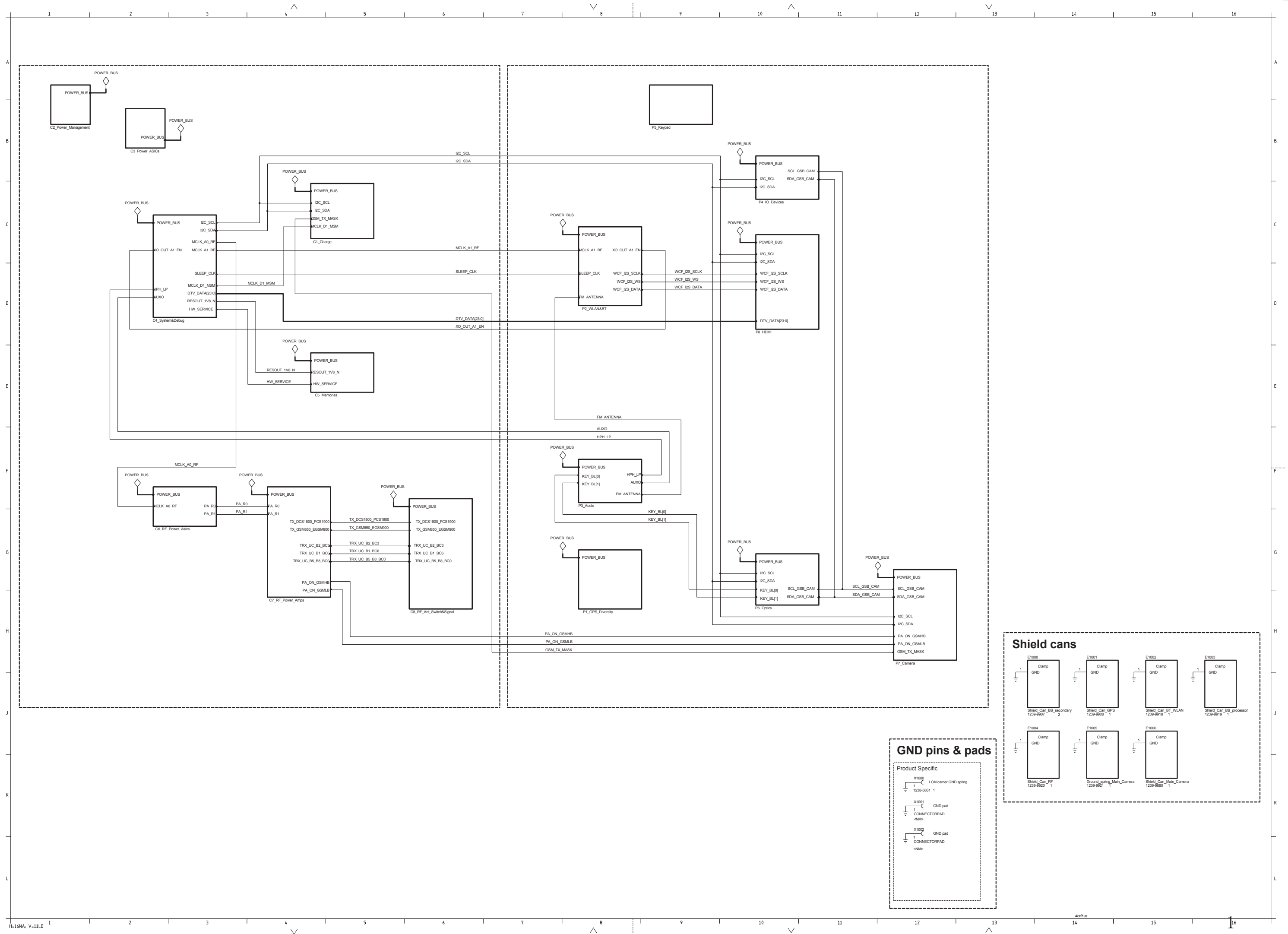




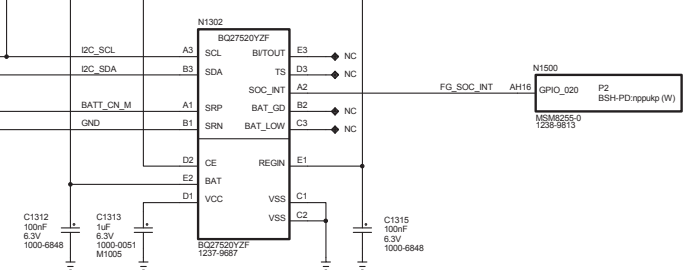
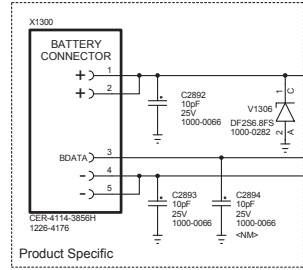
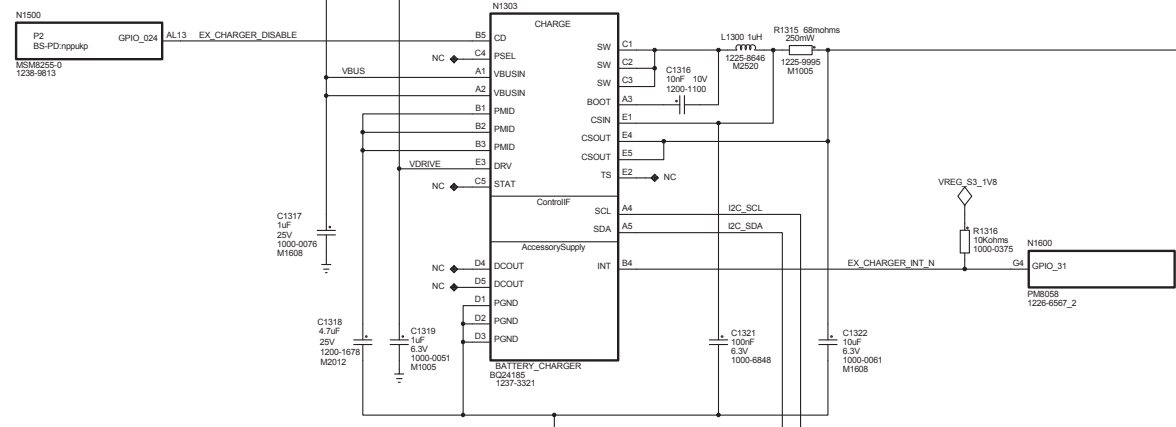
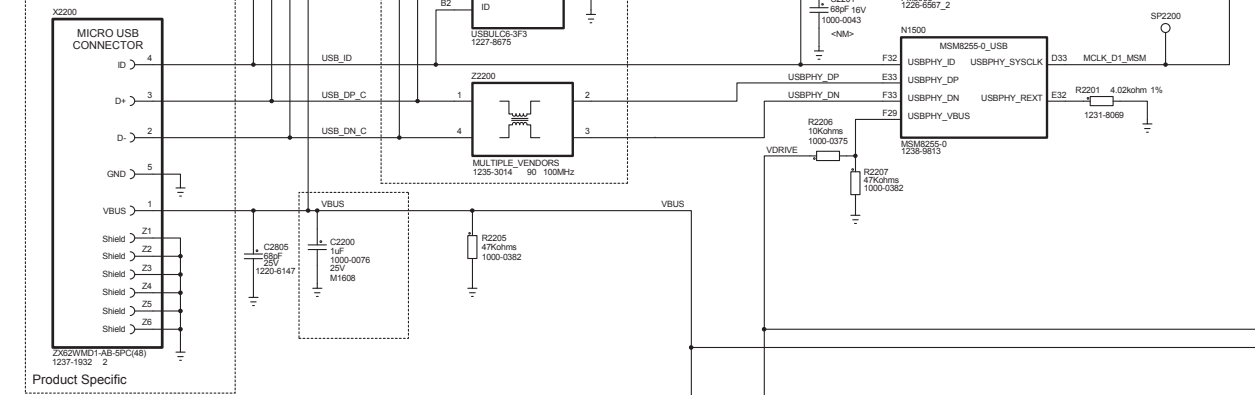
Schematics, Electrical

Applicable for Xperia™ MT11i, MT11a



USB TEST MATRIX

VBUS	TP2201	
D-	TP2202	
D+	TP2203	
ID	TP2204	
GND	TP2205	

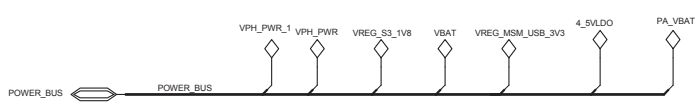
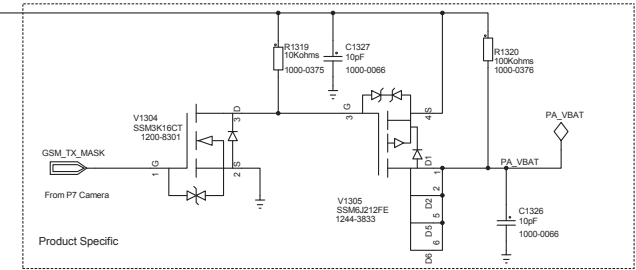
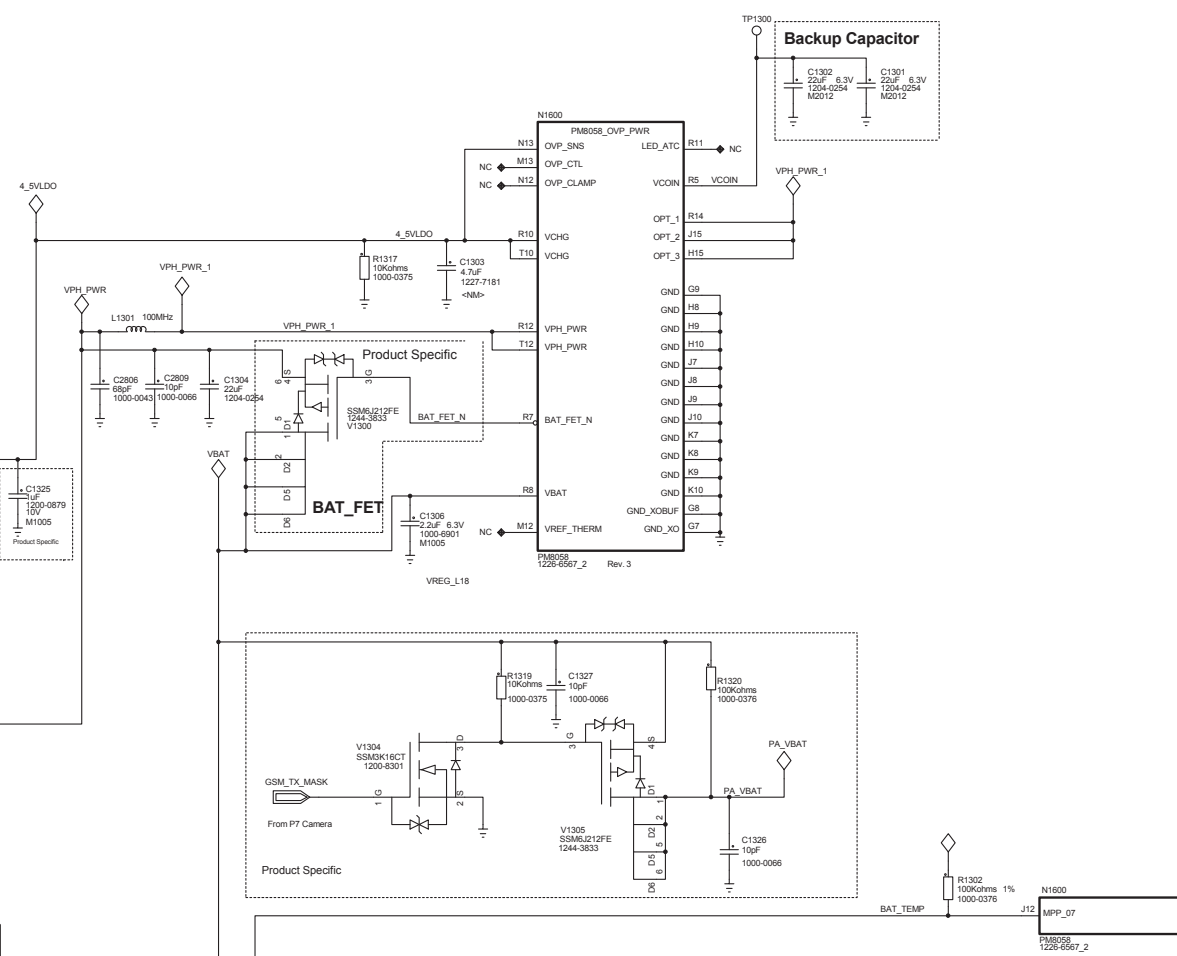


