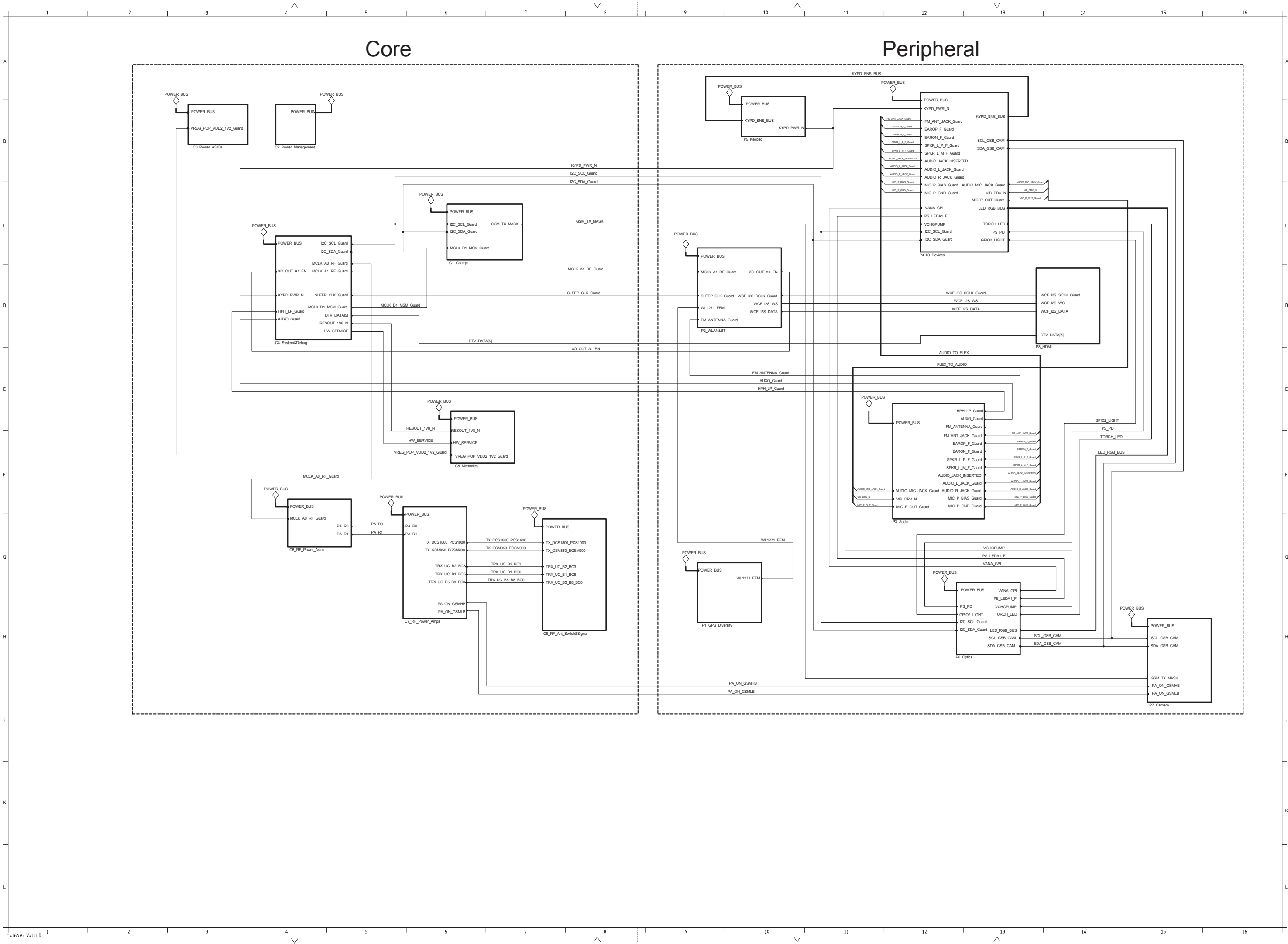
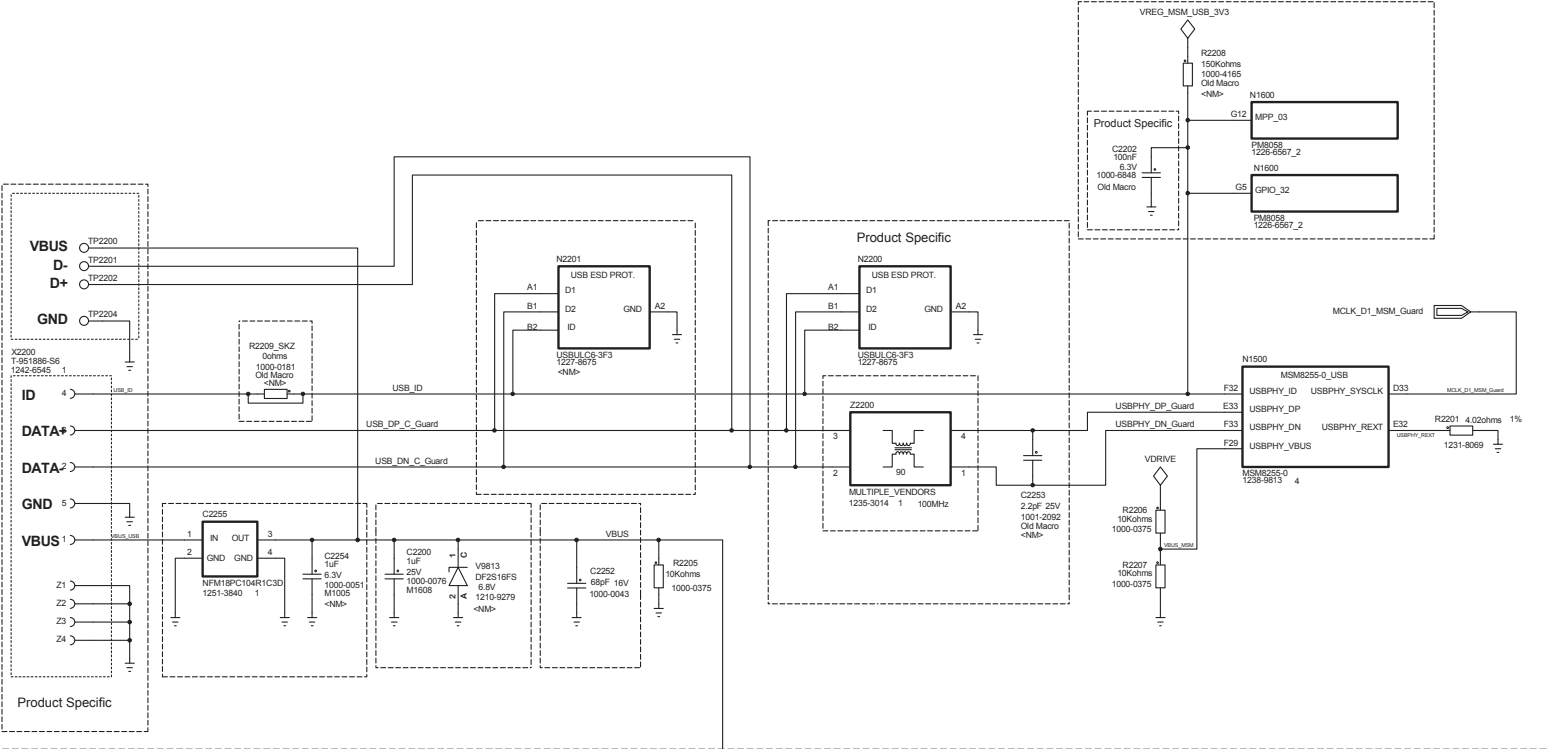


Schematics, Electrical

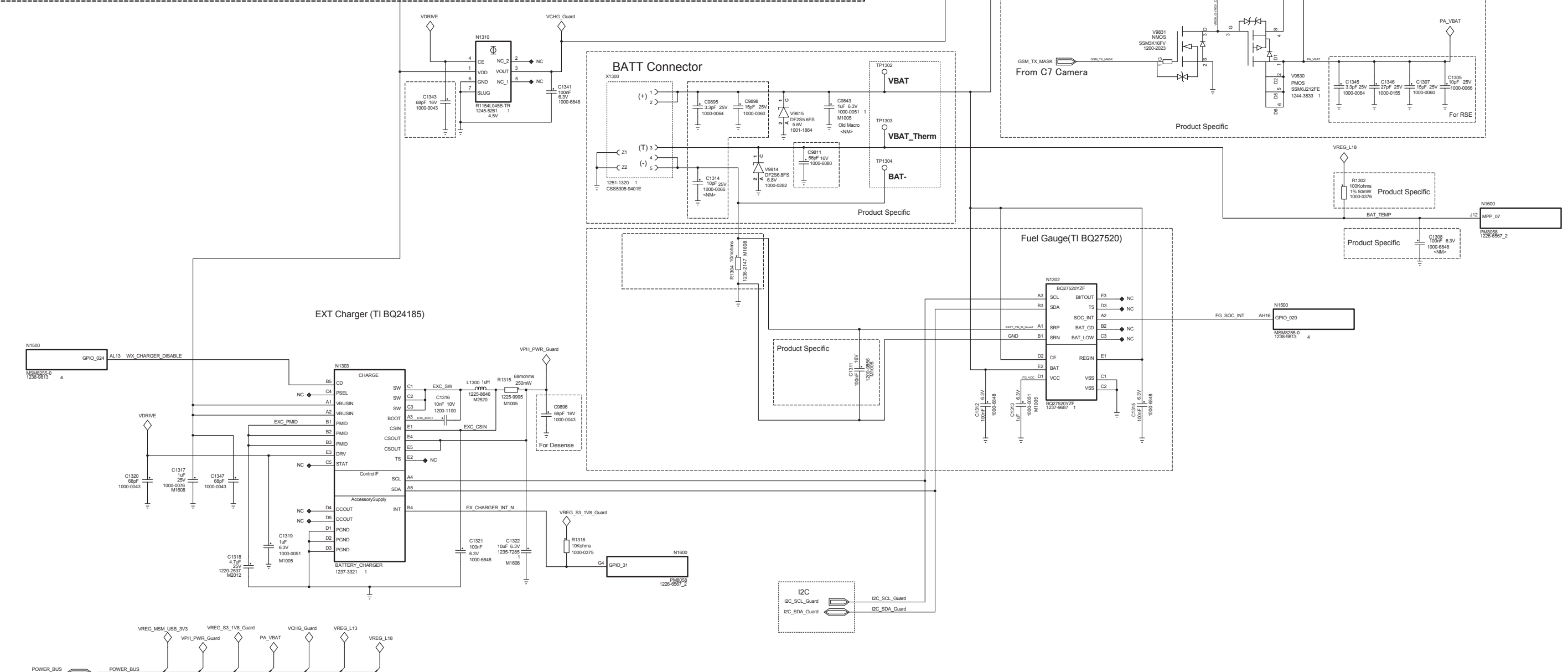
Applicable for ST18i, ST18a, SO-03C, Xperia TM Ray



