

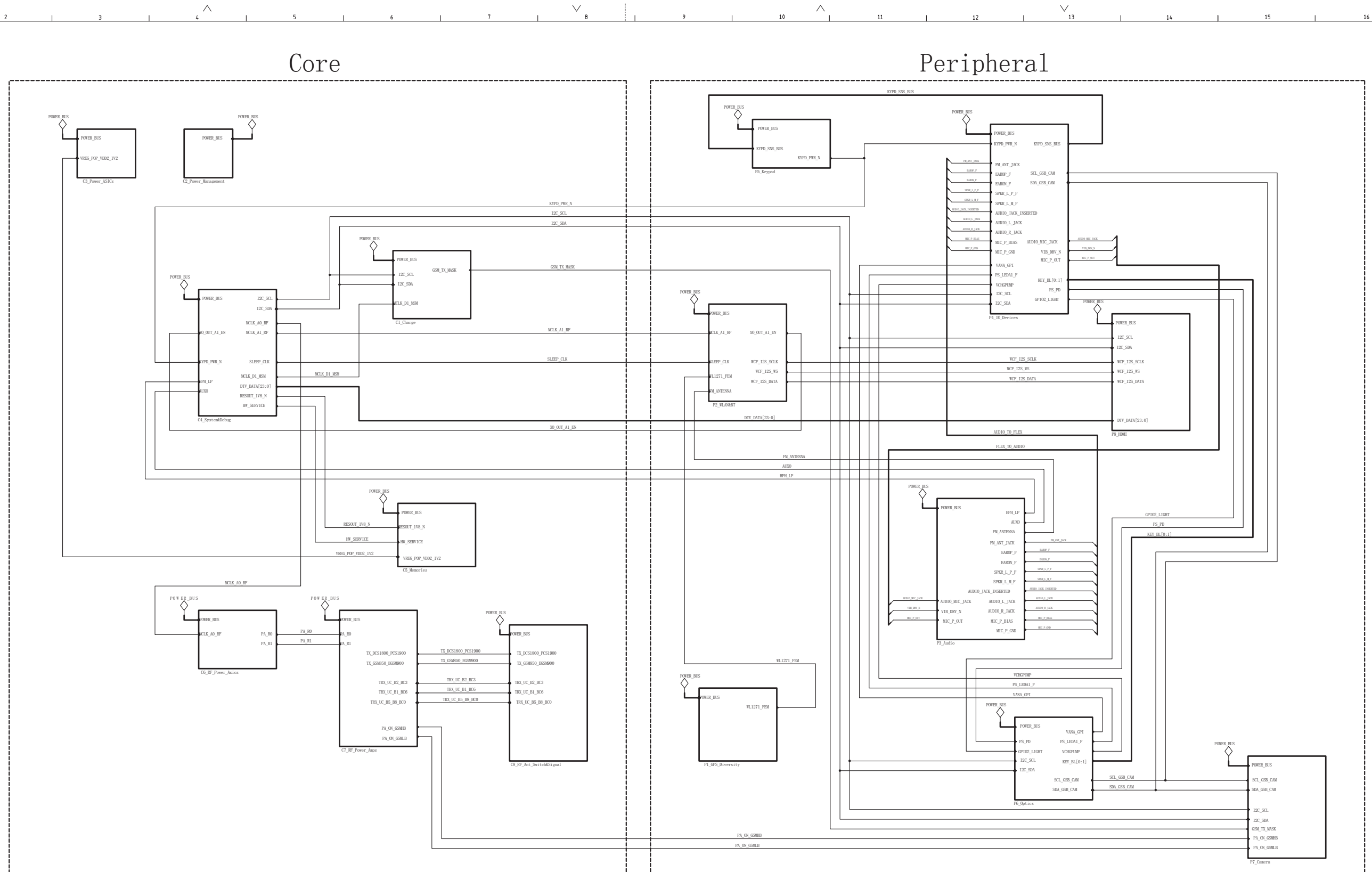


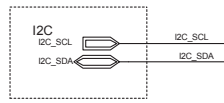
Sony Ericsson

Schematics Repair Drawing, Electrical

Schematics, Electrical

Applicable for Xperia™ arc S LT18i, LT18a

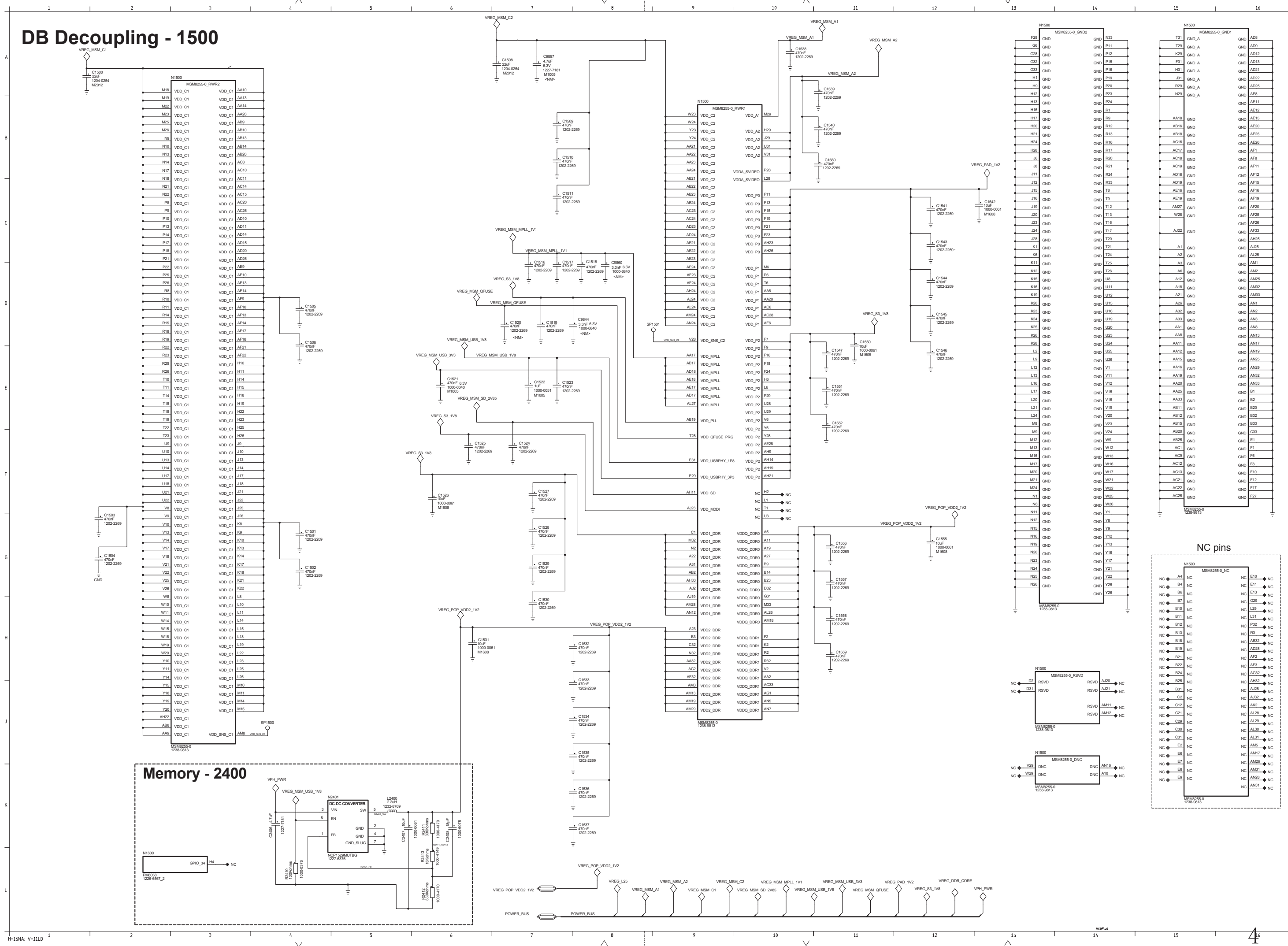


[illegible]

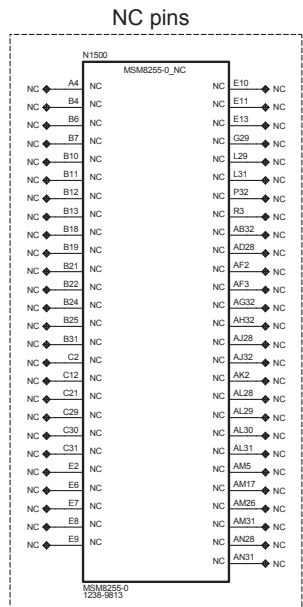
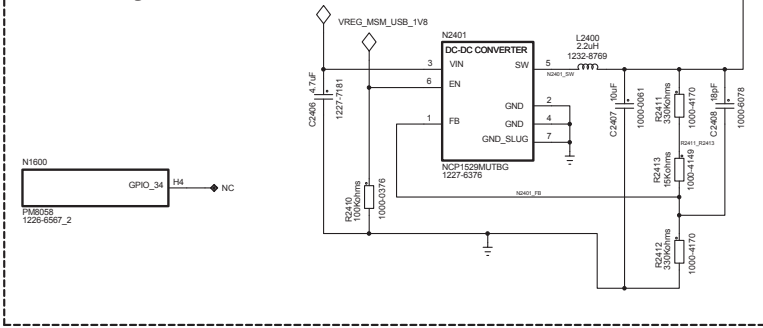
L