TP1300

Backup Capacitor

C1302 22µF 6.3V 10kΩ

C1301 22µF 6.3V 10kΩ

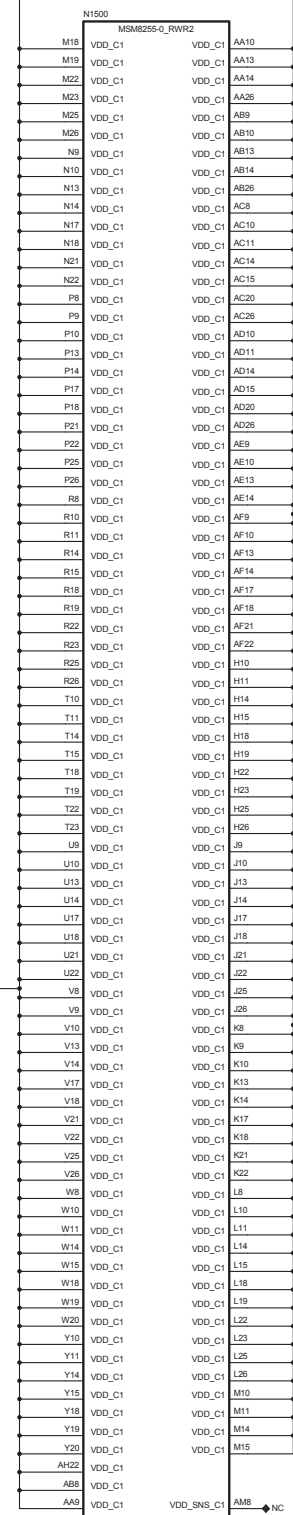


LZF 030 101/F R81

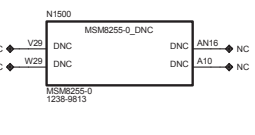
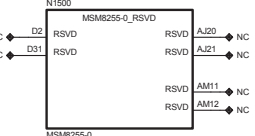
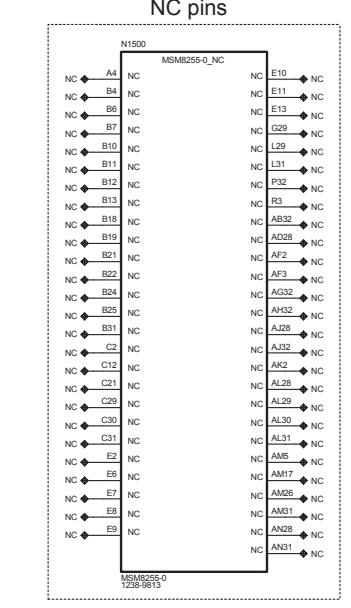
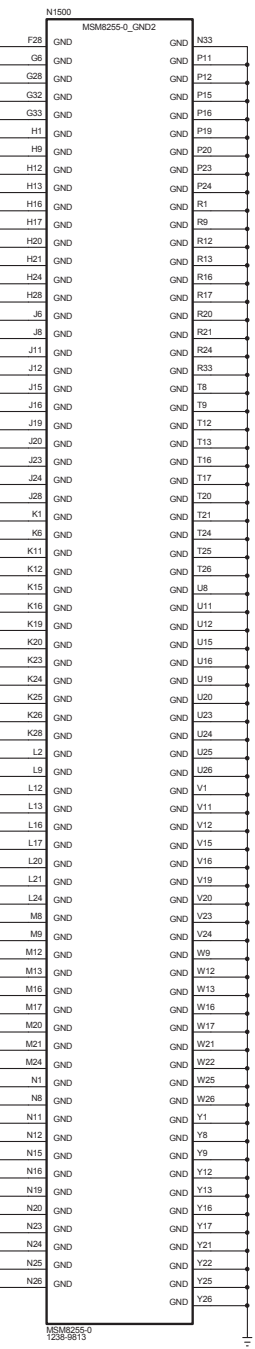
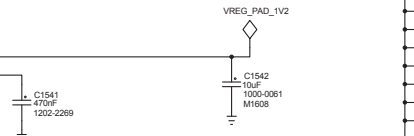
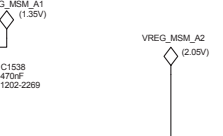
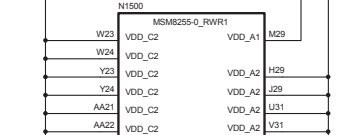
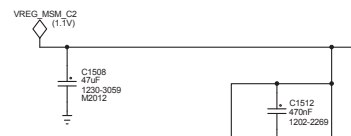
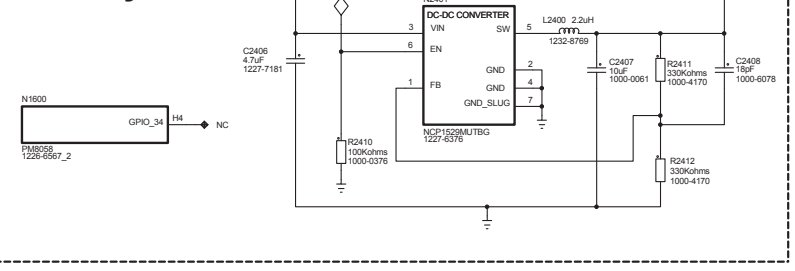


DB Decoupling - 1500

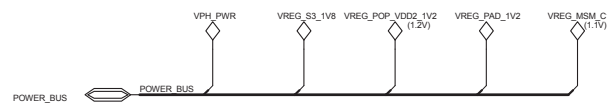
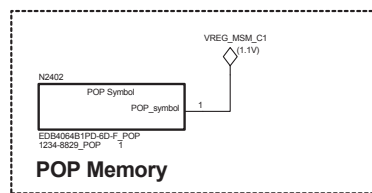
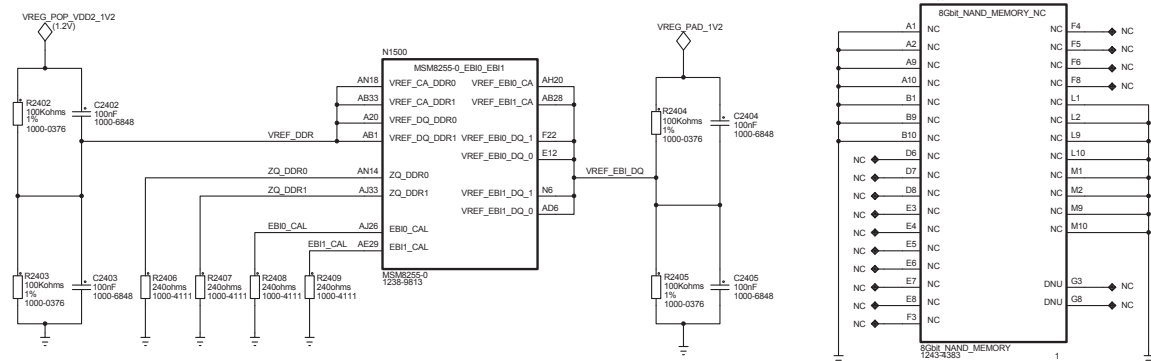
VREG_MSM_C1 (1.1V)



