



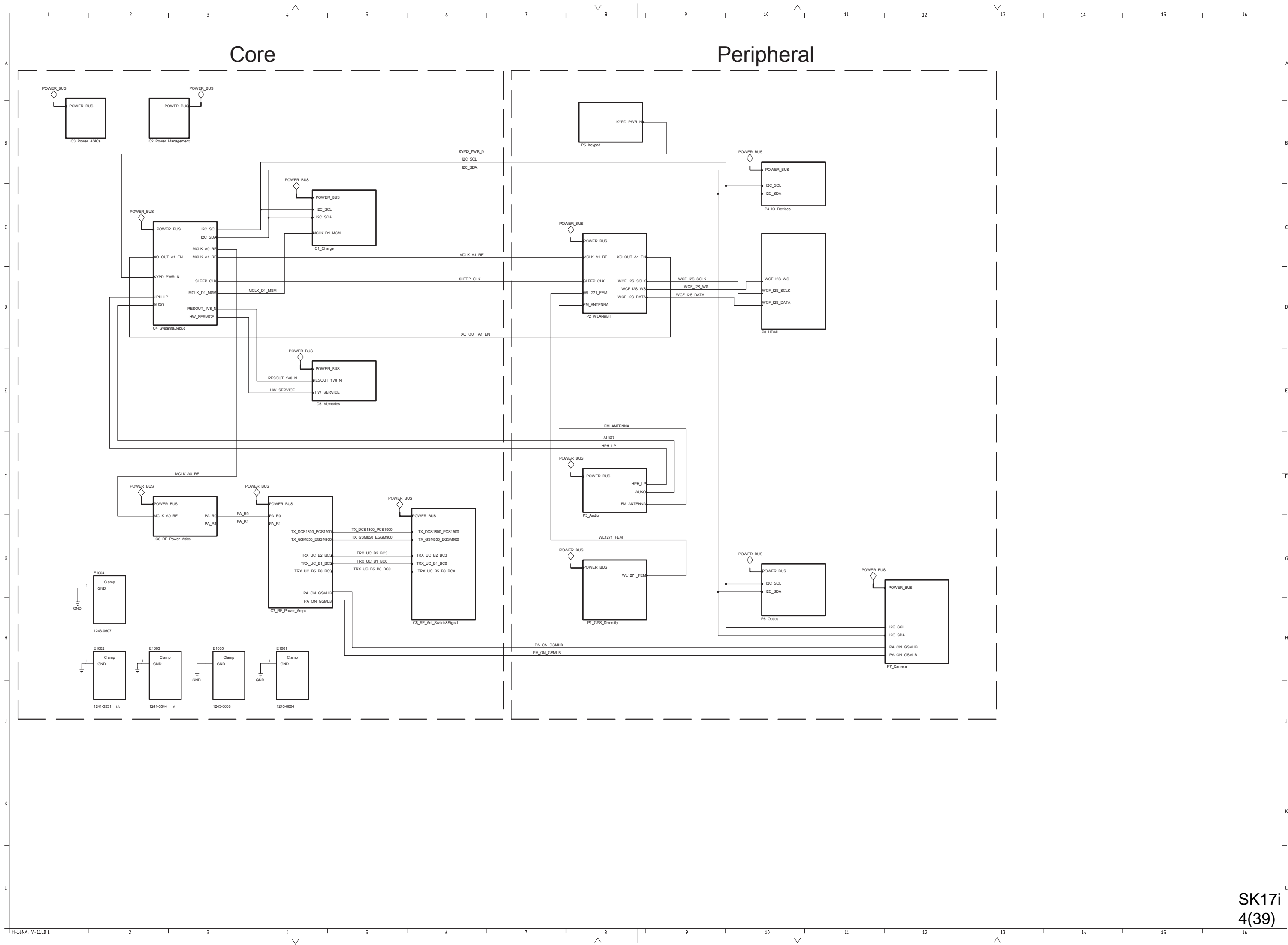
Schematics, Electrical

Applicable for Xperia Mini Pro/SK17

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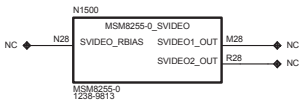
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SK17i



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

MSM8255-0 1238-9813		
N1500	GPIO_120	A7
	GPIO_145	ANB0
	GPIO_144	AJ29
	GPIO_121	C6
	GPIO_122	C5
	GPIO_123	B5
	GPIO_146	AJ27

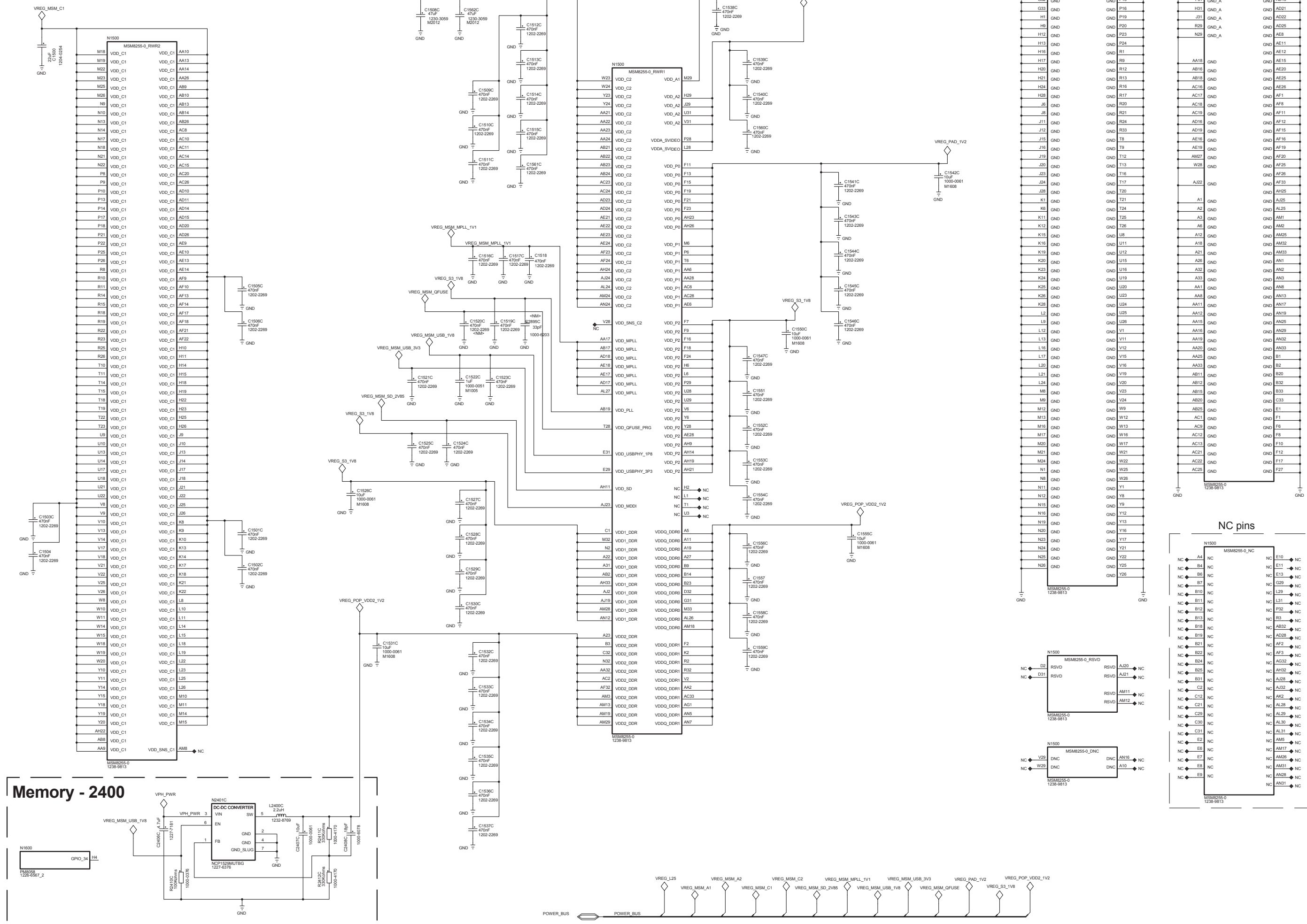
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MSM8255-0 1238-9813		
N1500	GPIO_105	E21
MSM8255-0 1238-9813		
N1500	GPIO_102	E28
MSM8255-0 1238-9813		
N1500	GPIO_093	F20
MSM8255-0 1238-9813		