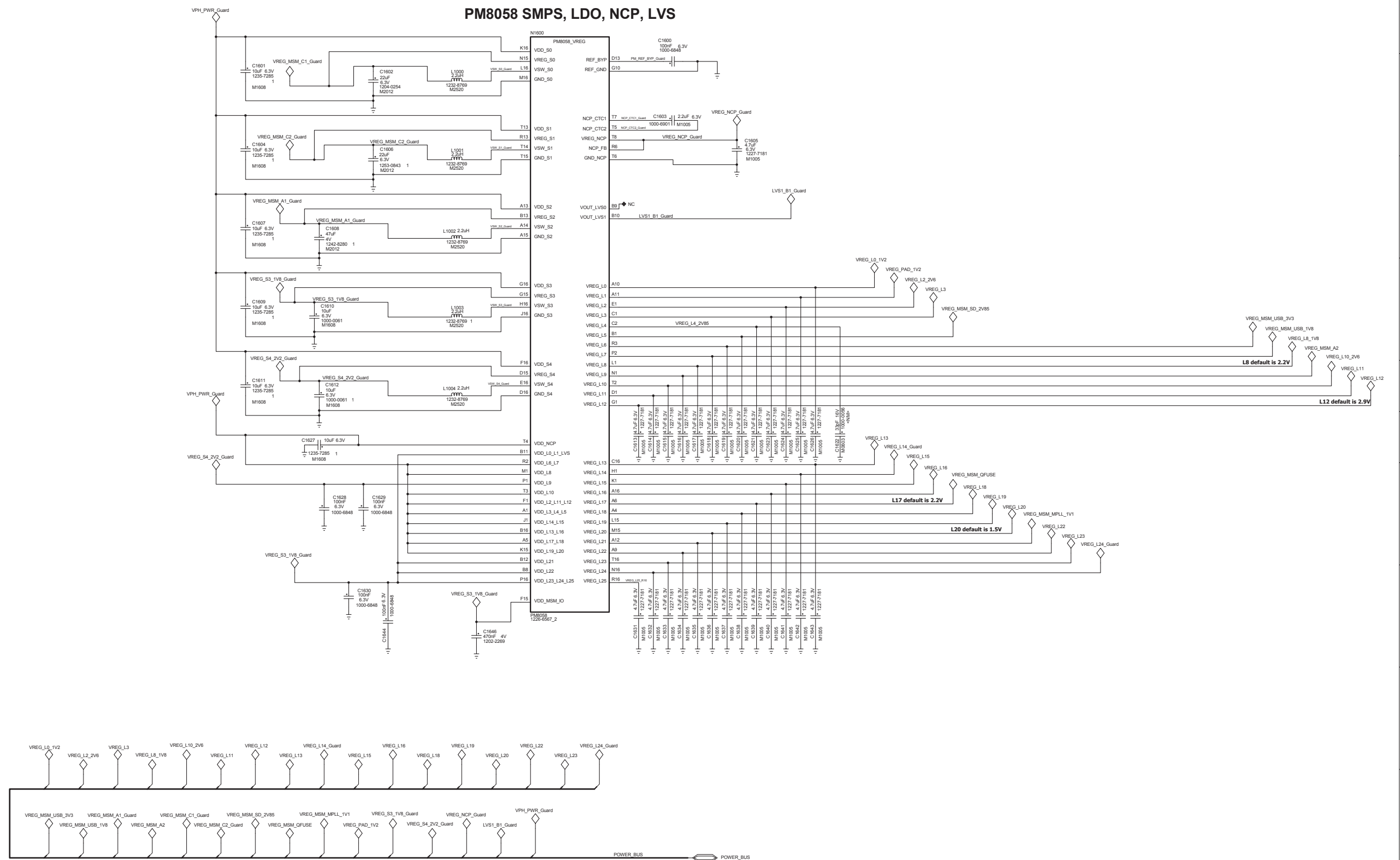
USB - 2200



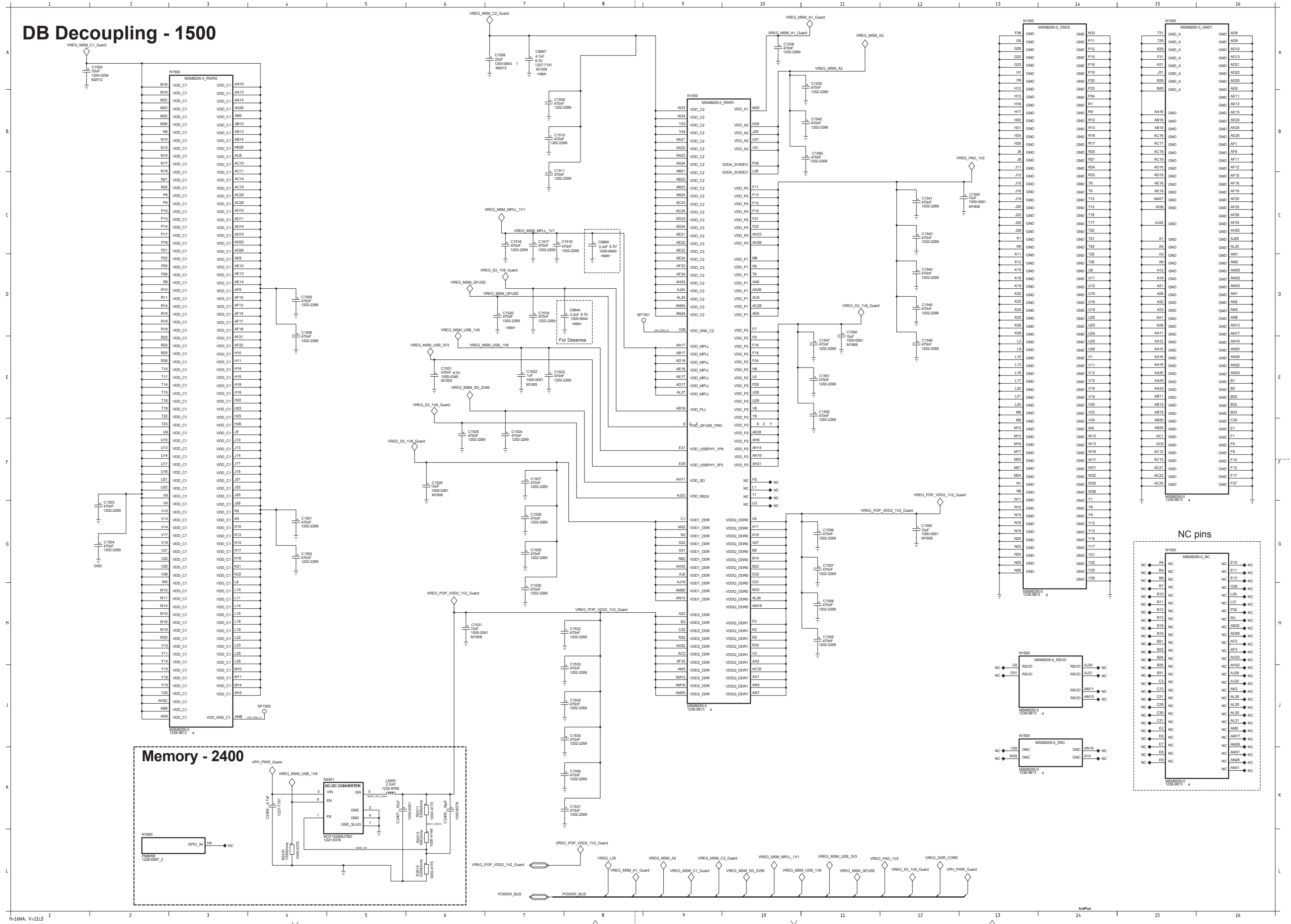
Charging and Battery Management - 1300



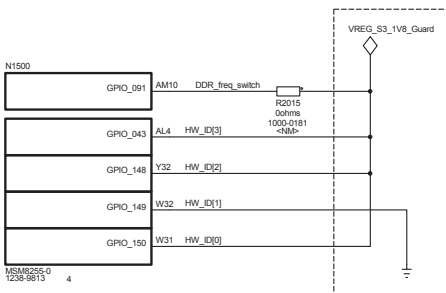
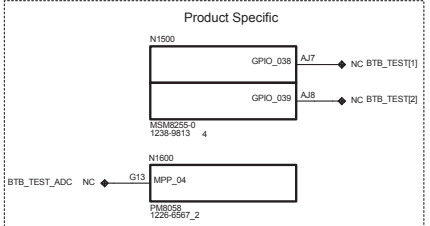
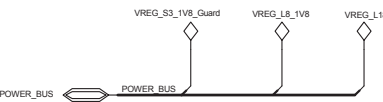
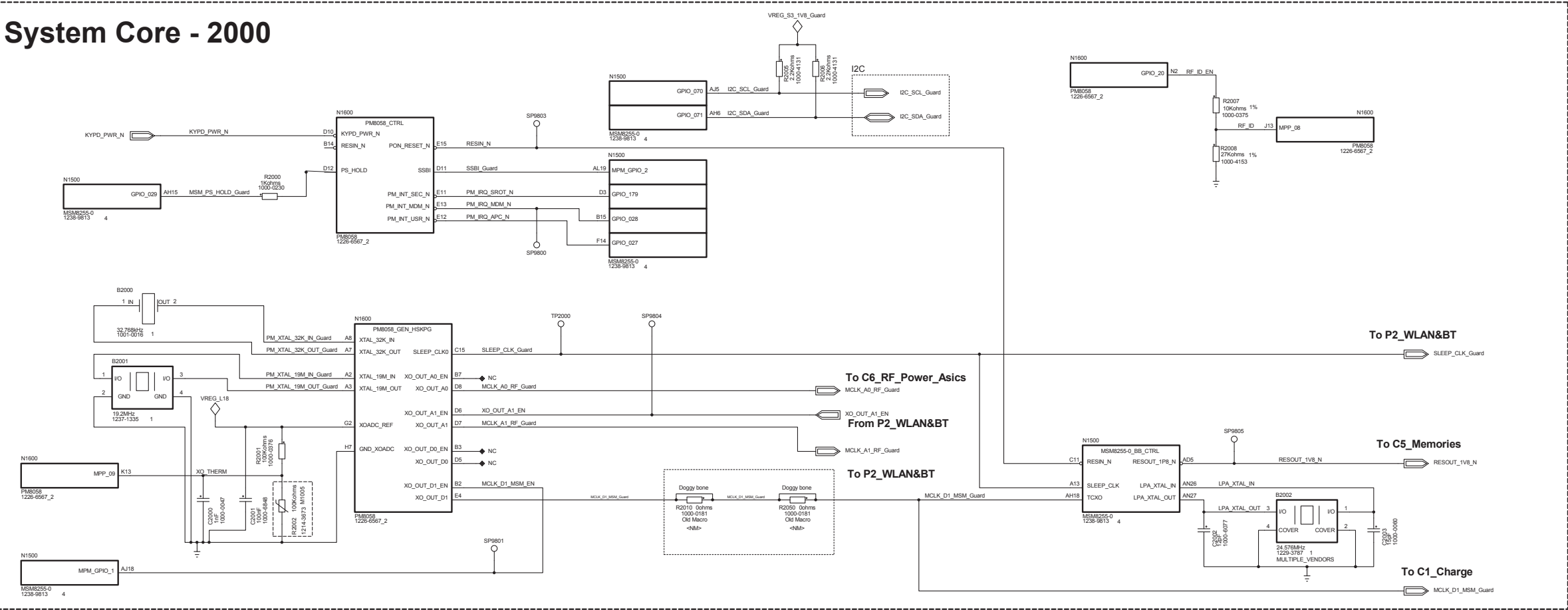
Power Management - 1000