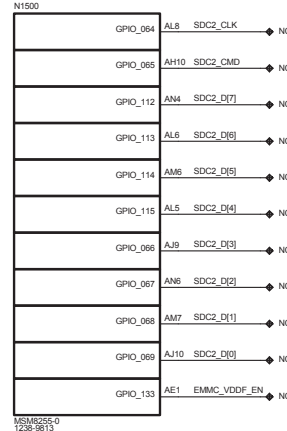
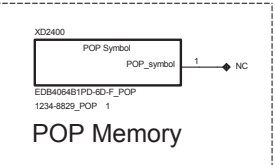
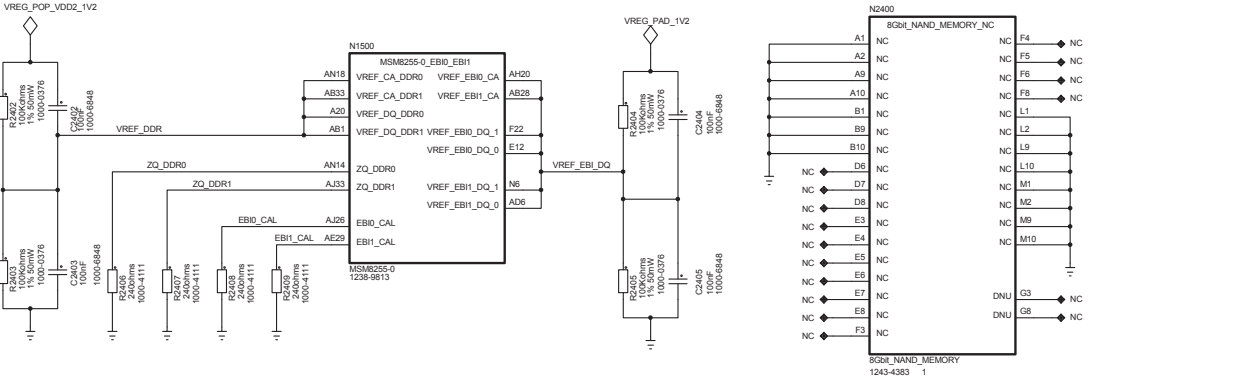
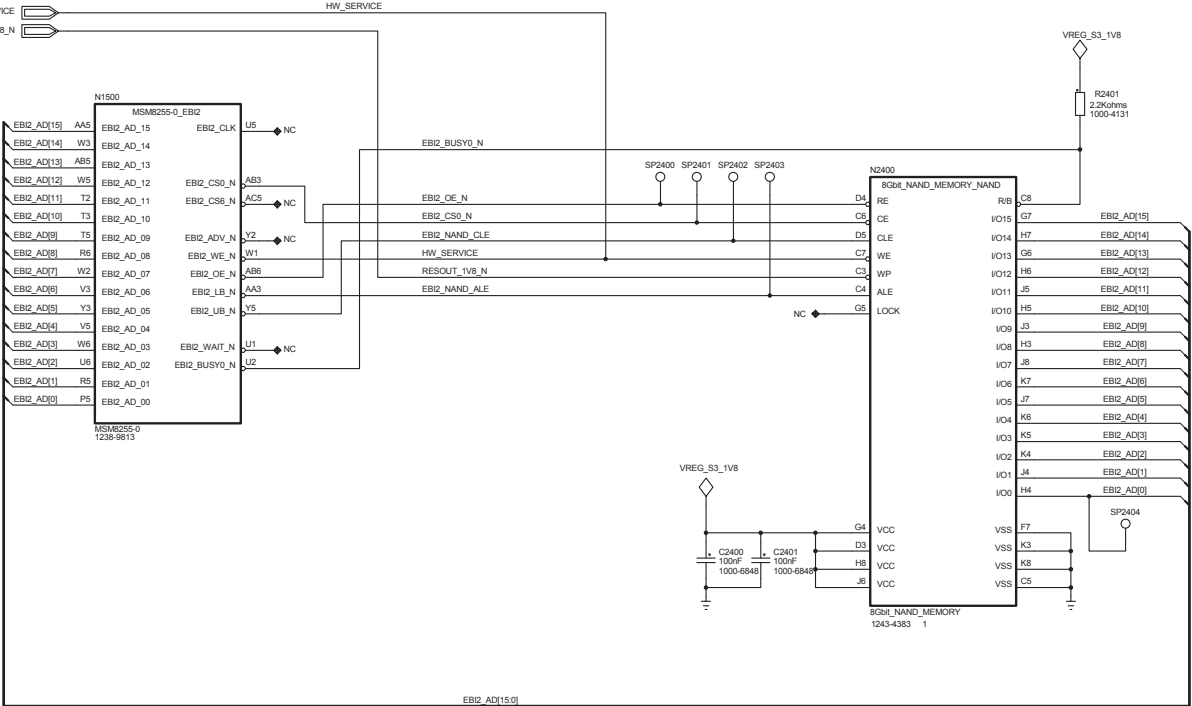
DB Decoupling - 1500



Memory - 2400

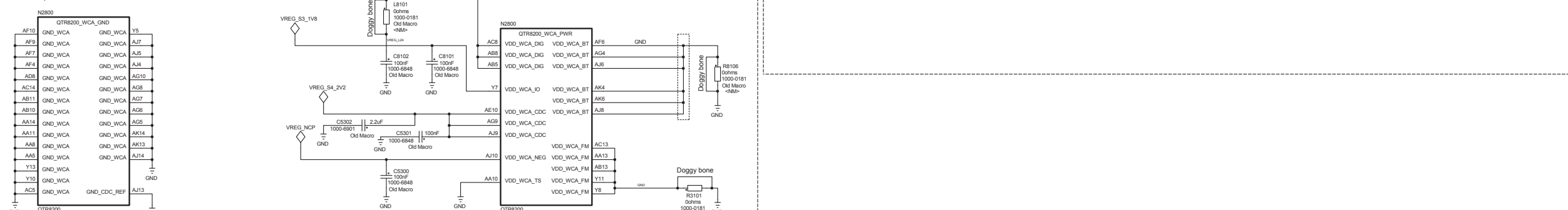
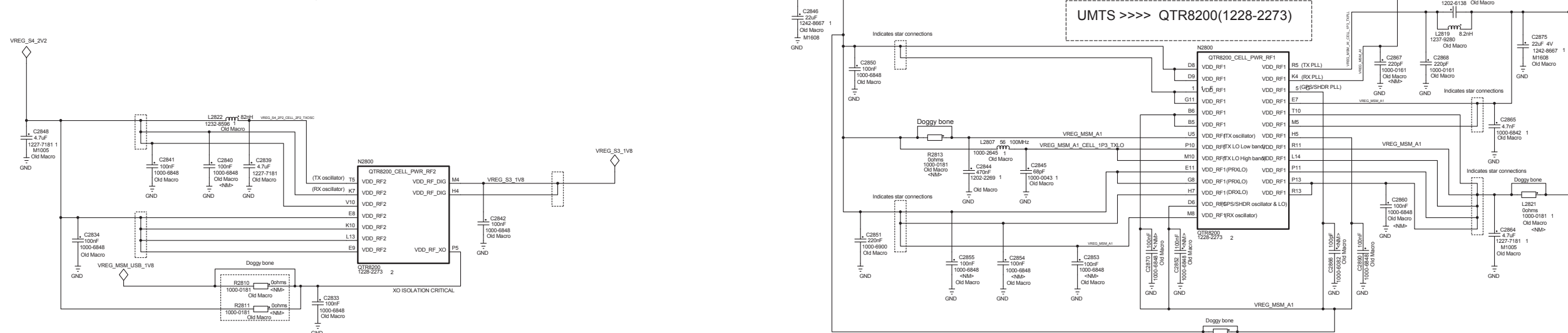
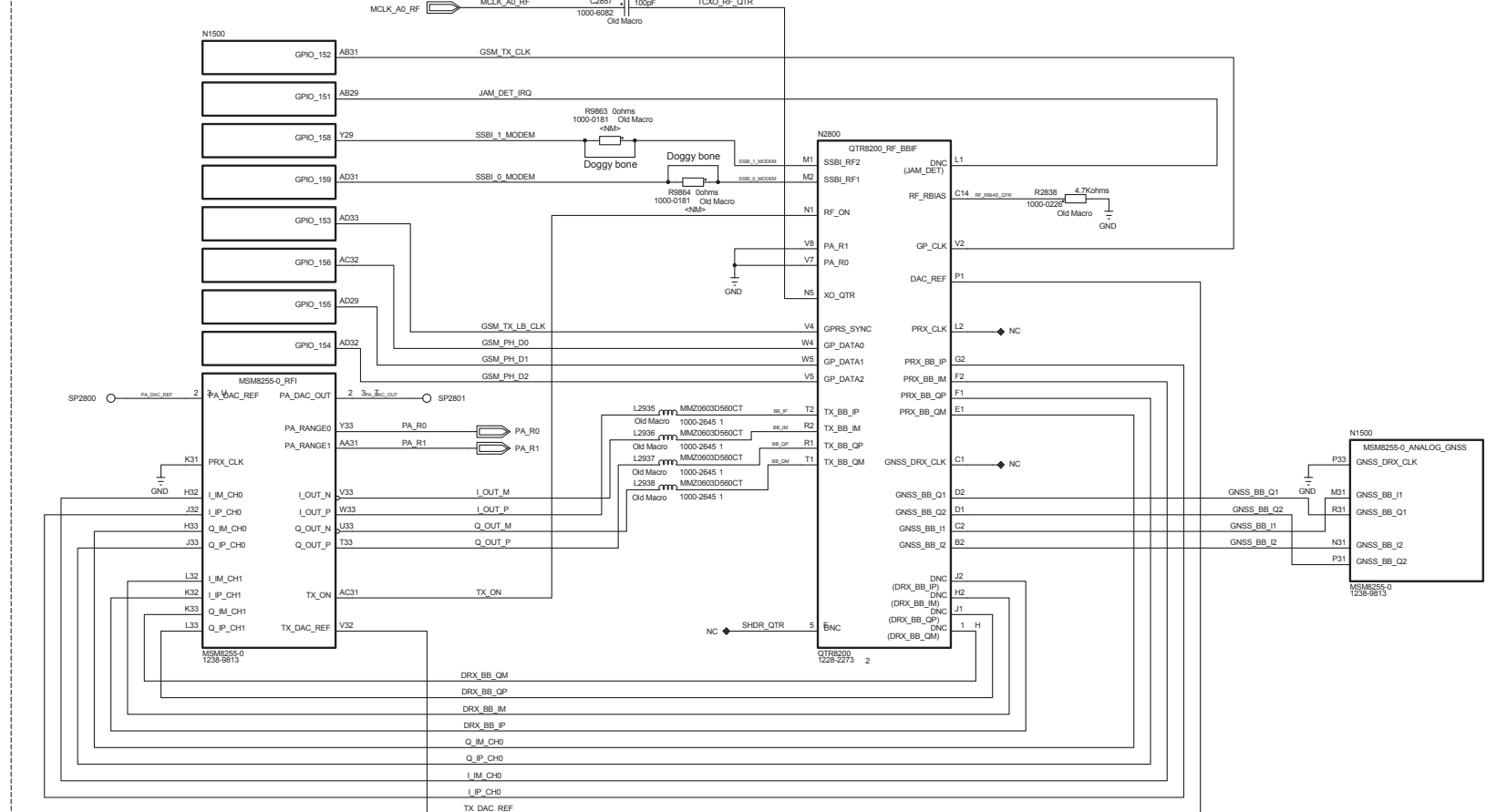