WCF_I2S_SCLK

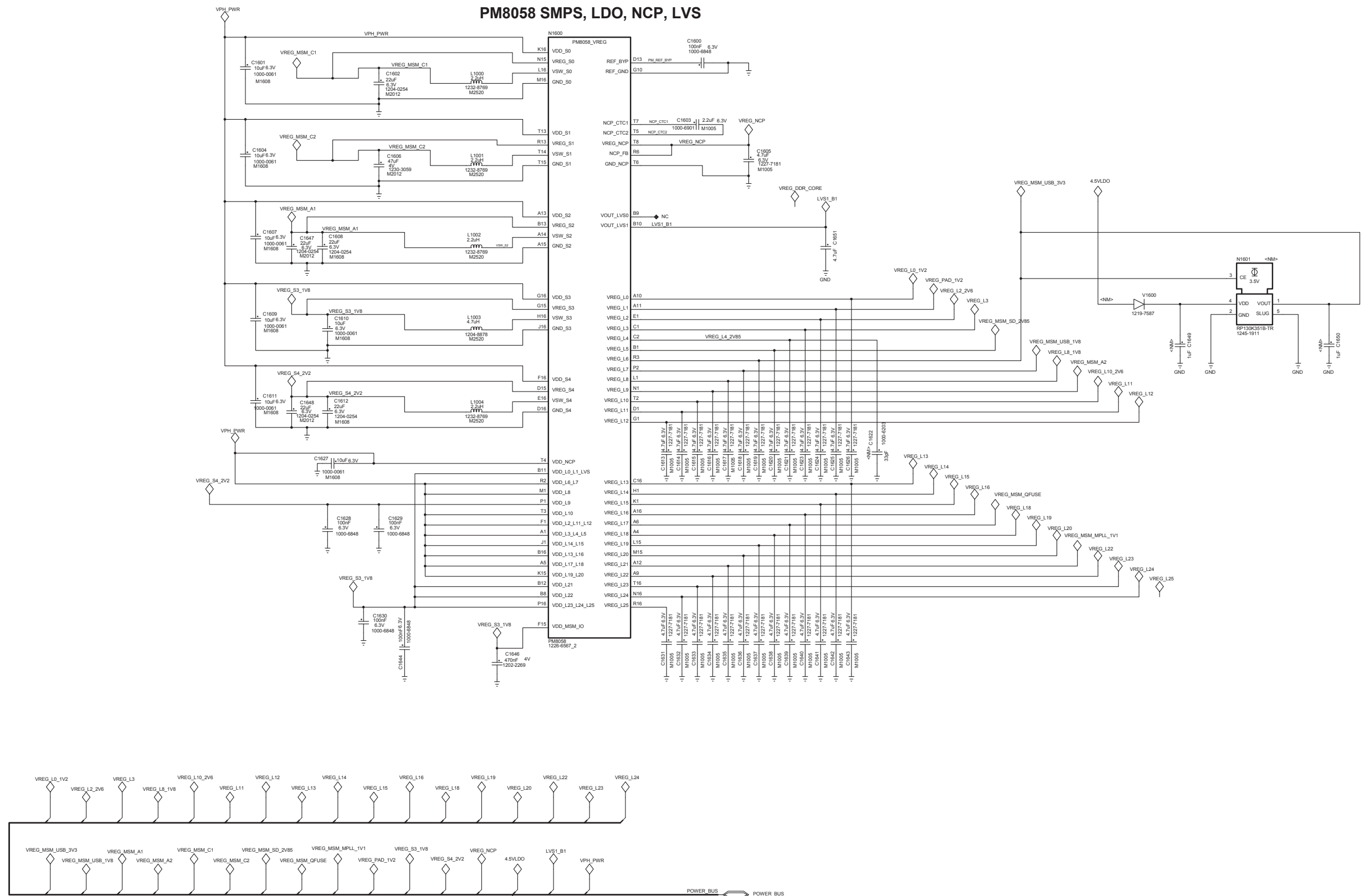
WCF_I2S_WS

WCF_I2S_DATA

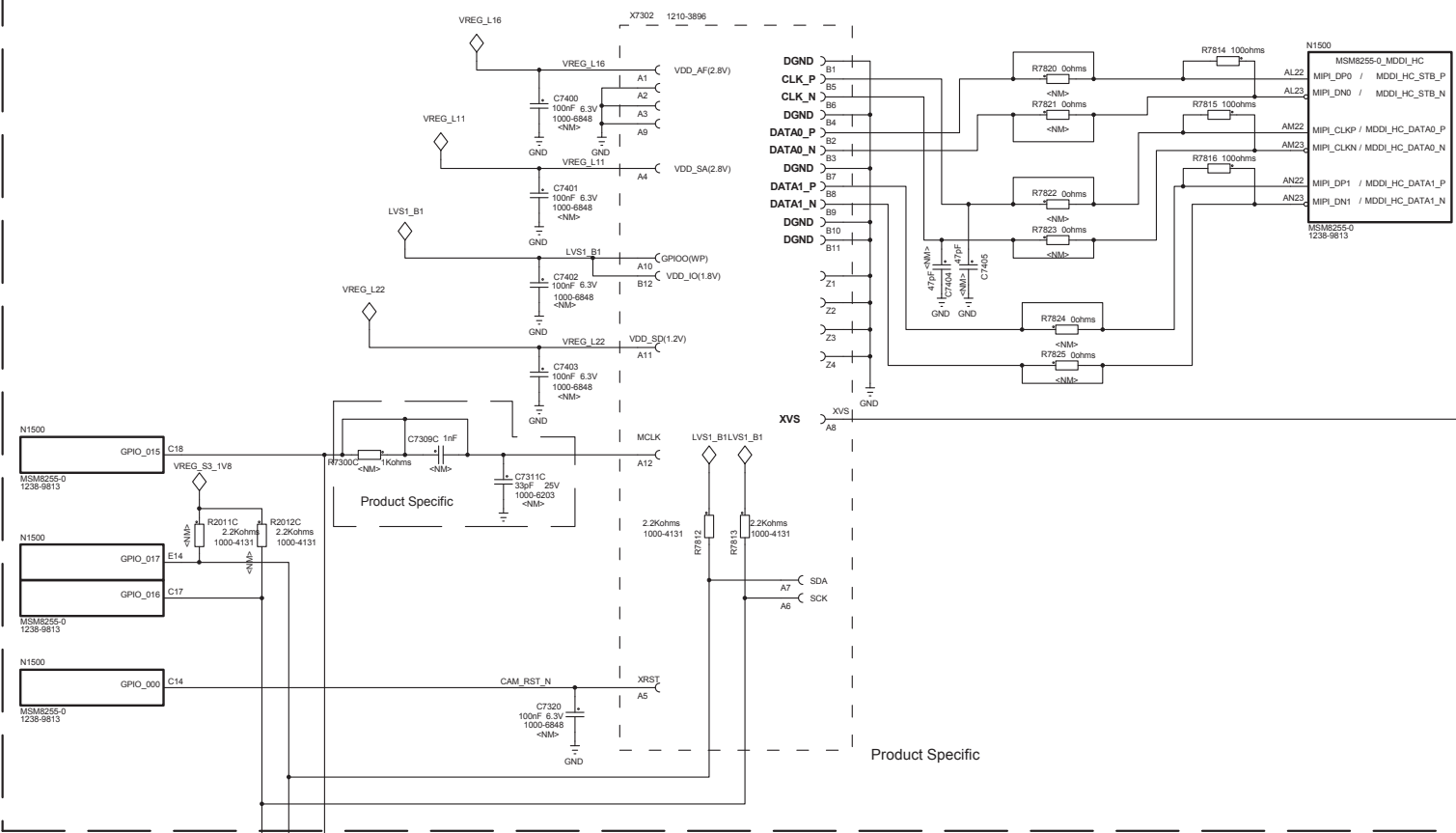
DB Decoupling - 1500



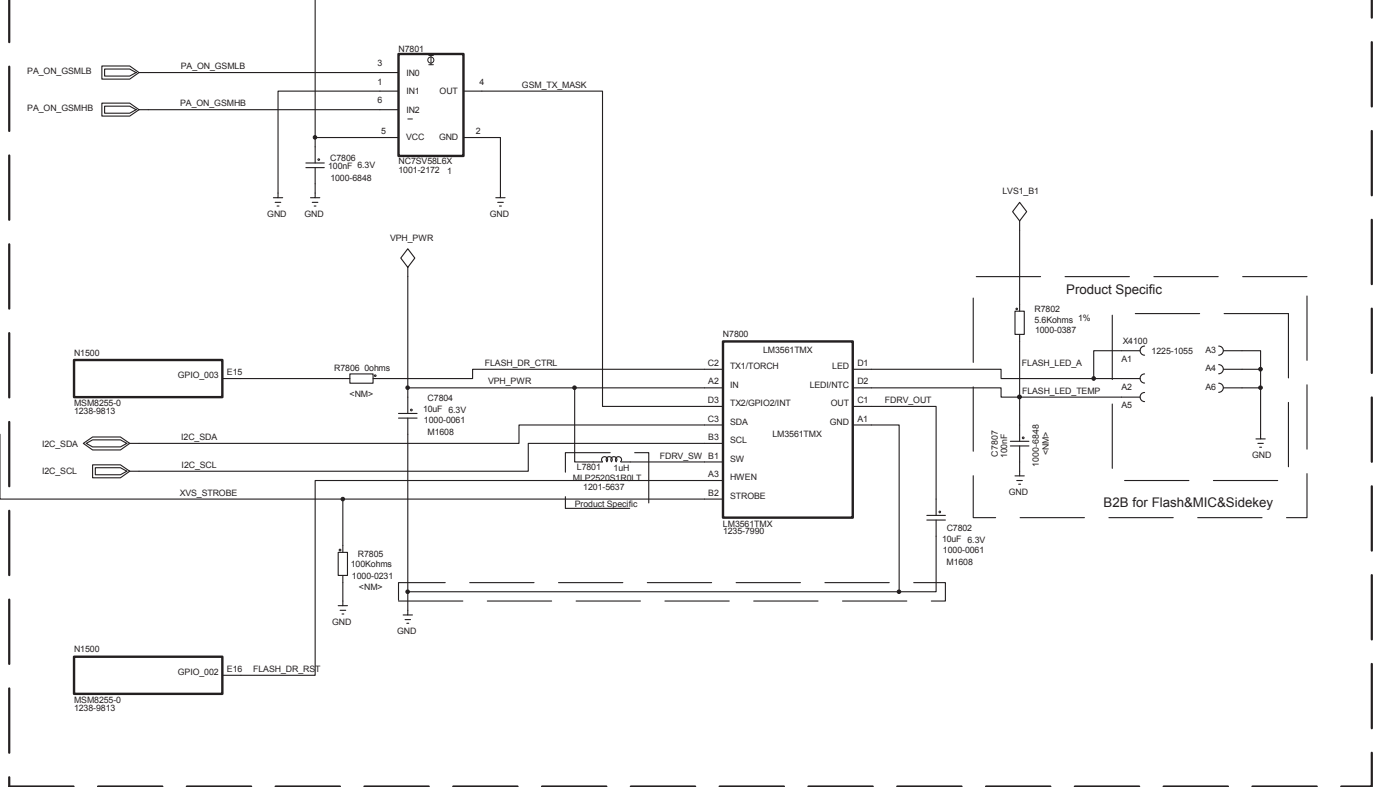
Power Management - 1000



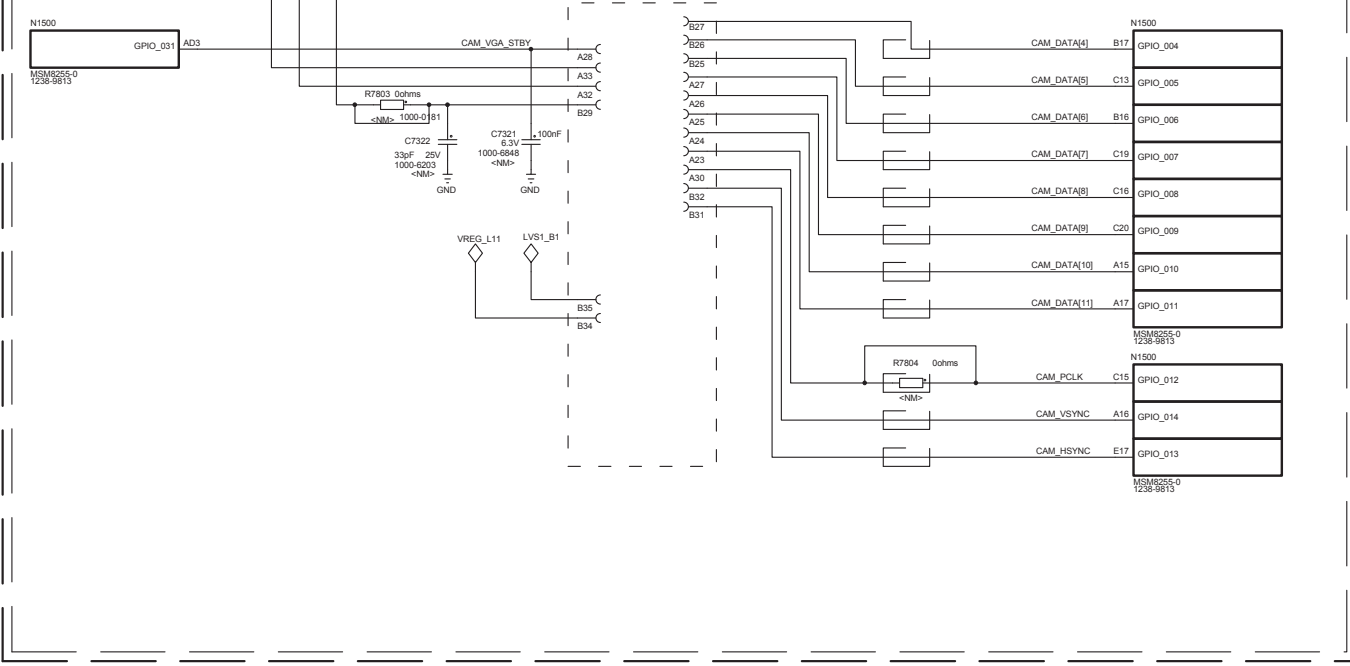
Main Camera - 7300



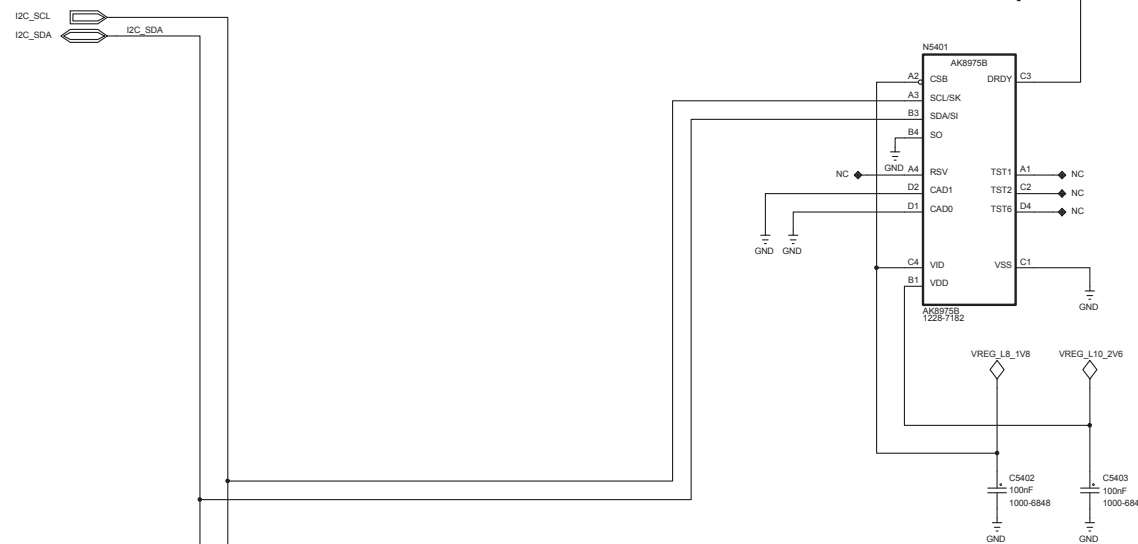
Flash LED Driver - 7800



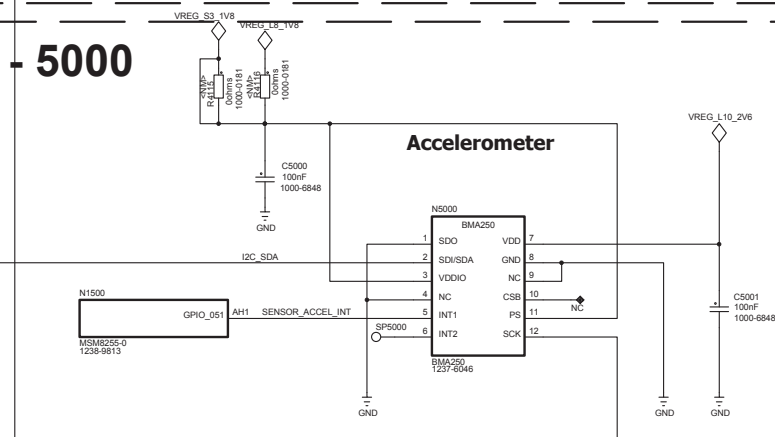
Sub Camera - 7300



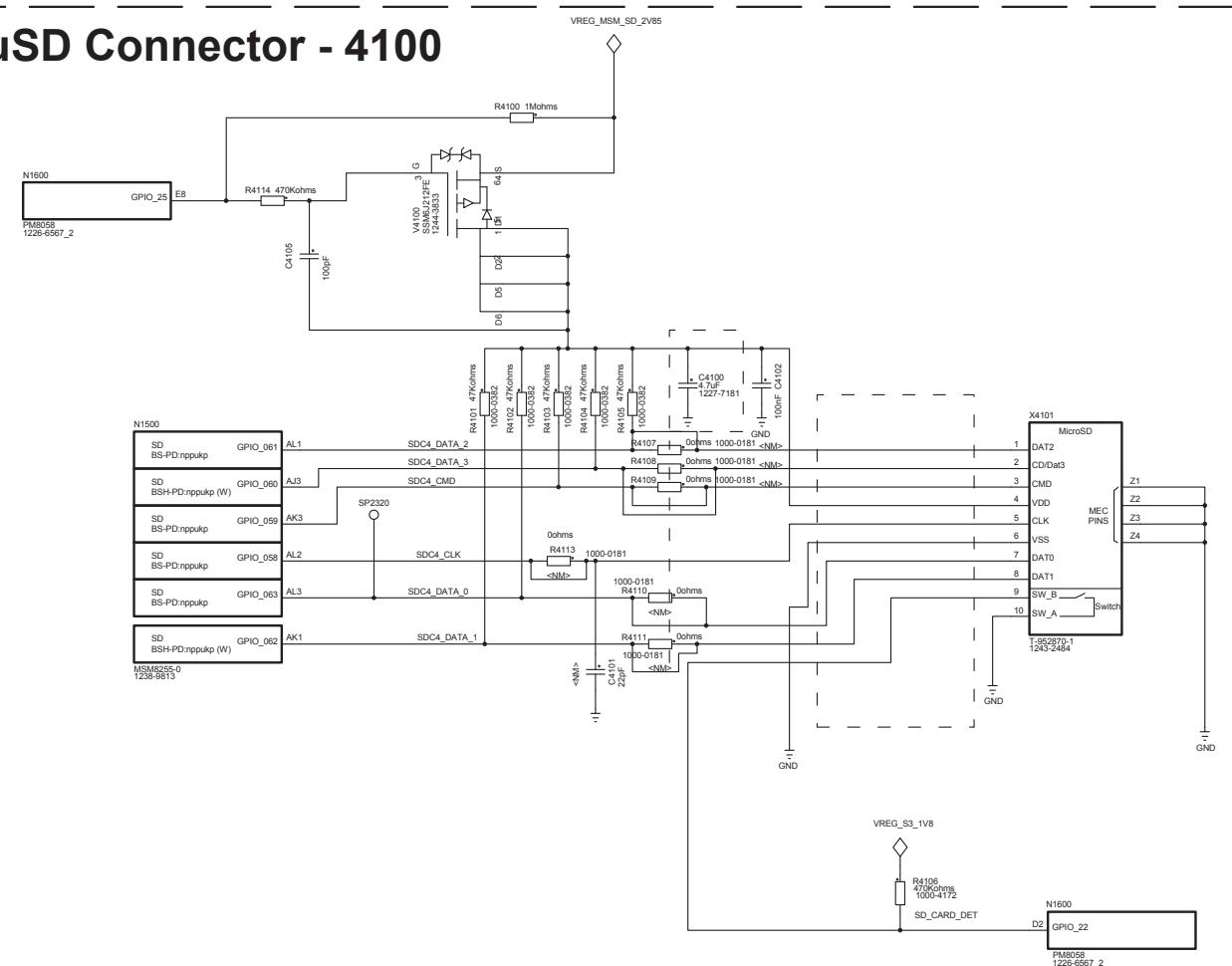
E-Compass - 5400



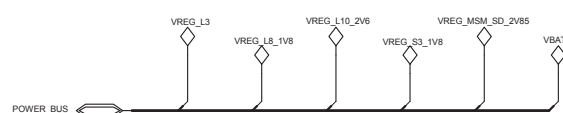
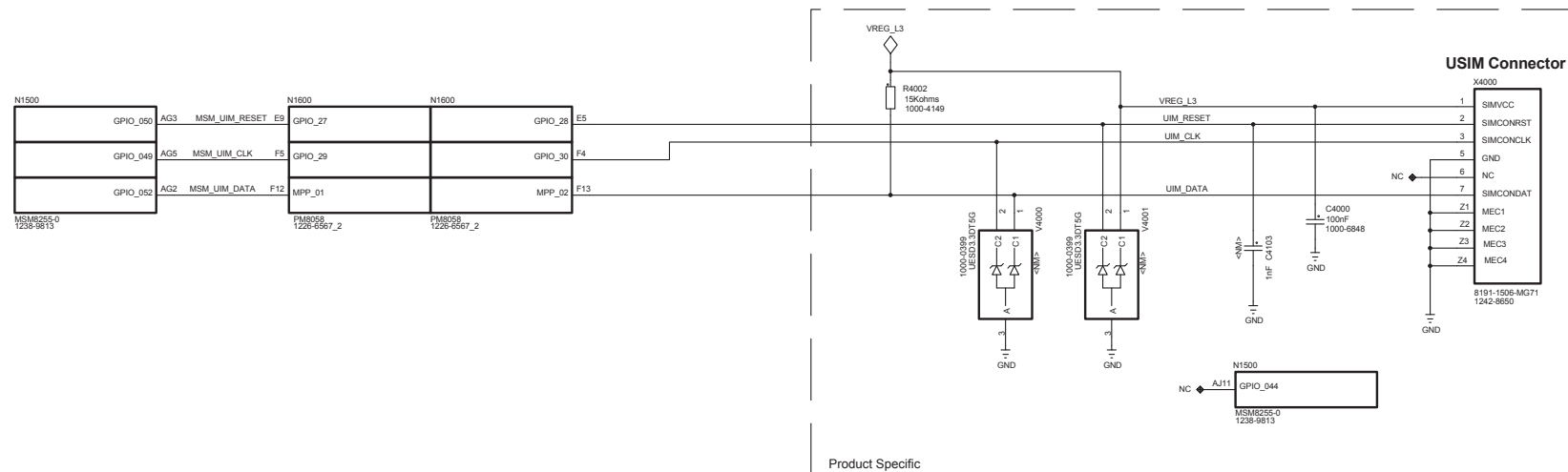
Accelerometer - 5000



