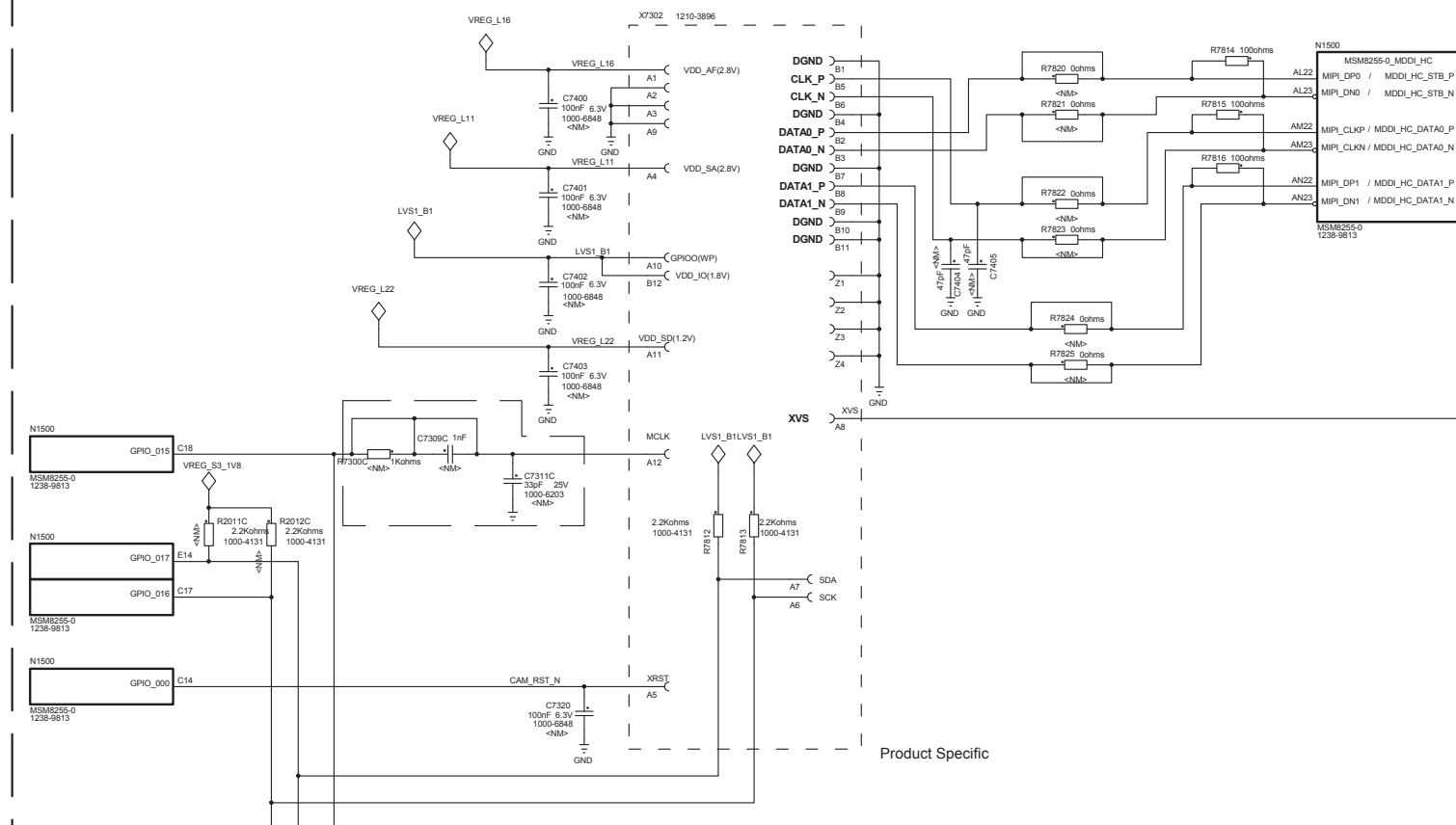
SK17a	
24(39)	