Memory - 2400



Product Specific





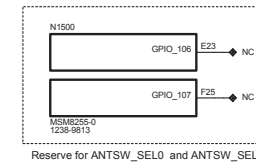
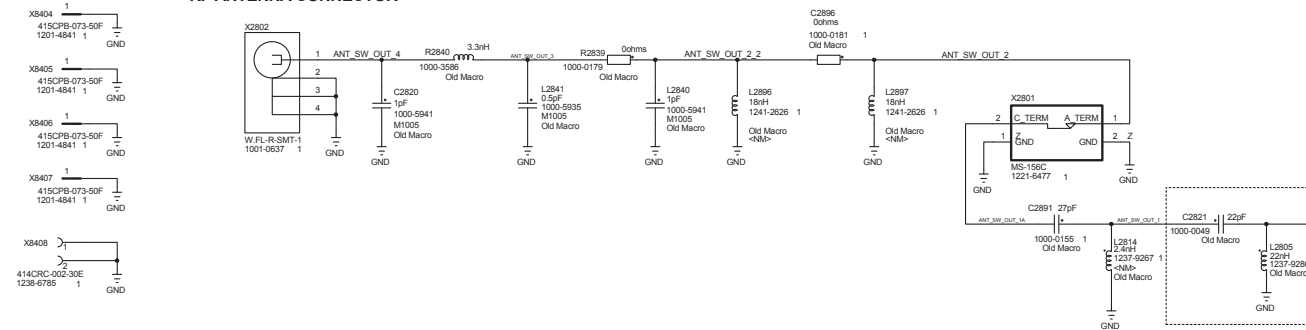
UMTS Band 5/8 Chain



Antenna matching
-2800,9600

```
*1 CTL State for Mogami
A : ANT_SEL[0]
B : ANT_SEL[1]
C : ANT_SEL[2]
D : ANT_SEL[3]
```

RF ANTENNA CONNECTOR



Product Specific

Antenna switch & GSM RX filter
-2800

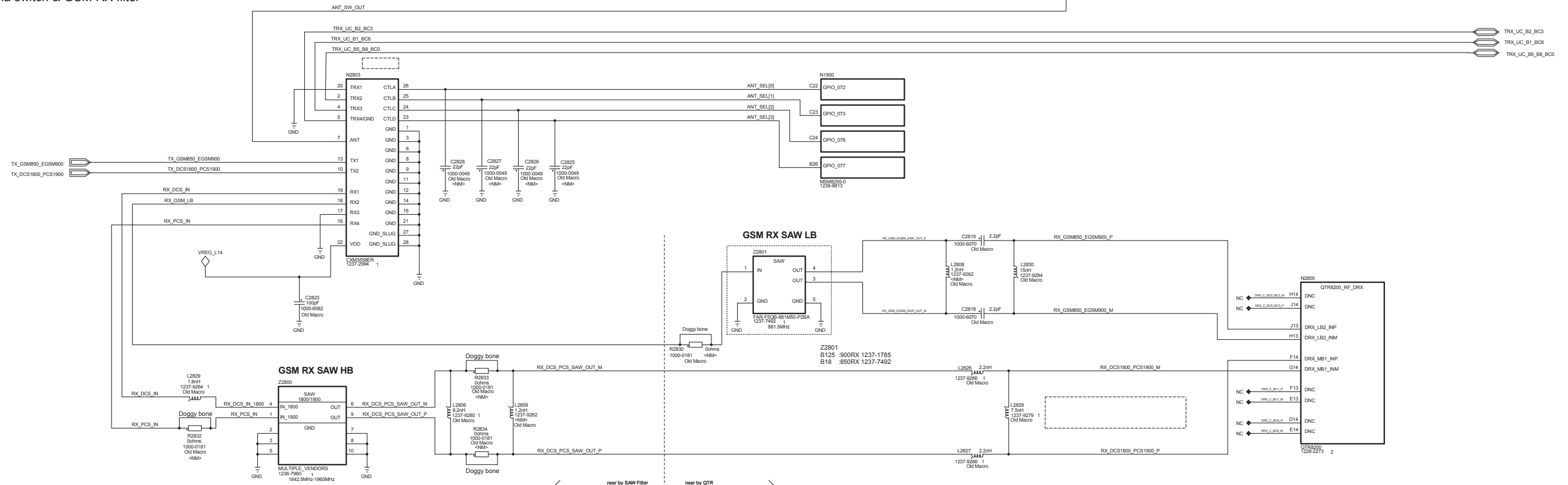
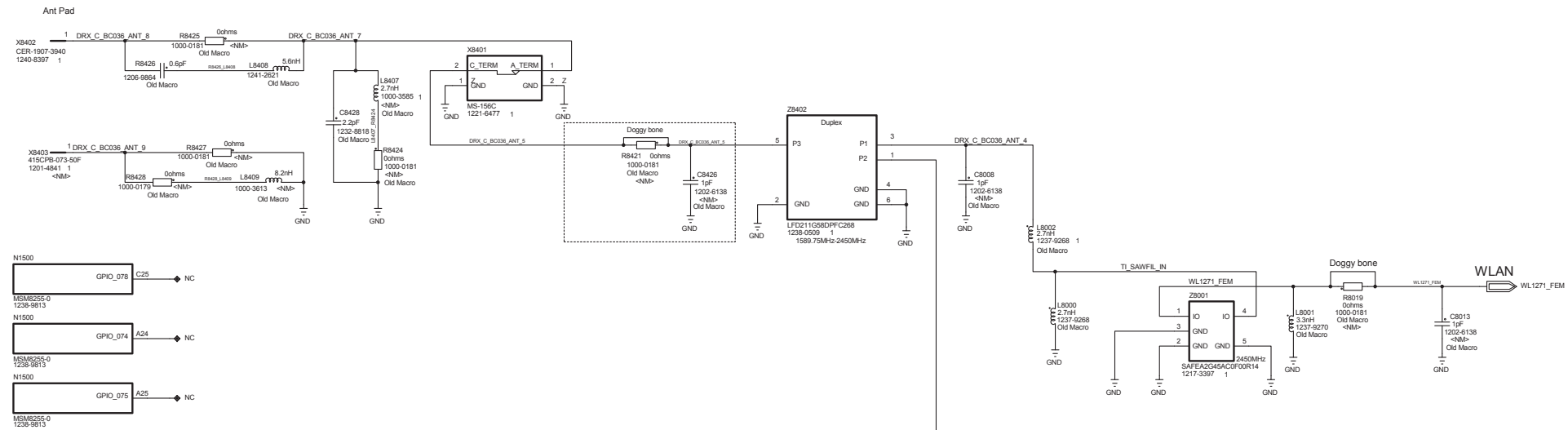
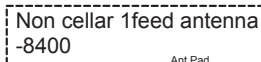


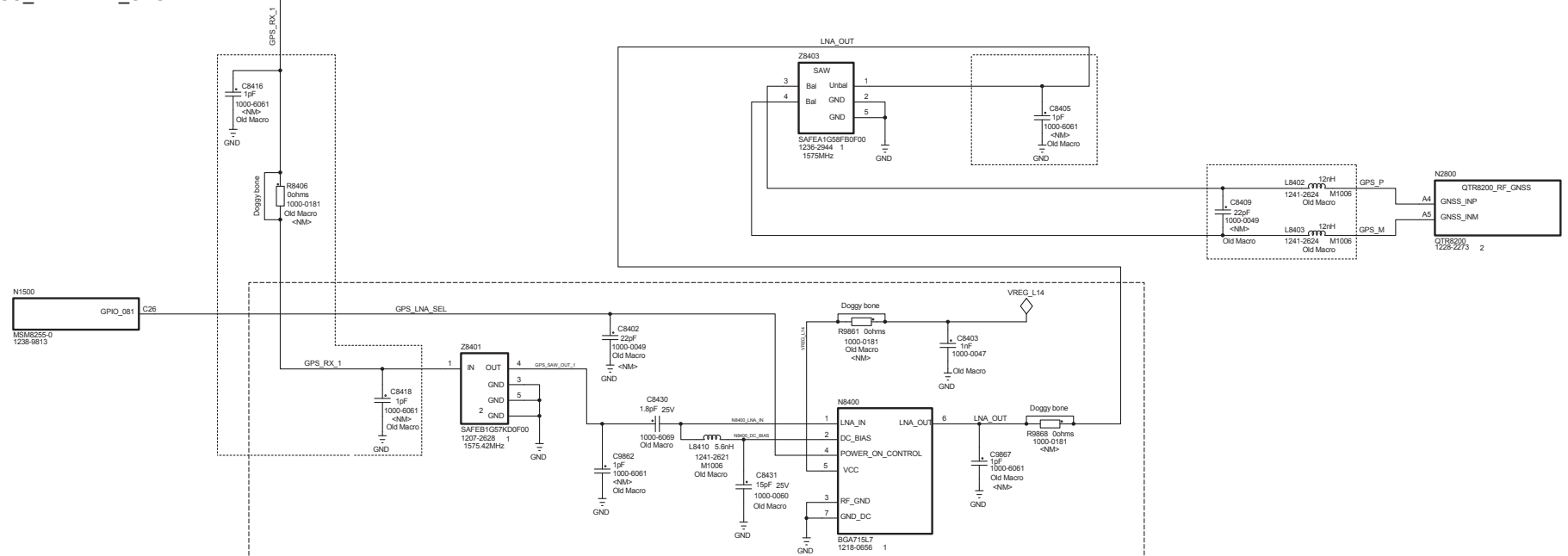
Diagram illustrating the frequency response of the SAW and QTR filters. The SAW filter shows a sharp peak at 100 MHz, while the QTR filter shows a broader peak at the same frequency. The SAW filter is labeled "near by SAW Filter" and the QTR filter is labeled "near by QTR".

LZF 030 101/F RB1

1 feed Antenna solution for non cellar.