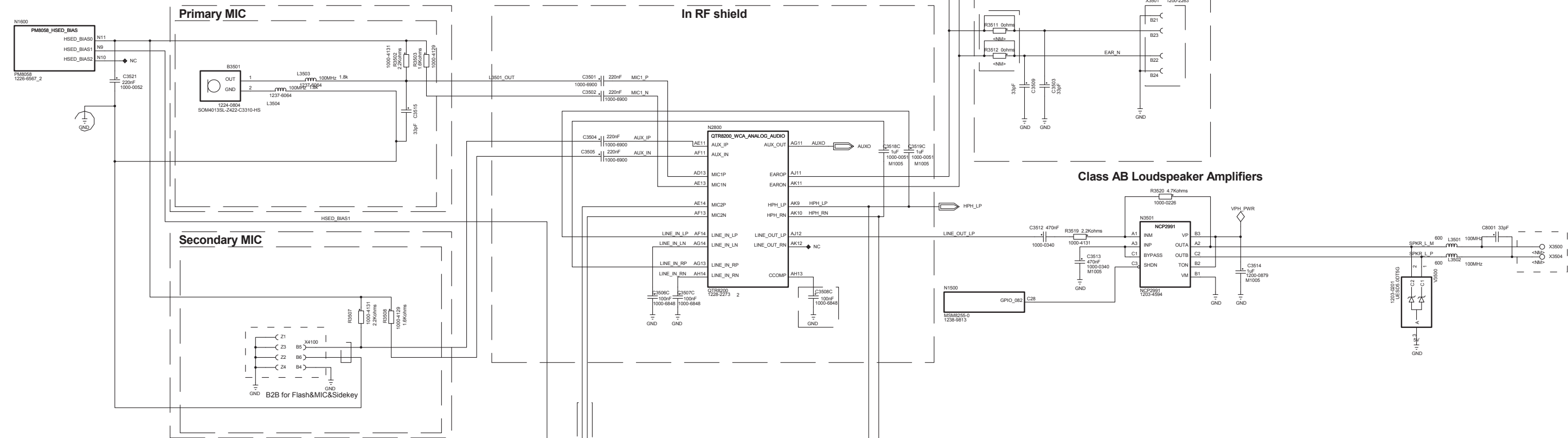
uSD Connector - 4100



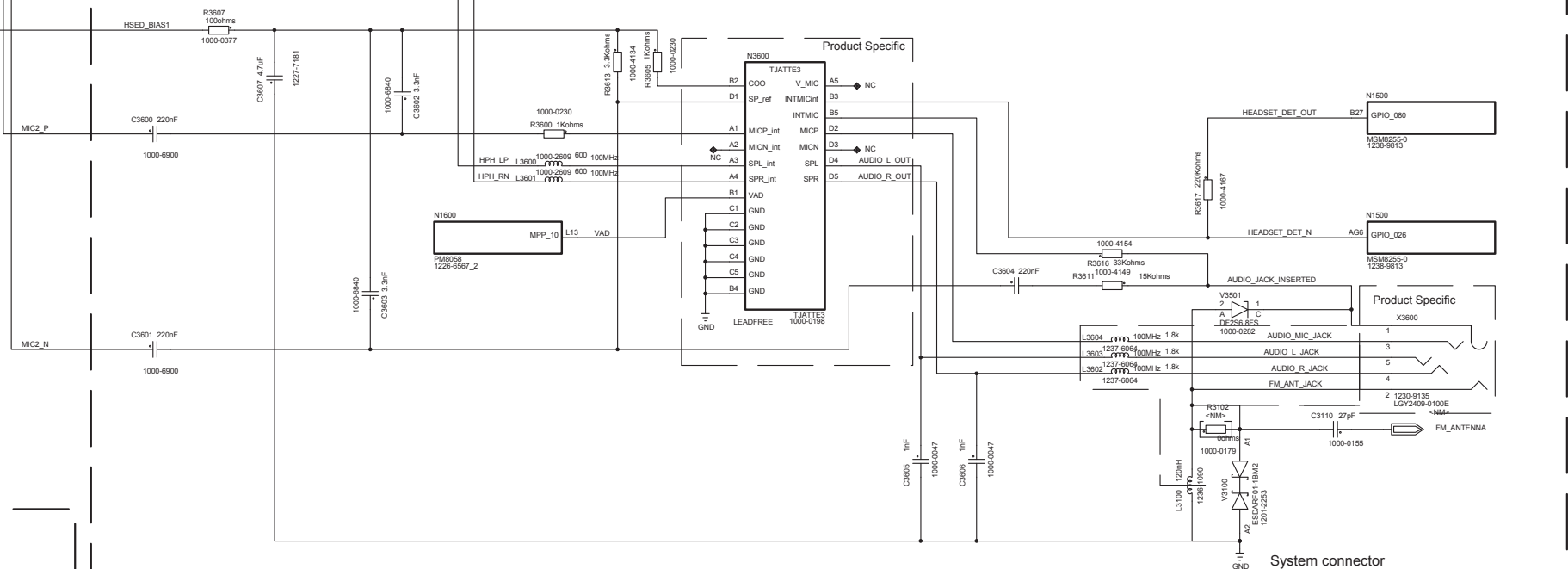
USIM Connector - 4000



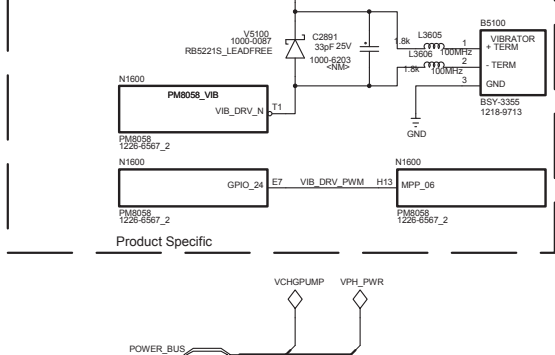
Analog Audio - 3500



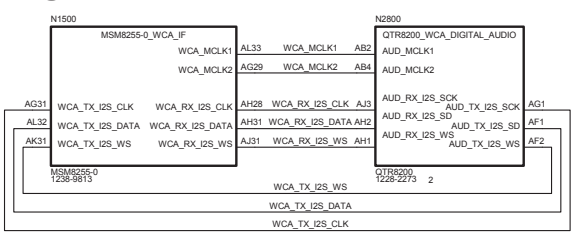
SE-PORT - 3600



Vibrator - 5100



Digital Audio - 3000



Keyboard(Key Back Light) - 5200

MMI LED - 5100

Ambient Light sensor - 5600

Proximity sensor - 5500

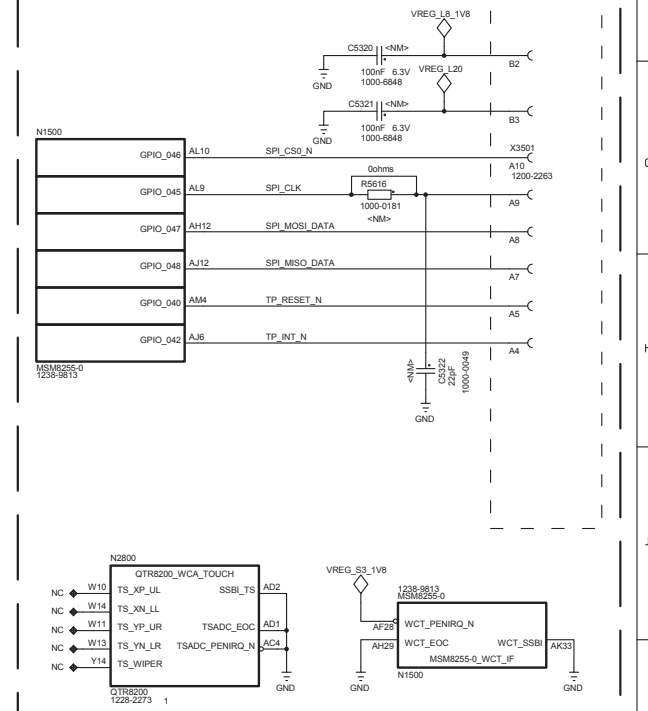
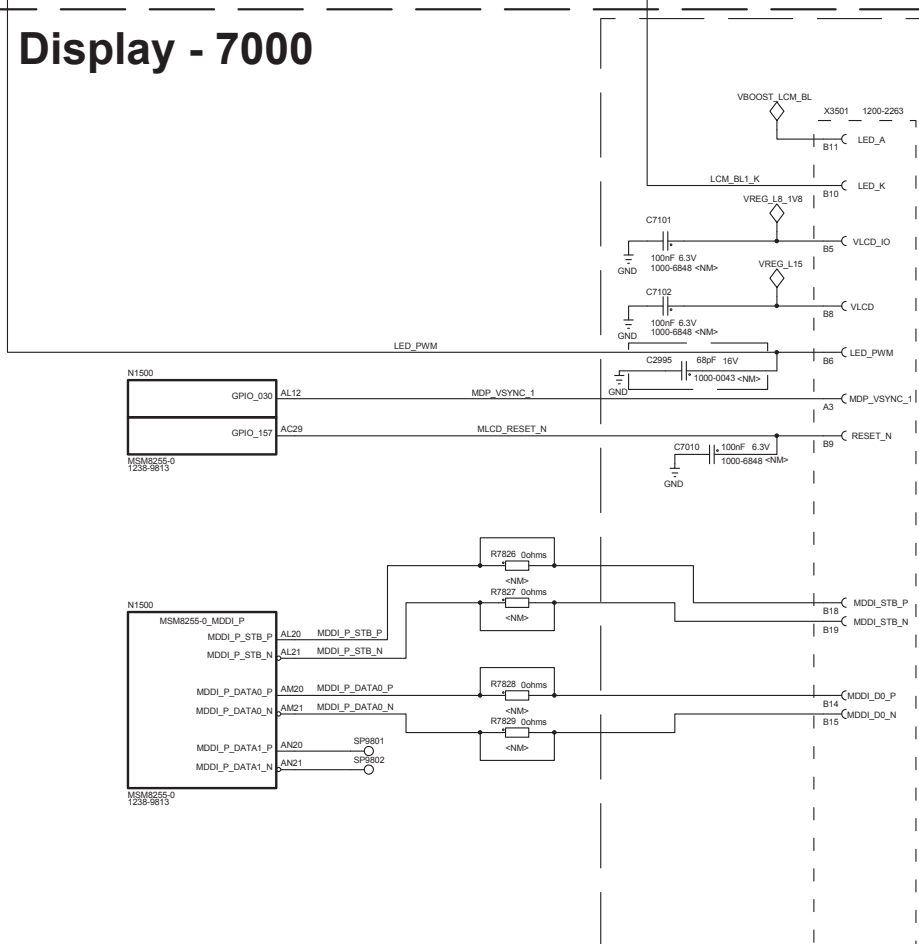
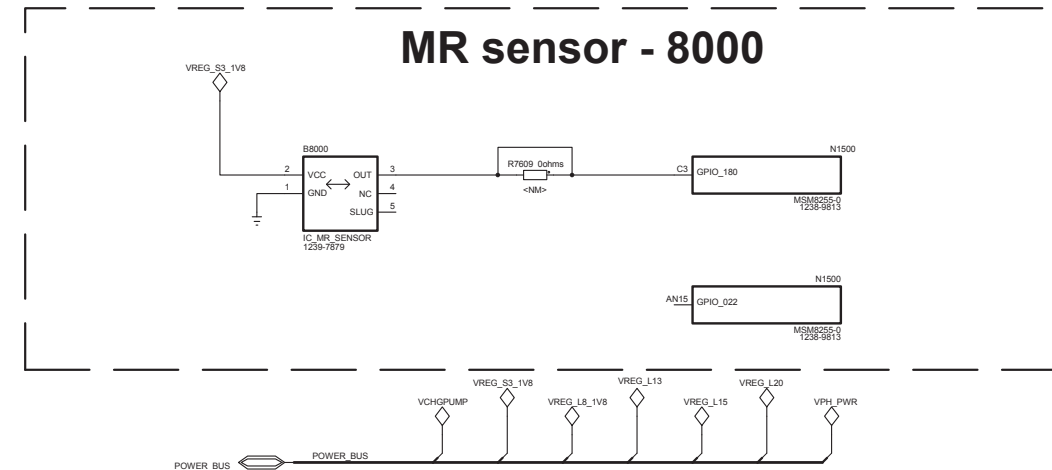
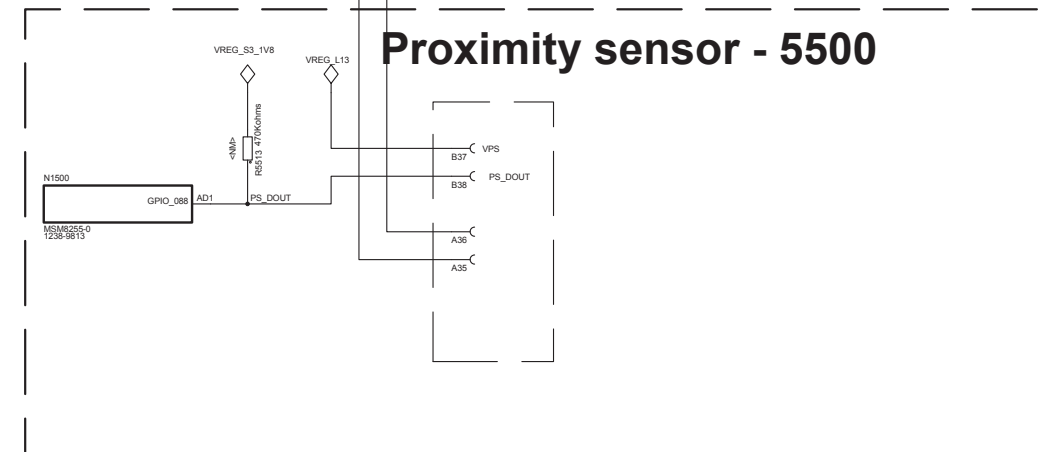
MR sensor - 8000

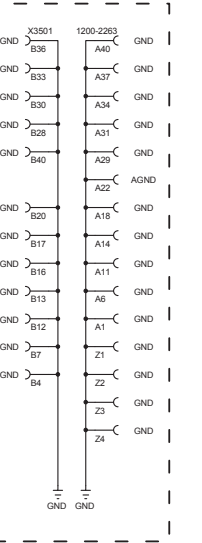
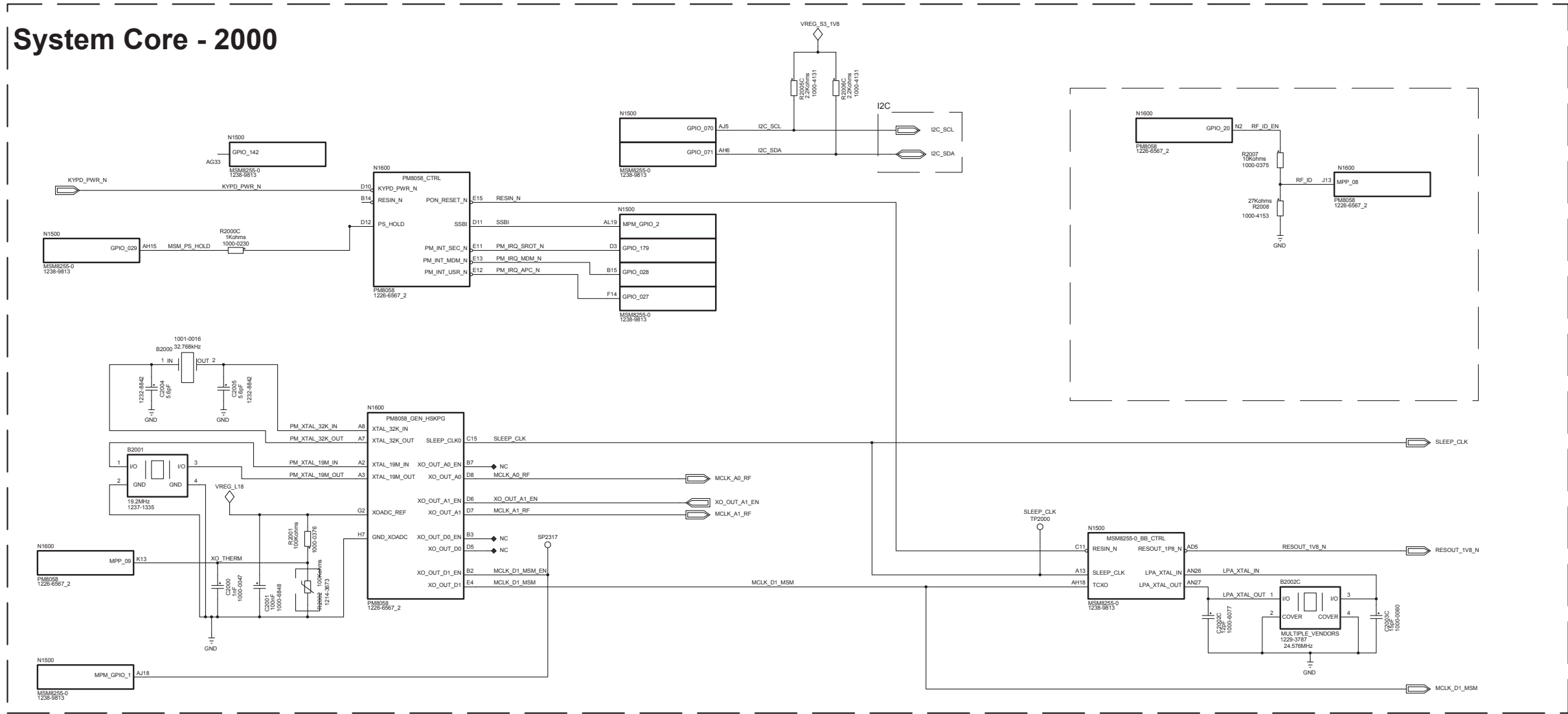
LMU - 7600