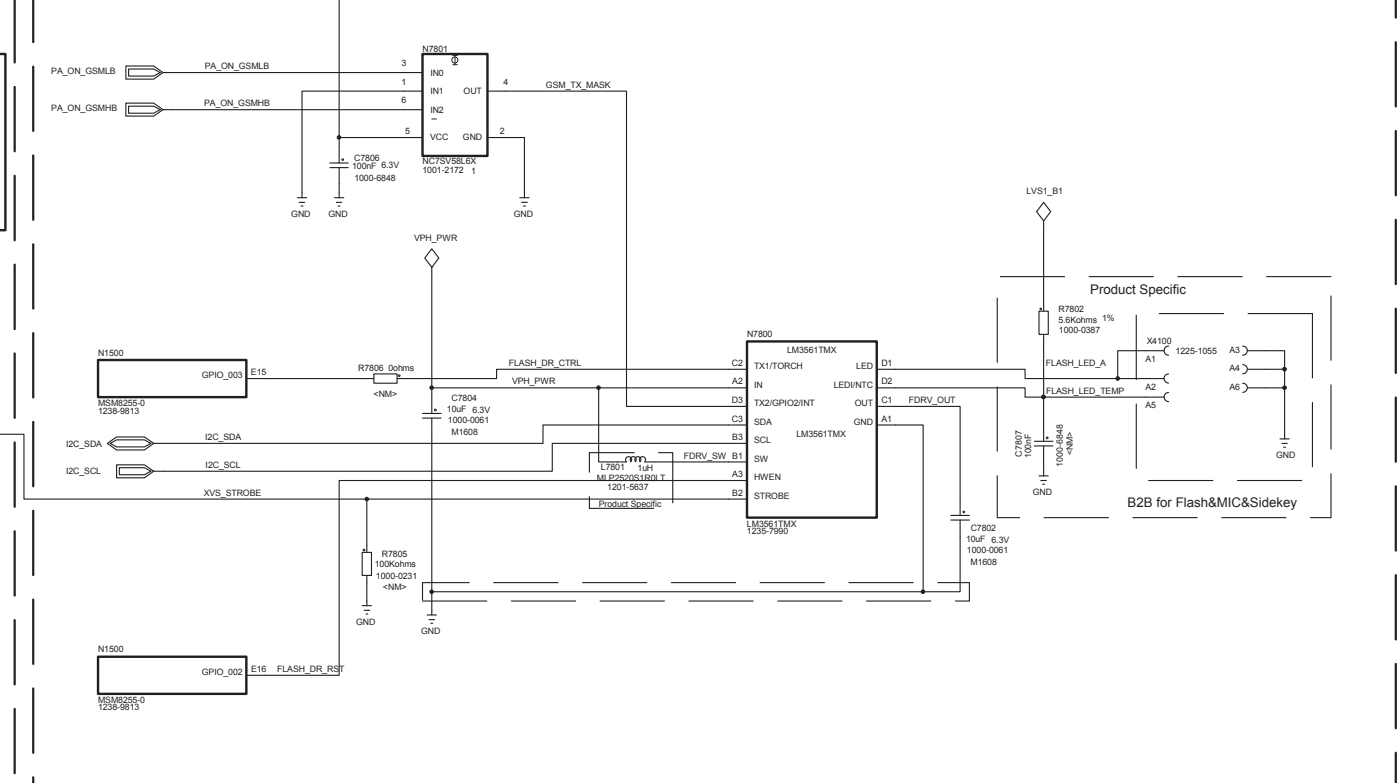
## Power Management - 1000



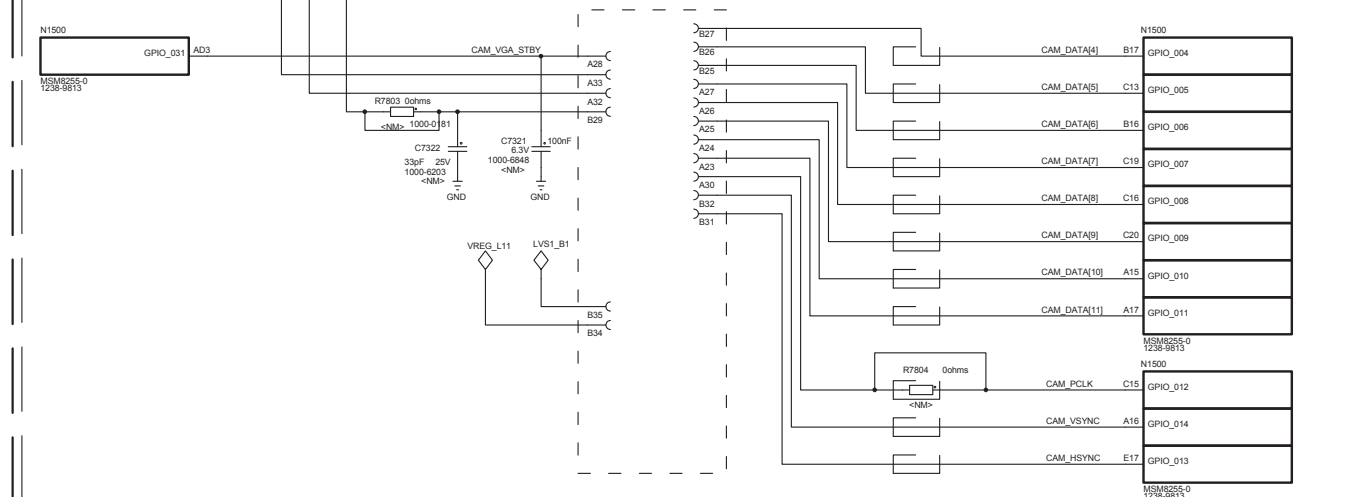
## Main Camera - 7300



## Flash LED Driver - 7800



### Sub Camera - 7300



## E-Compass - 5400

I2C\_SCL  
I2C\_SDA

### 3-Axis Compass

N1500  
MSM8255-0  
1238-9813

COMPASS\_INT  
AJ14

GPIO\_092

N5401  
AK8975B

CSB  
SCL/SK  
SDA/SI  
SO

RSV  
D2  
D1  
C4  
B1

VID  
VDD

AK8975B  
1228-1182

VREG\_L8\_1V8  
VREG\_L10\_2V6

C5402  
100nF  
1000-6848

C5403  
100nF  
1000-6848

## Accelerometer - 5000

### Accelerometer

N1500  
MSM8255-0  
1238-9813

GPIO\_051  
AH1

SENSOR\_ACCEL\_INT

SP5000

INT1  
INT2  
SCK

N5000  
BMA250  
1237-8546

VREG\_L8\_1V8  
VREG\_L10\_2V6

C5000  
100nF  
1000-6848

## USIM Connector - 4000

### USIM Connector

N1500  
MSM8255-0  
1238-9813

GPIO\_050  
AG3

MSM\_UM\_RESET  
E9

N1500  
GPIO\_27

N1600  
GPIO\_28

GPIO\_29

GPIO\_30

GPIO\_31

GPIO\_32

GPIO\_33

GPIO\_34

GPIO\_35

GPIO\_36

GPIO\_37

GPIO\_38

GPIO\_39

GPIO\_40

GPIO\_41

GPIO\_42

GPIO\_43

GPIO\_44

GPIO\_45

GPIO\_46

GPIO\_47

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GPIO\_205

GPIO\_206

GPIO\_207

GPIO\_208

GPIO\_209

GPIO\_210

GPIO\_211

GPIO\_212

GPIO\_213

GPIO\_214

GPIO\_215

GPIO\_216

GPIO\_217

GPIO\_218

GPIO\_219

GPIO\_220

GPIO\_221

GPIO\_222

GPIO\_049

AG5

MSM\_UM\_CLK

F8

GPIO\_29

GPIO\_30

GPIO\_31

GPIO\_32

GPIO\_33

GPIO\_34

GPIO\_35

GPIO\_36

GPIO\_37

GPIO\_38

GPIO\_39

GPIO\_40

GPIO\_41

GPIO\_42

GPIO\_052

AG2

MSM\_UM\_DATA

F12

MPP\_01

MPP\_02

MPP\_03

MPP\_04

MPP\_05

MPP\_06

MPP\_07

MPP\_08

MPP\_09

MPP\_10

MPP\_11

MPP\_12

MPP\_13

MPP\_14

MSM8255-0  
1238-9813

PM8058  
1228-6567\_2

PM8058  
1228-6567\_2

PM8058  
1228-6567\_2

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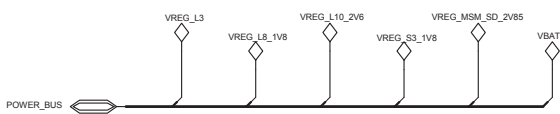
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1228-6567\_2