Memory - 2400



System Core - 2000

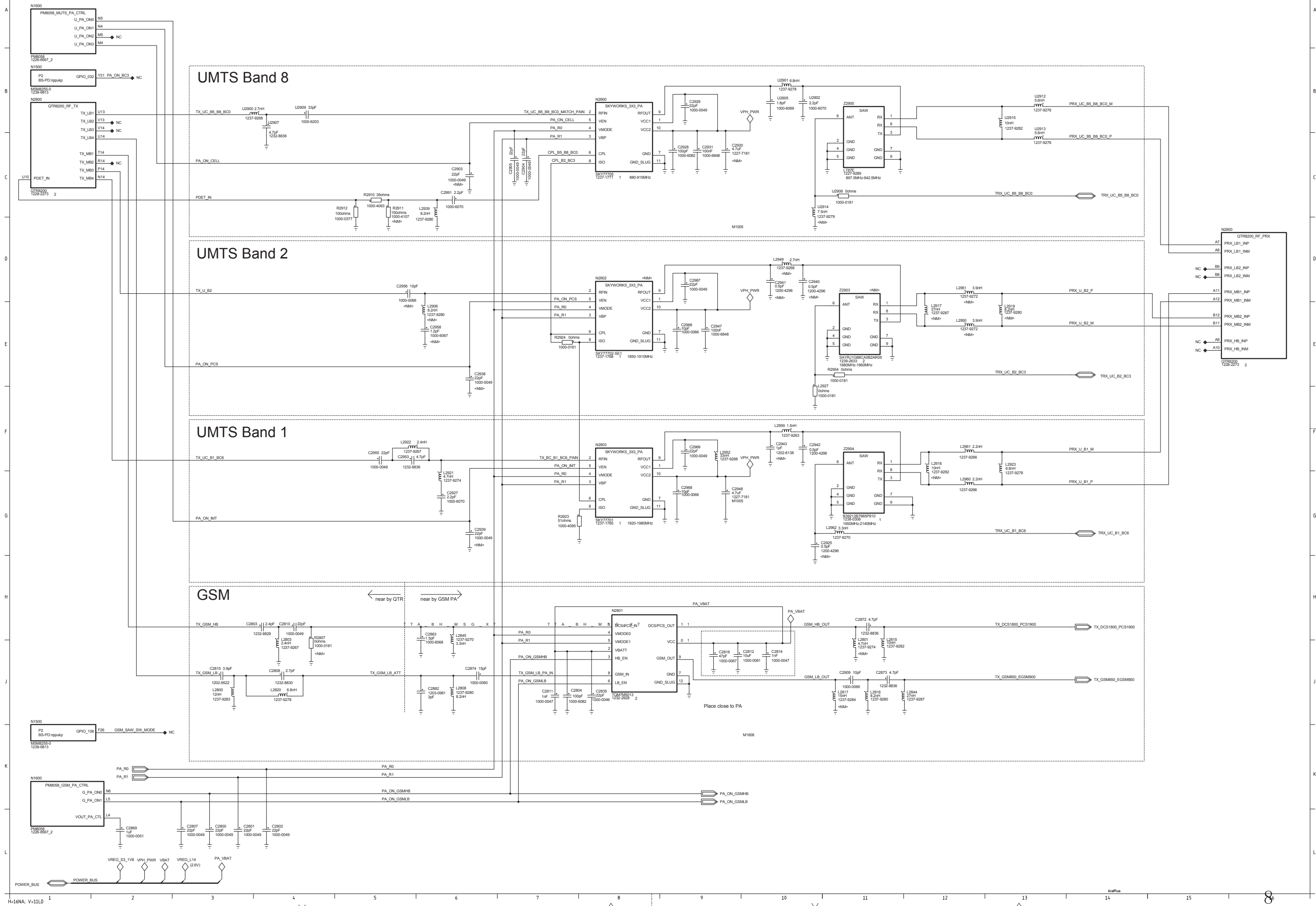


[illegible]

The diagram illustrates the interconnections between the N1500 and N2800 modules. Key components and connections include:

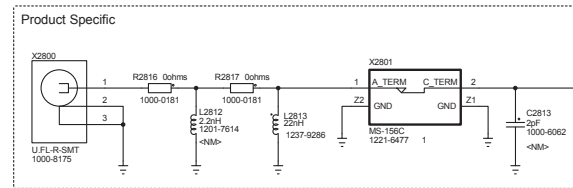
- N1500 Module:**
 - GPIOs:** P2 BS-PD.nppup (GPIO_152, 158, 159, 153, 156, 155, 154) connected to various pins (AB31, Y29, AD31, AD33, AC32, AD29, AD32).
 - MSM8255-0 1238-9813:** PA_DAC_REF, PA_DAC_OUT, PA_RANGE0, PA_RANGE1, PRX_CLK, TX_ON, TX_DAC_REF.
 - RF/IF Channels:** I_IM_CH0, I_IP_CH0, Q_IM_CH0, Q_IP_CH0, I_OUT_N, I_OUT_P, Q_OUT_N, Q_OUT_P.
 - Filters:** L2832, L2845, L2841, L2842 (100MHz).
- N2800 Module:**
 - OTR8200_RF_BBIF:** SSB1_RF2, SSB1_RF1, RF_ON, PA_R1, PA_R0, XO_QTR, GP_CLK, DAC_REF, GP_DATA0, GP_DATA1, GP_DATA2, PRX_BB_IP, PRX_BB_IM, PRX_BB_QP, PRX_BB_QM, TX_BB_IP, TX_BB_IM, TX_BB_QP, TX_BB_QM, GNSS_DRX_CLK, GNSS_BB_Q1, GNSS_BB_Q2, GNSS_BB_I1, GNSS_BB_I2, GNSS_BB_O1, GNSS_BB_O2, (DRX_BB_IP), (DRX_BB_IM), (DRX_BB_QP), (DRX_BB_QM).
 - Other Pins:** M1, M2, N1, V8, V7, N5, W4, W5, W6, T2, T1, T3, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33, J34, J35, J36, J37, J38, J39, J40, J41, J42, J43, J44, J45, J46, J47, J48, J49, J50, J51, J52, J53, J54, J55, J56, J57, J58, J59, J60, J61, J62, J63, J64, J65, J66, J67, J68, J69, J70, J71, J72, J73, J74, J75, J76, J77, J78, J79, J80, J81, J82, J83, J84, J85, J86, J87, J88, J89, J90, J91, J92, J93, J94, J95, J96, J97, J98, J99, J100, J101, J102, J103, J104, J105, J106, J107, J108, J109, J110, J111, J112, J113, J114, J115, J116, J117, J118, J119, J120, J121, J122, J123, J124, J125, J126, J127, J128, J129, J130, J131, J132, J133, J134, J135, J136, J137, J138, J139, J140, J141, J142, J143, J144, J145, J146, J147, J148, J149, J150, J151, J152, J153, J154, J155, J156, J157, J158, J159, J160, J161, J162, J163, J164, J165, J166, J167, J168, J169, J170, J171, J172, J173, J174, J175, J176, J177, J178, J179, J180, J181, J182, J183, J184, J185, J186, J187, J188, J189, J190, J191, J192, J193, J194, J195, J196, J197, J198, J199, J200, J201, J202, J203, J204, J205, J206, J207, J208, J209, J210, J211, J212, J213, J214, J215, J216, J217, J218, J219, J220, J221, J222, J223, J224, J225, J226, J227, J228, J229, J230, J231, J232, J233, J234, J235, J236, J237, J238, J239, J240, J241, J242, J243, J244, J245, J246, J247, J248, J249, J250, J251, J252, J253, J254, J255, J256, J257, J258, J259, J260, J261, J262, J263, J264, J265, J266, J267, J268, J269, J270, J271, J272, J273, J274, J275, J276, J277, J278, J279, J280, J281, J282, J283, J284, J285, J286, J287, J288, J289, J290, J291, J292, J293, J294, J295, J296, J297, J298, J299, J300, J301, J302, J303, J304, J305, J306, J307, J308, J309, J310, J311, J312, J313, J314, J315, J316, J317, J318, J319, J320, J321, J322, J323, J324, J325, J326, J327, J328, J329, J330, J331, J332, J333, J334, J335, J336, J337, J338, J339, J340, J341, J342, J343, J344, J345, J346, J347, J348, J349, J350, J351, J352, J353, J354, J355, J356, J357, J358, J359, J360, J361, J362, J363, J364, J365, J366, J367, J368, J369, J370, J371, J372, J373, J374, J375, J376, J377, J378, J379, J380, J381, J382, J383, J384, J385, J386, J387, J388, J389, J390, J391, J392, J393, J394, J395, J396, J397, J398, J399, J400, J401, J402, J403, J404, J405, J406, J407, J408, J409, J410, J411, J412, J413, J414, J415, J416, J417, J418, J419, J420, J421, J422, J423, J424, J425, J426, J427, J428, J429, J430, J431, J432, J433, J434, J435, J436, J437, J438, J439, J440, J441, J442, J443, J444, J445, J446, J447, J448, J449, J450, J451, J452, J453, J454, J455, J456, J457, J458, J459, J460, J461, J462, J463, J464, J465, J466, J467, J468, J469, J470, J471, J472, J473, J474, J475, J476, J477, J478, J479, J480, J481, J482, J483, J484, J485, J486, J487, J488, J489, J490, J491, J492, J493, J494, J495, J496, J497, J498, J499, J500, J501, J502, J503, J504, J505, J506, J507, J508, J509, J510, J511, J512, J513, J514, J515, J516, J517, J518, J519, J520, J521, J522, J523, J524, J525, J526, J527, J528, J529, J530, J531, J532, J533, J534, J535, J536, J537, J538, J539, J540, J541, J542, J543, J544, J545, J546, J547, J548, J549, J550, J551, J552, J553, J554, J555, J556, J557, J558, J559, J560, J561, J562, J563, J564, J565, J566, J567, J568, J569, J570, J571, J572, J573, J574, J575, J576, J577, J578, J579, J580, J581, J582, J583, J584, J585, J586, J587, J588, J589, J590, J591, J592, J593, J594, J595, J596, J597, J598, J599, J600, J601, J602, J603, J604, J605, J606, J607, J608, J609, J610, J611, J612, J613, J614, J615, J616, J617, J618, J619, J620, J621, J622, J623, J624, J625, J626, J627, J628, J629, J630, J631, J632, J633, J634, J635, J636, J637, J638, J639, J640, J641, J642, J643, J644, J645, J646, J647, J648, J649, J650, J651, J652, J653, J654, J655, J656, J657, J658, J659, J660, J661, J662, J663, J664, J665, J666, J667, J668, J669, J670, J671, J672, J673, J674, J675, J676, J677, J678, J679, J680, J681, J682, J683, J684, J685, J686, J687, J688, J689, J690, J691, J692, J693, J694, J695, J696, J697, J698, J699, J700, J701, J702, J703, J704, J705, J706, J707, J708, J709, J710, J711, J712, J713, J714, J715, J716, J717, J718, J719, J720, J721, J722, J723, J724, J725, J726, J727, J728, J7