Display - 7000

Touch sensor - 5300

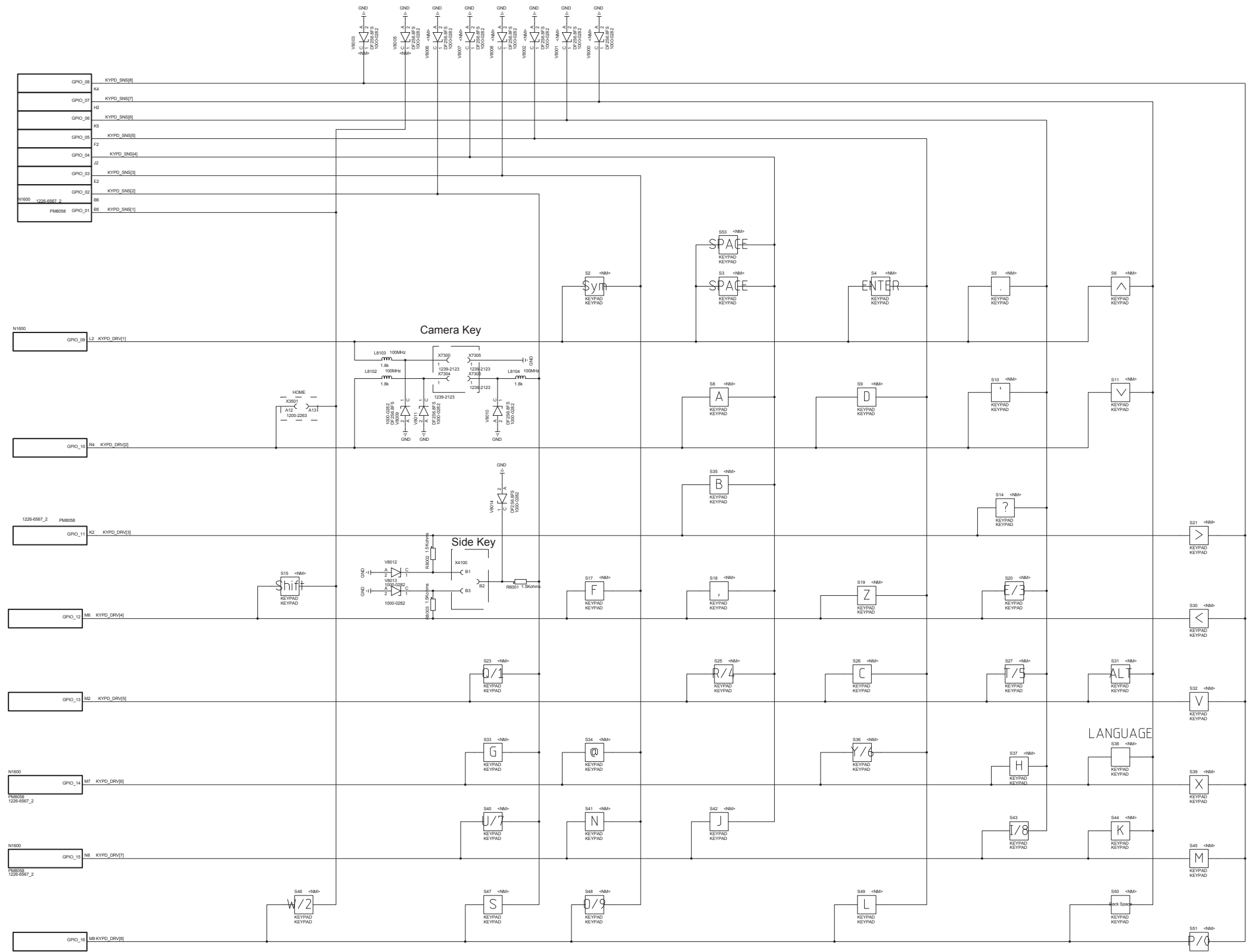
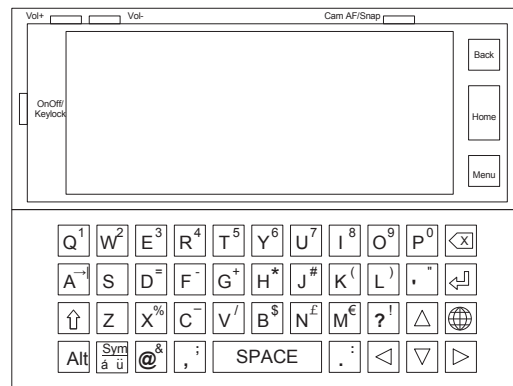
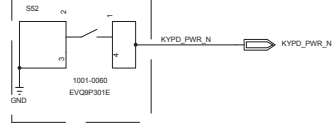
I2C_SDA I2C_SCL



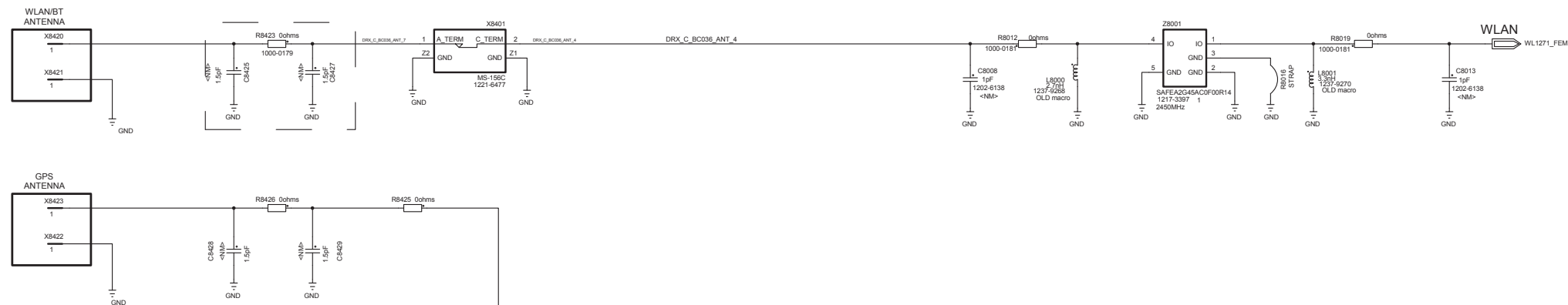


Keyboard - 5200

ON/OFF

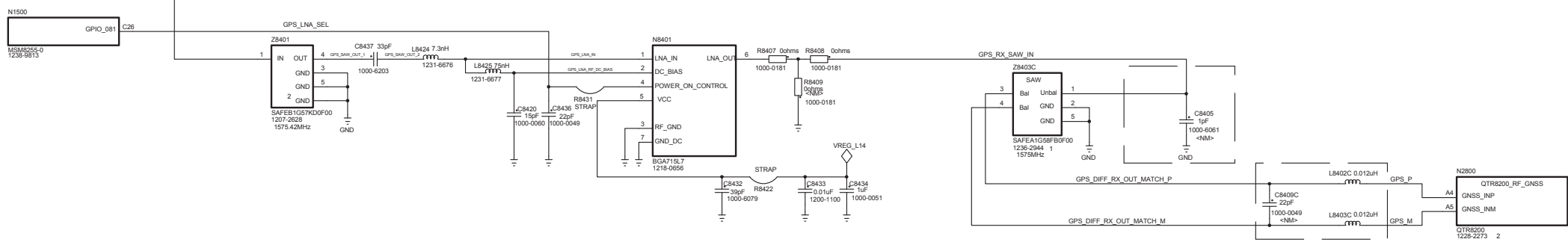


Product Specific



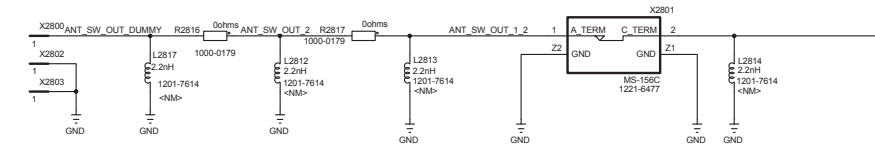
AGPS

GPS/GNSS_PRIMARY_SYSTEM -8400



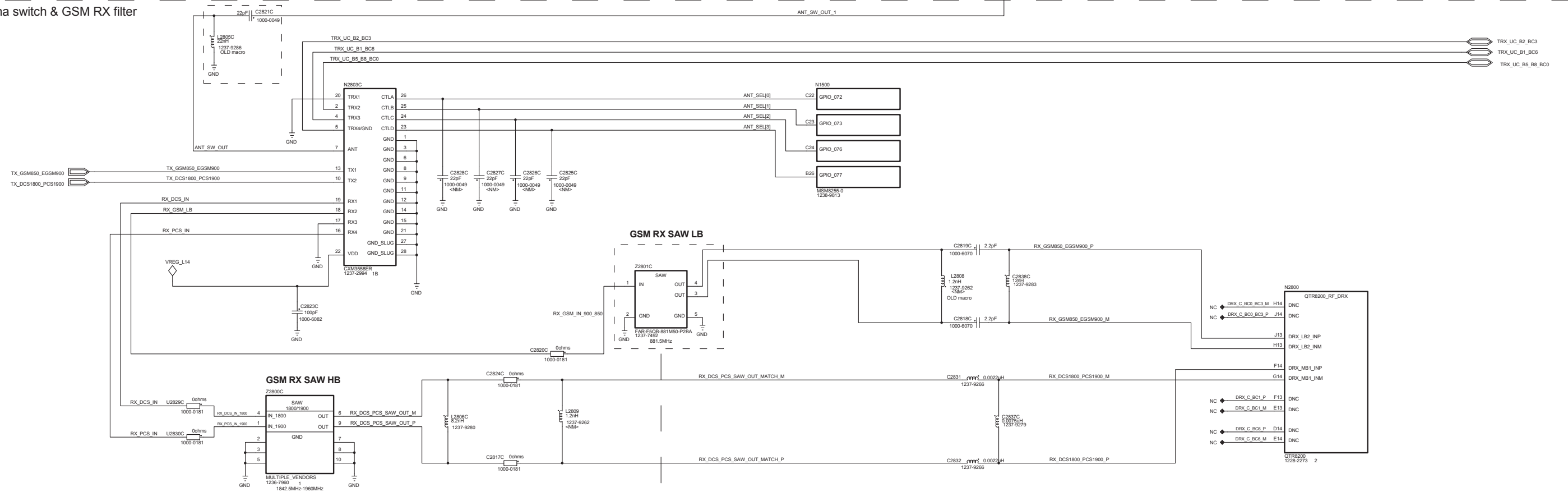
Antenna matching
-2800,9600

RF ANTENNA CONNECTOR



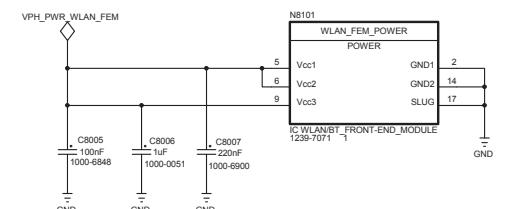
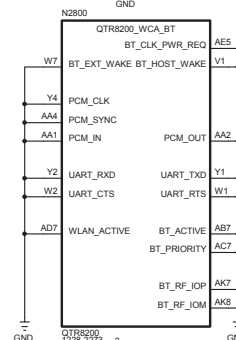
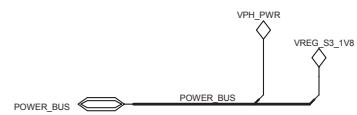
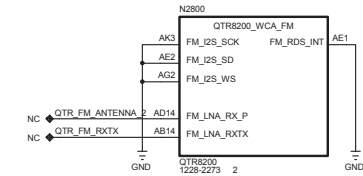
Product Specific

Antenna switch & GSM RX filter
-2800

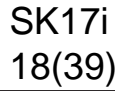


SK17i
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WL1271L WLAN/BT SIGNALS&POWER

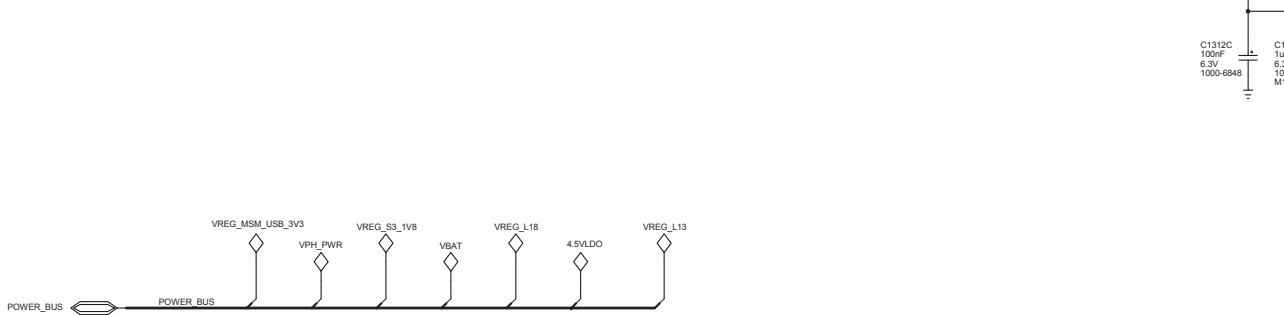
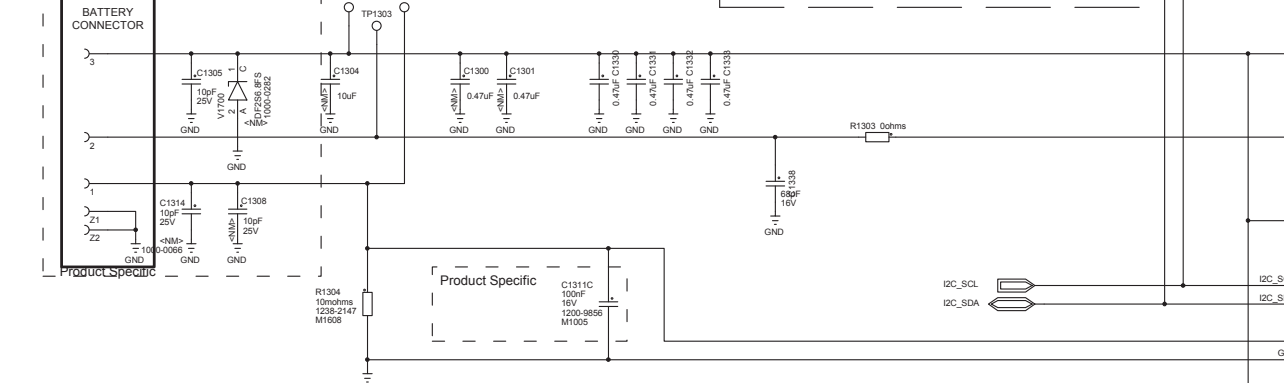
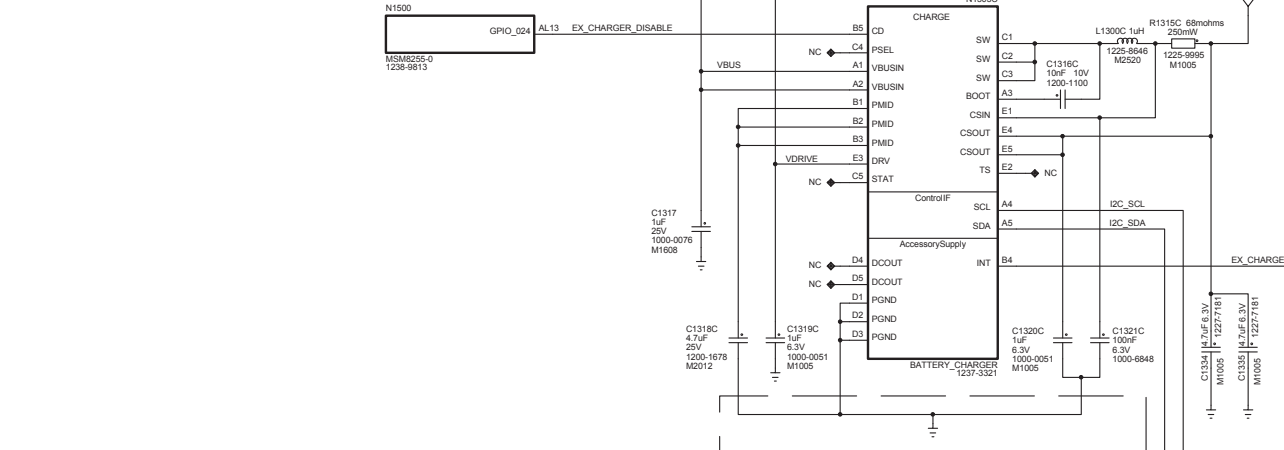
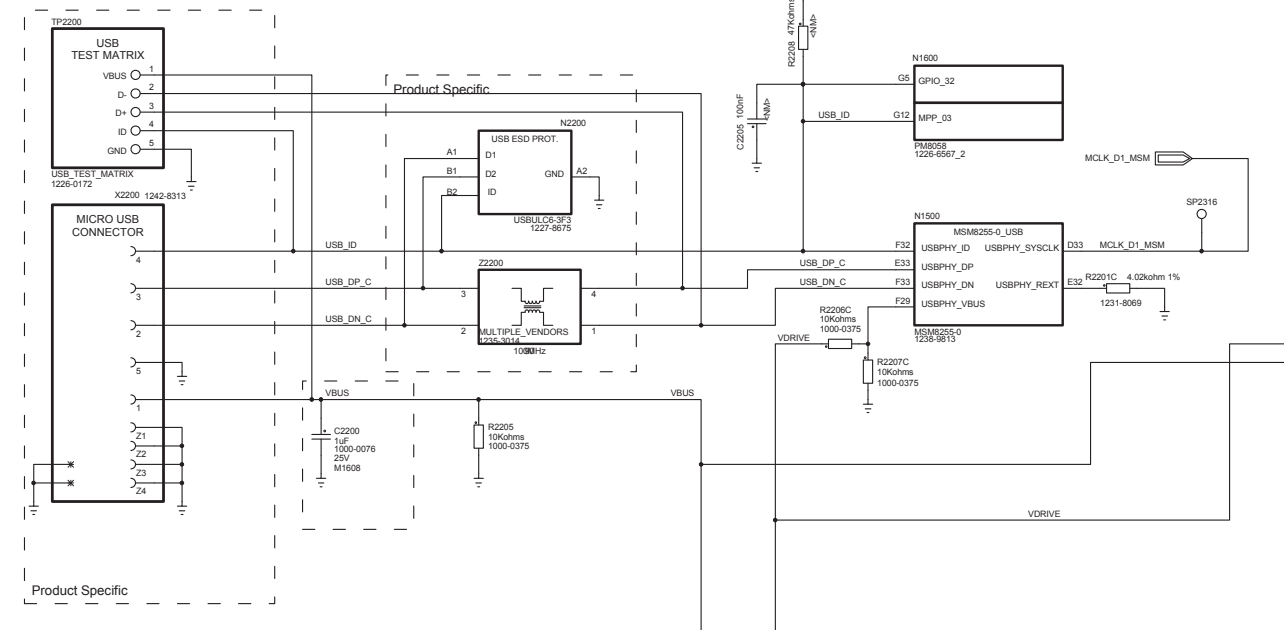