PM8058  
1228-6567\_2

PM8058  
1228-6567\_2

PM8058  
1228-6567\_2

PM8058  
1228-6567\_2





## Keyboard(Key Back Light) - 5200

## MMI LED - 5100

## Ambient Light sensor - 5600

## Proximity sensor - 5500

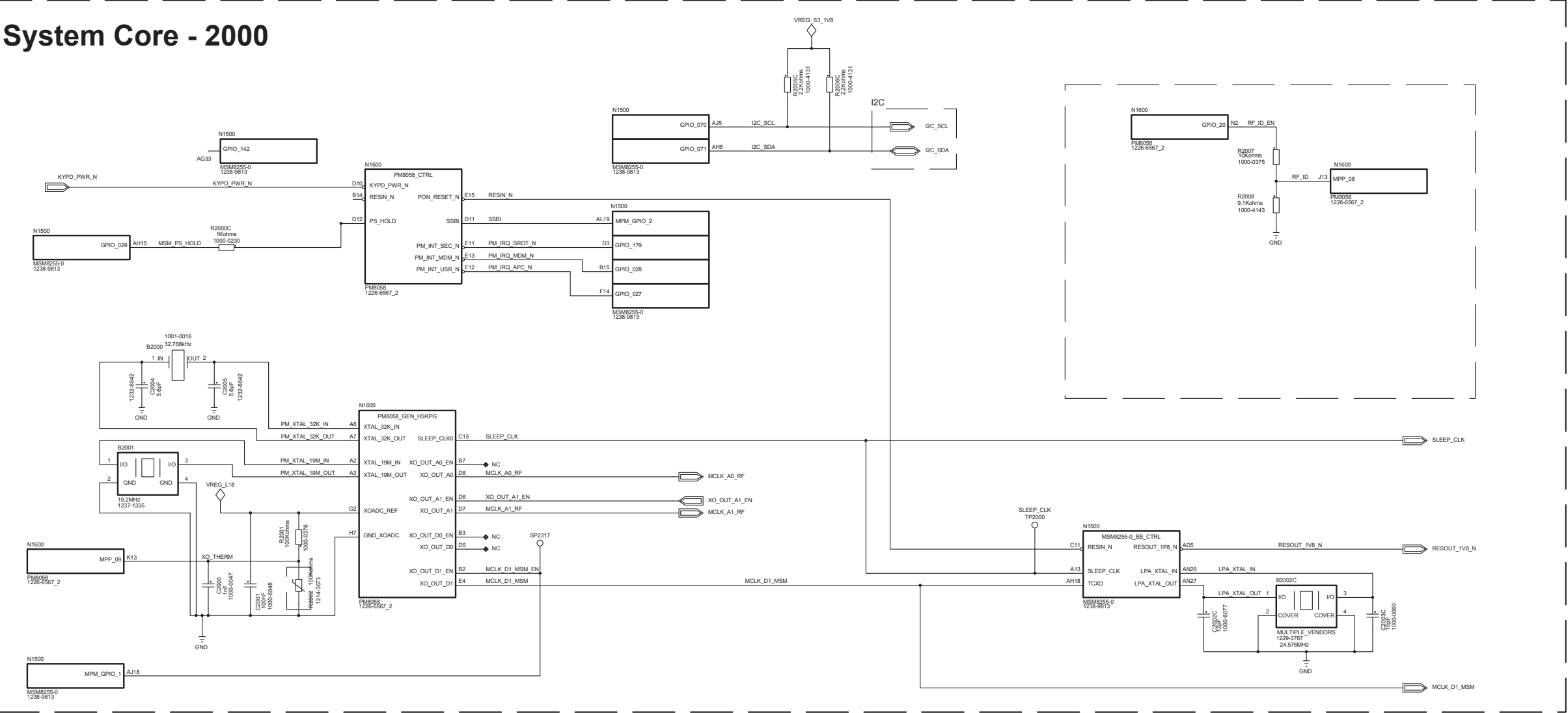