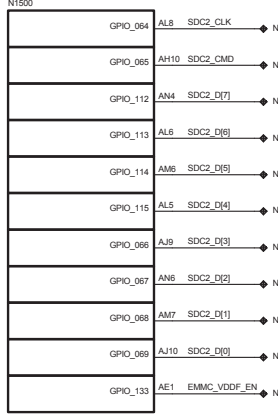
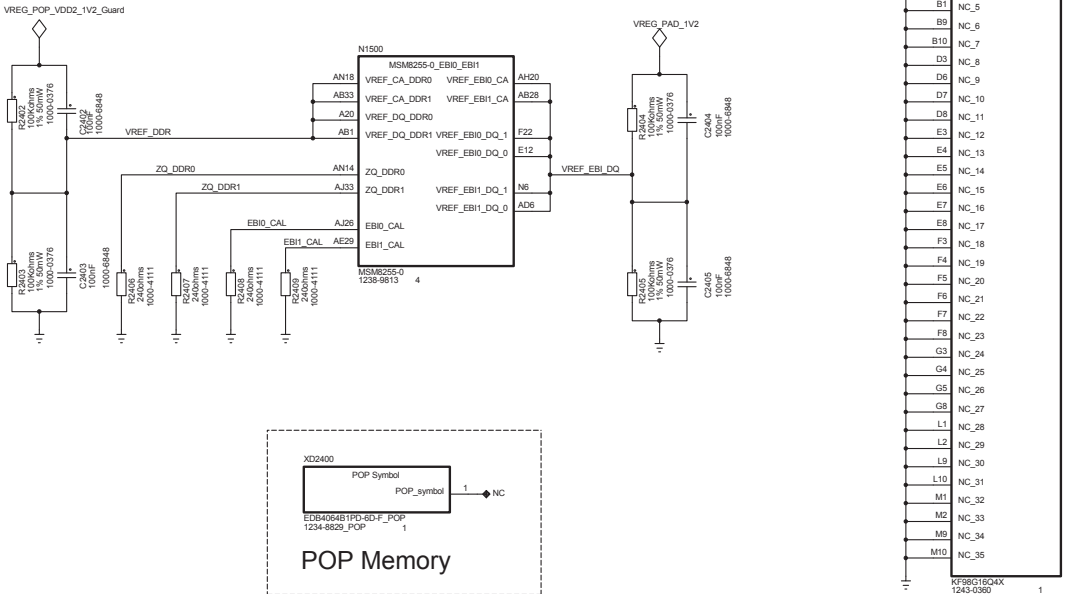
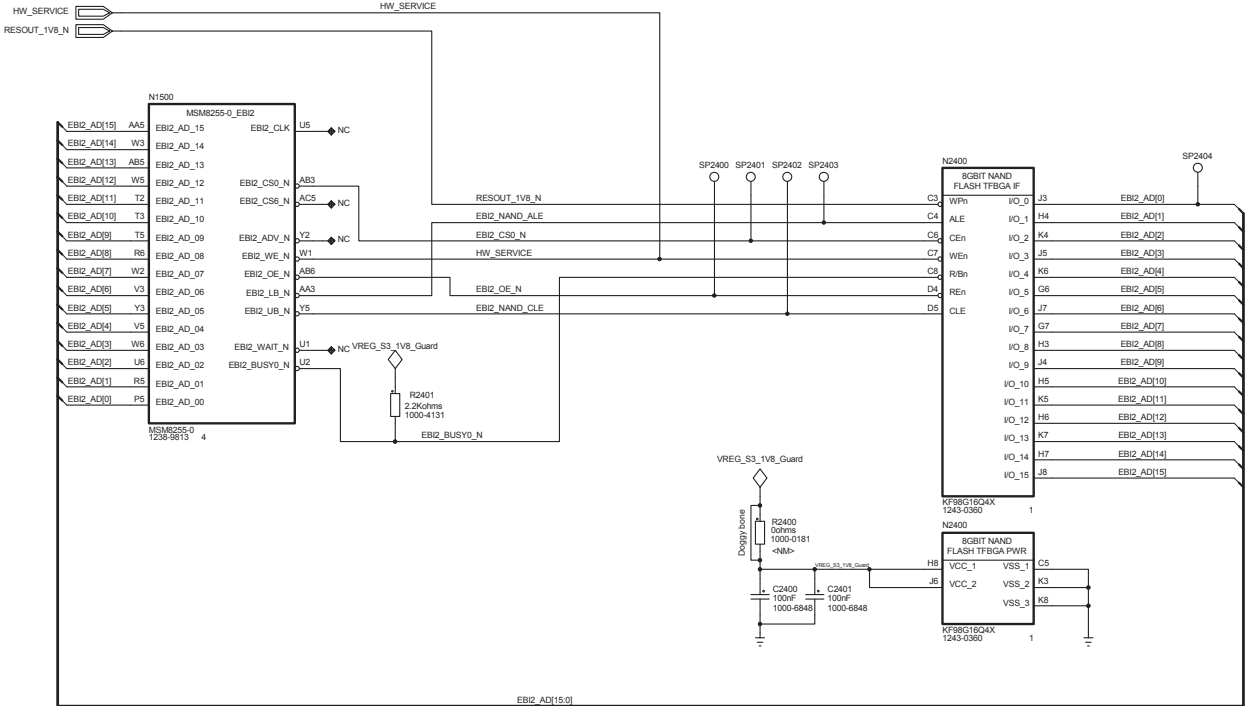
DB Decoupling - 1500