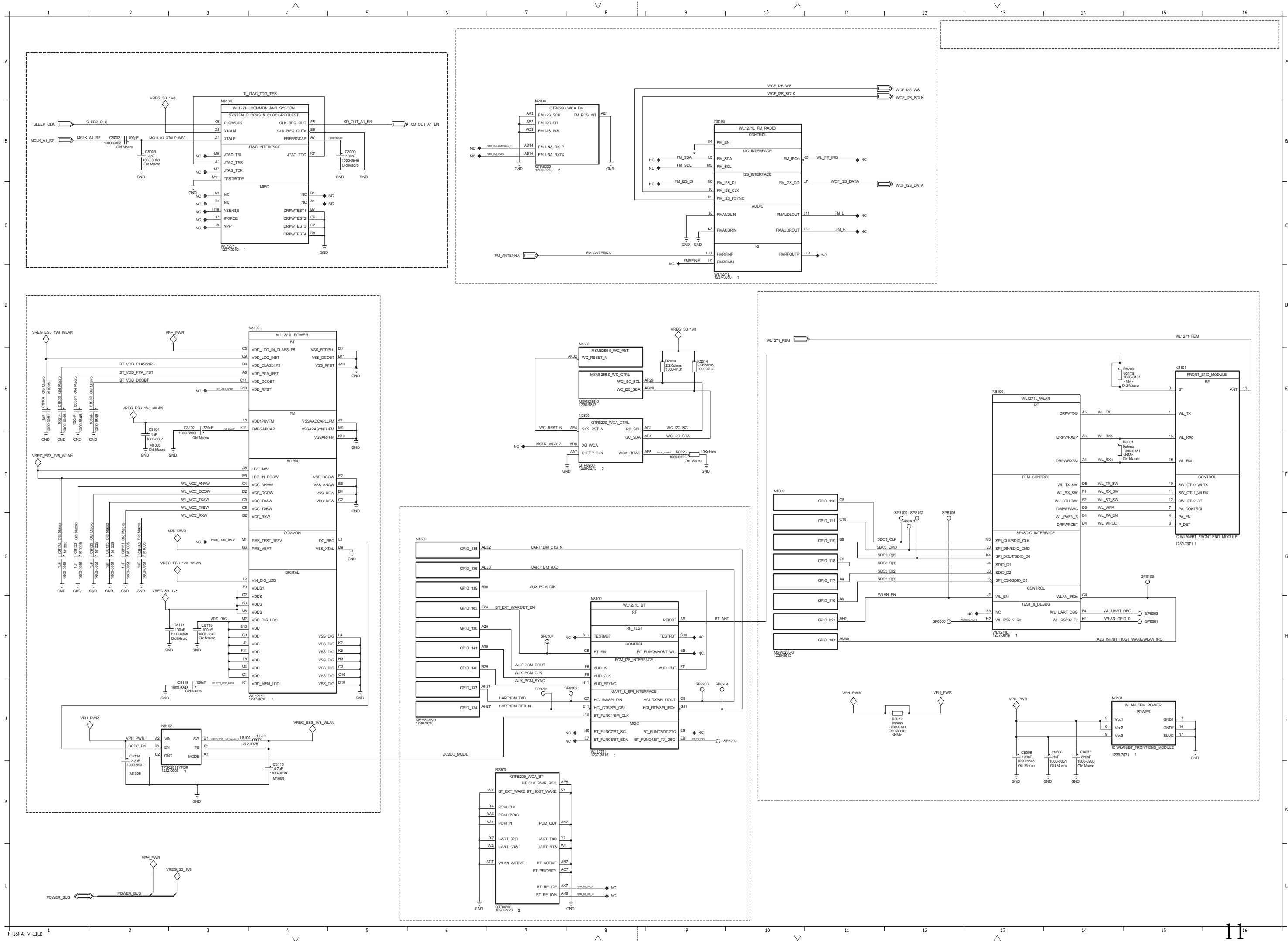


GPS/GNSS_PRIMARY_SYSTEM
-8400



VREG_L14

POWER BUS  POWER BUS

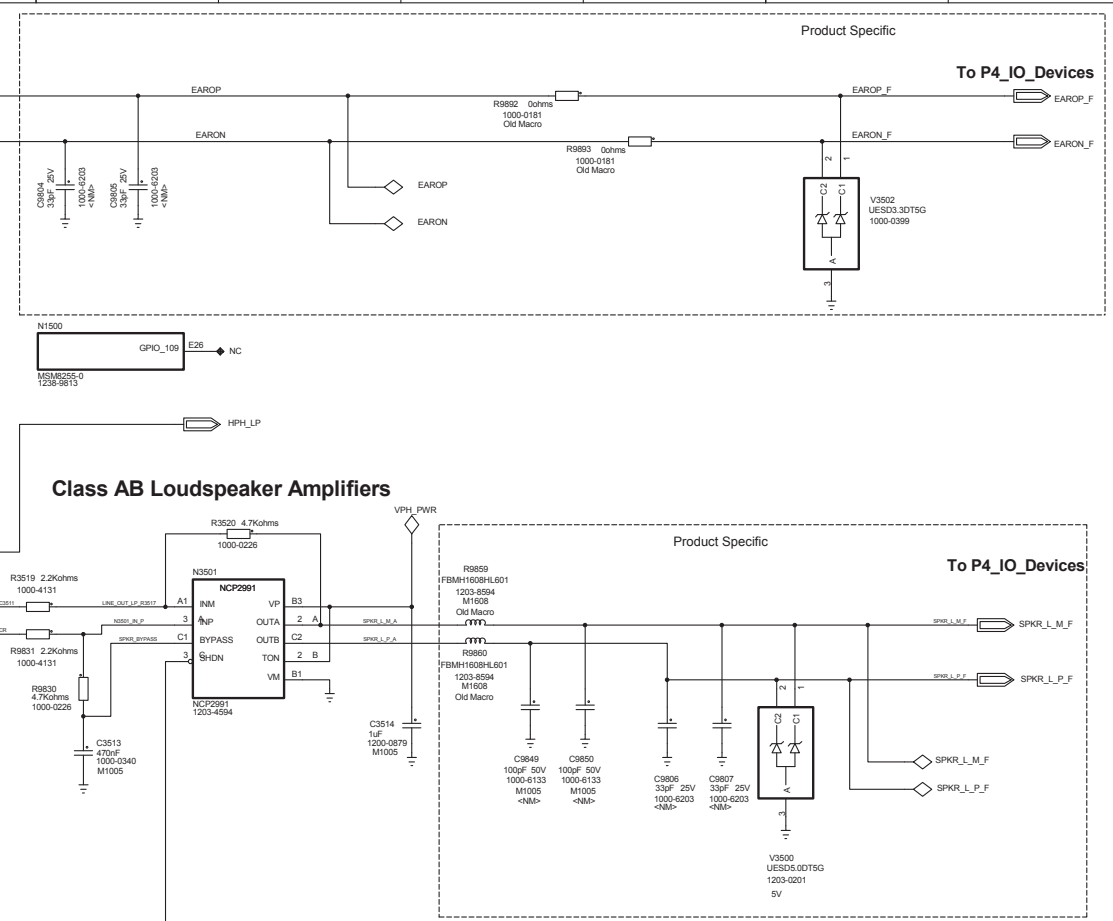
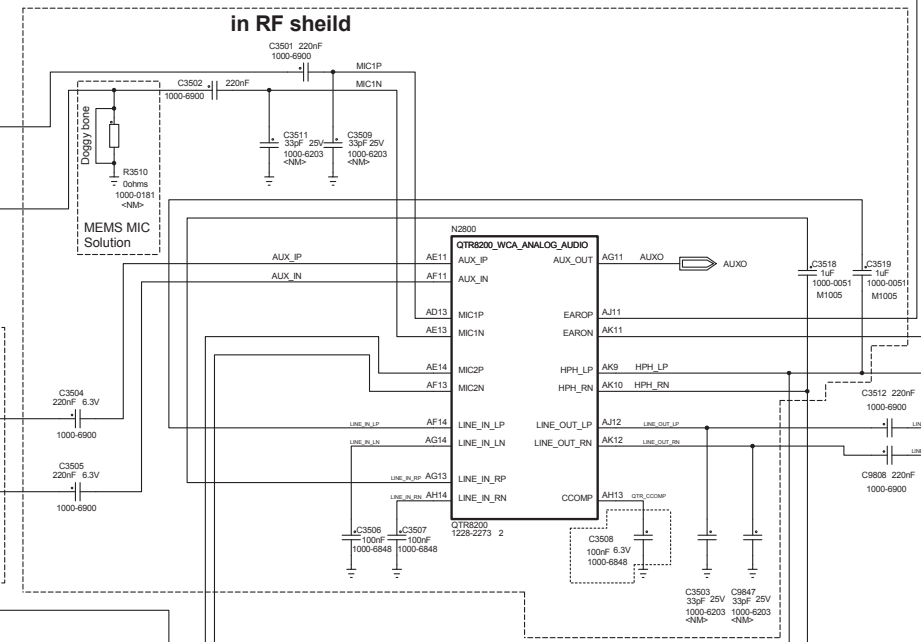


The diagram illustrates a MEMS MIC Solution, divided into Primary and Secondary MIC sections.

Primary MIC: This section shows the connection of a MEMS MIC to the system. The MIC is represented by a box labeled "MEMS MIC" with pins N11, N9, and N10. Pin N11 is connected to "HSED_BIAS0" and "HSED_BIAS1". Pin N9 is connected to "HSED_BIAS2". Pin N10 is connected to "NC". The MIC is also connected to "MIC_P_BIAS" and "MIC_P_OUT". The "MIC_P_BIAS" pin is connected to "L3500" (1.8k 100MHz 1237-6064 1) and "M1005". The "MIC_P_OUT" pin is connected to "L3501" (1.8k 100MHz 1237-6064 1) and "M1005". The "MIC_P_GND" pin is connected to "GND".

Secondary MIC: This section shows the connection of a secondary MEMS MIC. The MIC is represented by a box labeled "MEMS MIC" with pins 1, 2, 3, and 4. Pin 1 is connected to "L2852" (1.8k 100MHz 1237-6064 1) and "MULTIPLE VENDORS". Pin 2 is connected to "VCC". Pin 3 is connected to "GND". Pin 4 is connected to "L2853" (1.8k 100MHz 1237-6064 1) and "MULTIPLE VENDORS". The MIC is also connected to "MIC_P_OUT" and "MIC_P_GND". The "MIC_P_OUT" pin is connected to "L3502" (1.8k 100MHz 1237-6064 1) and "M1005". The "MIC_P_GND" pin is connected to "GND".