## MR sensor - 8000

## LMU - 7600

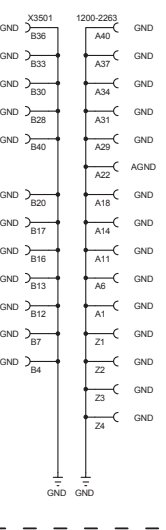
## Display - 7000

## Touch sensor - 5300

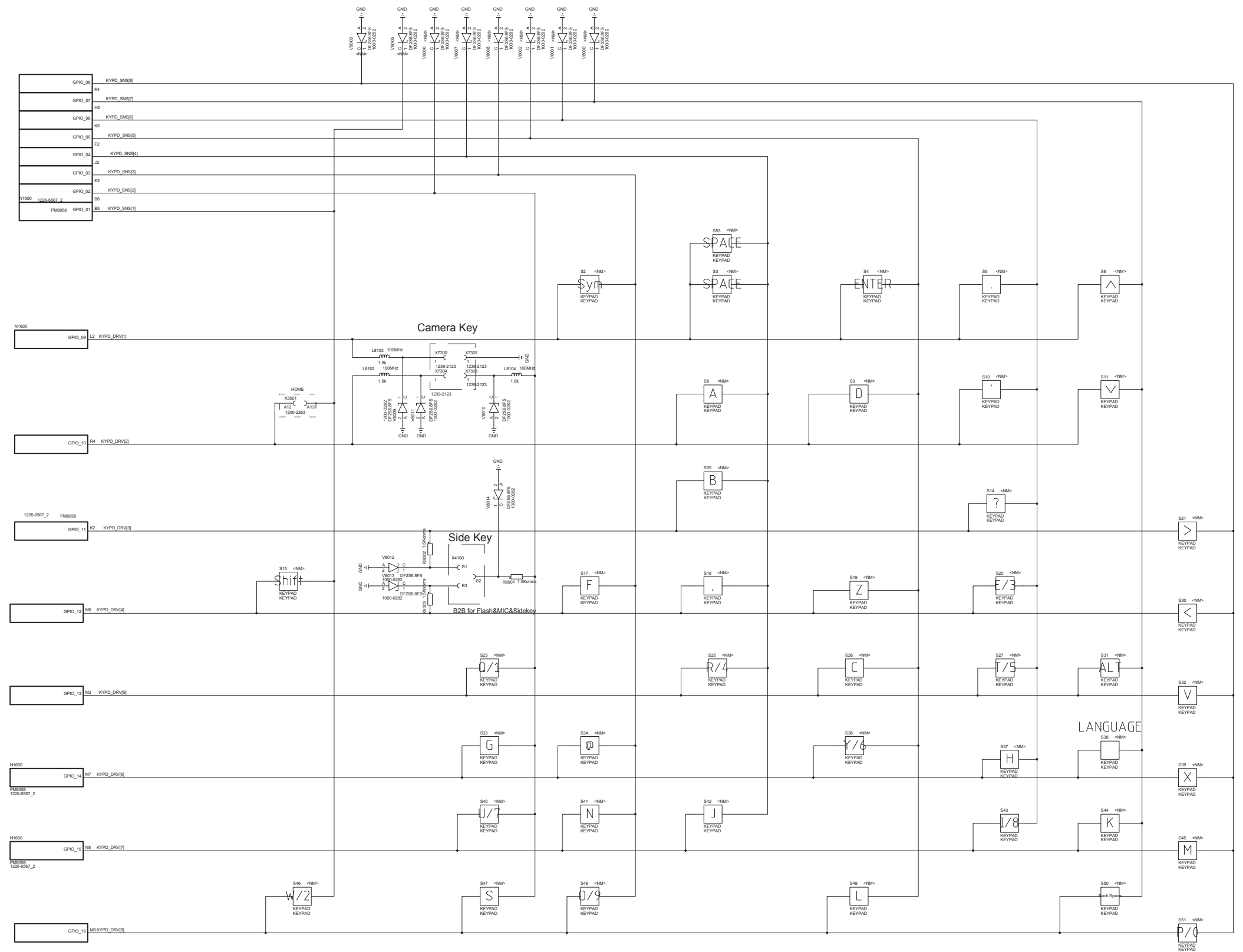
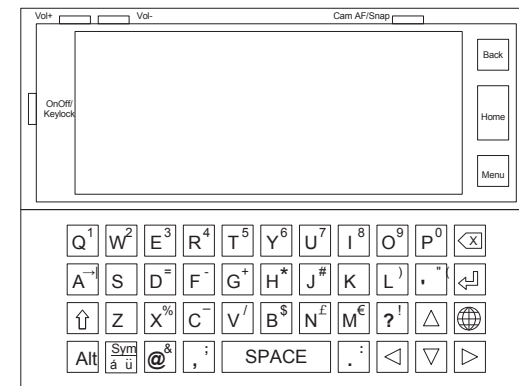
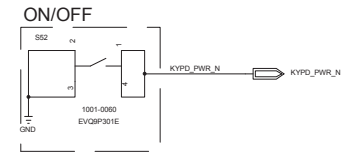
System Core - 2000