UMTS-radio - 2900

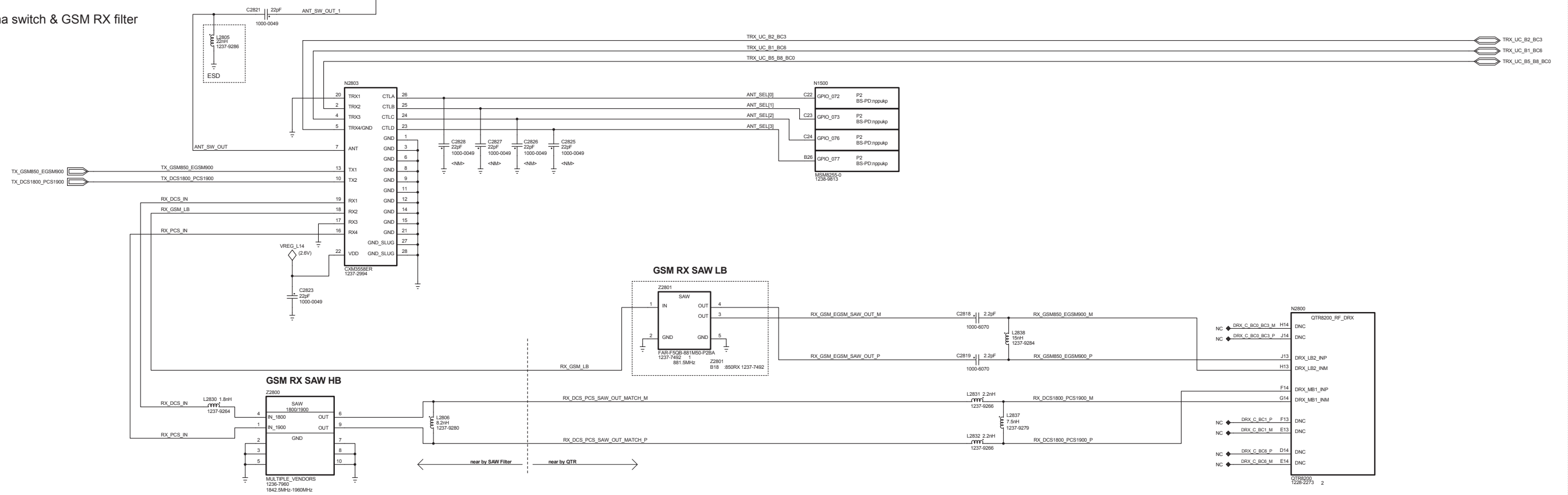


GSM/EDGE/Common - 2800

Antenna matching



Antenna switch & GSM RX filter

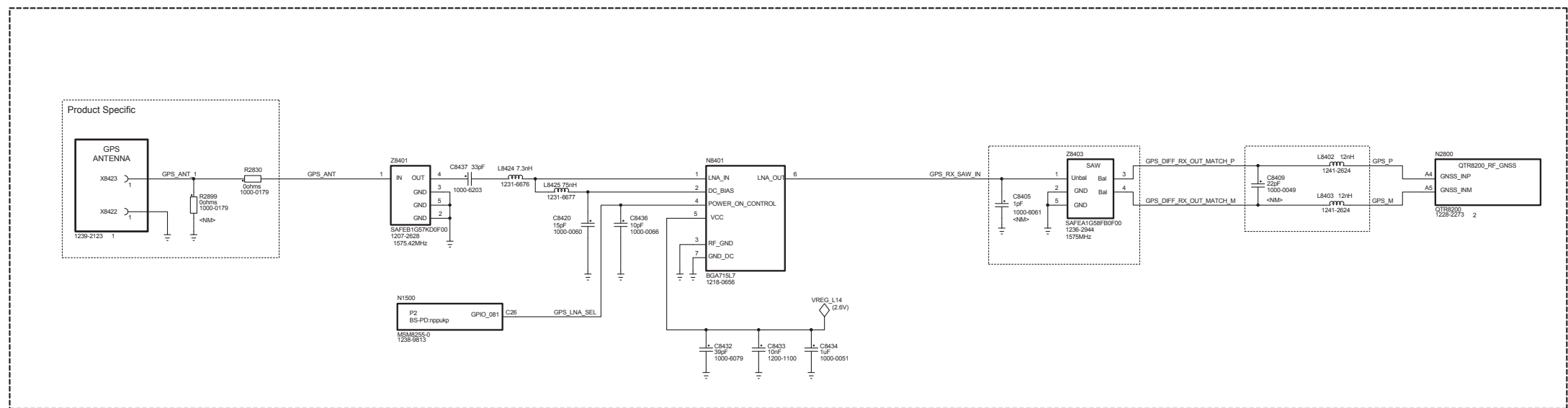


VREG_L14
(2.6V)