Other Components: The diagram includes various components such as capacitors (C3832, C3833, C3834, C3835, C3836, C3837, C3838, C3839, C3840, C3841, C3842, C3843, C3844, C3845, C3846, C3847, C3848, C3849, C3850, C3851, C3852, C3853, C3854, C3855, C3856, C3857, C3858, C3859, C3860, C3861, C3862, C3863, C3864, C3865, C3866, C3867, C3868, C3869, C3870, C3871, C3872, C3873, C3874, C3875, C3876, C3877, C3878, C3879, C3880, C3881, C3882, C3883, C3884, C3885, C3886, C3887, C3888, C3889, C3890, C3891, C3892, C3893, C3894, C3895, C3896, C3897, C3898, C3899, C3900, C3901, C3902, C3903, C3904, C3905, C3906, C3907, C3908, C3909, C3910, C3911, C3912, C3913, C3914, C3915, C3916, C3917, C3918, C3919, C3920, C3921, C3922, C3923, C3924, C3925, C3926, C3927, C3928, C3929, C3930, C3931, C3932, C3933, C3934, C3935, C3936, C3937, C3938, C3939, C3940, C3941, C3942, C3943, C3944, C3945, C3946, C3947, C3948, C3949, C3950, C3951, C3952, C3953, C3954, C3955, C3956, C3957, C3958, C3959, C3960, C3961, C3962, C3963, C3964, C3965, C3966, C3967, C3968, C3969, C3970, C3971, C3972, C3973, C3974, C3975, C3976, C3977, C3978, C3979, C3980, C3981, C3982, C3983, C3984, C3985, C3986, C3987, C3988, C3989, C3990, C3991, C3992, C3993, C3994, C3995, C3996, C3997, C3998, C3999, C4000, C4001, C4002, C4003, C4004, C4005, C4006, C4007, C4008, C4009, C4010, C4011, C4012, C4013, C4014, C4015, C4016, C4017, C4018, C4019, C4020, C4021, C4022, C4023, C4024, C4025, C4026, C4027, C4028, C4029, C4030, C4031, C4032, C4033, C4034, C4035, C4036, C4037, C4038, C4039, C4040, C4041, C4042, C4043, C4044, C4045, C4046, C4047, C4048, C4049, C4050, C4051, C4052, C4053, C4054, C4055, C4056, C4057, C4058, C4059, C4060, C4061, C4062, C4063, C4064, C4065, C4066, C4067, C4068, C4069, C4070, C4071, C4072, C4073, C4074, C4075, C4076, C4077, C4078, C4079, C4080, C4081, C4082, C4083, C4084, C4085, C4086, C4087, C4088, C4089, C4090, C4091, C4092, C4093, C4094, C4095, C4096, C4097, C4098, C4099, C4100, C4101, C4102, C4103, C4104, C4105, C4106, C4107, C4108, C4109, C4110, C4111, C4112, C4113, C4114, C4115, C4116, C4117, C4118, C4119, C4120, C4121, C4122, C4123, C4124, C4125, C4126, C4127, C4128, C4129, C4130, C4131, C4132, C4133, C4134, C4135, C4136, C4137, C4138, C4139, C4140, C4141, C4142, C4143, C4144, C4145, C4146, C4147, C4148, C4149, C4150, C4151, C4152, C4153, C4154, C4155, C4156, C4157, C4158, C4159, C4160, C4161, C4162, C4163, C4164, C4165, C4166, C4167, C4168, C4169, C4170, C4171, C4172, C4173, C4174, C4175, C4176, C4177, C4178, C4179, C4180, C4181, C4182, C4183, C4184, C4185, C4186, C4187, C4188, C4189, C4190, C4191, C4192, C4193, C4194, C4195, C4196, C4197, C4198, C4199, C4200, C4201, C4202, C4203, C4204, C4205, C4206, C4207, C4208, C4209, C4210, C4211, C4212, C4213, C4214, C4215, C4216, C4217, C4218, C4219, C4220, C4221, C4222, C4223, C4224, C4225, C4226, C4227, C4228, C4229, C4230, C4231, C4232, C4233, C4234, C4235, C4236, C4237, C4238, C4239, C4240, C4241, C4242, C4243, C4244, C4245, C4246, C4247, C4248, C4249, C4250, C4251, C4252, C4253, C4254, C4255, C4256, C4257, C4258, C4259, C4260, C4261, C4262, C4263, C4264, C4265, C4266, C4267, C4268, C4269, C4270, C4271, C4272, C4273, C4274, C4275, C4276, C4277, C4278, C4279, C4280, C4281, C4282, C4283, C4284, C4285, C4286, C4287, C4288, C4289, C4290, C4291, C4292, C4293, C4294, C4295, C4296, C4297, C4298, C4299, C4300, C4301, C4302, C4303, C4304, C4305, C4306, C4307, C4308, C4309, C4310, C4311, C4312, C4313, C4314, C4315, C4316, C4317, C4318, C4319, C4320, C4321, C4322, C4323, C4324, C4325, C4326, C4327, C4328, C4329, C4330, C4331, C4332, C4333, C4334, C4335, C4336, C4337, C4338, C4339, C4340, C4341, C4342, C4343, C4344, C4345, C4346, C4347, C4348, C4349, C4350, C4351, C4352, C4353, C4354, C4355, C4356, C4357, C4358, C4359, C4360, C4361, C4362, C4363, C4364, C4365, C4366, C4367, C4368, C4369, C4370, C4371, C4372, C4373, C4374, C4375, C4376, C4377, C4378, C4379, C4380, C4381, C4382, C4383, C4384, C4385, C4386, C4387, C4388, C4389, C4390, C4391, C4392, C4393, C4394, C4395, C4396, C4397, C4398, C4399, C4400, C4401, C4402, C4403, C4404, C4405, C4406, C4407, C4408, C4409, C4410, C4411, C4412, C4413, C4414, C4415, C4416, C4417, C4418, C4419, C4420, C4421, C4422, C4423, C4424, C4425, C4



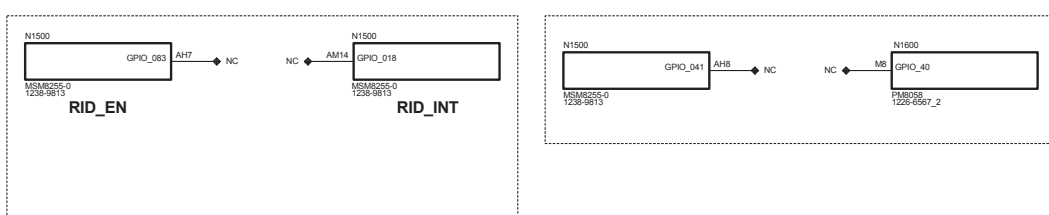
The schematic diagram illustrates the system connector for the P4 module. It shows the internal circuitry connecting various pins to the module's components. Key sections include:

- Microphone Section:** Features a microphone input (MIC2_P, MIC2_N) connected to a microphone jack (MIC2_P_JACK). The internal circuit includes a microphone (MIC2_N_2), a 1kOhm resistor (R3600), and a 100kOhm resistor (R3604). A 100kOhm resistor (R3607) is also present.
- FM Antenna Section:** Includes an FM antenna input (FM_ANT_JACK) connected to an FM antenna jack (FM_ANT_JACK). The internal circuit features a 100kOhm resistor (R3611), a 100kOhm resistor (R3612), and a 100kOhm resistor (R3613).
- Audio Section:** Shows audio inputs (AUDIO_MIC_JACK, AUDIO_I_JACK, AUDIO_R_JACK) connected to the module's audio processing circuit. The internal circuit includes a 100kOhm resistor (R3604), a 100kOhm resistor (R3607), and a 100kOhm resistor (R3611).
- Product Specific Block:** A detailed view of the microphone and FM antenna sections, showing the internal components and their connections.

The diagram is labeled "System connector" at the bottom.

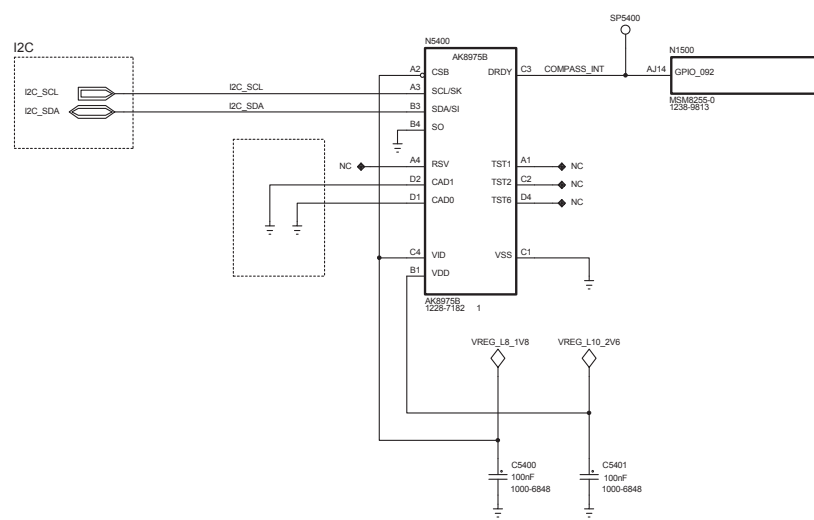
Figure 10 illustrates the PM0058_VIB and PM0058_GPIO connections. The diagram shows two PM0058 modules (part number 1226-6567_2) connected to an N1600 module. The top module's PM0058_VIB block is connected to N1600 pin T1, which is labeled VIB_DRV_N. The bottom module's PM0058_GPIO block is connected to N1600 pin H13, which is labeled MPP_06. The N1600 module also has a VIB_DRV_N pin at the top, which is connected to the top module's VIB_DRV_N pin via a wire.

Figure 10 is a block diagram of the MSM8255-0 WCA_IF interface. It shows two main blocks: N1500 (MSM8255-0_WCA_IF) and N2800 (QTR8200_WCA_DIGITAL_AUDIO). N1500 contains sub-blocks WCA_MCLK1, WCA_MCLK2, WCA_TX_IS2_CLK, WCA_RX_IS2_CLK, WCA_TX_IS2_DATA, WCA_RX_IS2_DATA, WCA_TX_IS2_WS, WCA_RX_IS2_WS, and MSM8255-0_1226-5B13. N2800 contains sub-blocks AUD_MCLK1, AUD_MCLK2, AUD_RX_IS2_SCK, AUD_TX_IS2_SCK, AUD_RX_IS2_SD, AUD_TX_IS2_SD, AUD_TX_IS2_WS, and AUD_TX_IS2_WS. Connections include AG31, AG32, AG33, AG29, AG28, AGH1, AGH2, AGH3, AGH4, AGH5, AGH6, AGH7, AGH8, AGH9, AGH10, AGH11, AGH12, AGH13, AGH14, AGH15, AGH16, AGH17, AGH18, AGH19, AGH20, AGH21, AGH22, AGH23, AGH24, AGH25, AGH26, AGH27, AGH28, AGH29, AGH30, AGH31, AGH32, AGH33, AGH34, AGH35, AGH36, AGH37, AGH38, AGH39, AGH40, AGH41, AGH42, AGH43, AGH44, AGH45, AGH46, AGH47, AGH48, AGH49, AGH50, AGH51, AGH52, AGH53, AGH54, AGH55, AGH56, AGH57, AGH58, AGH59, AGH60, AGH61, AGH62, AGH63, AGH64, AGH65, AGH66, AGH67, AGH68, AGH69, AGH70, AGH71, AGH72, AGH73, AGH74, AGH75, AGH76, AGH77, AGH78, AGH79, AGH80, AGH81, AGH82, AGH83, AGH84, AGH85, AGH86, AGH87, AGH88, AGH89, AGH90, AGH91, AGH92, AGH93, AGH94, AGH95, AGH96, AGH97, AGH98, AGH99, AGH100. A dashed line connects the two blocks.