UMTS Band 5

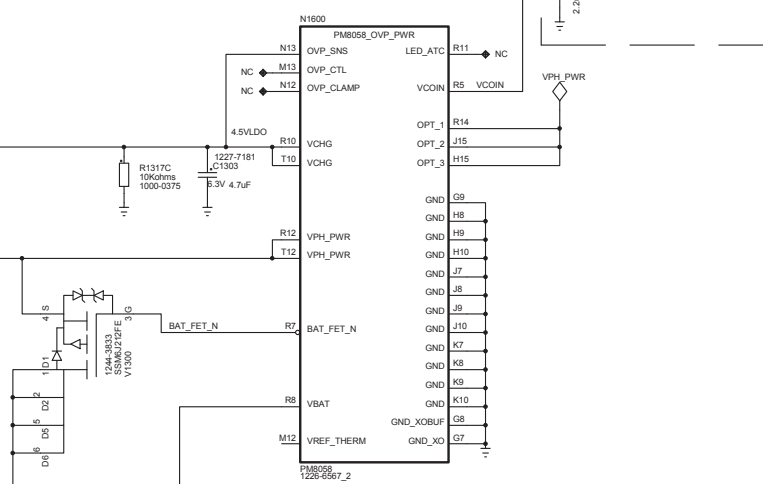


Charging and Battery Management - 1300

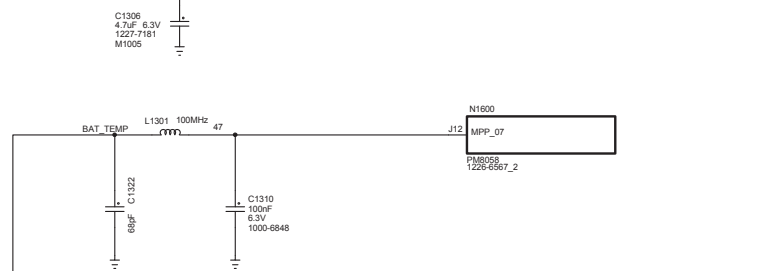
USB - 2200



PM8058 OVP, Charger



BAT_FET



BATTERY CHARGER



GPIO_020



GPIO_26

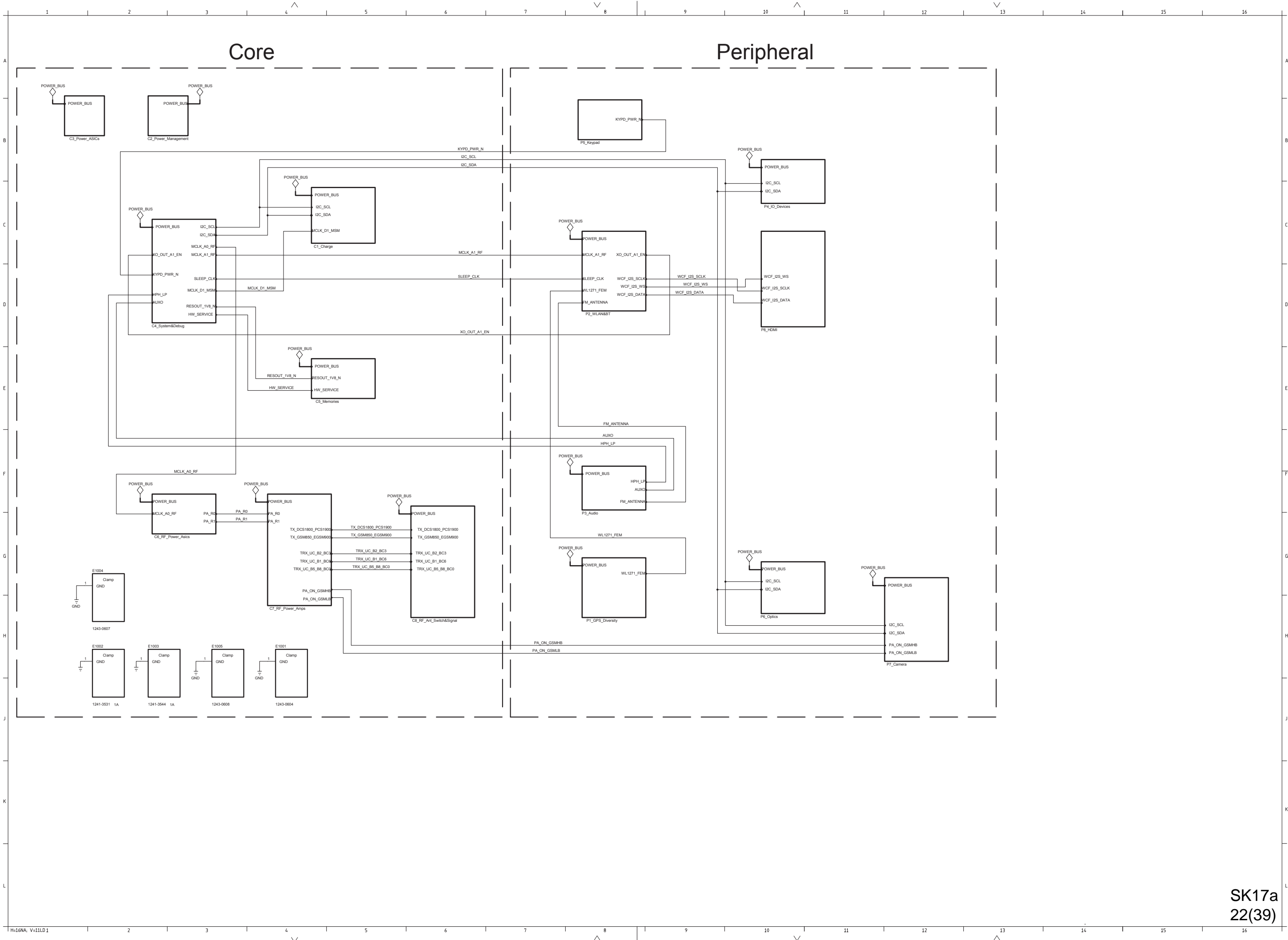


GPIO_38



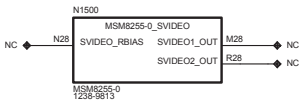
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SK17a



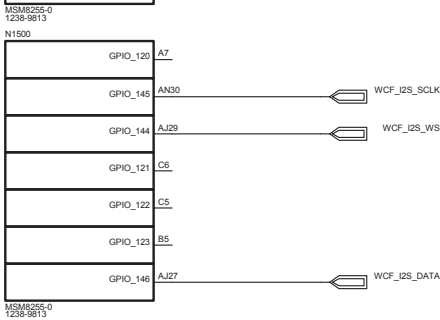
HDMI - 6500

Analog TV_Out - 6400



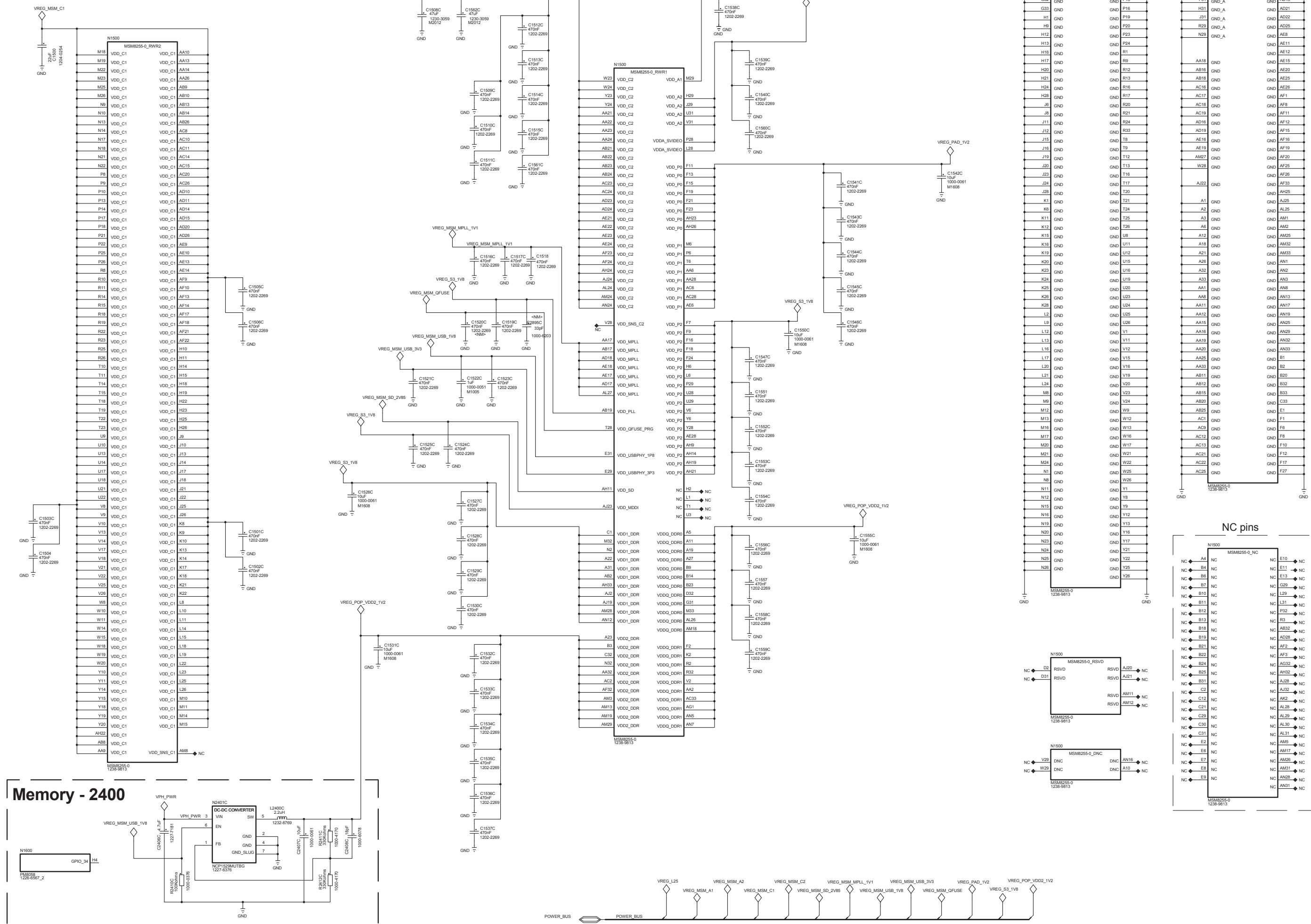
N1500	GPIO_128	M1
	GPIO_129	M2
	GPIO_130	M3
	GPIO_131	N3
	GPIO_132	M5

	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



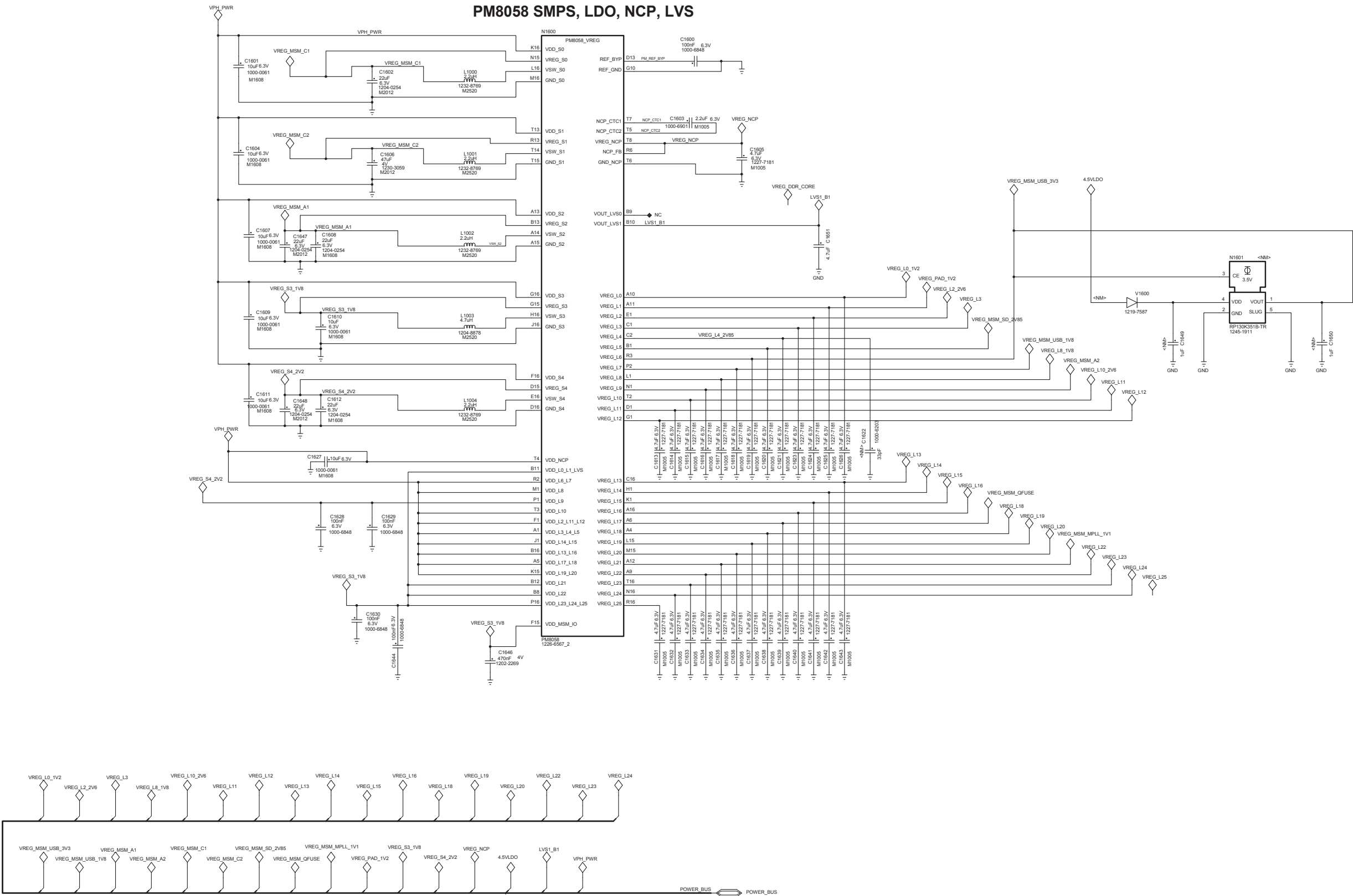
N1500	GPIO_090	E19
MSM8255-0 1238-9813		
N1500	GPIO_105	E21
MSM8255-0 1238-9813		
N1500	GPIO_102	E28
MSM8255-0 1238-9813		
N1500	GPIO_093	F20
MSM8255-0 1238-9813		