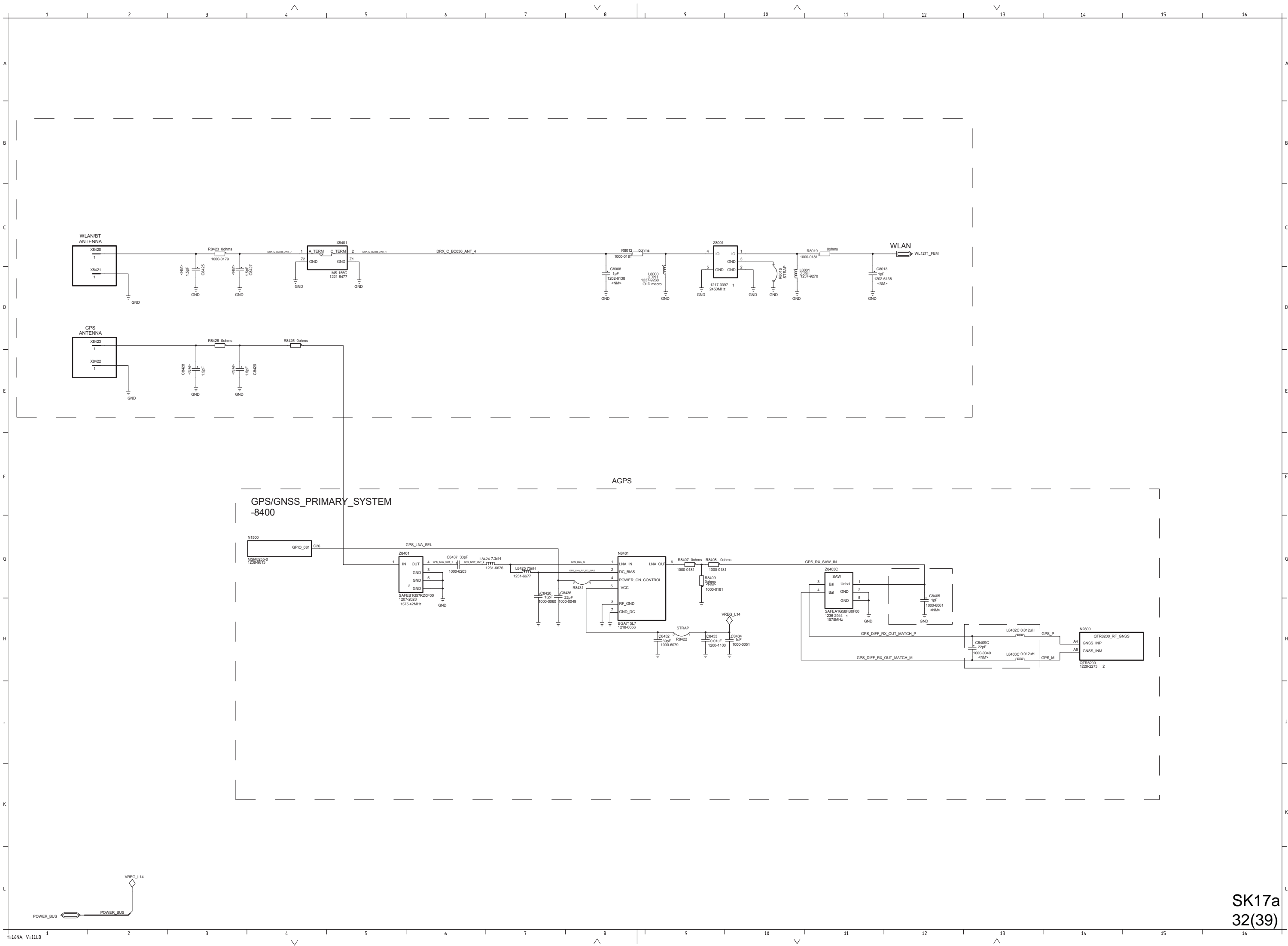


80Pin connector



The diagram shows a control circuit for the KYPD\_PWR\_N line. It starts with a switch labeled S52. One terminal of the switch is connected to a power source (indicated by a battery symbol and GND). The other terminal of the switch is connected to the coil of a relay labeled 1001-0080 (EVORP301E). The relay's coil is also connected to GND. The relay has two contacts: a normally closed (NC) contact and a normally open (NO) contact. The NO contact is connected to the KYPD\_PWR\_N line, which is shown as a bus with multiple connectors.

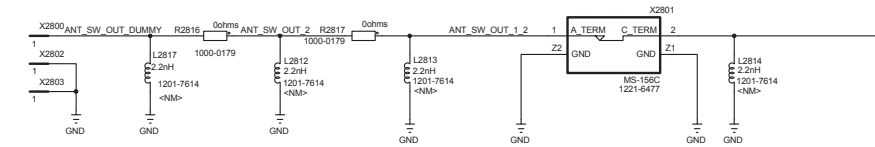






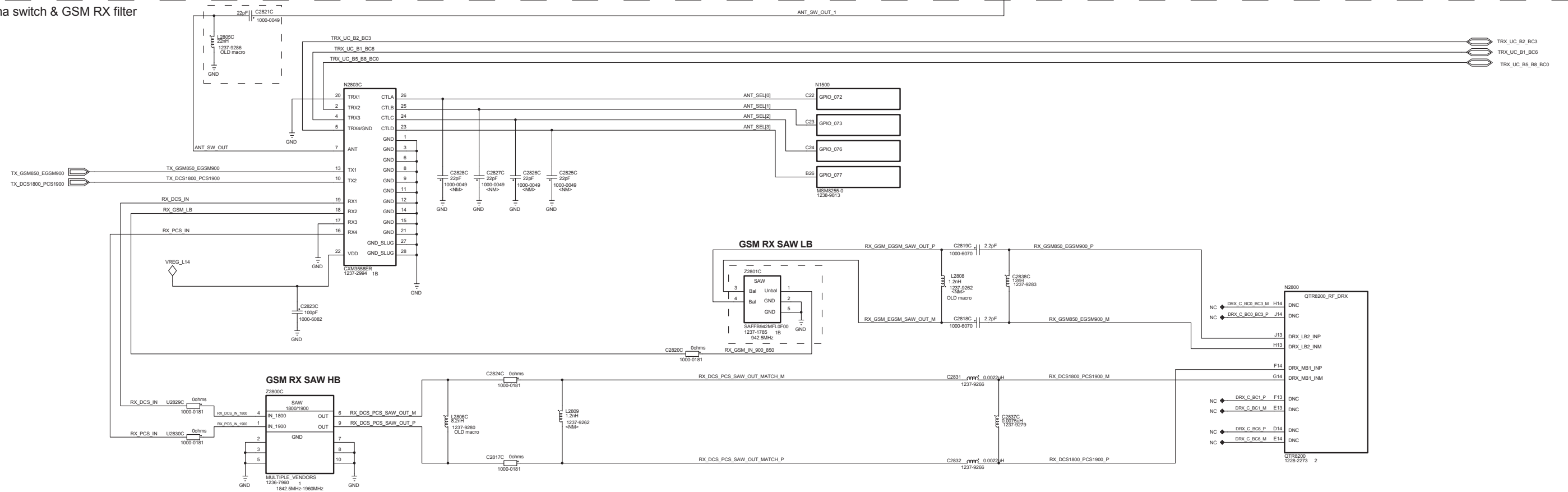
Antenna matching  
-2800,9600

## RF ANTENNA CONNECTOR



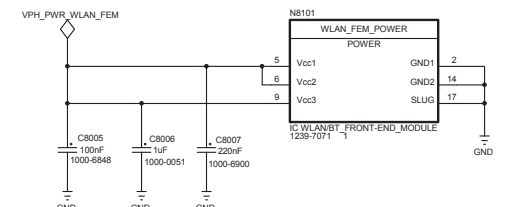
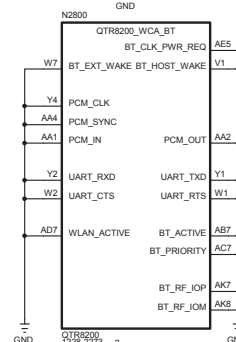
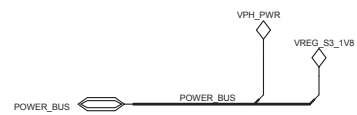
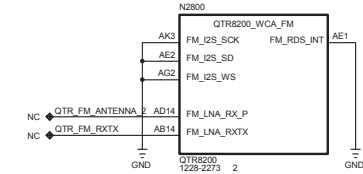
### Product Specific

Antenna switch & GSM RX filter  
-2800



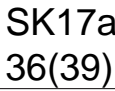
SK17a  
33(39)