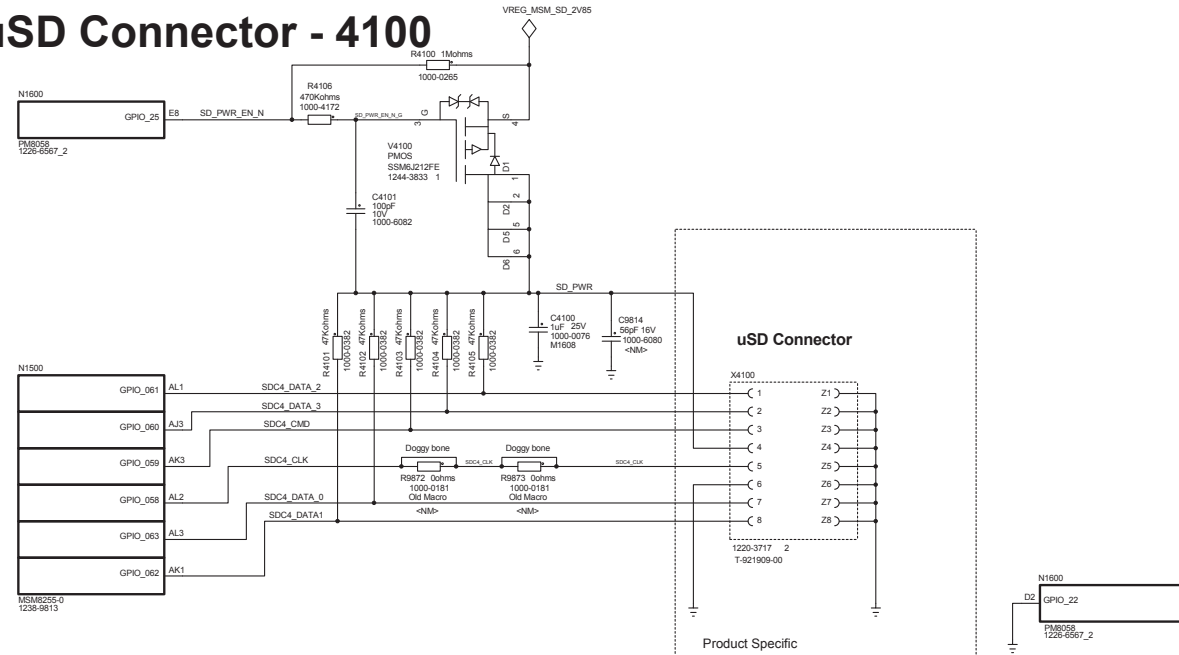


E-Compass - 5400

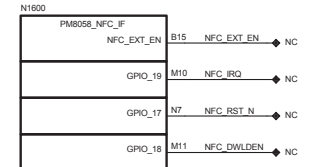
3-Axis Compass



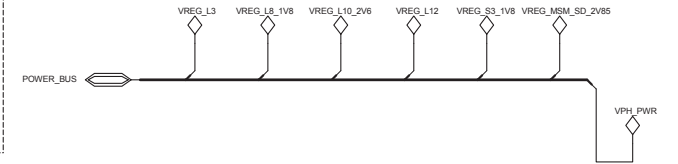
uSD Connector - 4100



NFC Board - 8600

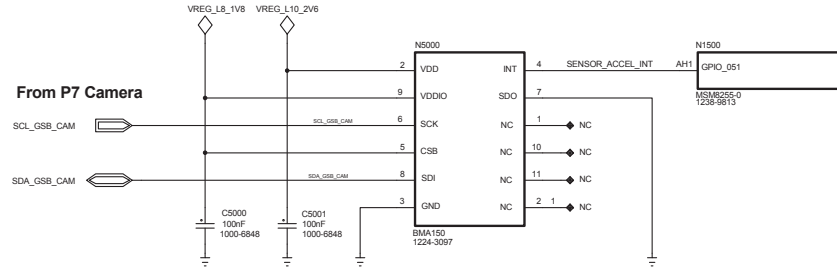


Product Specific

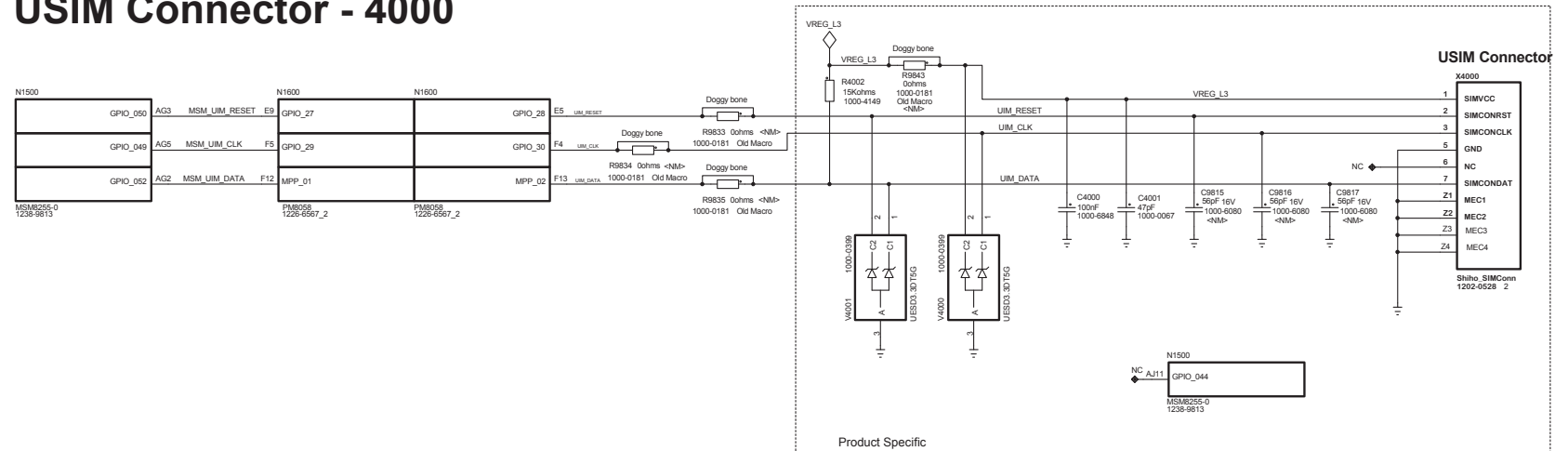


Accelerometer - 5000

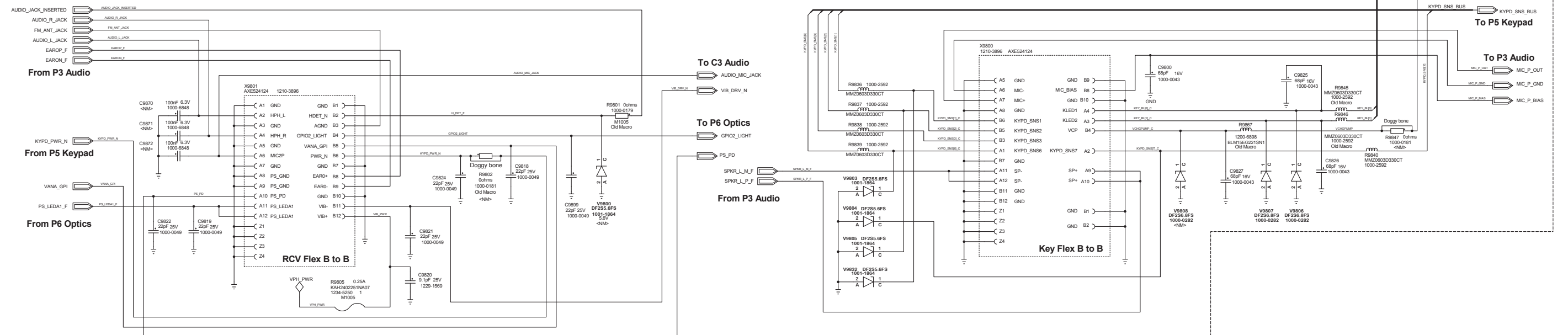
Accelerometer



USIM Connector - 4000

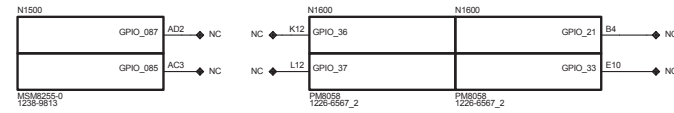