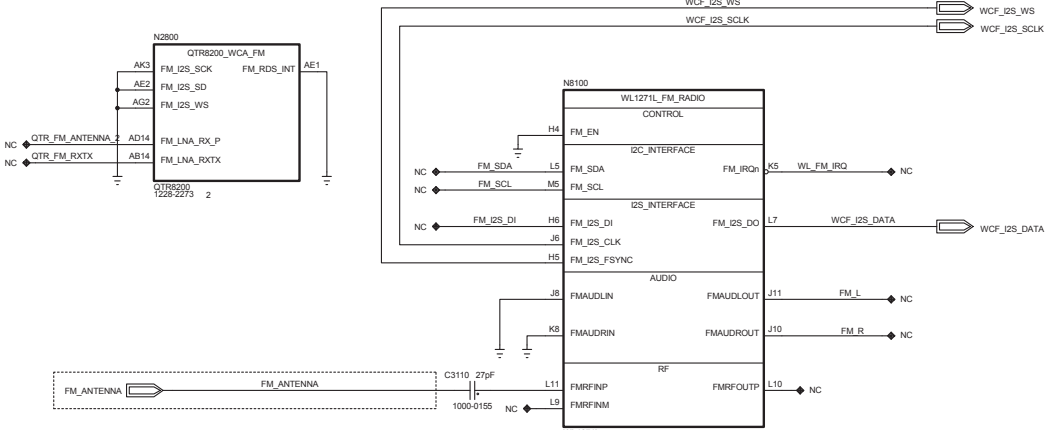
POWER_BUS  POWER_BUS

AcePlus

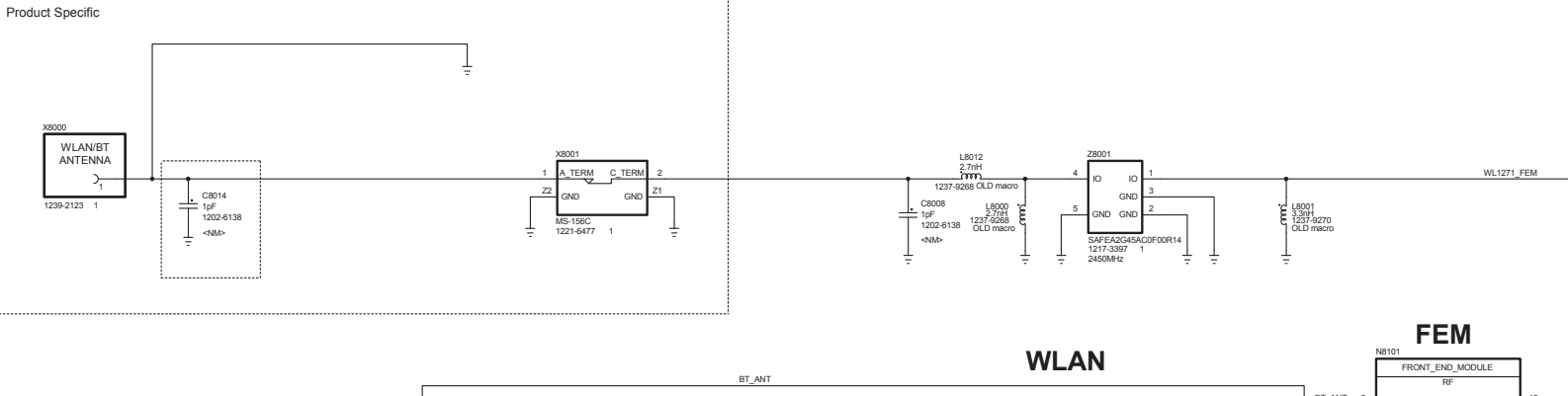
GPS - 8400



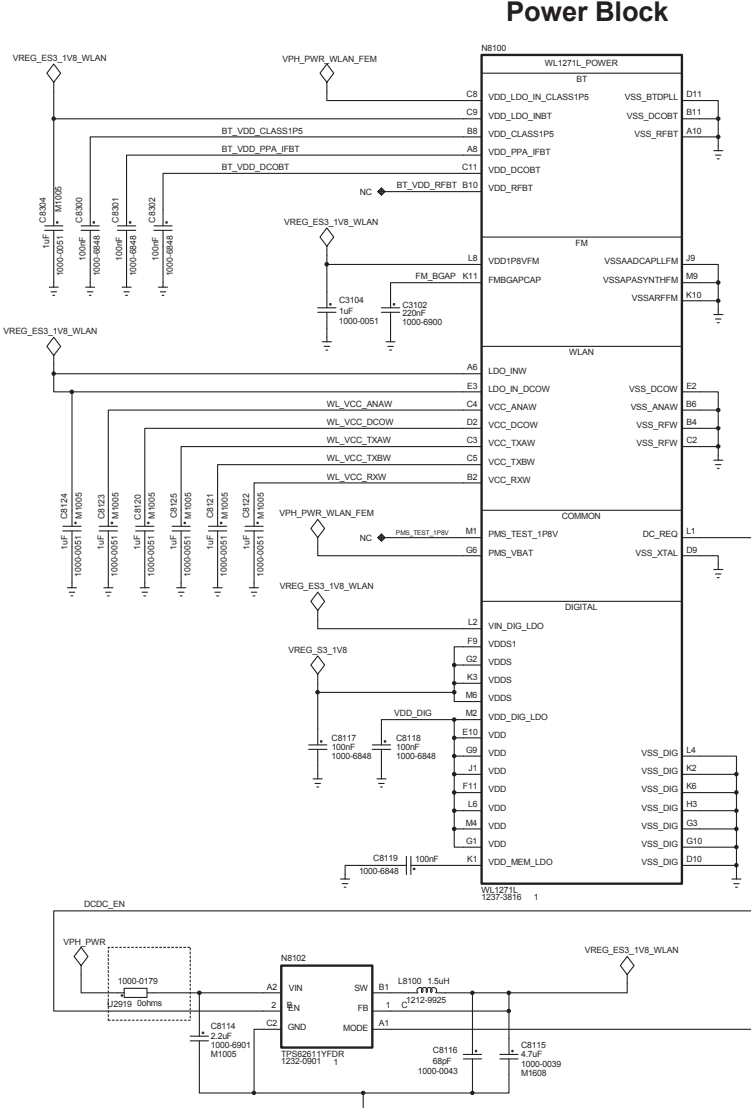
FM Radio - 3100



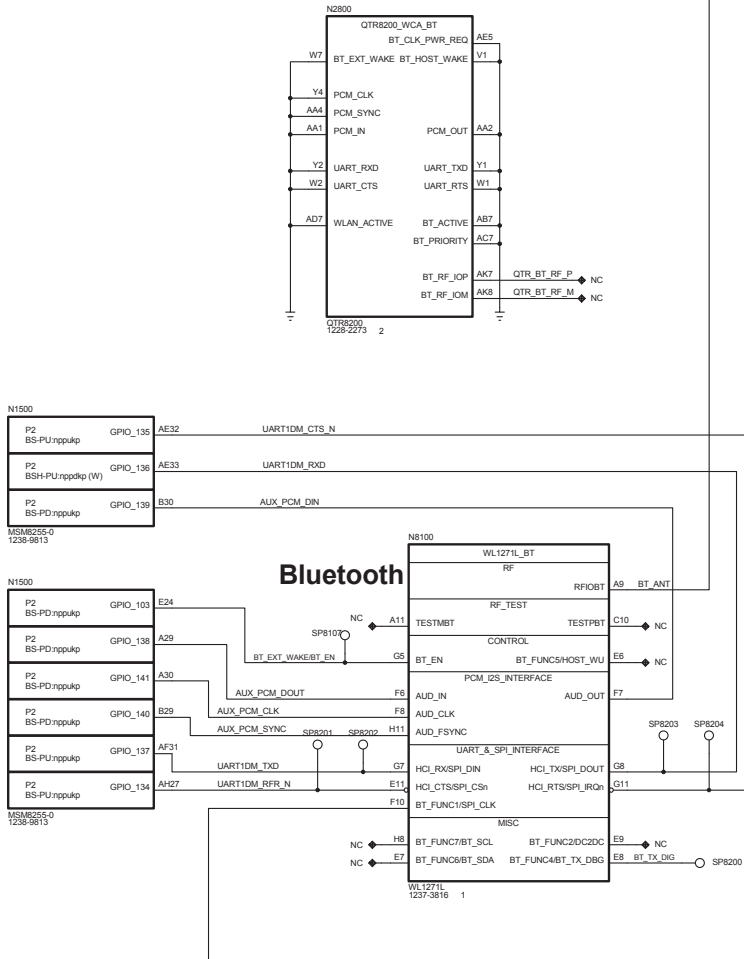
WLAN Radio - 8000



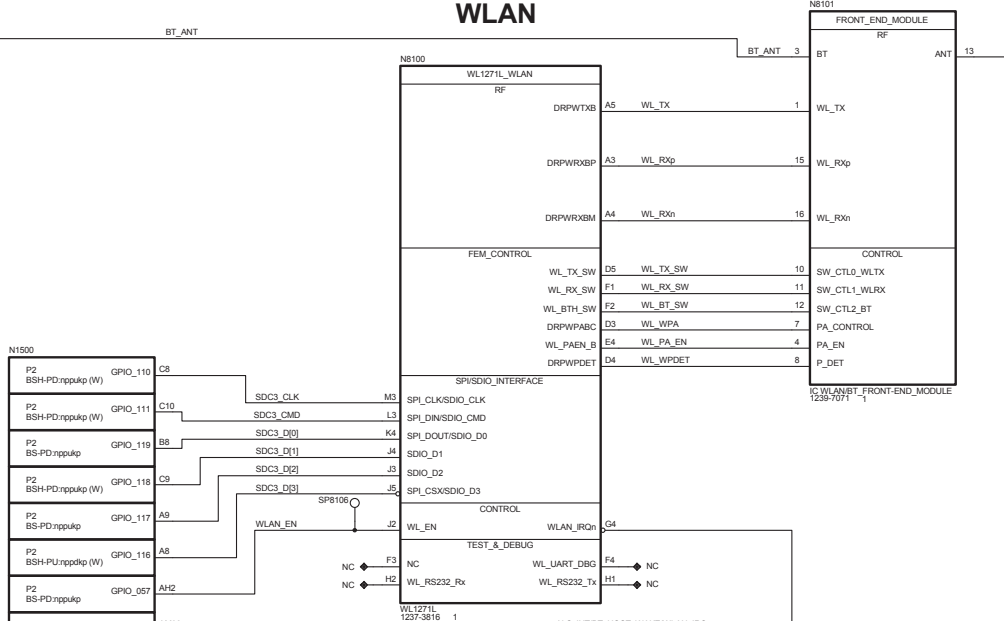
WLAN/BT/FM power
- 8100/8300/3100



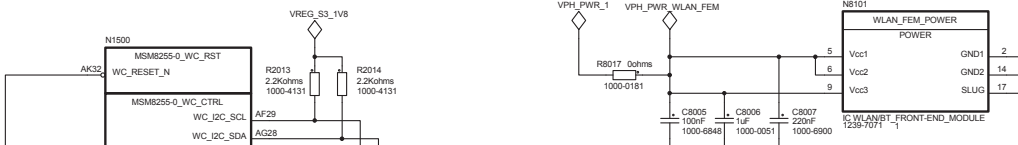
BT Radio - 8200



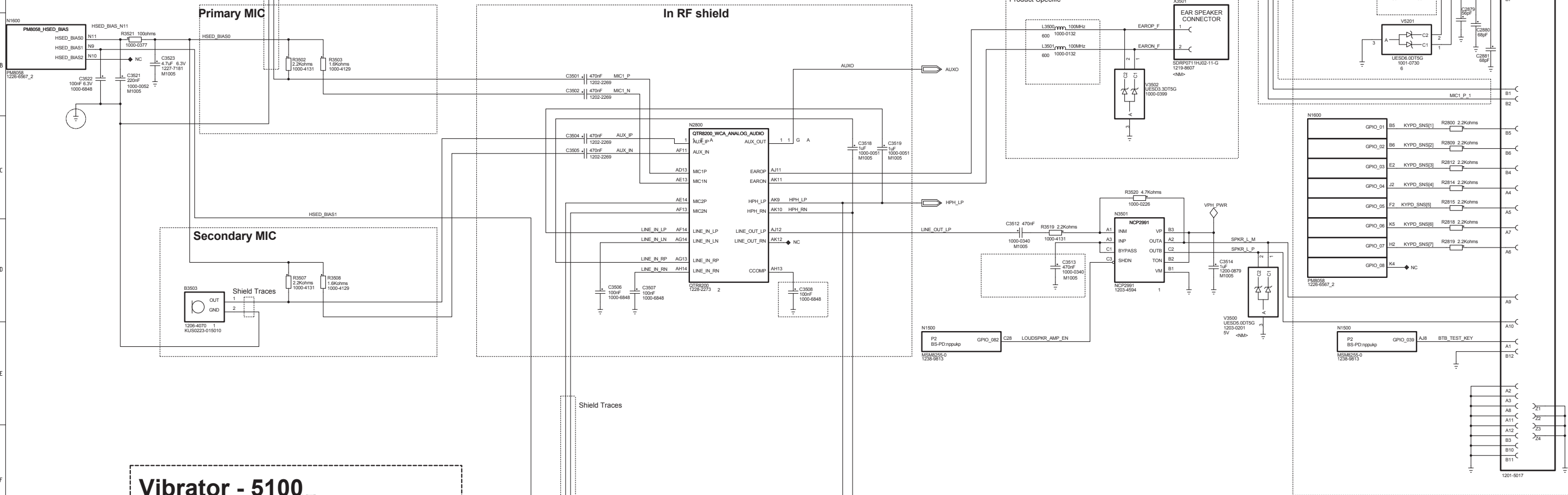
WLAN



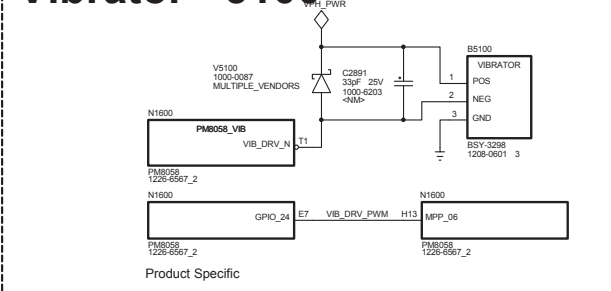
FFM Power



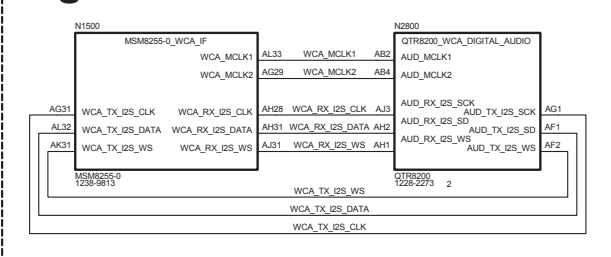
Analog Audio - 3500



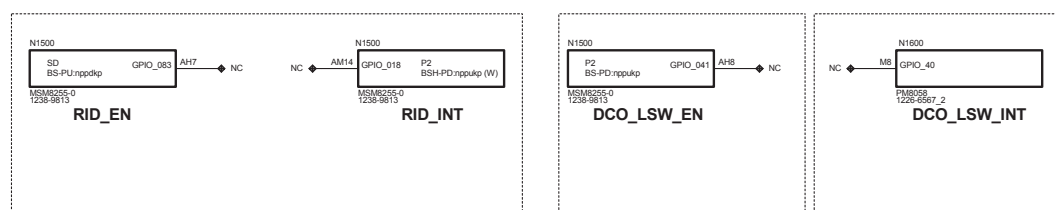
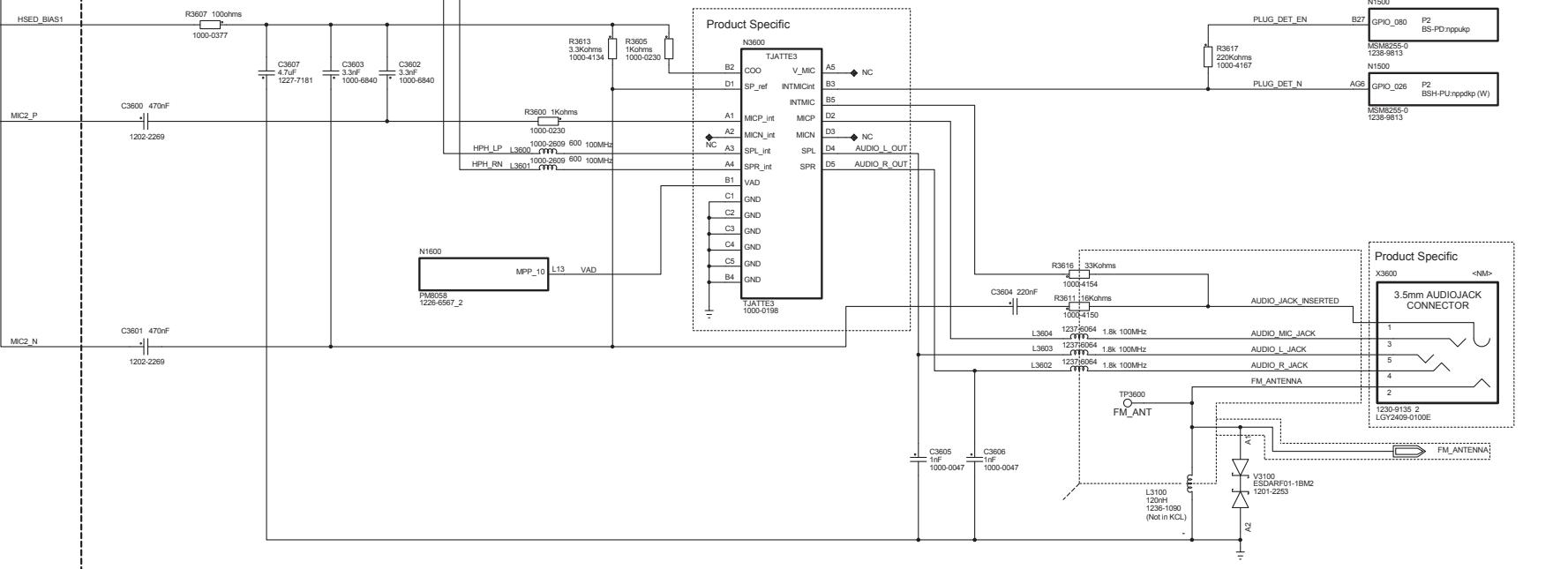
Vibrator - 5100