# WL1271L WLAN/BT SIGNALS&POWER



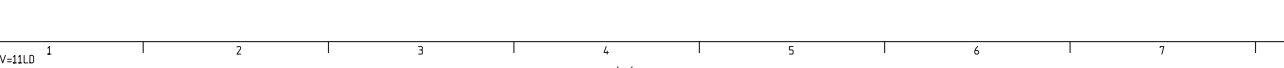
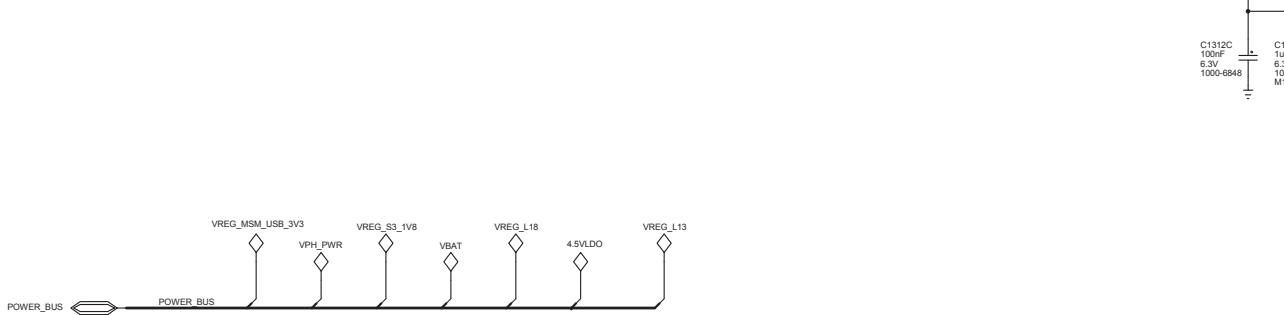
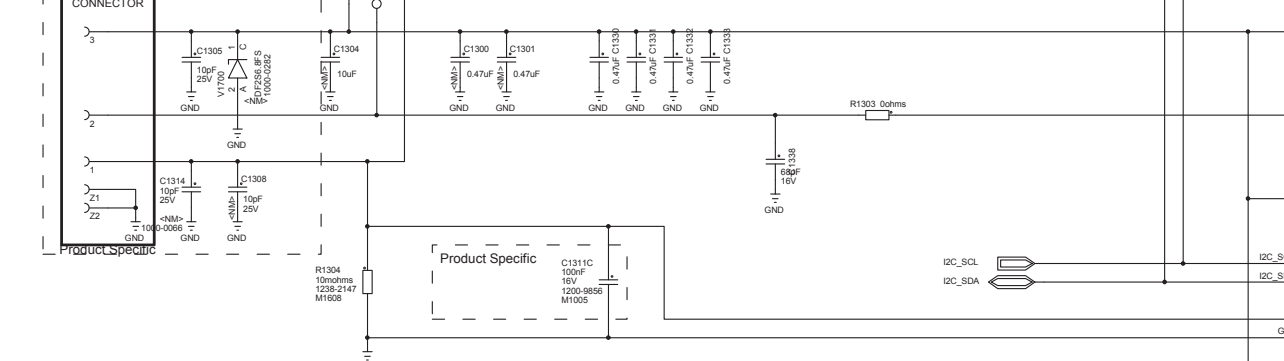
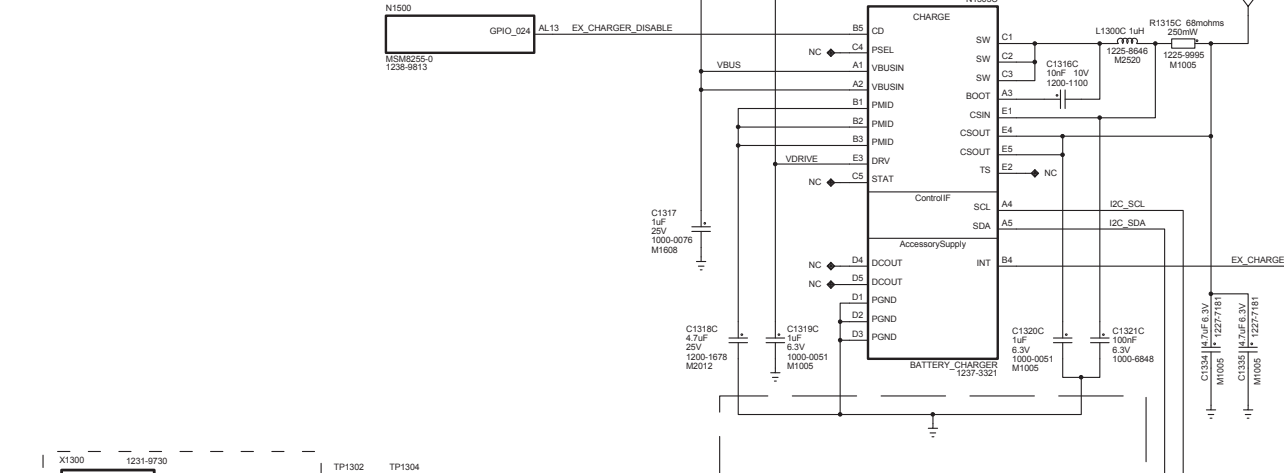
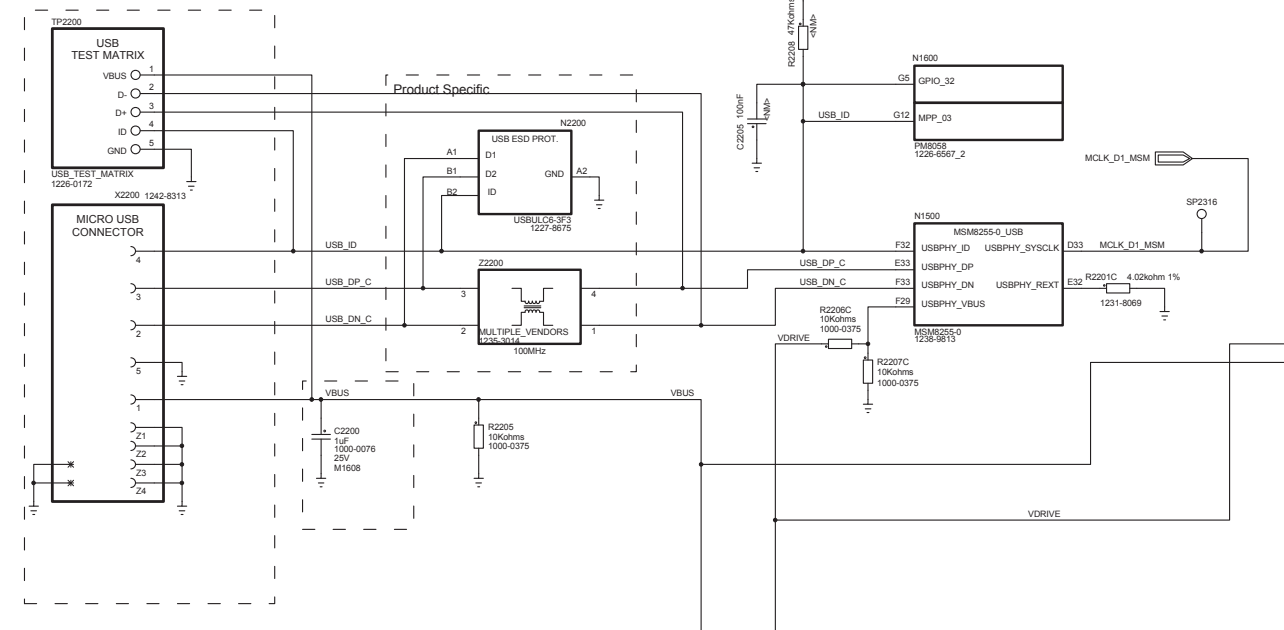