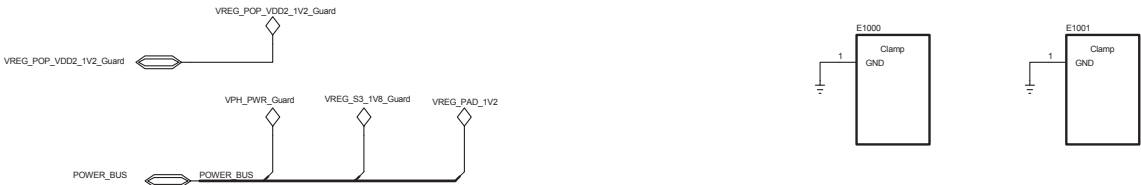
System Core - 2000

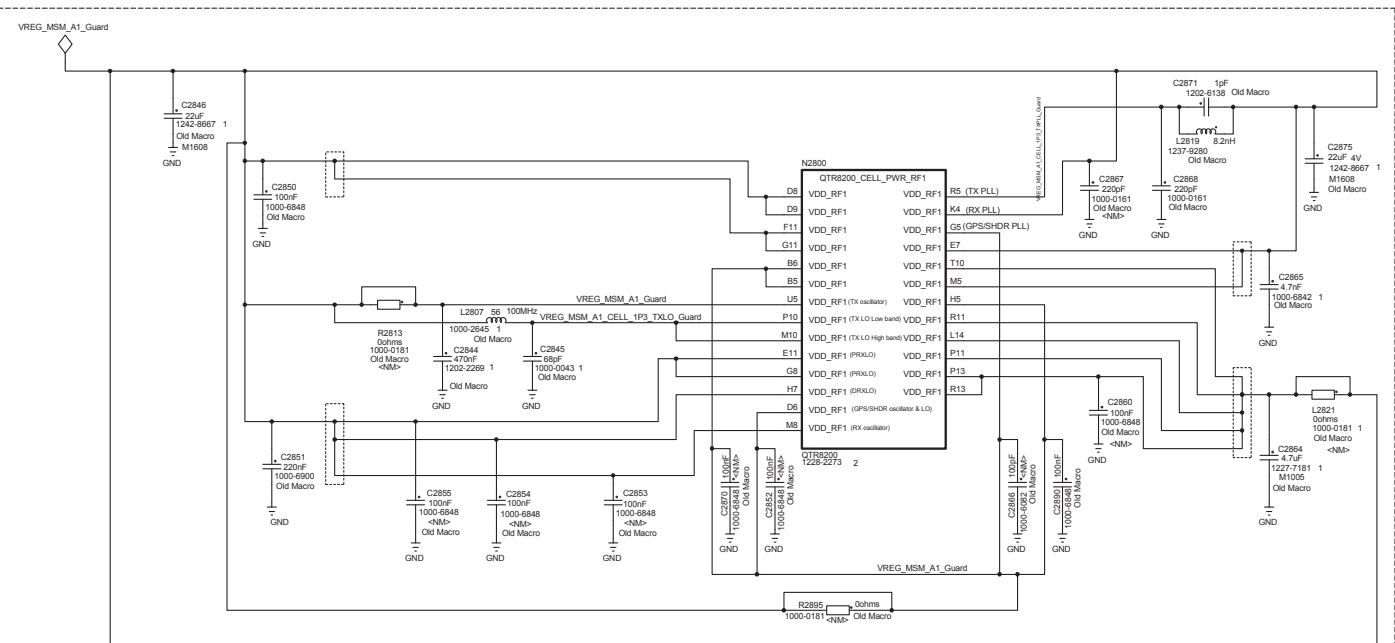
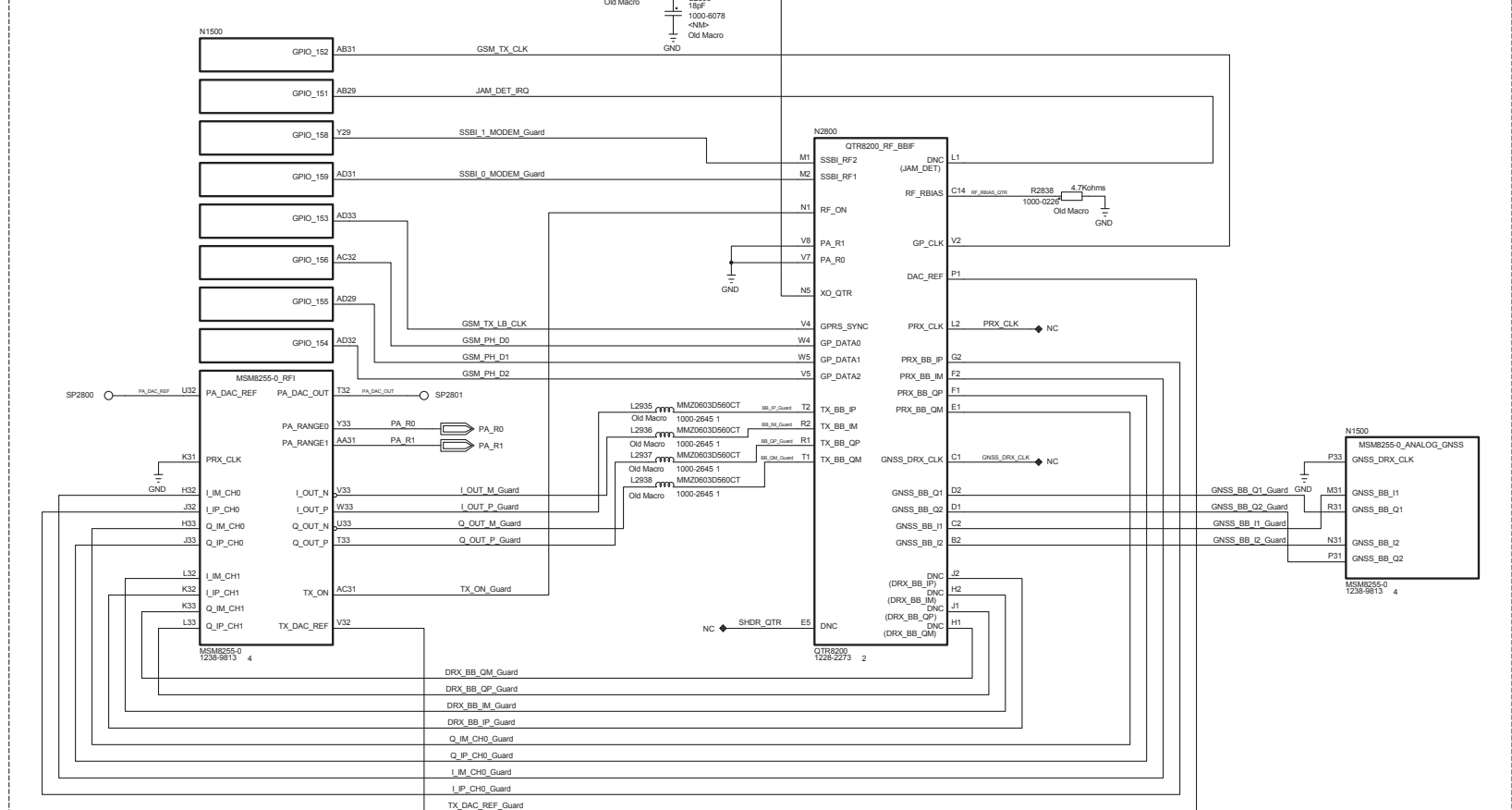
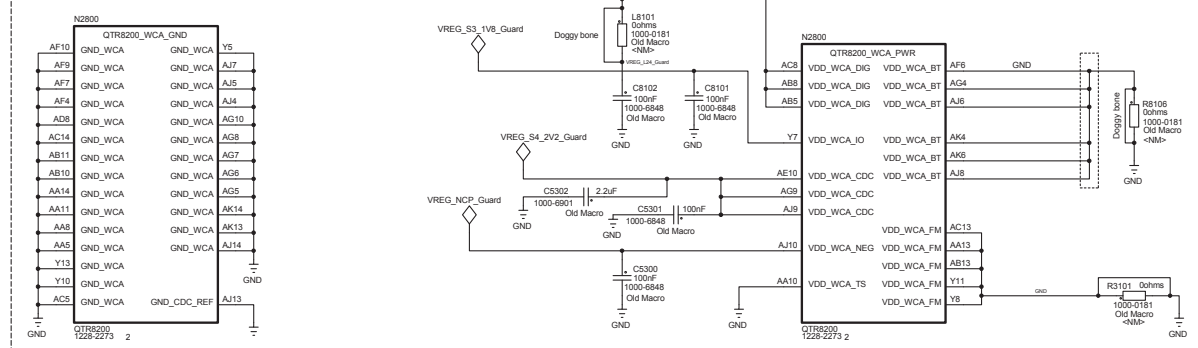
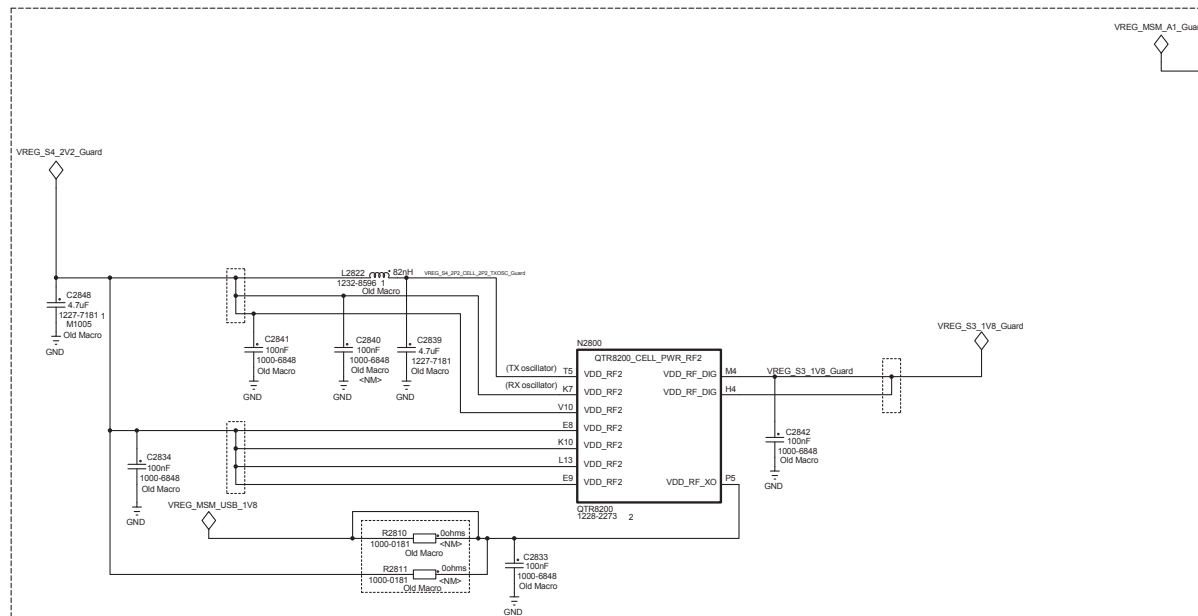
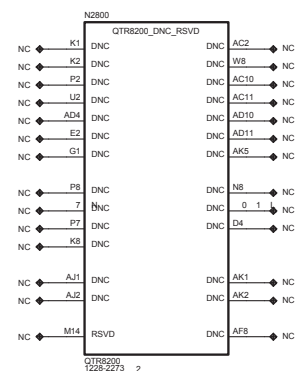
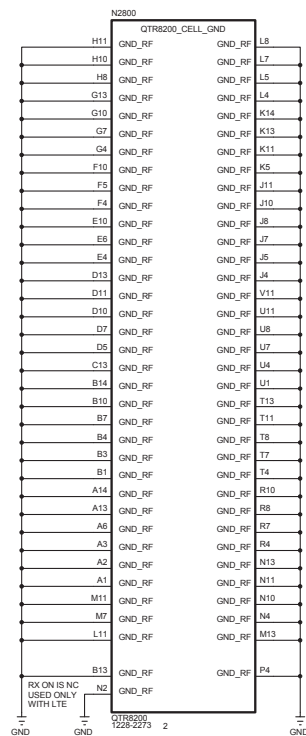
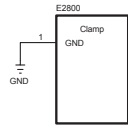


Memory - 2400

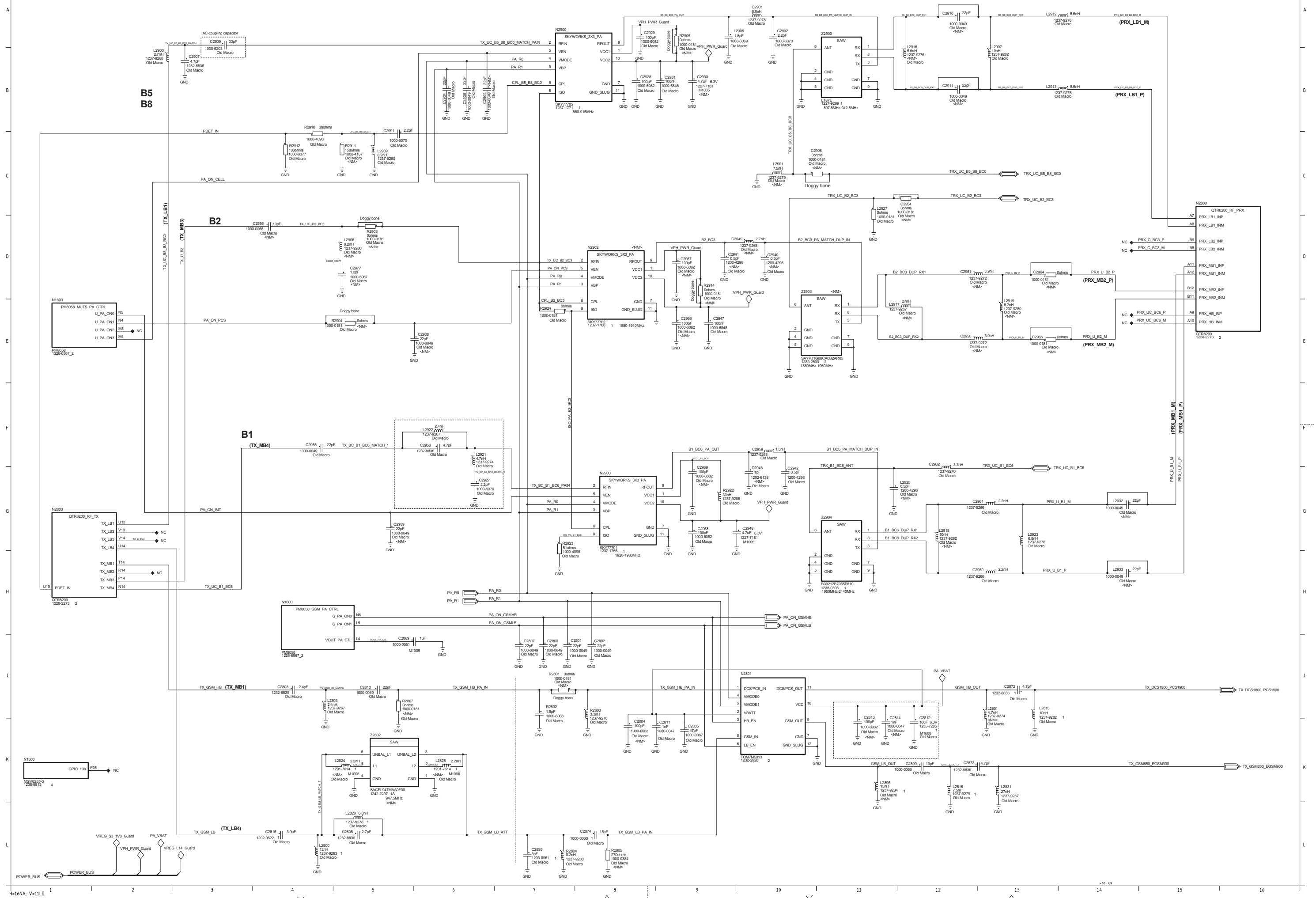


Product Specific

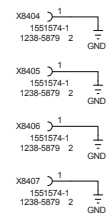




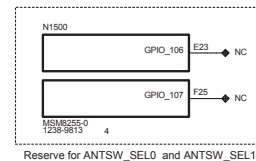
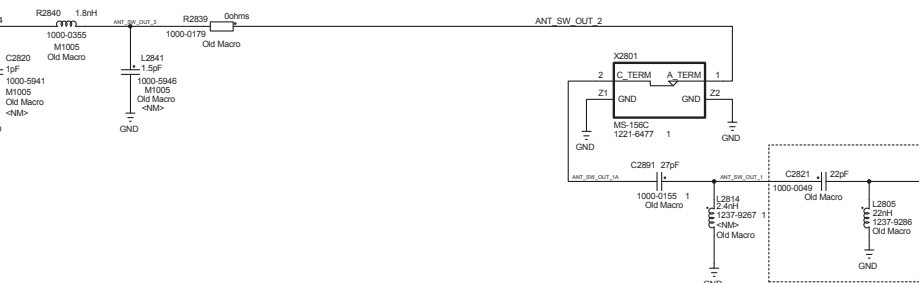
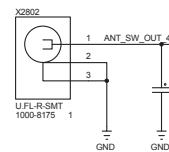
UMTS-radio-2900