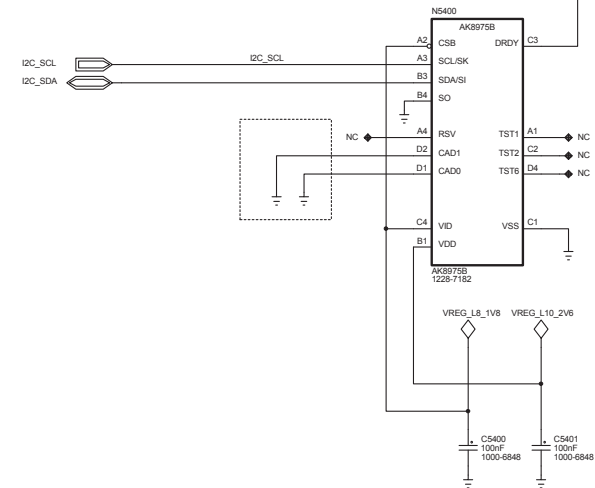
Digital Audio - 3000



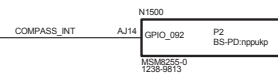
SE-PORT - 3600



E-Compass - 5400



Product Specific



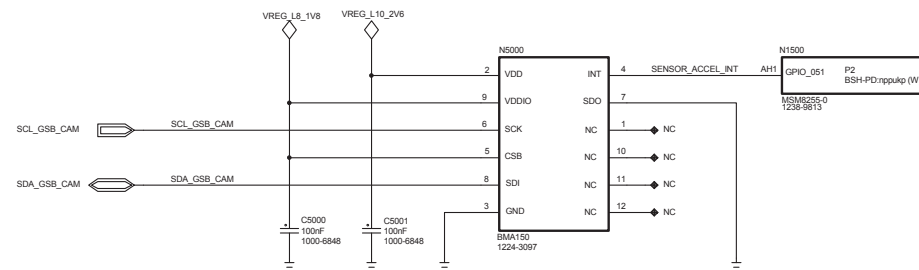
eMMC - 4200

Product Specific

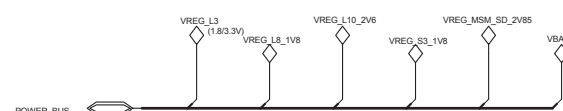
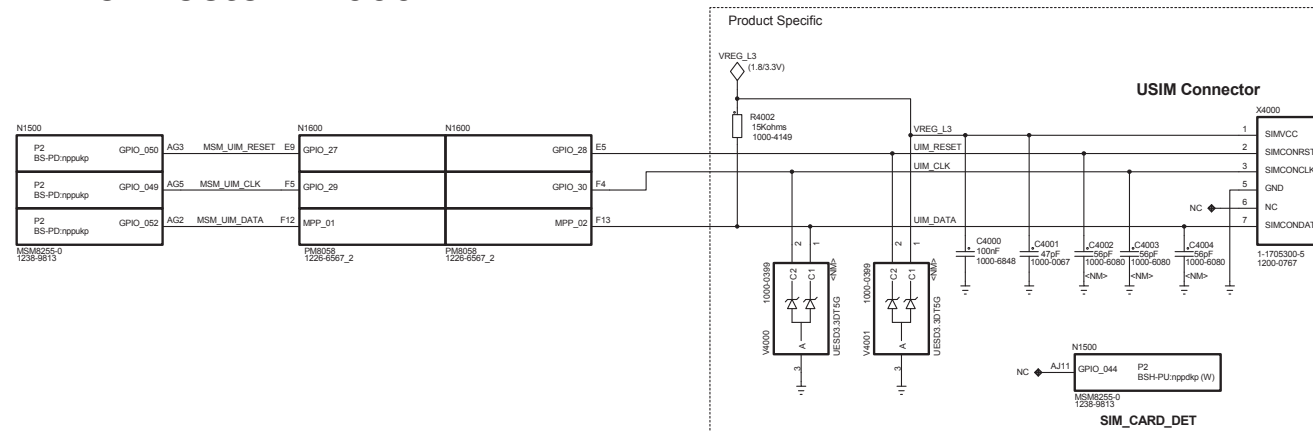
P2 BS-PD/nppulp	GPIO_064	AL8	SDC2_CLK	➔
P2 BS-PD/nppulp	GPIO_065	AH10	SDC2_CMD	➔
P2 BSH-PD/nppulp (W)	GPIO_112	AN4	SDC2_D[7]	➔
P2 BSH-PD/nppulp (W)	GPIO_113	AL6	SDC2_D[8]	➔
P2 BSH-PD/nppulp (W)	GPIO_114	AM6	SDC2_D[5]	➔
P2 BSH-PU/nppulp (W)	GPIO_115	AL5	SDC2_D[4]	➔
P2 BSH-PD/nppulp (W)	GPIO_066	AJ9	SDC2_D[3]	➔
P2 BS-PD/nppulp	GPIO_067	AN6	SDC2_D[2]	➔
P2 BSH-PD/nppulp (W)	GPIO_068	AM7	SDC2_D[1]	➔
P2 BS-PD/nppulp	GPIO_069	AJ10	SDC2_D[0]	➔
P2 BS-PD/nppulp	GPIO_133	AE1	EMMC_VDDF_EN	➔

MSM8255-1
1238-9613

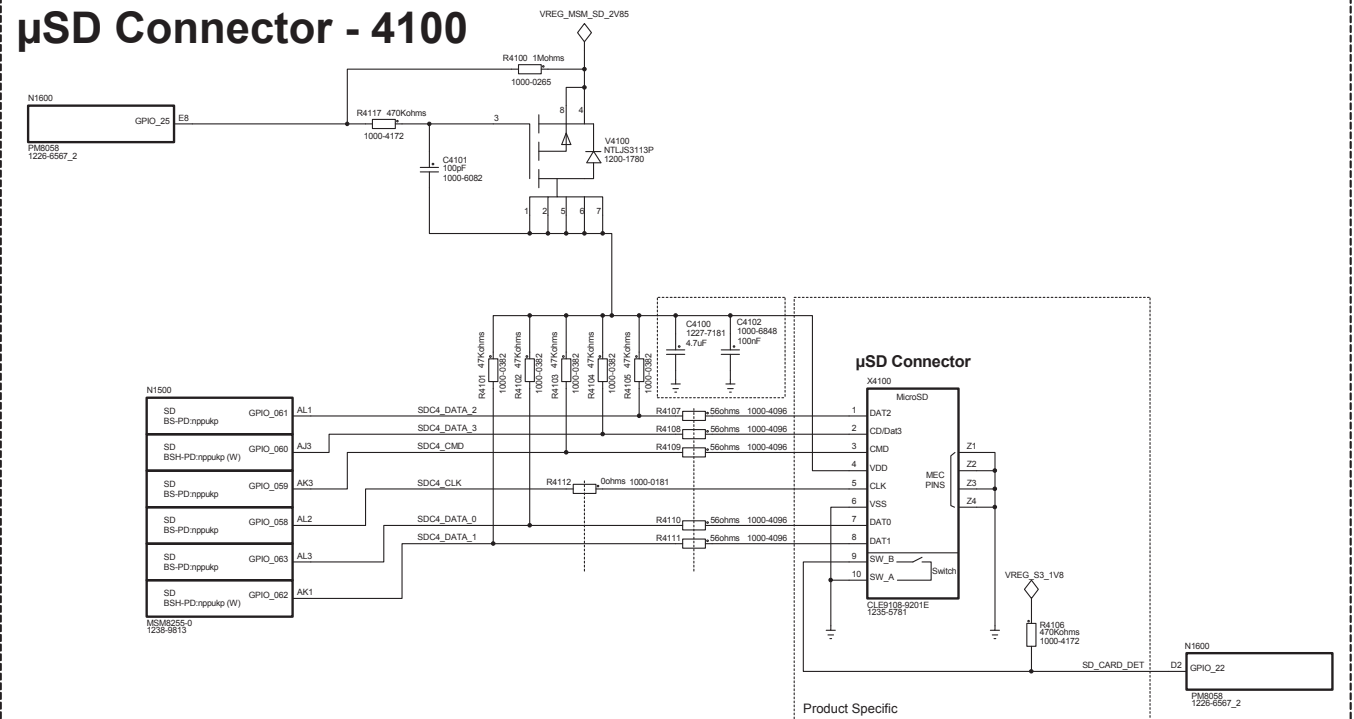
Accelerometer - 5000



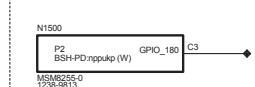
USIM Connector - 4000



μSD Connector - 4100



MR_DET



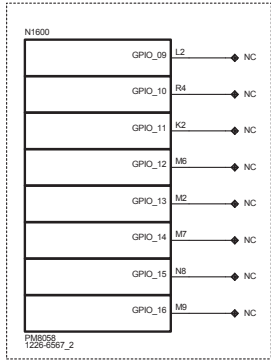
NFC Board - 8600

Product Specific

N1600	
PM8058_NFC_IF	B15 NFC_EXT_EN → NC
NFC_EXT_EN	
GPIO_19	M10 NFC_IRQ → NC
GPIO_17	N7 NFC_RST_N → NC
GPIO_18	M11 NFC_DWLDEN → NC