DB Decoupling - 1500

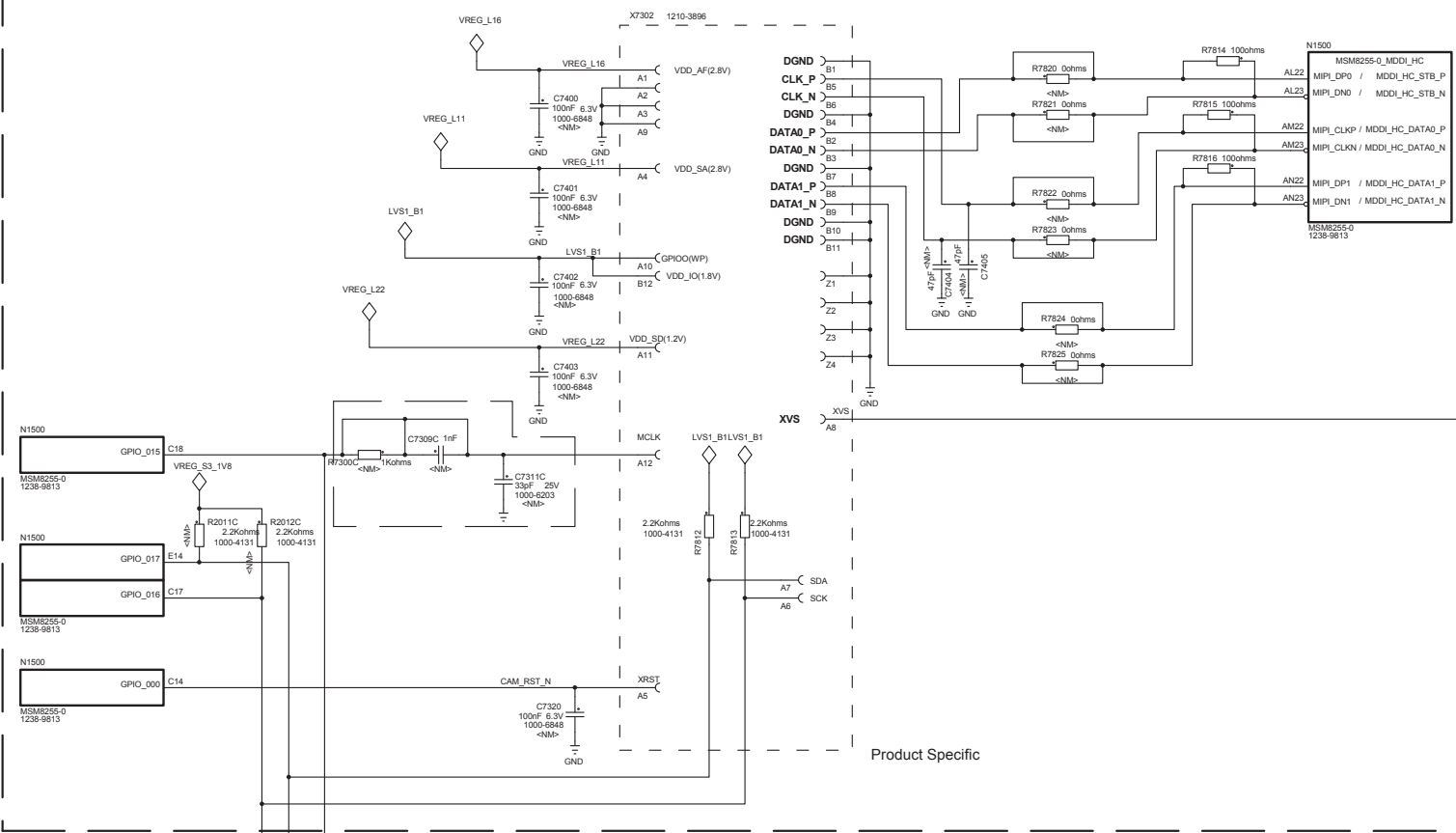


SK17a
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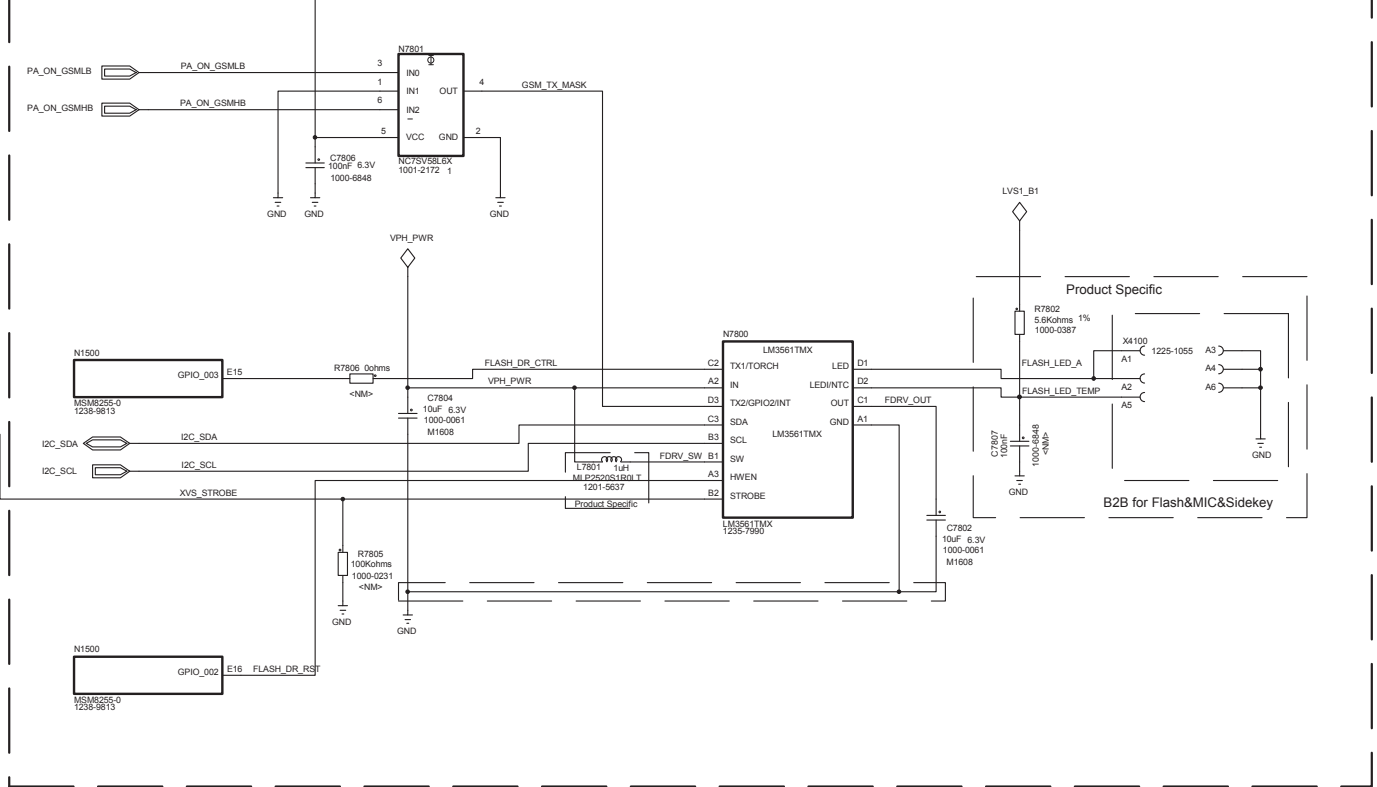
Power Management - 1000



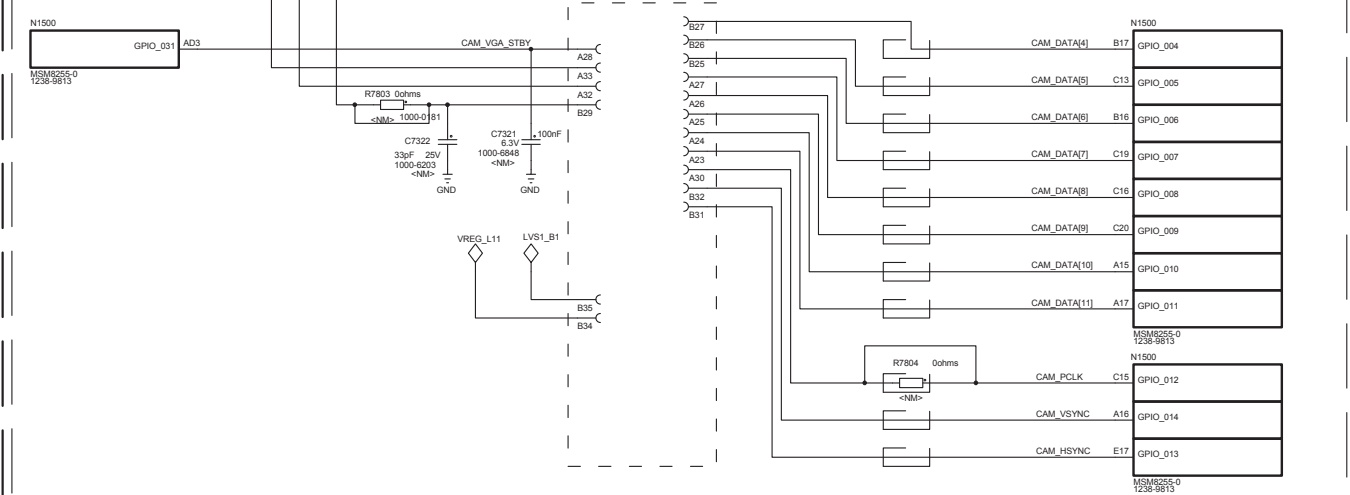
Main Camera - 7300



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
1228-1182

CSB
SCL/SK
SDA/SI
SO
RSV
D2
D1
C4
B1
VDD

NC
GND
GND
GND
GND
GND
GND

TST1
TST2
TST6
A1
C2
D4
NC
NC
NC

VID
VSS
C1
GND

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

N5000
BMA250
1237-8546

SDO
SDI/SDA
VDDIO
NC
INT1
INT2
CSB
PS
SCK
1
2
3
4
5
6
7
8
9
10
11
12

VDD
GND
NC
GND
GND
GND
GND

VREG_S3_1V8
VREG_L8_1V8
VREG_L10_2V6

C2000
100nF
1000-6848

C5001
100nF
1000-6848

USIM Connector - 4000

USIM Connector

N1500
MSM8255-0
1238-9813

GPIO_050
AG3

MSM_UM_RESET
E9

GPIO_27

N1500
PM8058
1228-6567_2

GPIO_049
AG5

MSM_UM_CLK
F8

GPIO_29

N1500
PM8058
1228-6567_2

GPIO_052
AG2

MSM_UM_DATA
F12

MPP_01

MPP_02

F13

VREG_L3
VREG_L8_1V8
VREG_L10_2V6
VREG_S3_1V8
VBAT

C4000
100nF
1000-6848

C4103
1nF

C4101
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C4102
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C4104
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C4105
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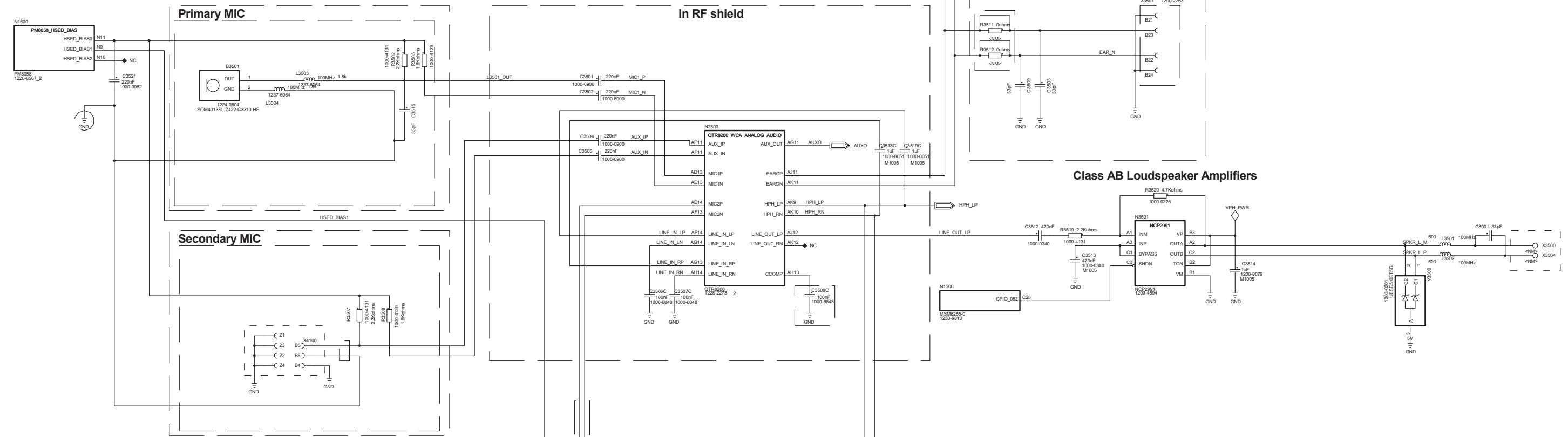
C4324
100nF