Antenna matching
-2800,9600

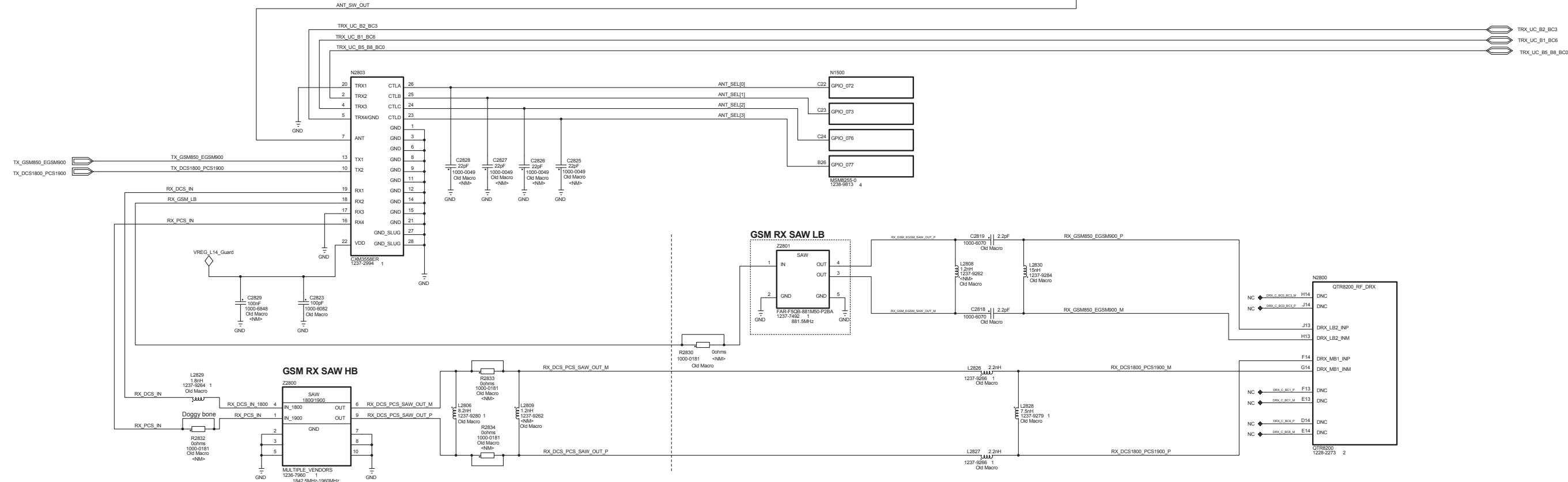


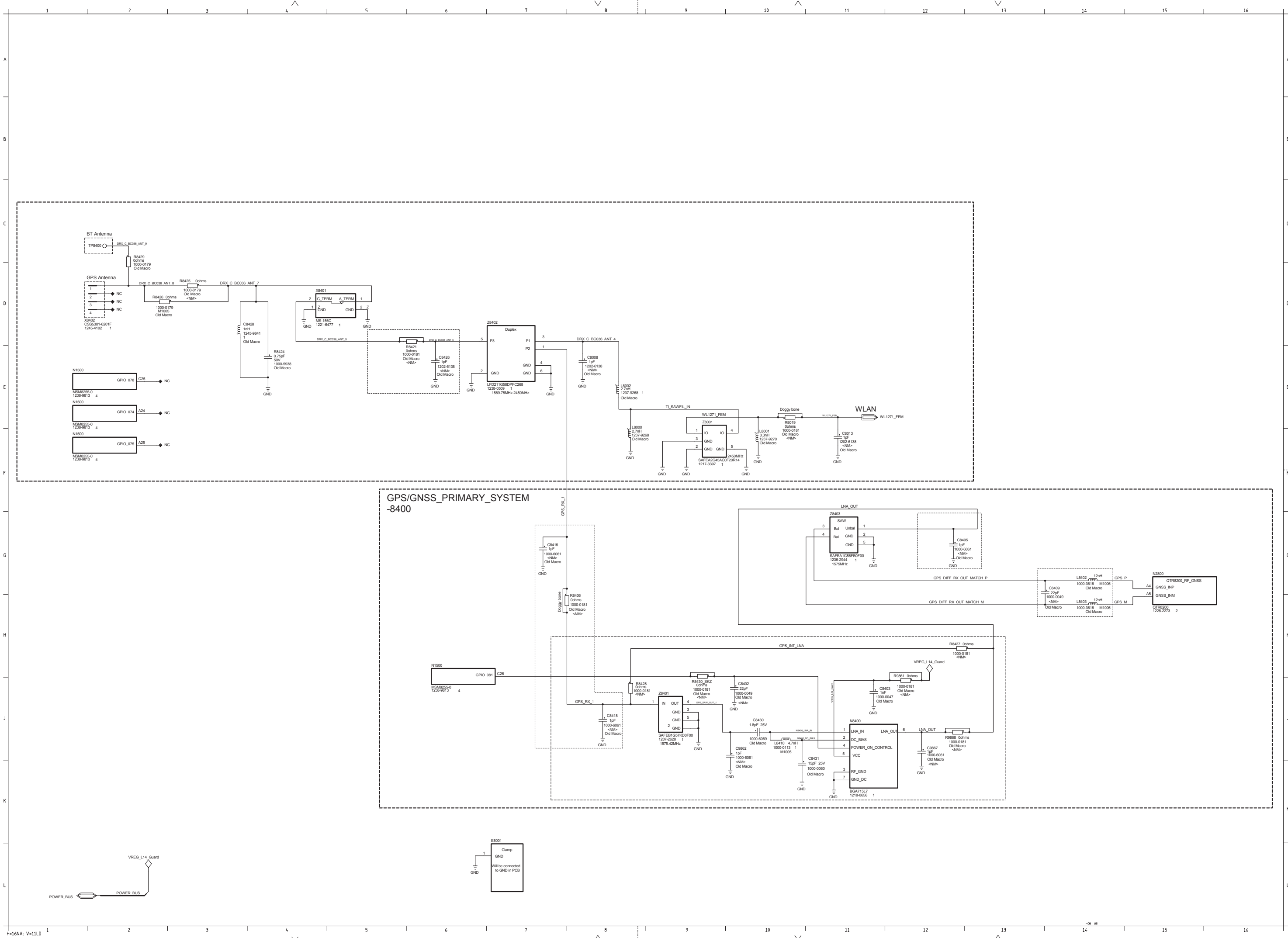
RF ANTENNA CONNECTOR

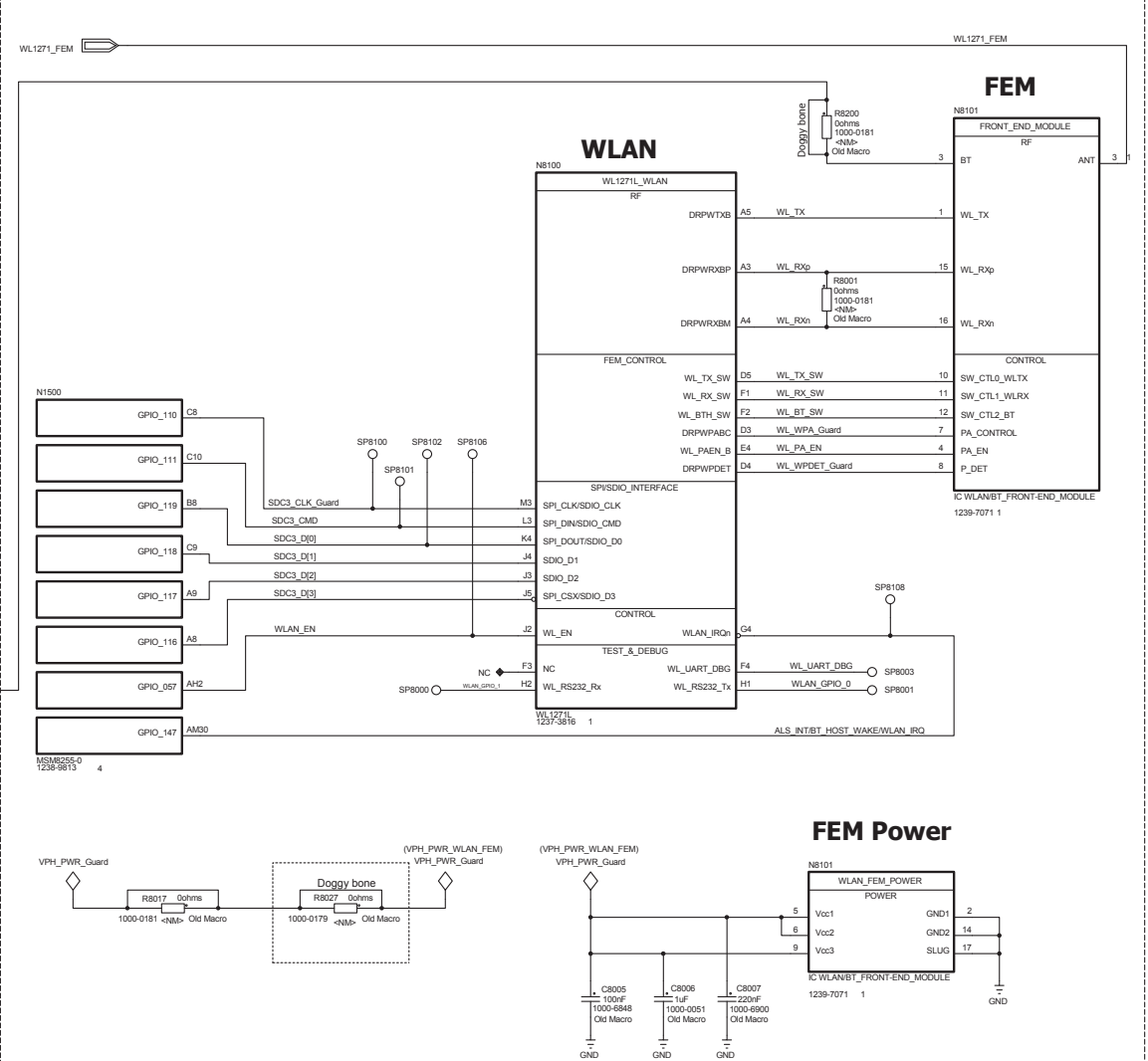
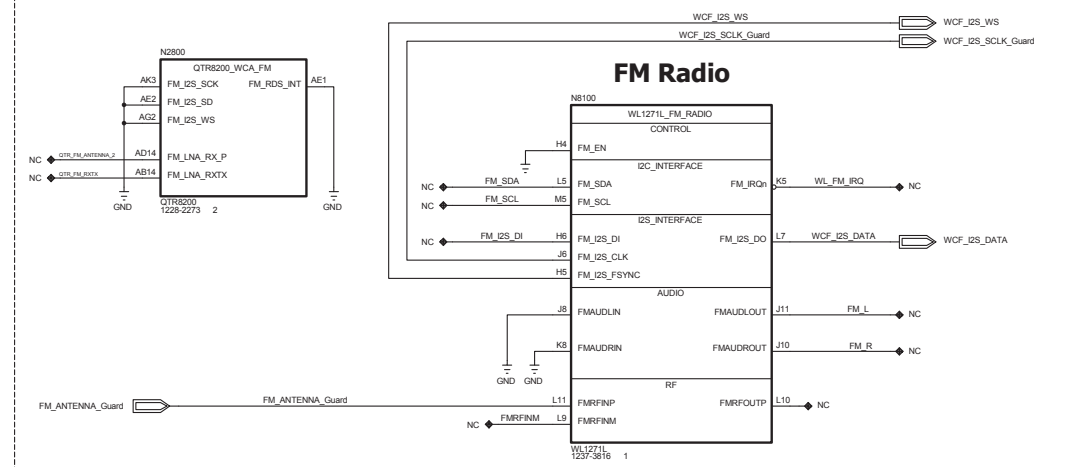


Product Specific

Antenna switch & GSM RX filter
-2800

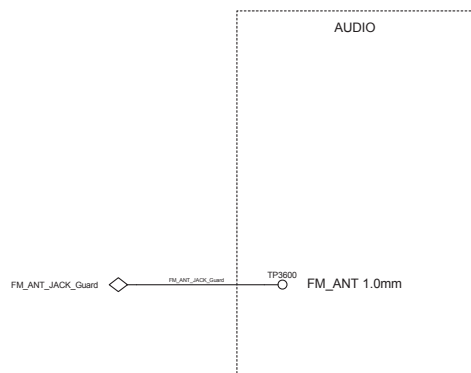






The diagram illustrates the interconnection between the N1500 module and the N2800 module. The N1500 module features a series of GPIOs (135, 136, 139, 103, 141, 140, 137, 134) and various pins (AE32, AE33, B30, E24, A29, A30, B29, AF31, AH27) connected to the N2800 module. The N2800 module includes components like QTR8200_WCA_BT, BT_CLK_PWR_REG, BT_EXT_WAKE, BT_HOST_WAKE, PCM_CLK, PCM_SYNC, PCM_IN, UART_RXD, UART_CTS, WLAN_ACTIVE, BT_ACTIVE, BT_PRIORITY, BT_RF_IOP, and BT_RF_IOM. The diagram shows connections for UART, PCM, and Bluetooth interfaces, including power and ground connections.