PM8058
1226-6567_2

Keyboard - 5200

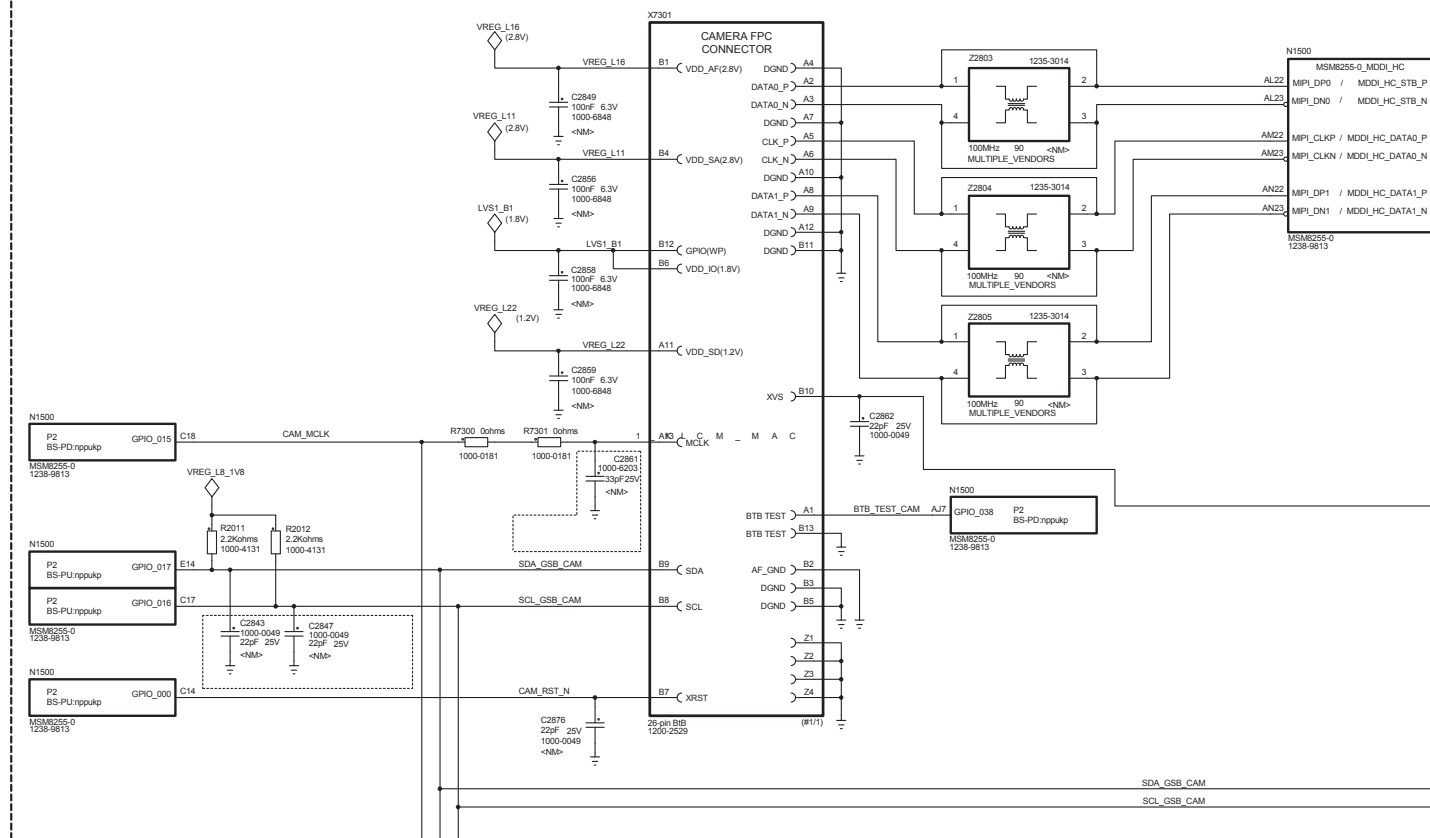


MMI LED - 5100

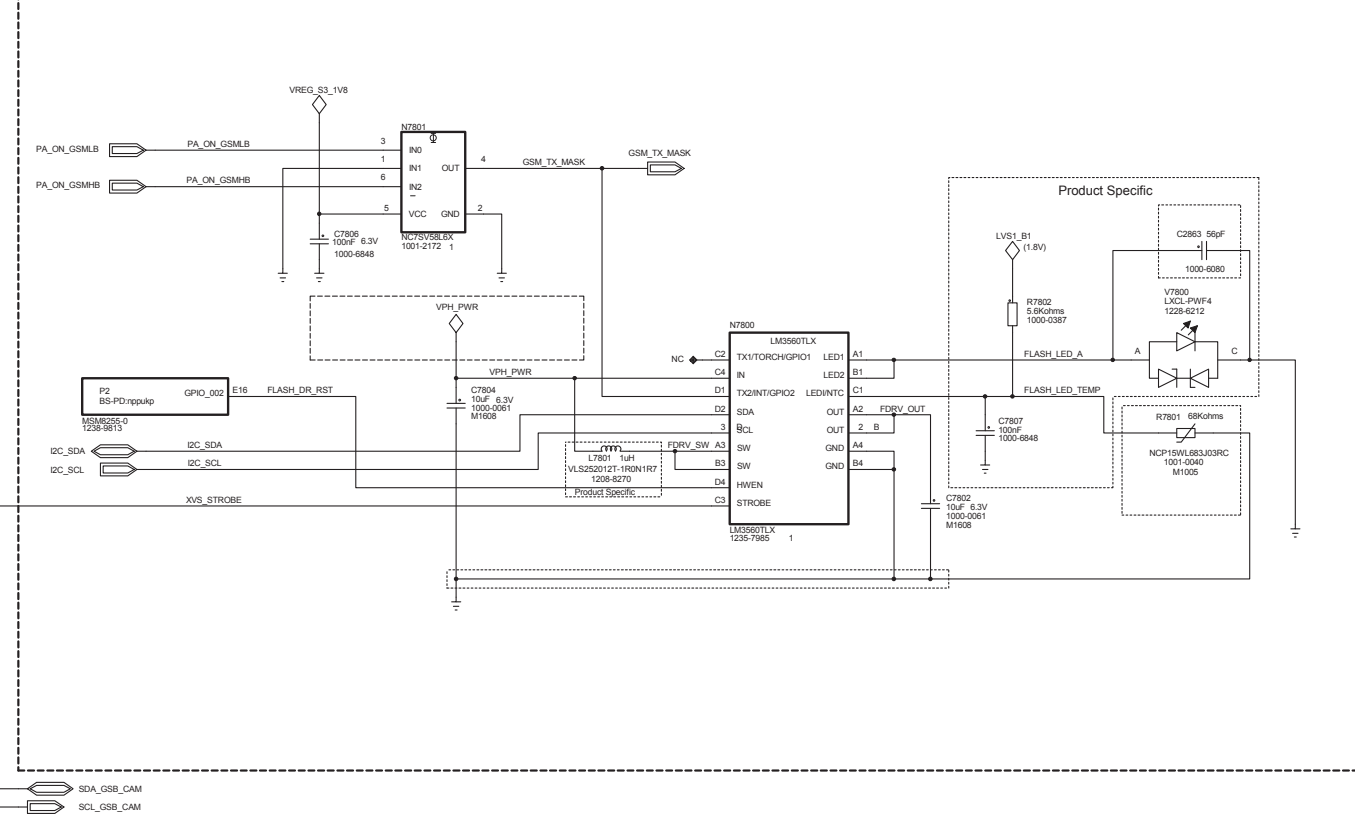
Light sensor - 5600

[illegible]