C4325
100nF

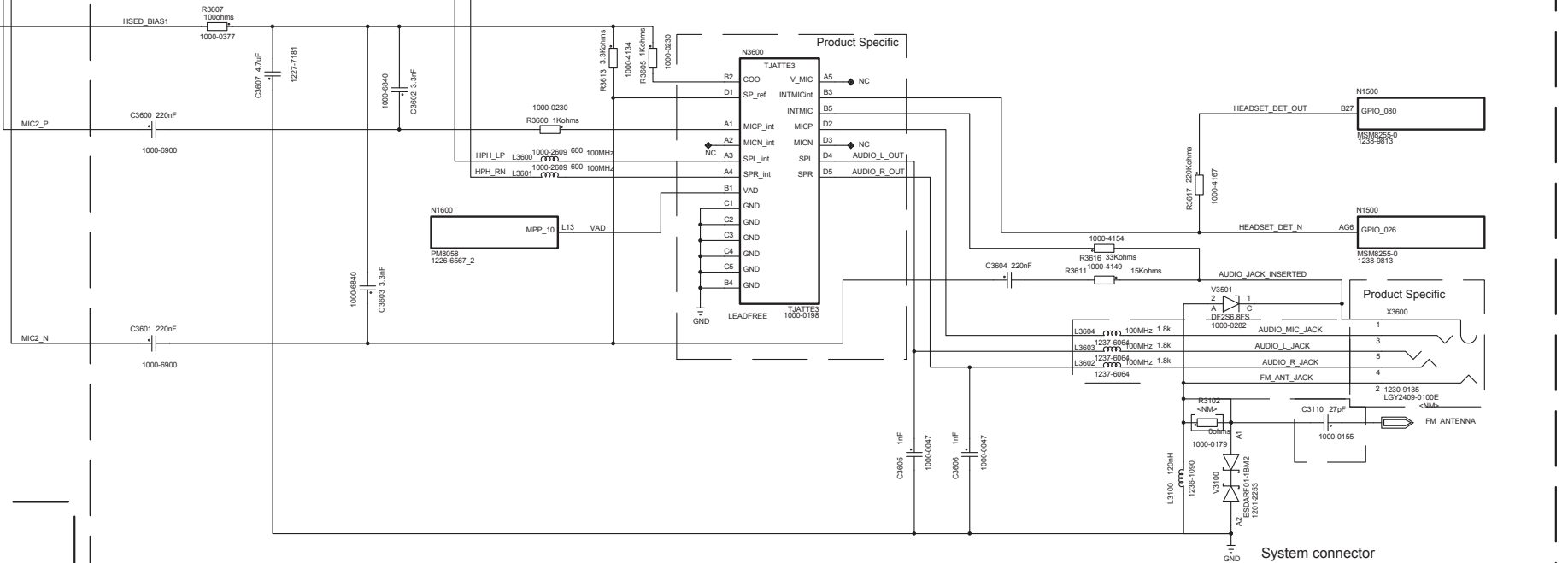
C4326
100nF

C4327
100nF

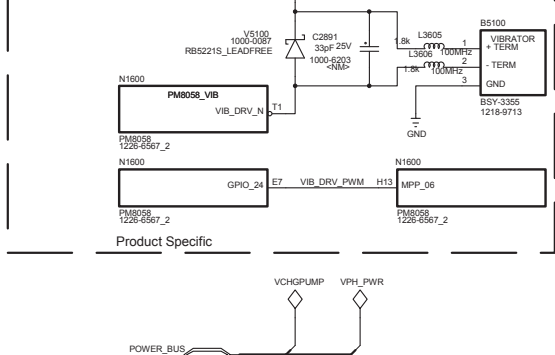
Analog Audio - 3500



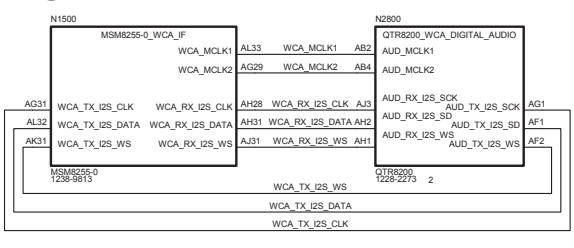
SE-PORT - 3600



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

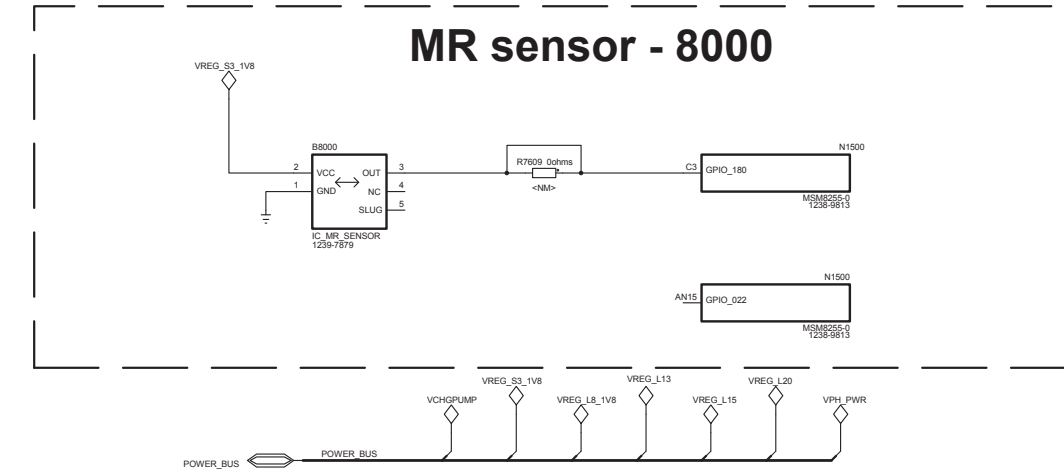
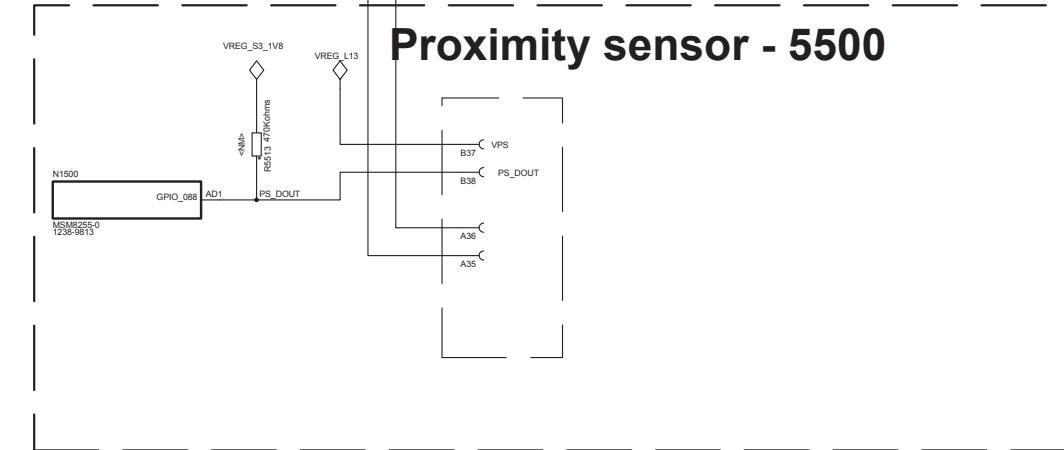
Display - 7000

Touch sensor - 5300

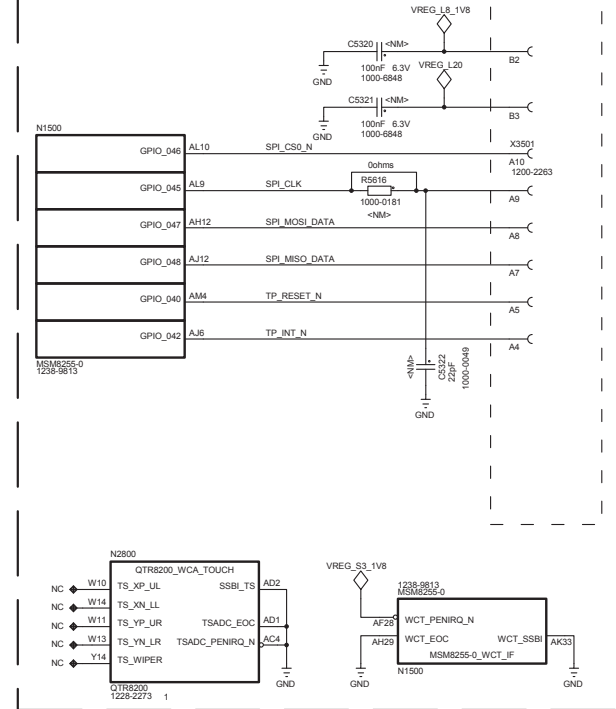
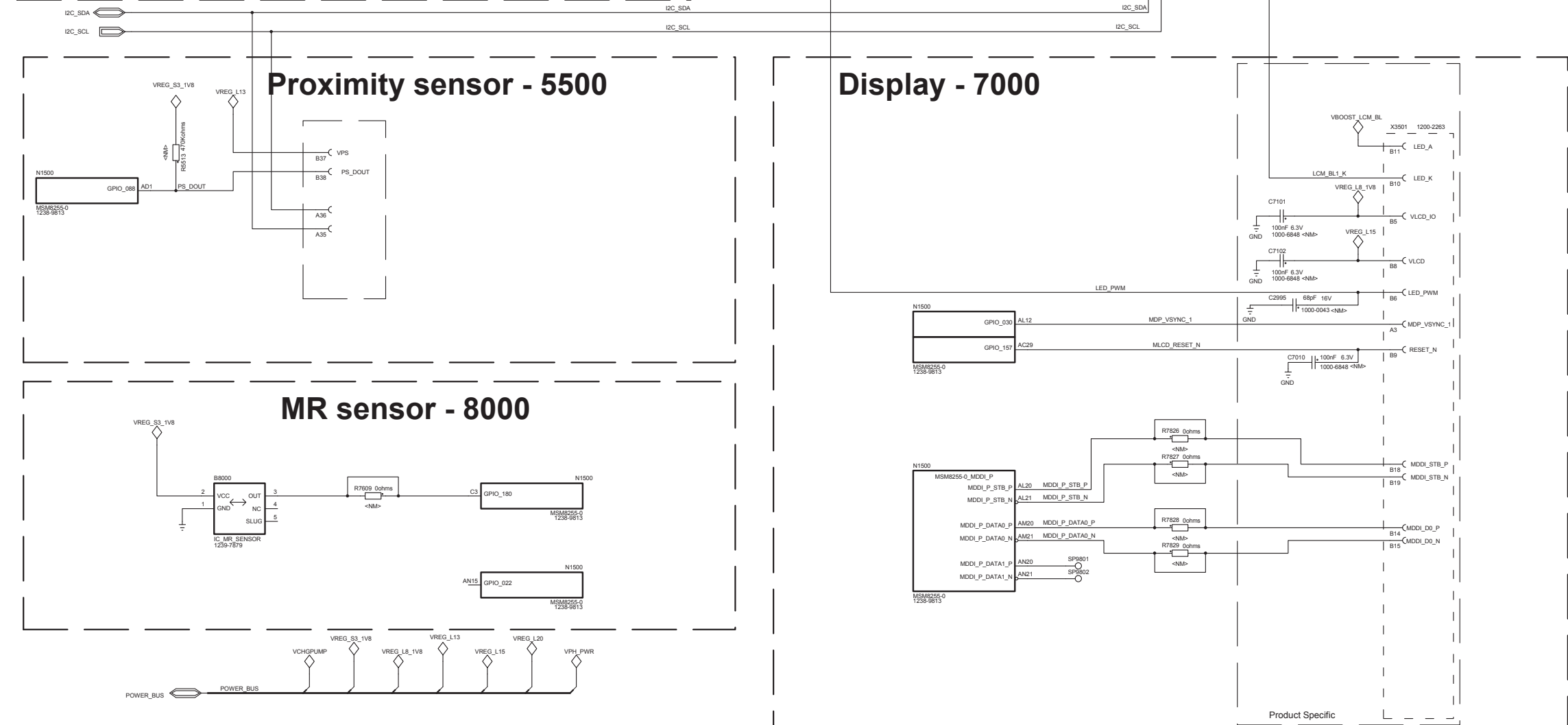
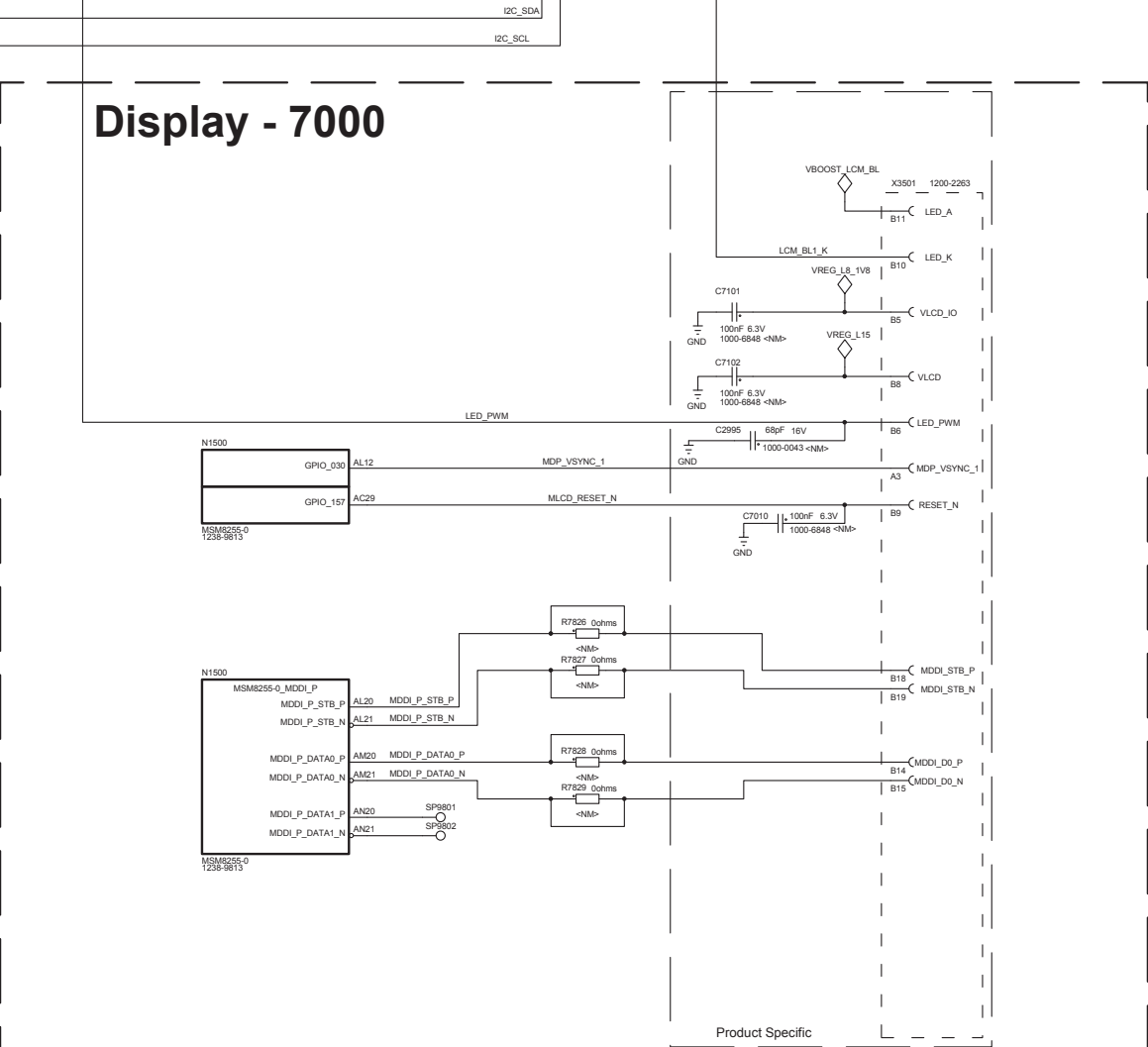
I2C_SDA
I2C_SCL