UMTS Band 5

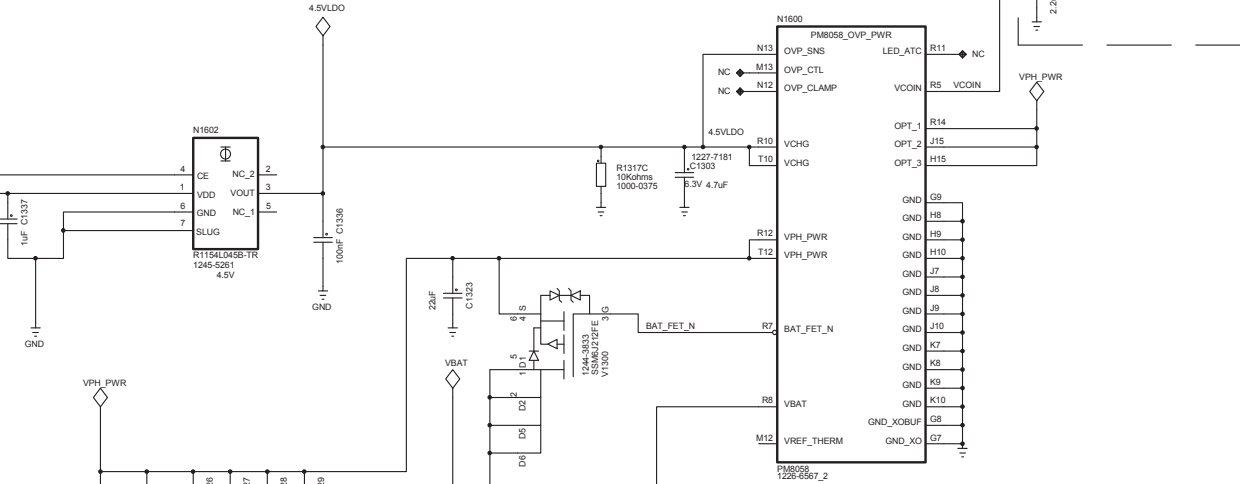


# Charging and Battery Management - 1300

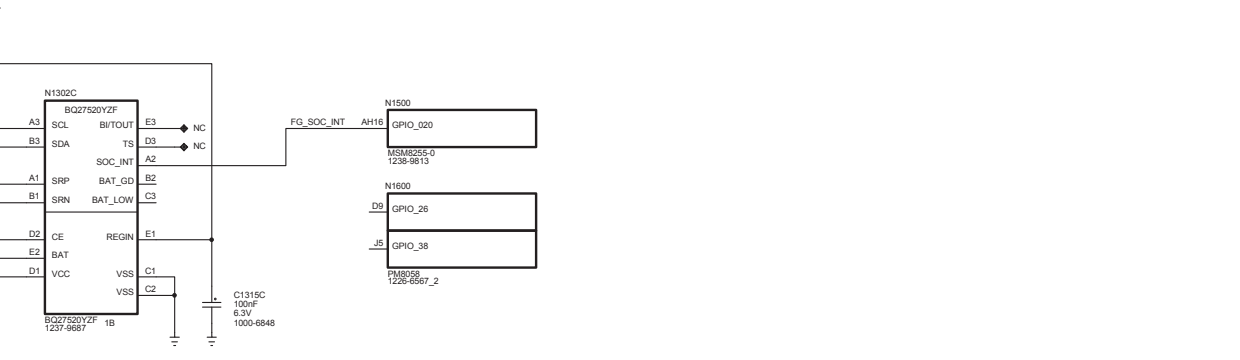
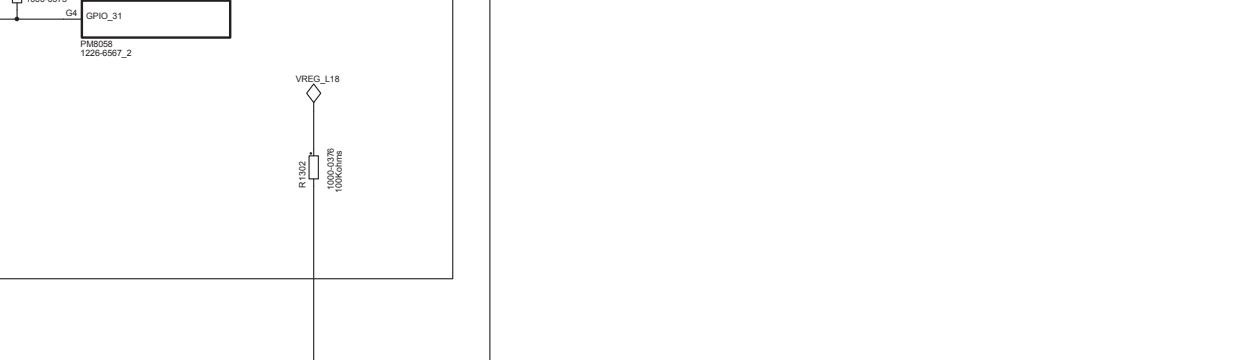
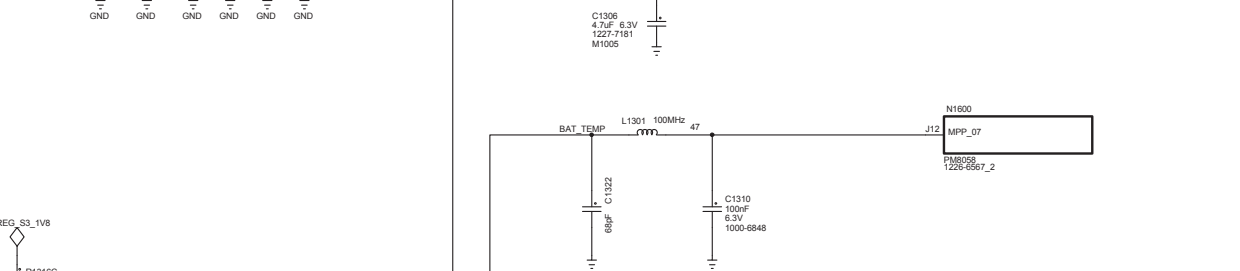
## USB - 2200