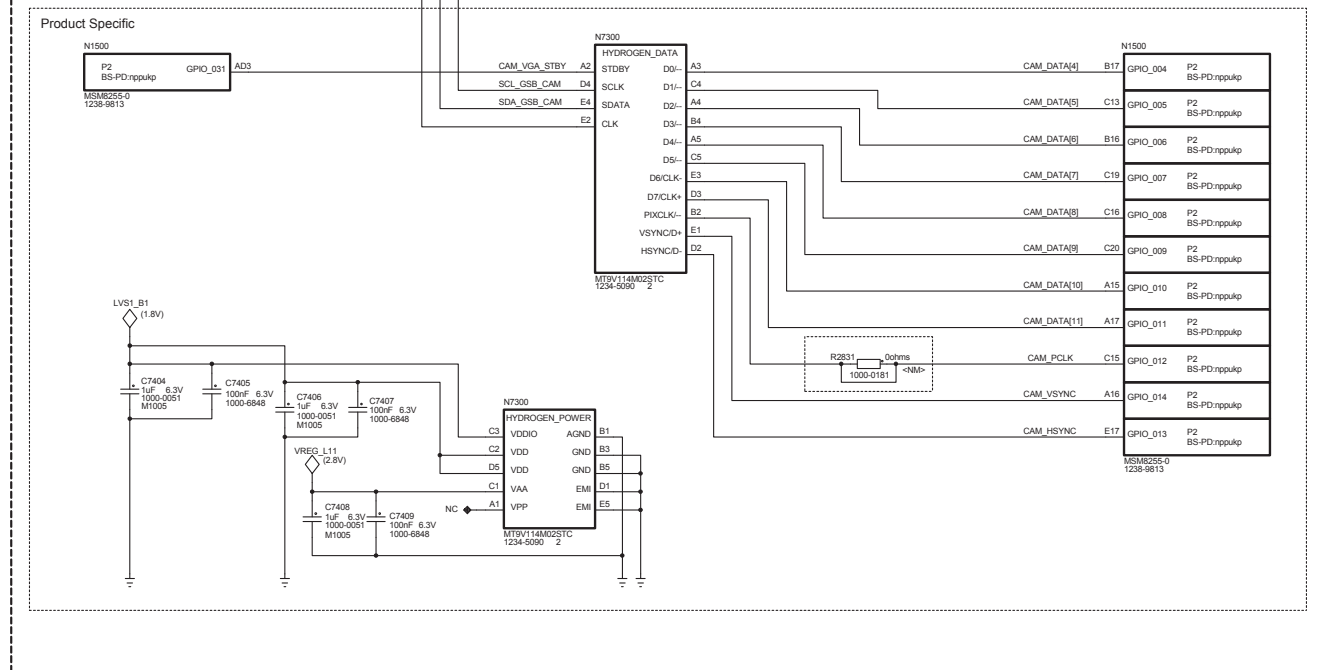
Main Camera - 7300



Flash LED Driver - 7800

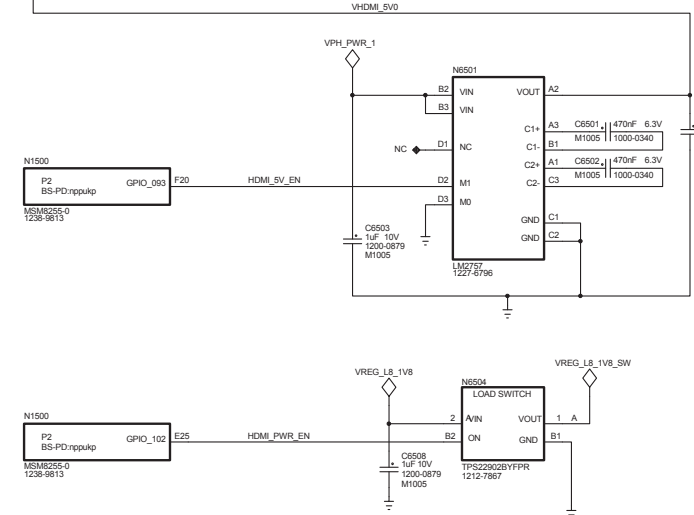
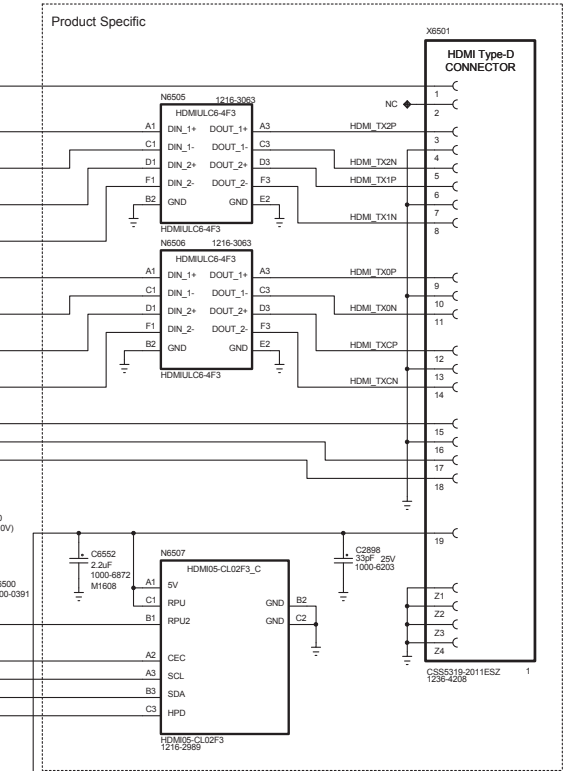
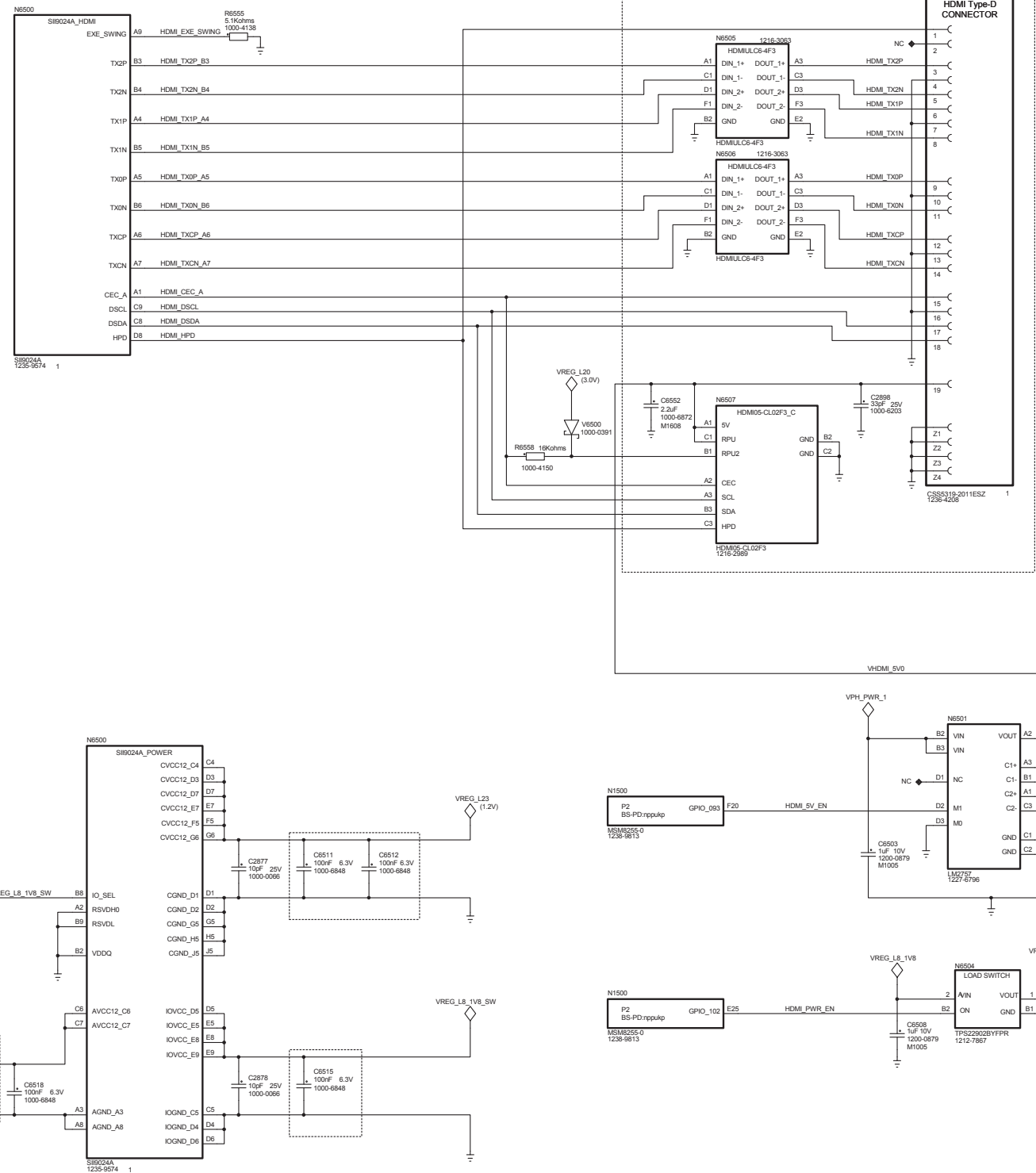
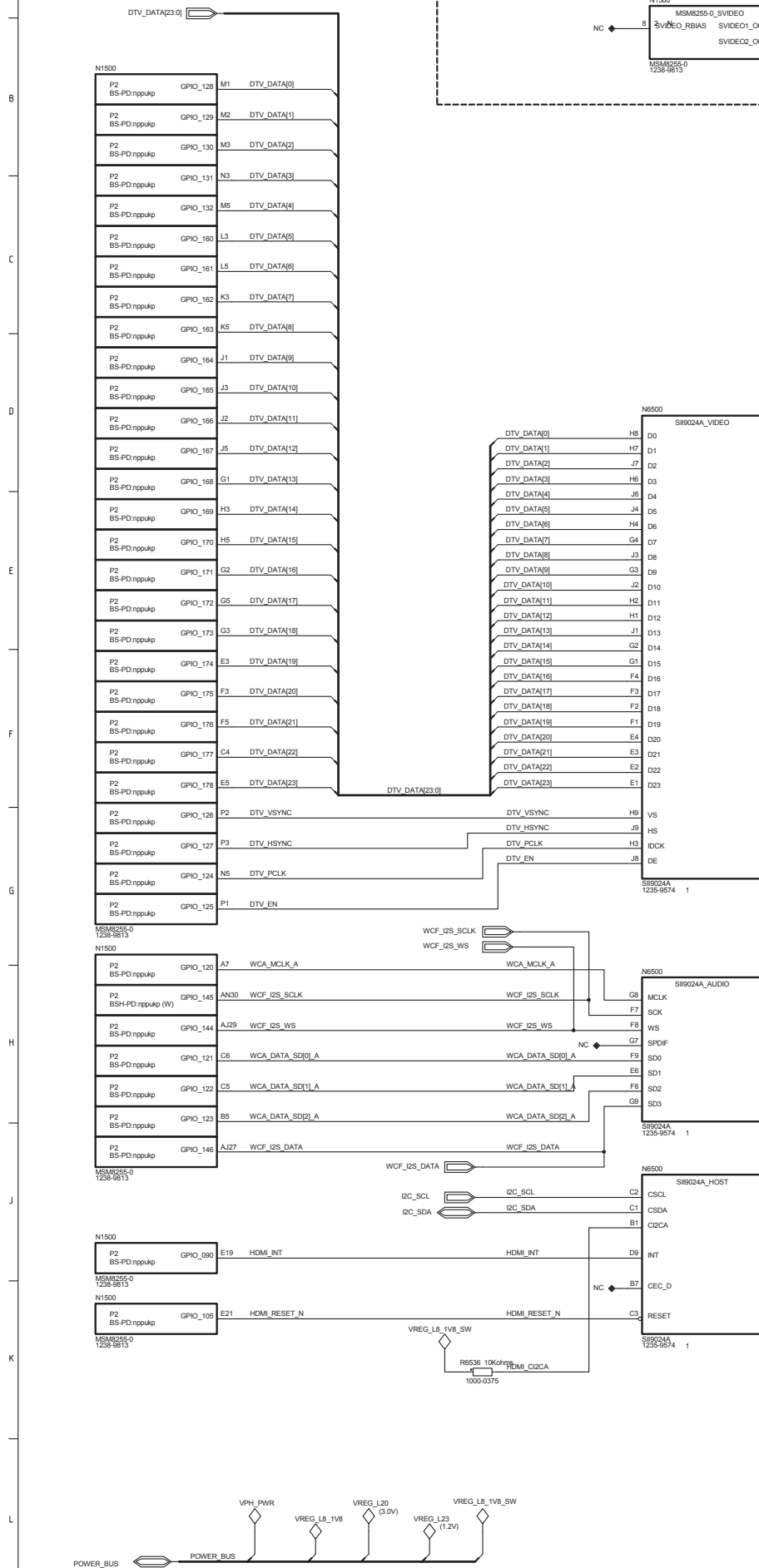
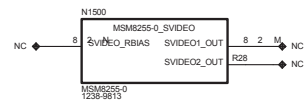


Sub Camera - 7300



HDMI - 6500

Analog TV_Out - 6400





Revision History

Rev.	Date	Changes / Comments
1	2011-Oct-03	Initial release