LZF 030 101/F RB1

[illegible]

The diagram shows a connection between two components, N1600. The first N1600 component has a pin labeled PMB058_VIB. This pin is connected to a pin labeled T1 on a second N1600 component. The second N1600 component has a pin labeled VIB_DRV_N. The connection is labeled VIB_DRV_N. The components are labeled N1600 and PMB058 1228-6567_2.

The diagram shows two main components, N1500 and N2800, connected via various signals. N1500 contains the MSM8255-0 block and several WCA_* blocks. N2800 contains the QTR8200_WCA_DIGITAL_AUDIO block and several AUD_* blocks. Connections are labeled with component names and signal names.

N1500 Internal Connections:

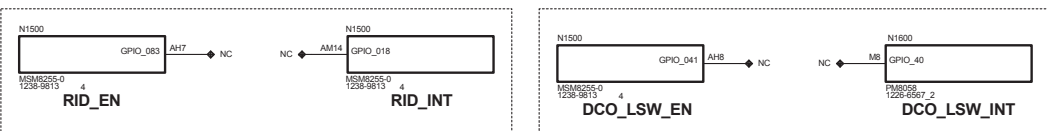
- MSM8255-0 to WCA_IF
- WCA_IF to WCA_MCLK1
- WCA_MCLK1 to WCA_MCLK2
- WCA_MCLK2 to WCA_TX_DS_CLK
- WCA_TX_DS_CLK to WCA_RX_DS_CLK
- WCA_RX_DS_CLK to WCA_TX_DS_DATA
- WCA_TX_DS_DATA to WCA_RX_DS_DATA
- WCA_RX_DS_DATA to WCA_TX_DS_WS
- WCA_TX_DS_WS to WCA_RX_DS_WS

N2800 Internal Connections:

- QTR8200_WCA_DIGITAL_AUDIO to AUD_MCLK1
- AUD_MCLK1 to AUD_MCLK2
- AUD_MCLK2 to AUD_RX_DS_SCK
- AUD_RX_DS_SCK to AUD_TX_DS_SCK
- AUD_TX_DS_SCK to AUD_RX_DS_SD
- AUD_RX_DS_SD to AUD_TX_DS_SD
- AUD_TX_DS_SD to AUD_RX_DS_WS
- AUD_RX_DS_WS to AUD_TX_DS_WS

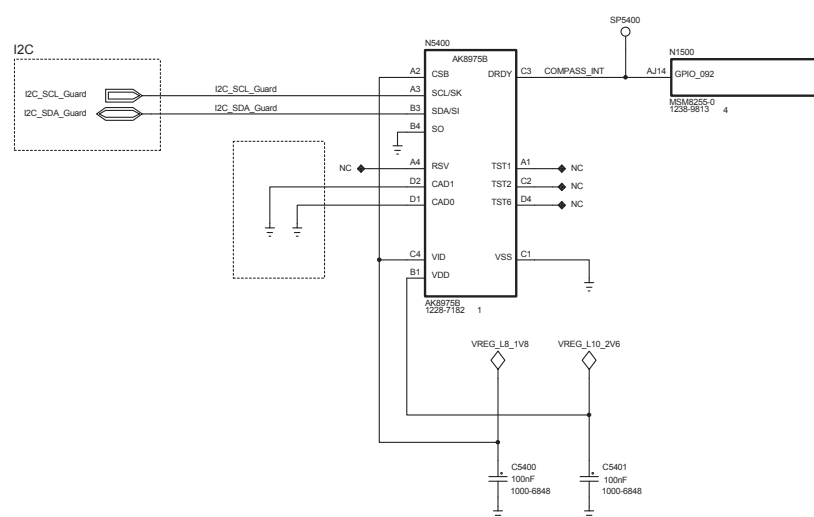
External Connections:

- AG31: WCA_TX_DS_CLK (N1500) to AG1 (N2800)
- AL32: WCA_TX_DS_DATA (N1500) to AF1 (N2800)
- AK31: WCA_TX_DS_WS (N1500) to AF2 (N2800)
- AL33: WCA_AUD_TX_DS_CLK (N1500) to AB2 (N2800)
- AG29: WCA_AUD_TX_DS_CLK (N1500) to AB4 (N2800)
- AH28: WCA_AUD_RX_DS_CLK (N1500) to AH28 (N2800)
- AH31: WCA_AUD_TX_DS_CLK (N1500) to AH31 (N2800)
- AH31: WCA_AUD_RX_DS_CLK (N1500) to AH1 (N2800)
- WCA_AUD_TX_DS_WS (N1500) to WCA_AUD_TX_DS_WS (N2800)
- WCA_AUD_TX_DS_DS (N1500) to WCA_AUD_TX_DS_DS (N2800)
- WCA_AUD_TX_DS_DS (N1500) to WCA_AUD_TX_DS_DS (N2800)