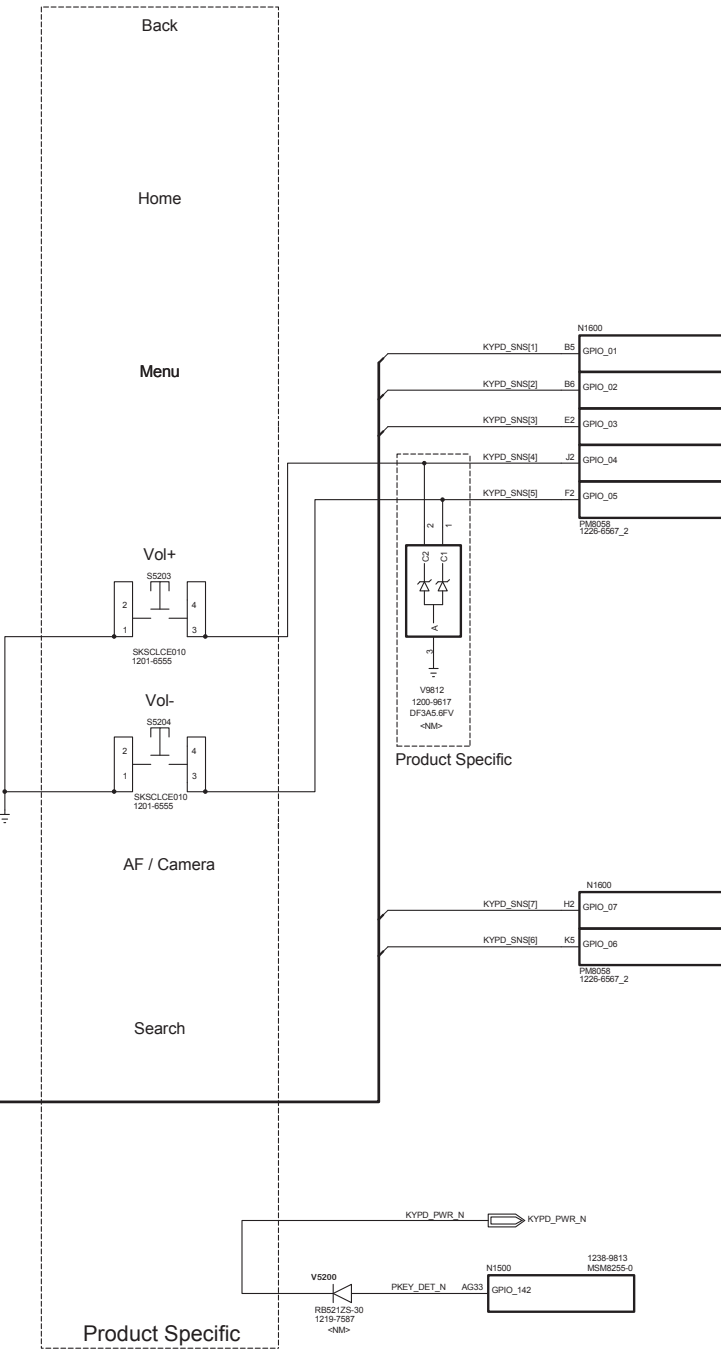
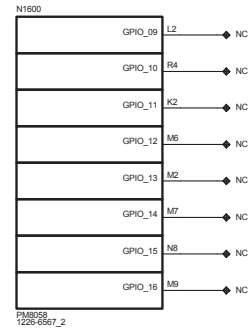


Flex Connector - 9800



Keyboard - 5200

Detach Key I/F



From P4_IO_Devices

KYPD_SNS_BUS

KYPD_SNS_BUS

KYPD_PWR_N

KYPD_PWR_N

V5200

R852129-30

1219-7557

<NM>

PREY_DET_N

AG33

GPIO_142

N1600

1238-9813

MSM6255-0

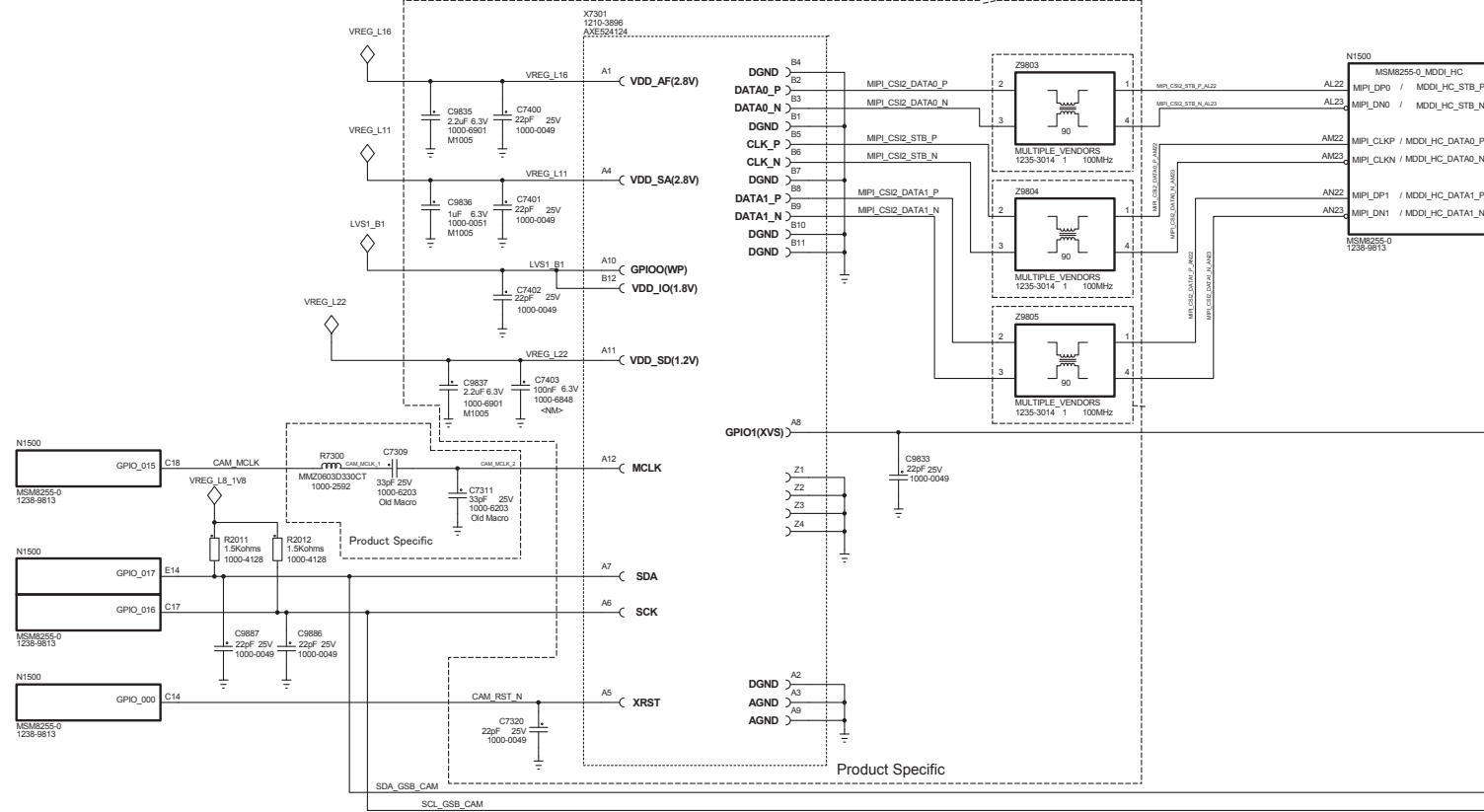
POWER_BUS

POWER_BUS

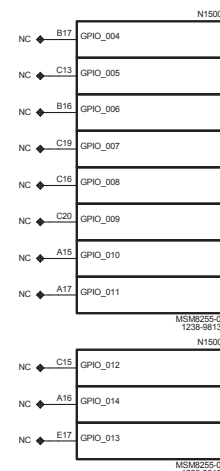
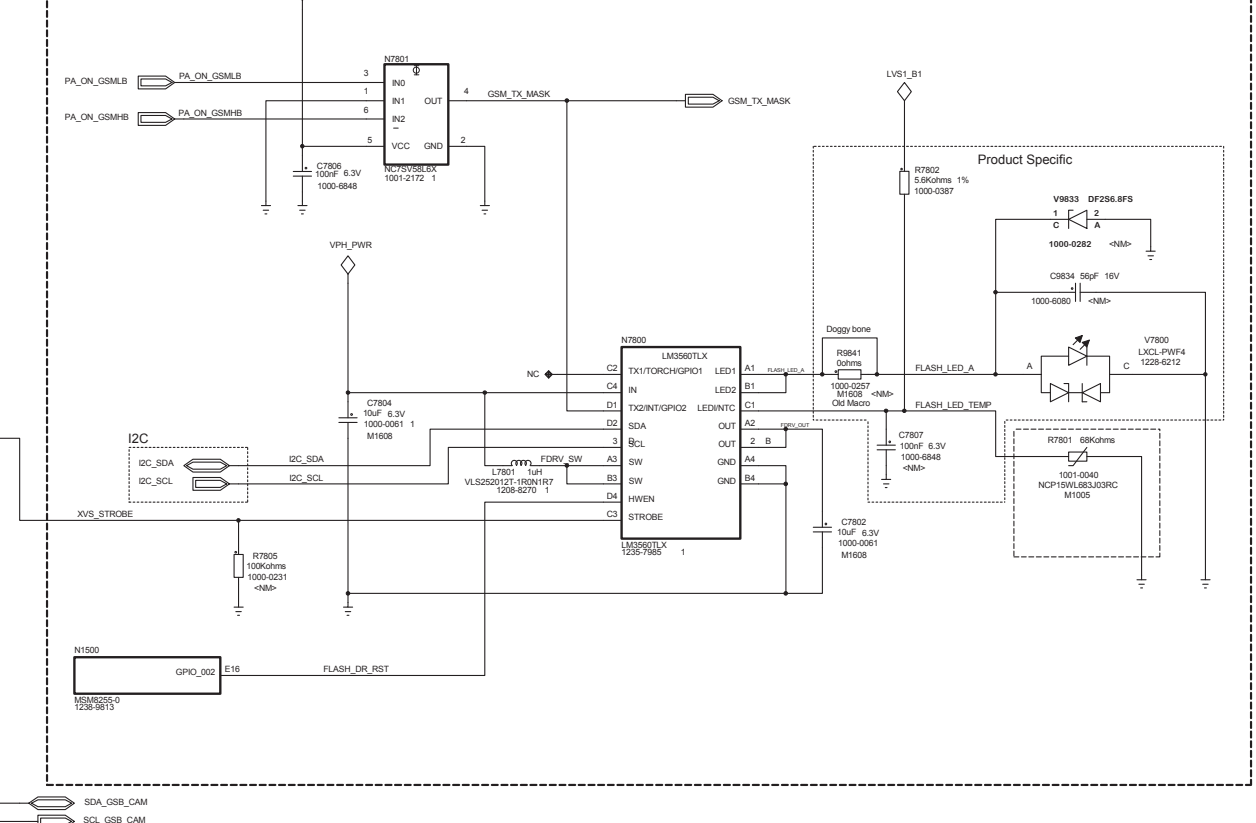
VPH_PWR