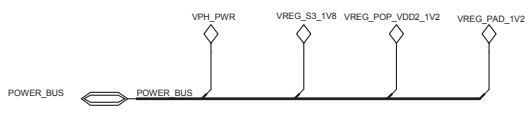
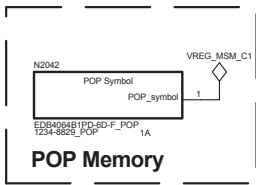
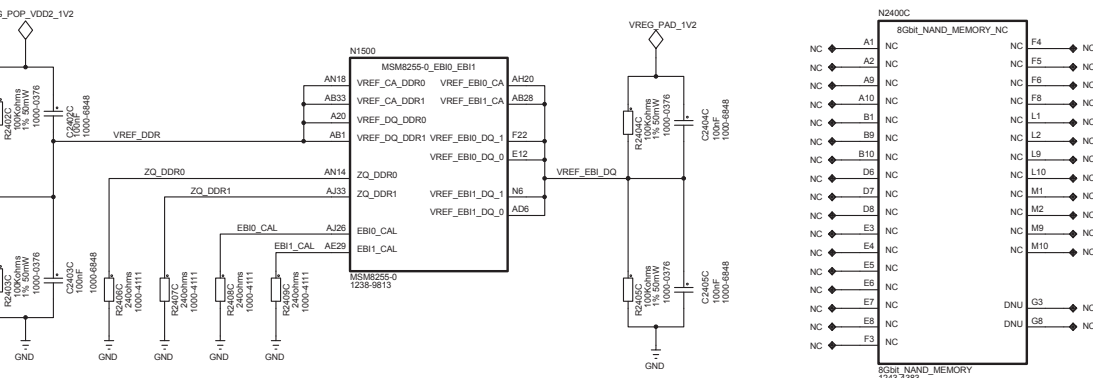
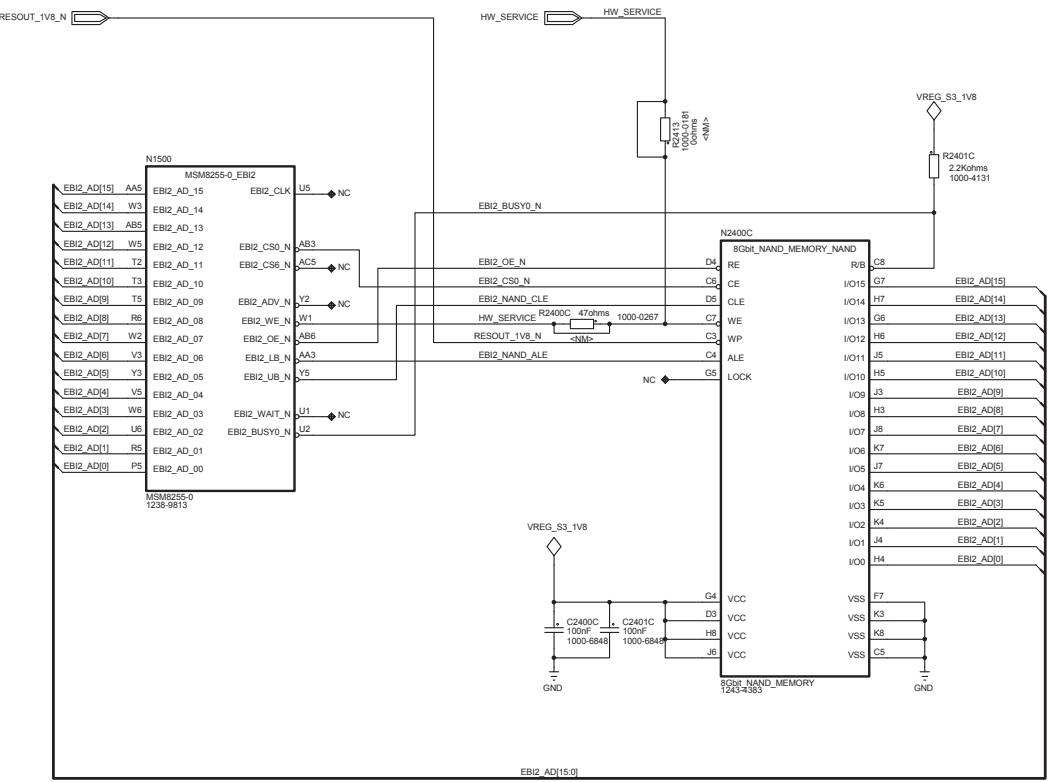
## PM8058 OVP, Charger



## BAT\_FET



Memory - 2400



## Revision History

Rev.	Date	Changes / Comments
1	2011-Jul-12	Initial release