I2C_SDA
I2C_SCL

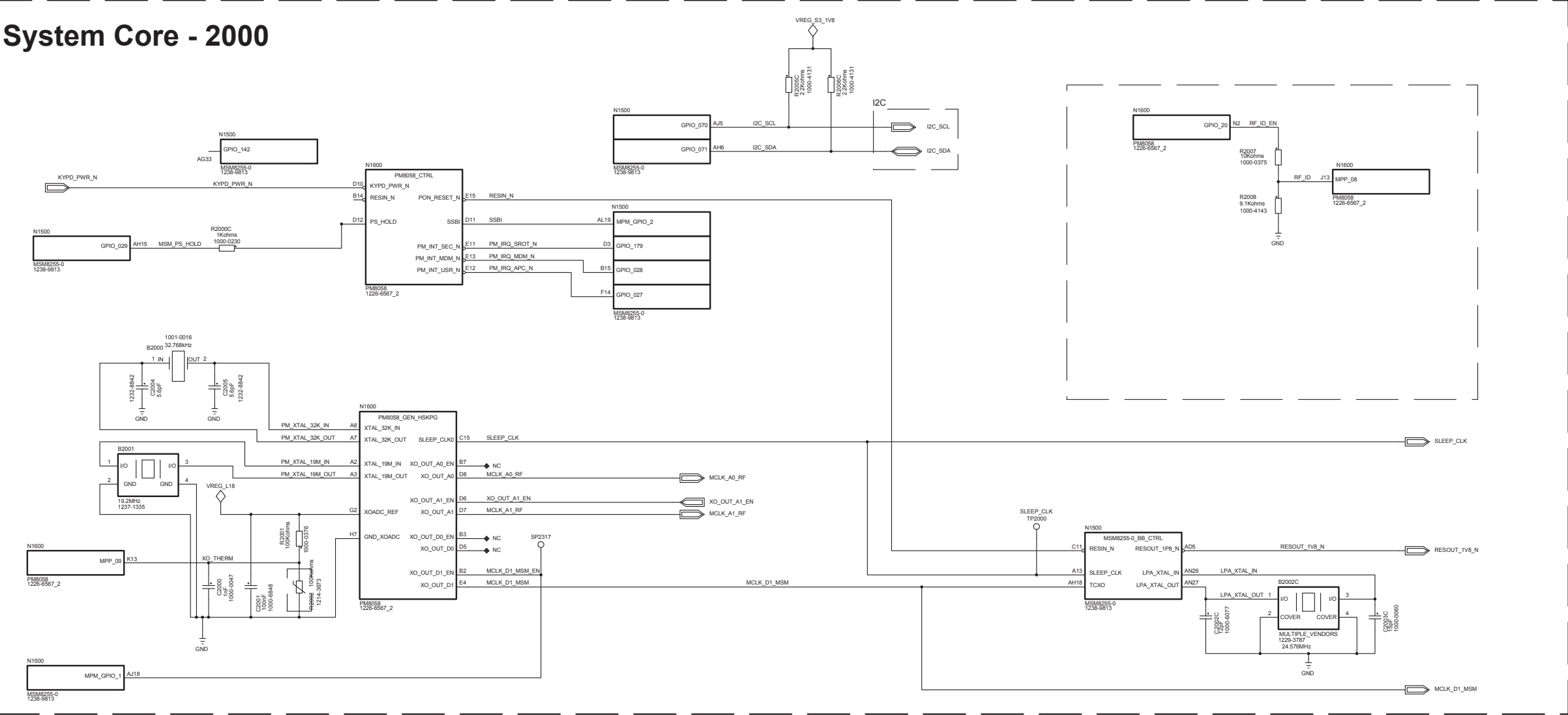
I2C_SDA
I2C_SCL



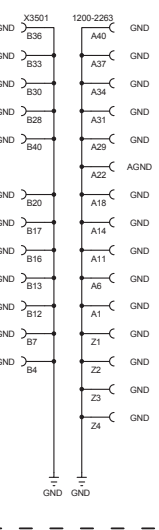
H=16NA, V=11LD



System Core - 2000



80Pin connector

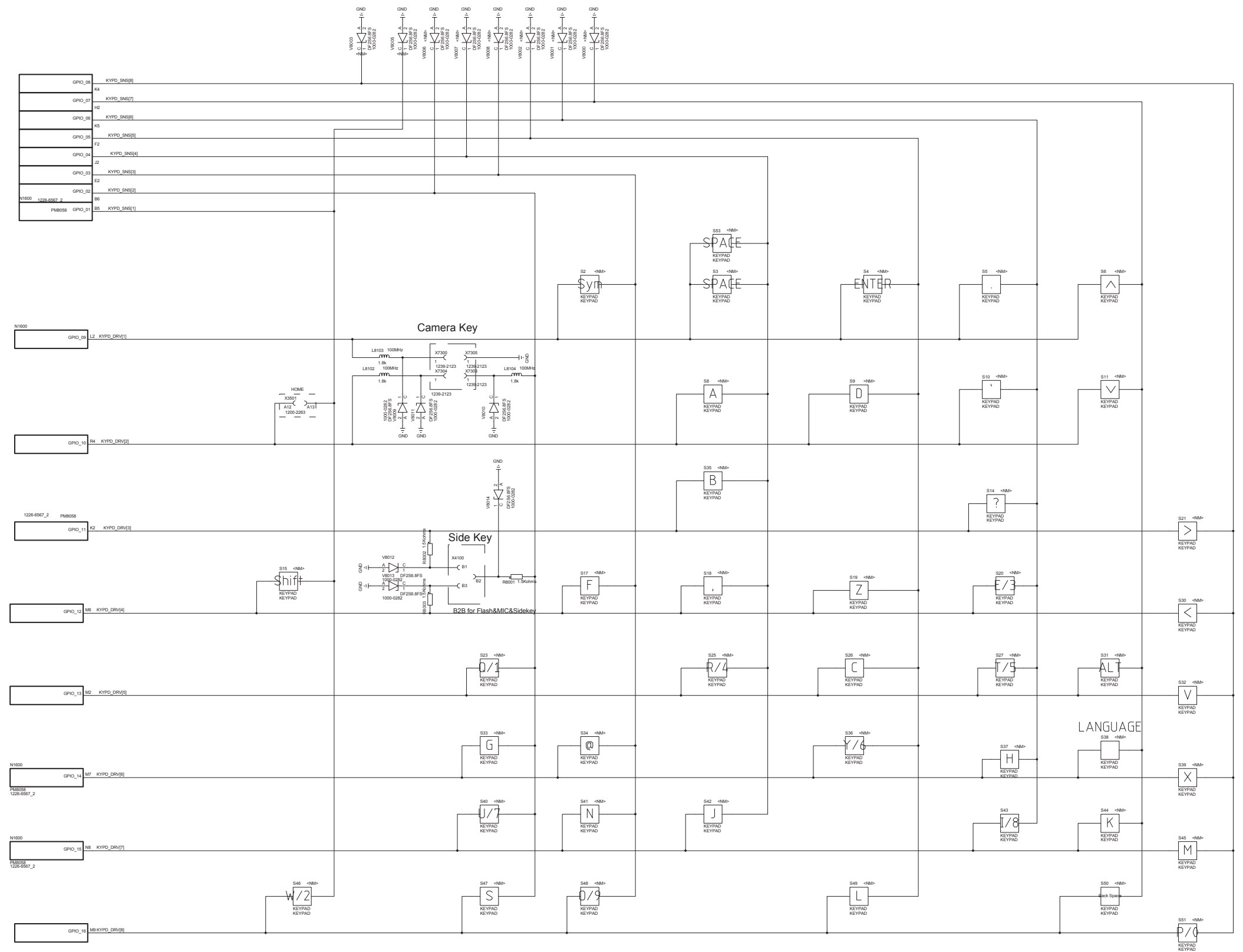
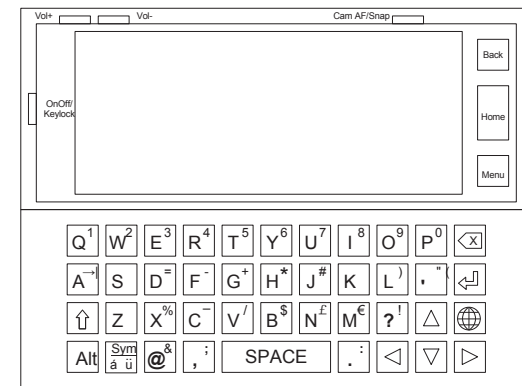


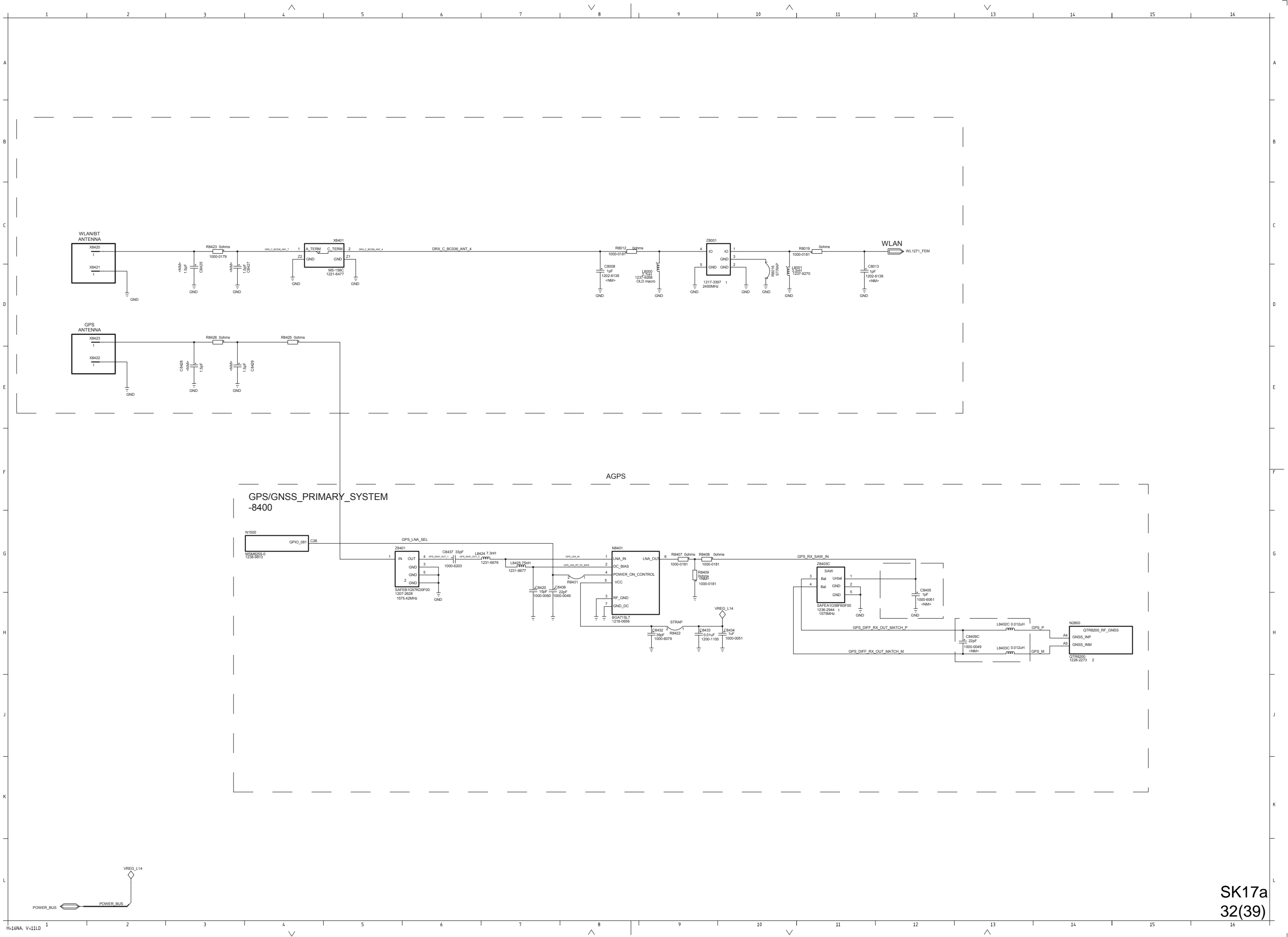
ON/OFF

S52

1001-0080
EVOP301E

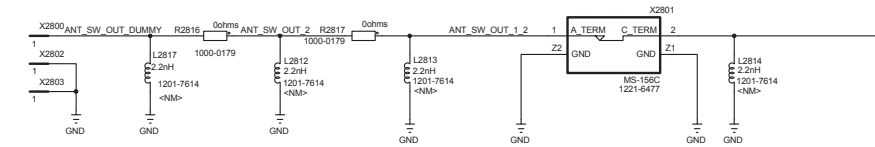
KYPD_PWR_N





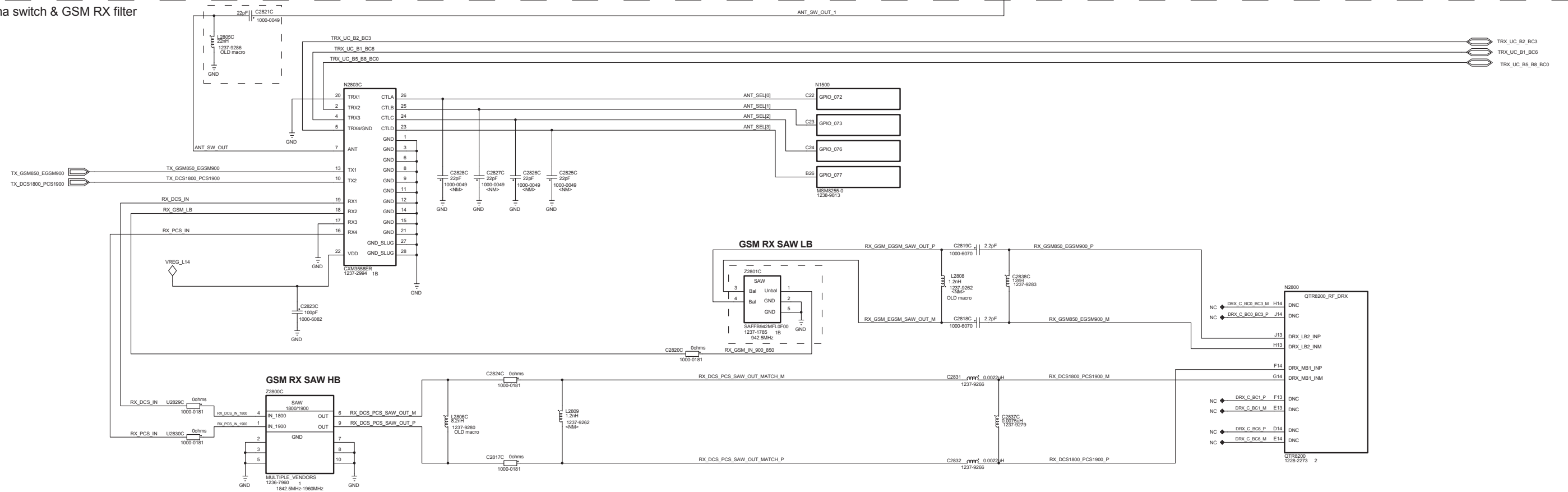
Antenna matching
-2800,9600

RF ANTENNA CONNECTOR



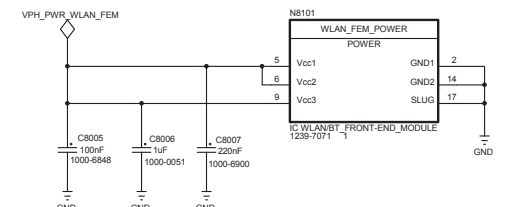
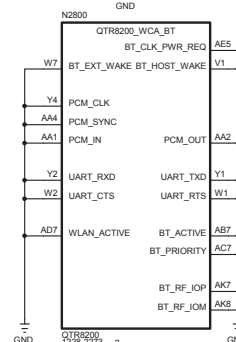
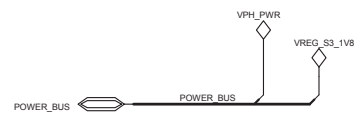
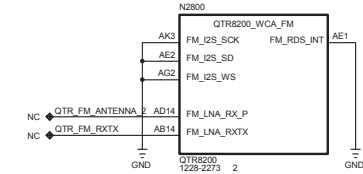
Product Specific

Antenna switch & GSM RX filter
-2800

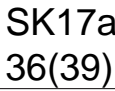


SK17a
33(39)

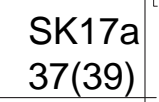
WL1271L WLAN/BT SIGNALS&POWER



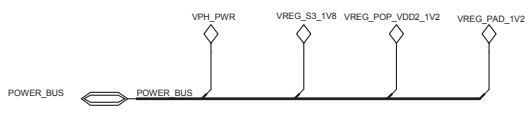
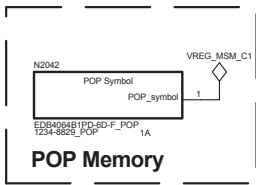
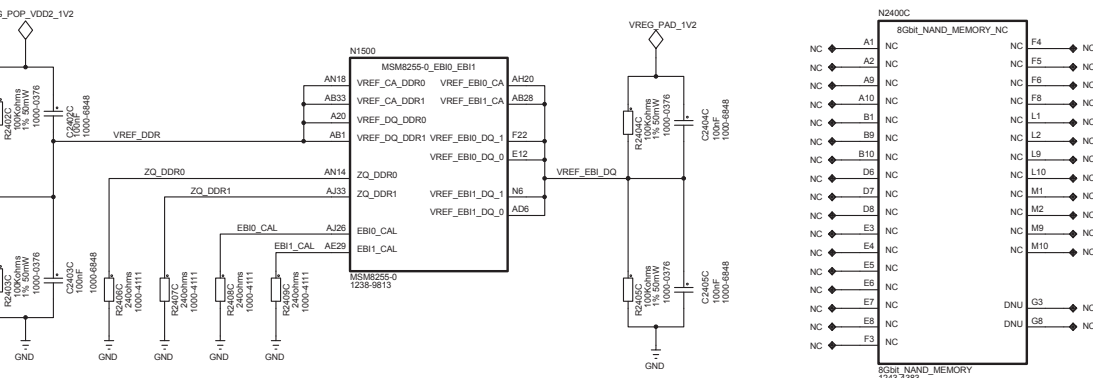
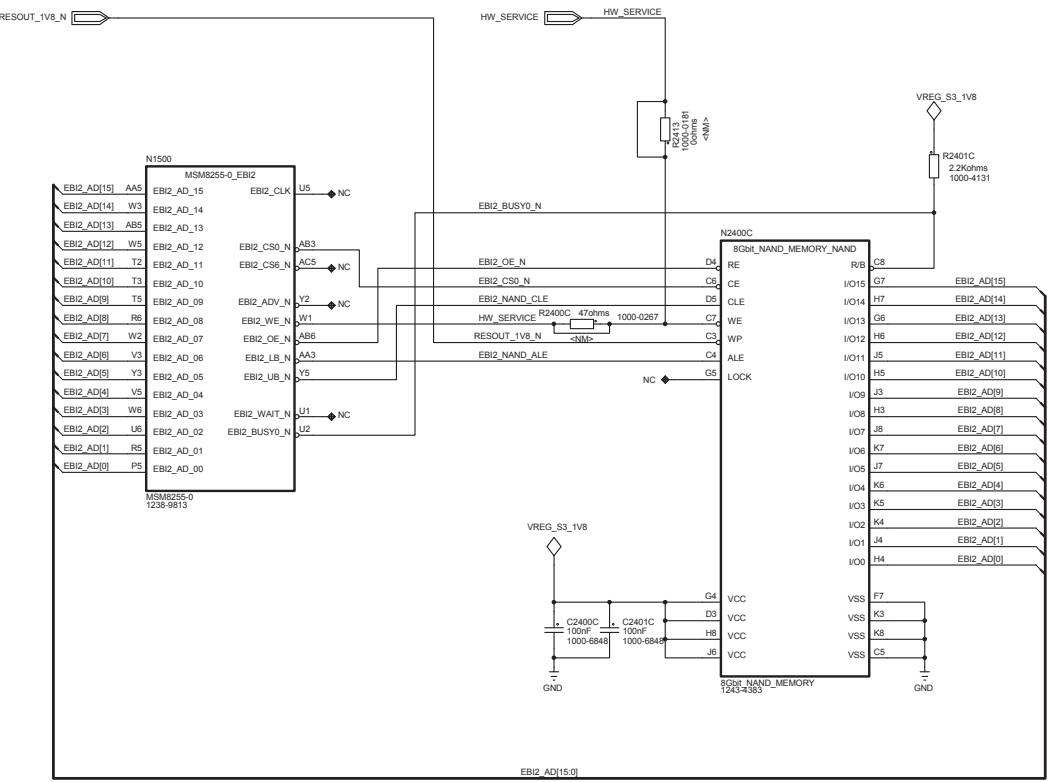
UMTS Band 5



Charging and Battery Management - 1300



Memory - 2400





Revision History

Rev.	Date	Changes / Comments
1	2011-Jul-12	Initial release
2	2011-Aug-19	No change