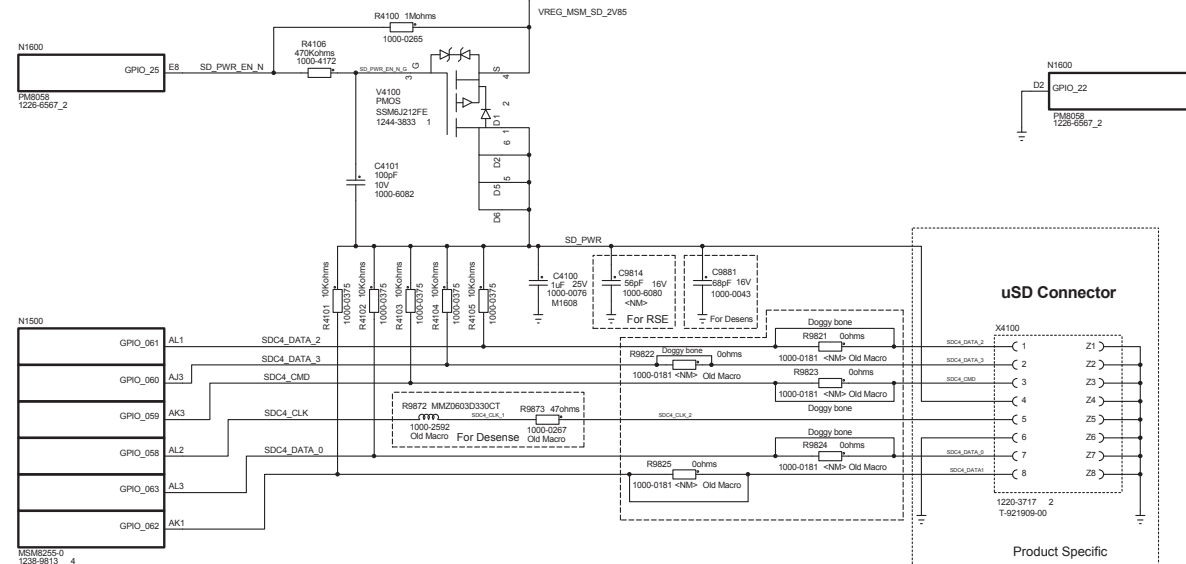


E-Compass - 5400

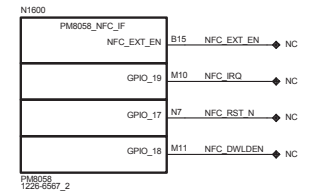
3-Axis Compass



uSD Connector - 4100



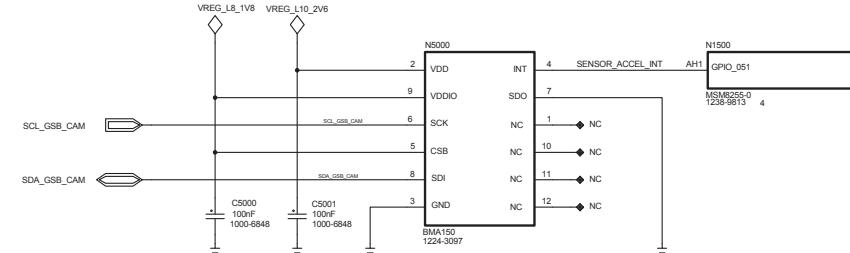
NFC Board - 8600



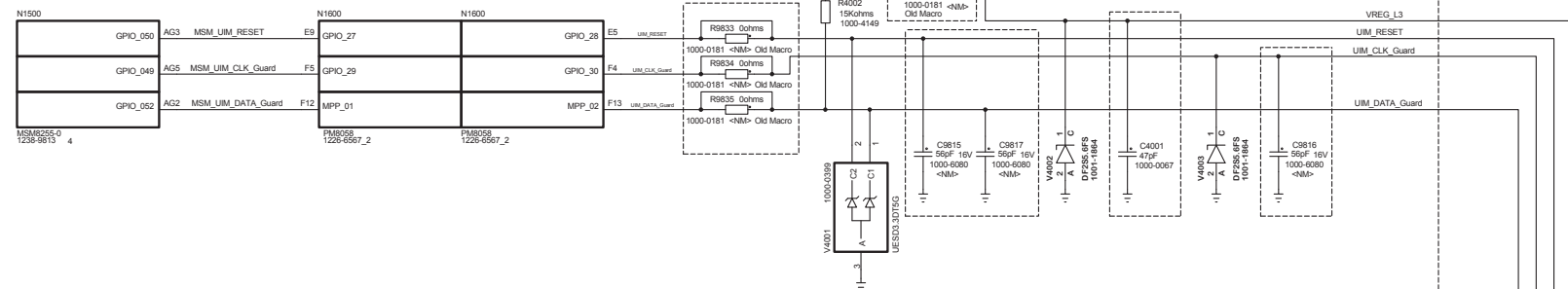
Product Specific

Accelerometer - 5000

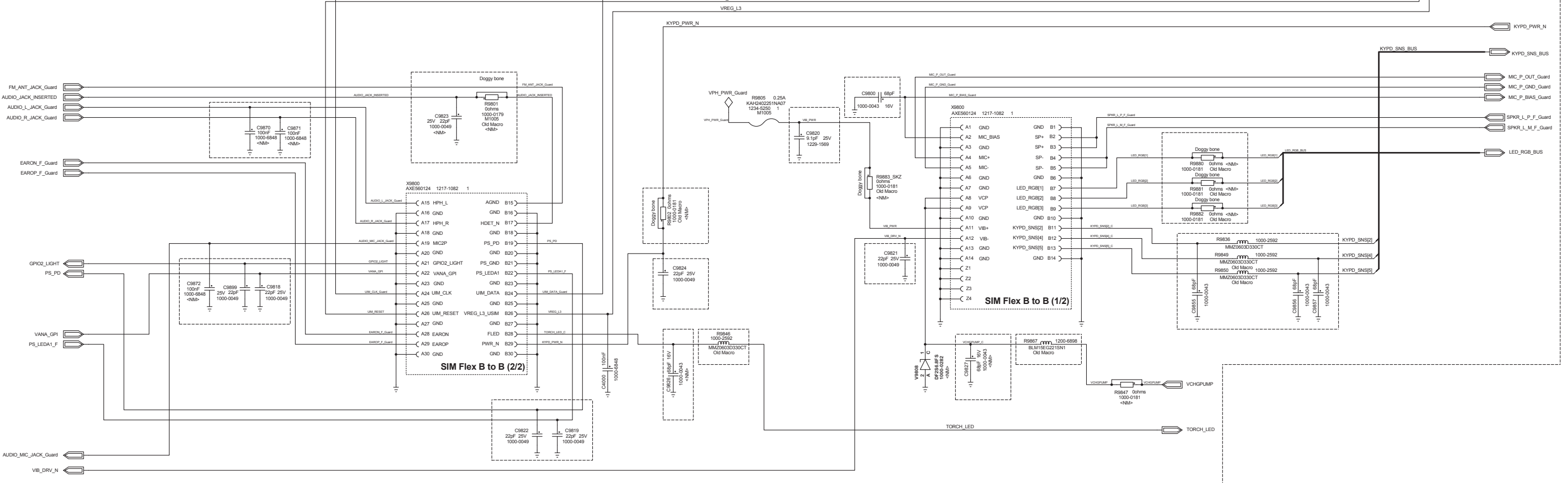
Accelerometer



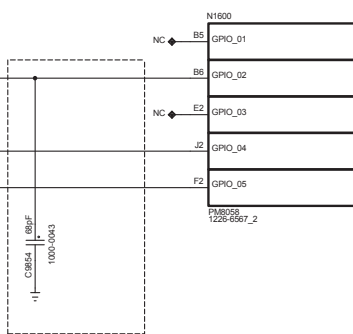
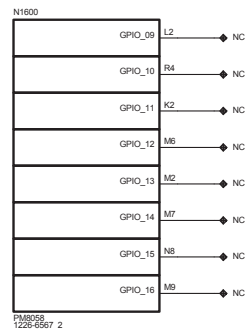
USIM - 4000



SIM Flex Connector - 9800



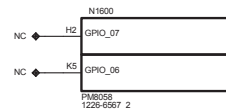
Keyboard - 5200



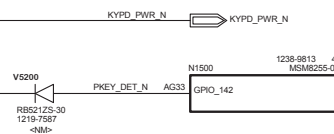
From P4_IO_Devices

KYPD_SNS_BUS

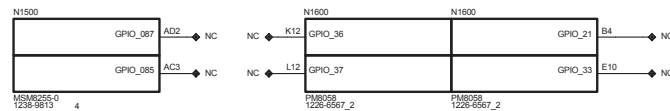
KYPD_SNS_BUS



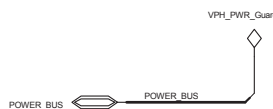
Product Specific

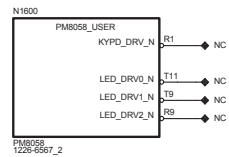


Detach Key I/F




Product Specific

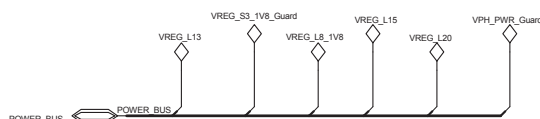
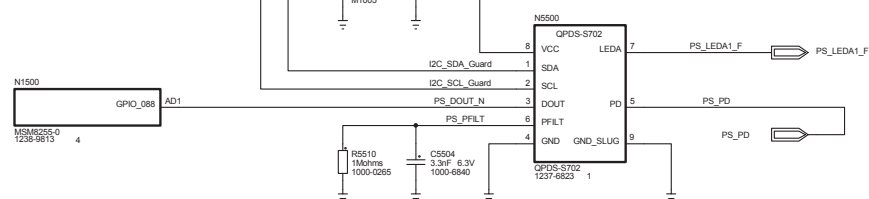
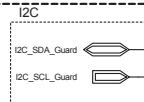




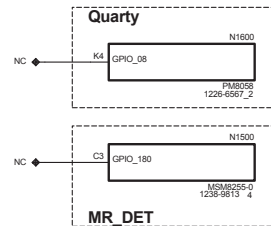
Product Specific



VANA_GPI

[illegible]

Pin 10 is labeled VCHG_PUMP. It is connected to a diamond symbol (representing a pump) and a trapezoidal symbol (representing a pump control). The text "Product Specific" is written below the pin label.

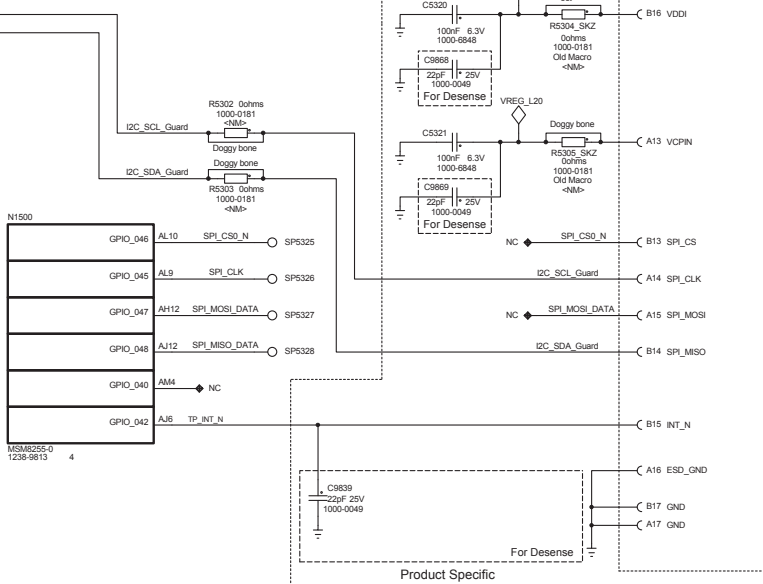


VREG_S3_1V8_Guard

X7002
1224-9689
AXE534124

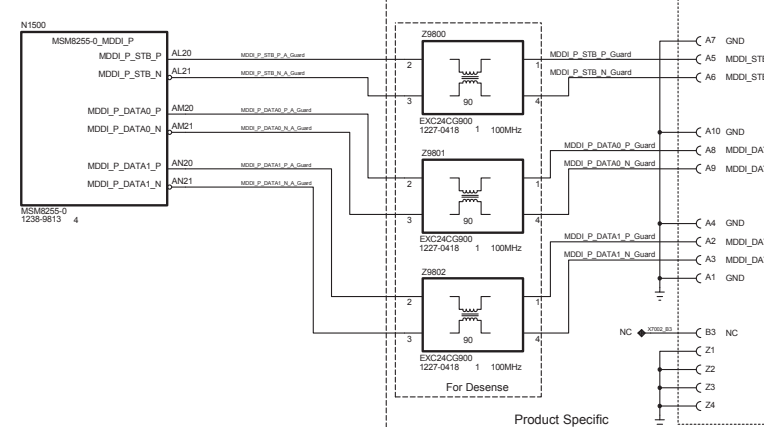
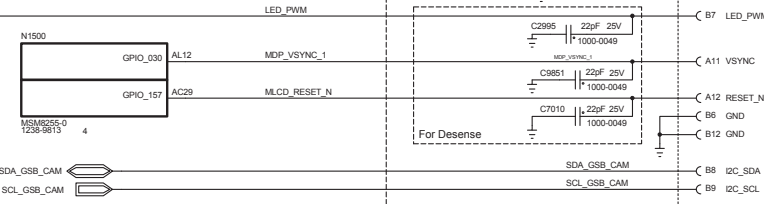
LCD&TP
Connector(2/2)

Doggy bone

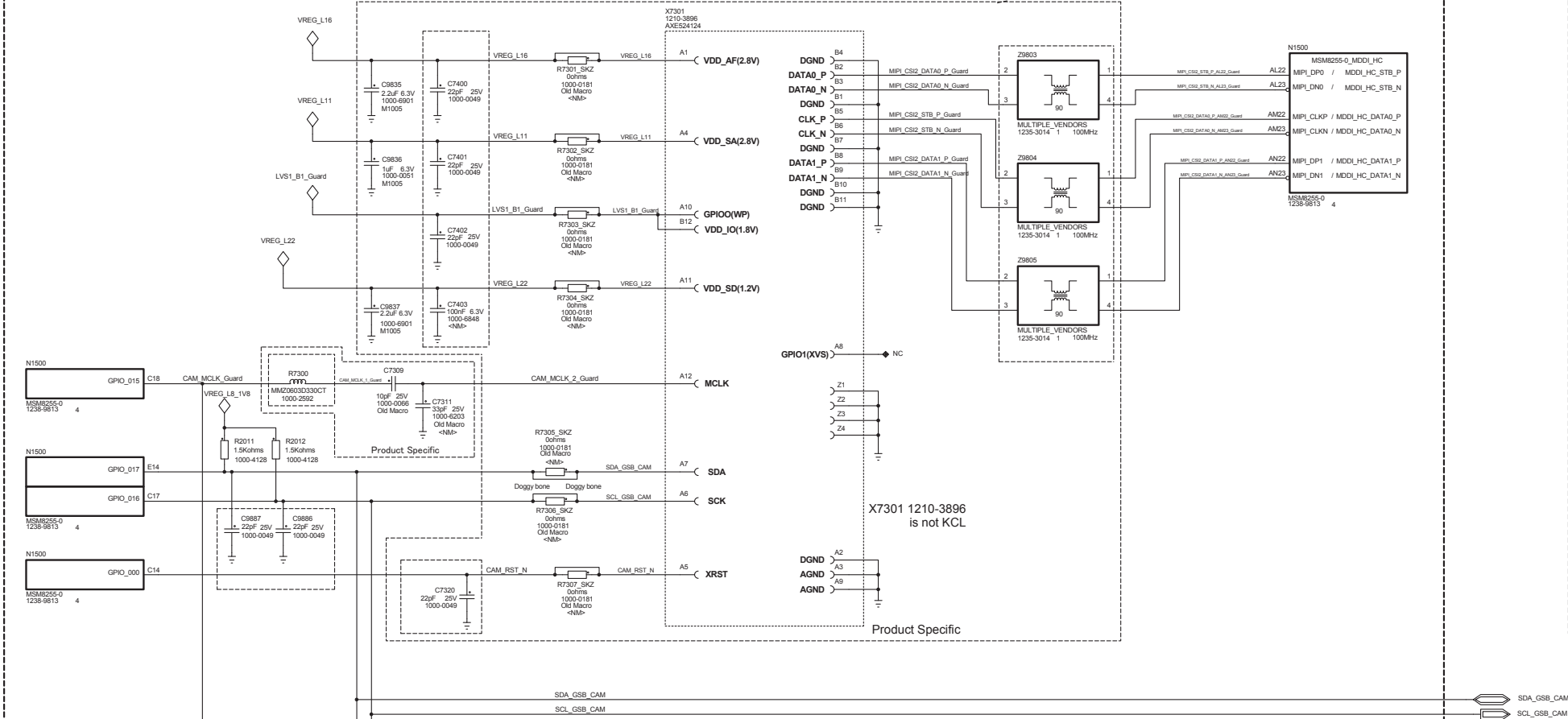


The diagram illustrates the electrical connections for the LCD & T&P Connector (1/2). Key components and connections include:

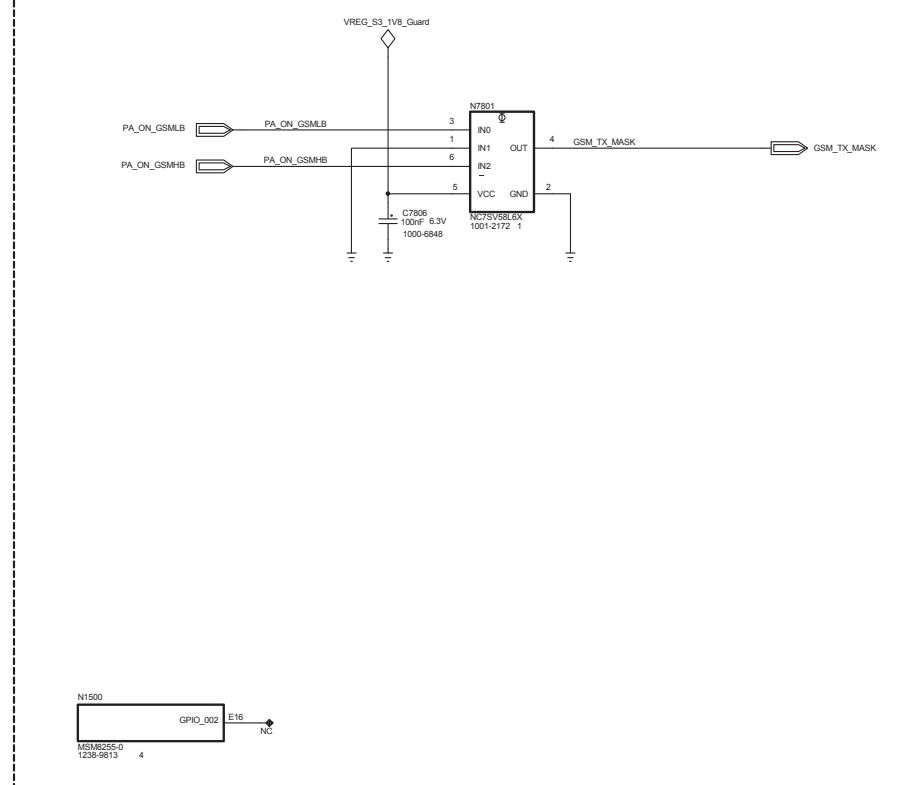
- VREG_L15** and **VREG_LB_1V8** input lines.
- VBOOST_LCM_BL** output line.
- R9870** (0ohms, 1000-D181 Old Macro >NIM<) and **R9871** (0ohms, 1000-D181 Old Macro >NIM<) resistors.
- Doggy bone** connection points.
- For Desense** section containing:
 - C0832** (220F 25V)
 - R9865** (100-0698)
 - BLM15G221SN** (1mH Old Macro)
 - 1000-0249** and **1000-0248** components.
- R9894** (0ohms, 1000-0179 Old Macro >NIM<), **X7002** (1234-9889), and **A0E334 124** components.
- LCM_BL_K_Guard** and **B2 LED_A** connections.
- B1 LED_K** connection.
- VREG_LB_1V8** and **VREG_L15** output lines.
- C7101** (1000F 6.3V) and **1000-6848** (Old Macro) components.
- B10 IOVDD** and **B11 IOVDD** connections.
- C7102** (1000F 6.3V) and **1000-6848** (Old Macro) components.
- B4 AVDD** and **B5 AVDD** connections.



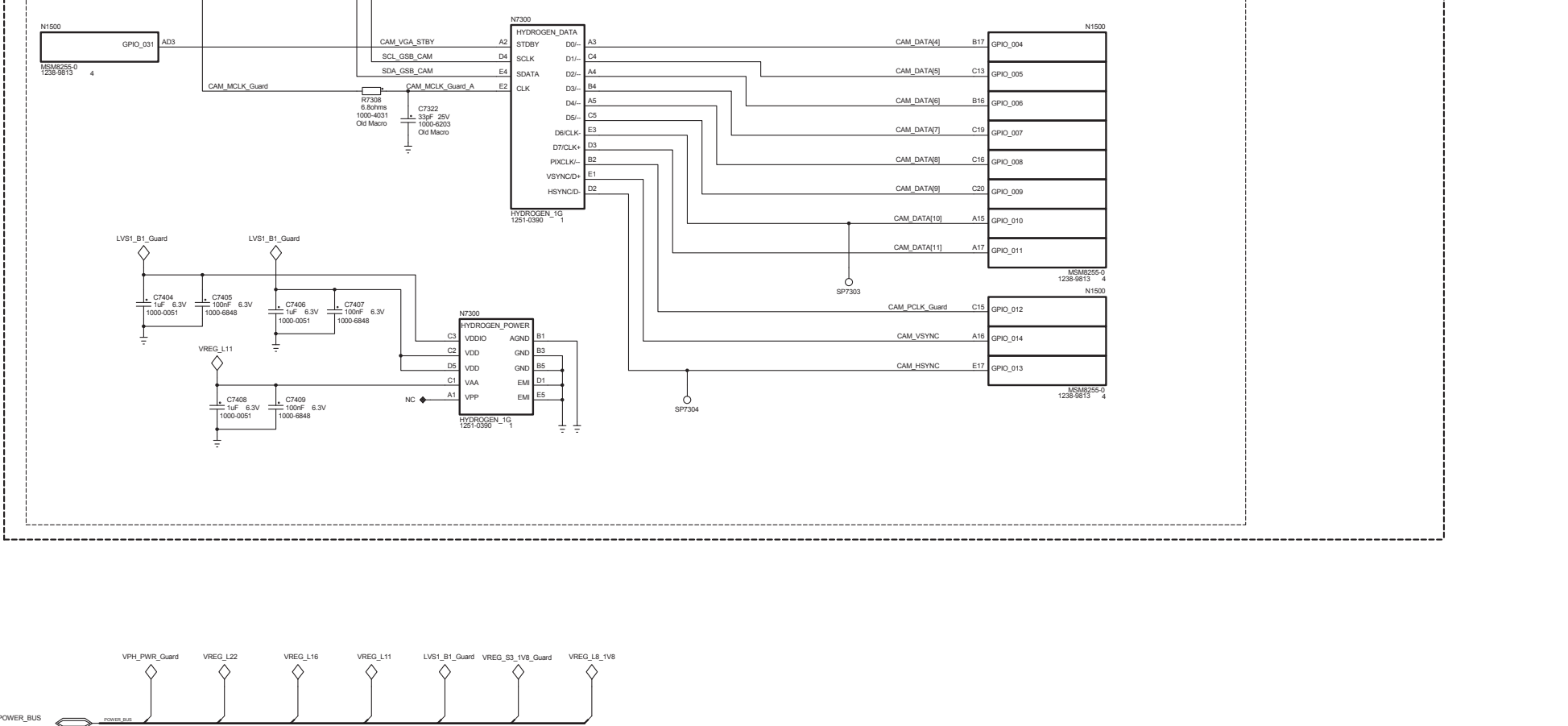
Main Camera - 7300



Flash LED Driver - 7800

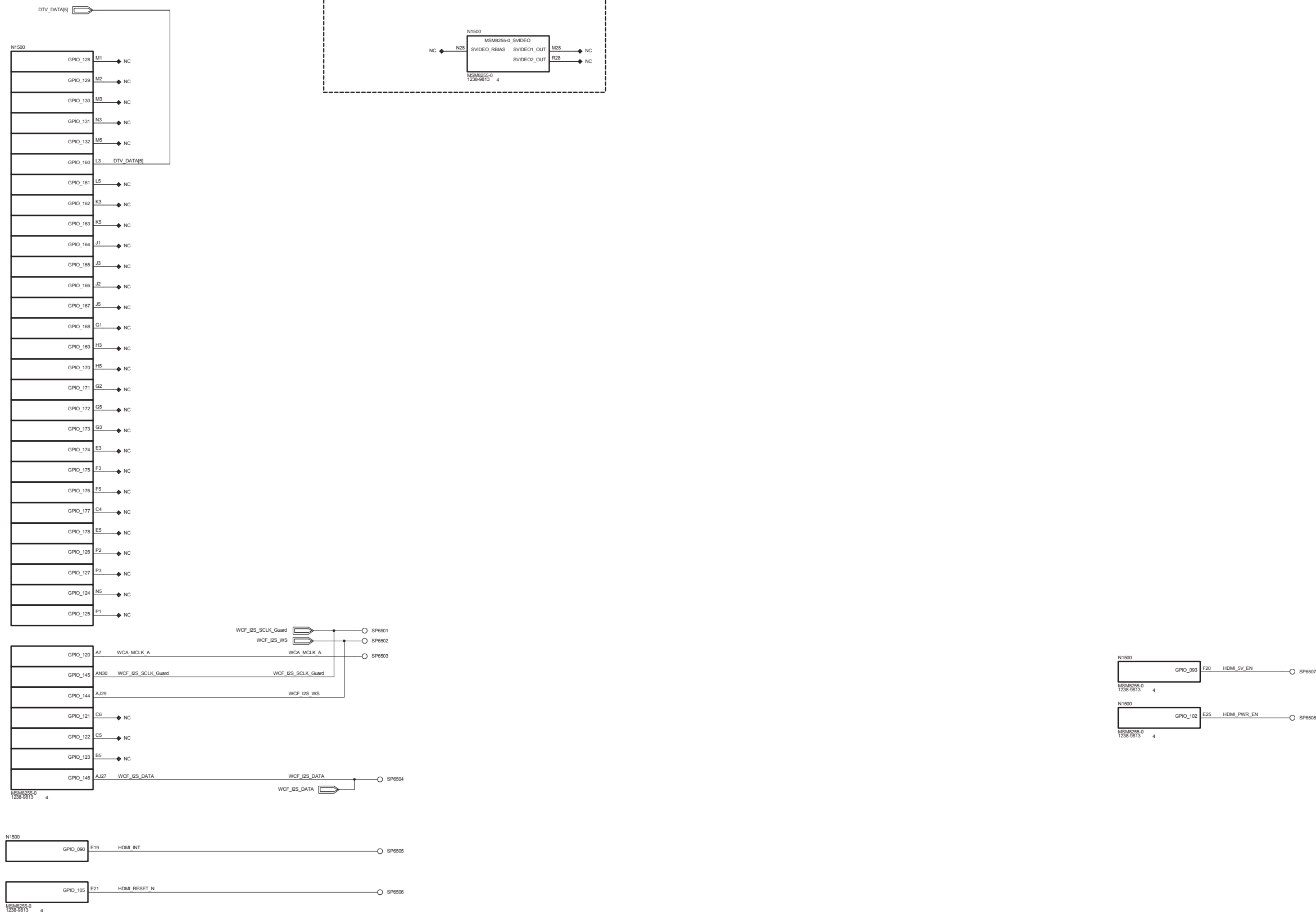


Sub Camera - 7300



HDMI - 6500

Analog TV_Out - 6400





Revision History

Rev.	Date	Changes / Comments
1	2011-Aug-15	Released