Main Camera - 7300

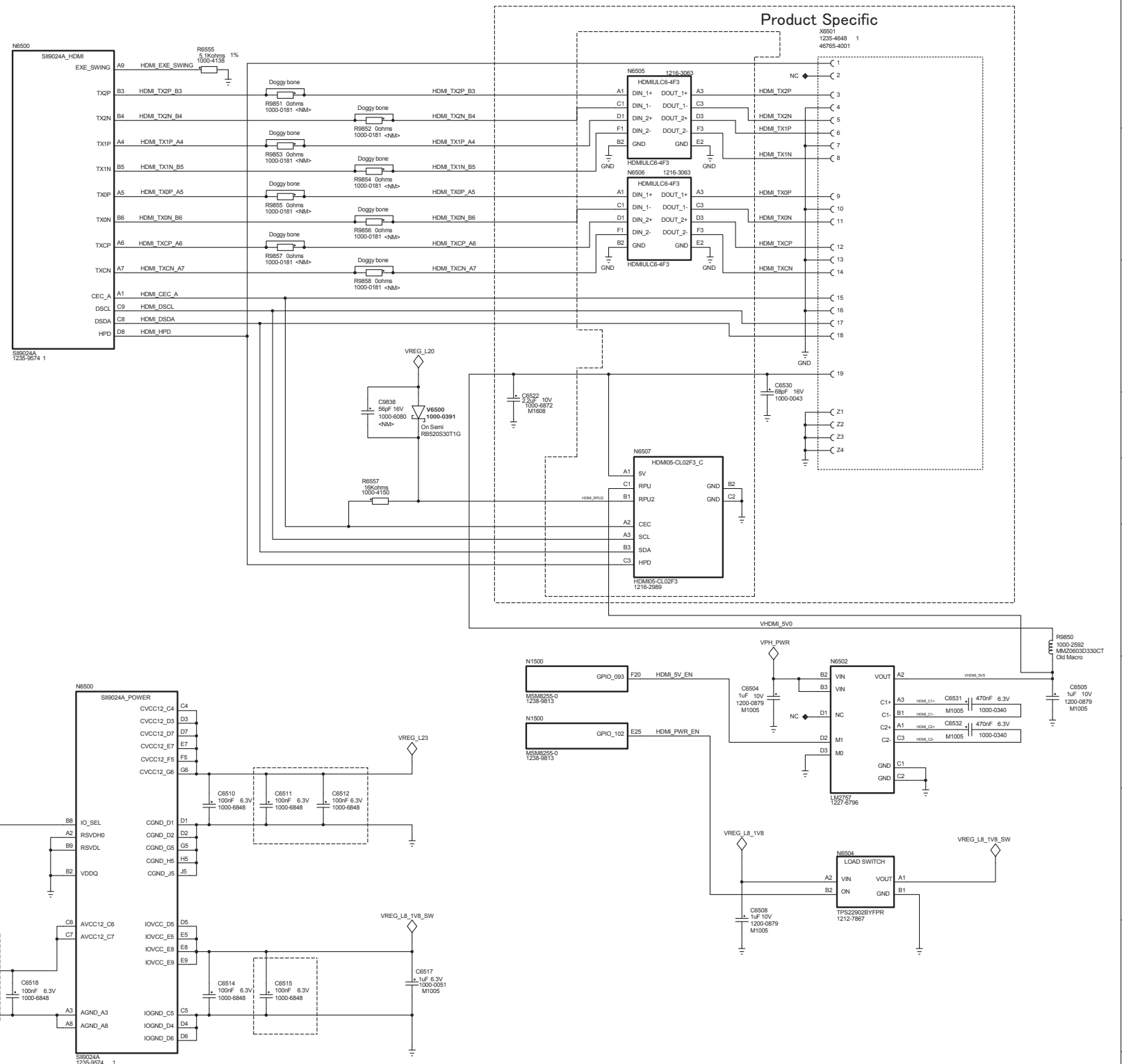
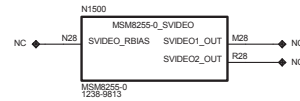
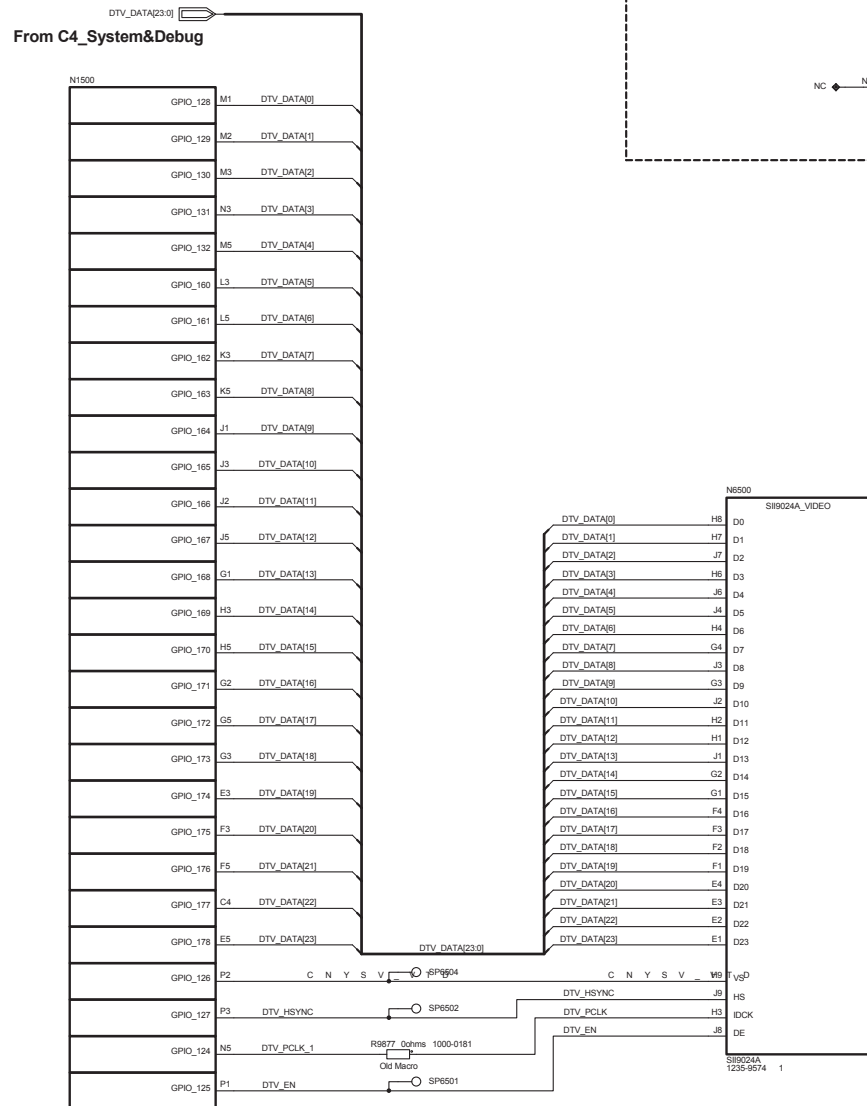


Flash LED Driver - 7800



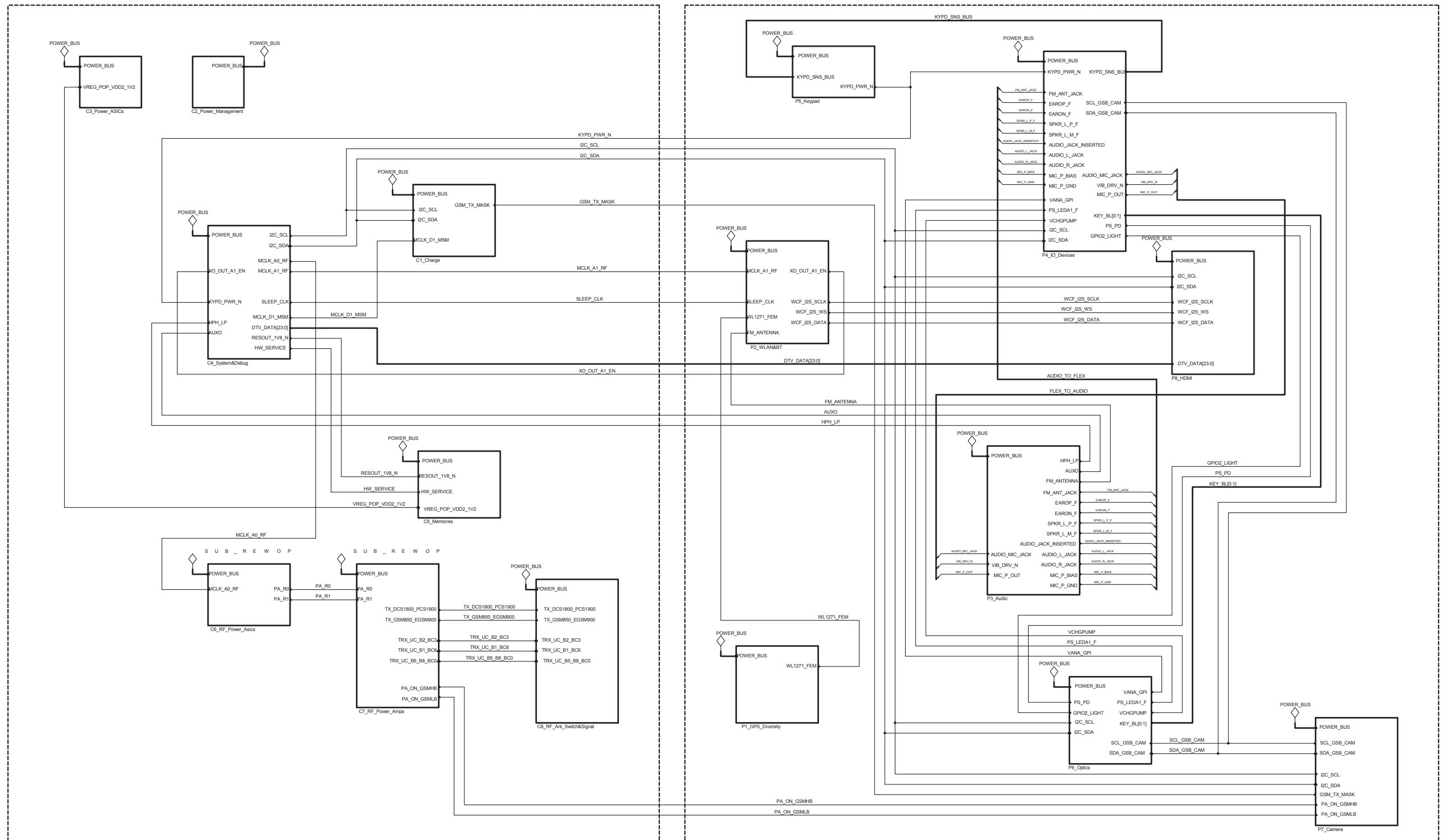
HDMI - 6500

Analog TV_Out - 6400

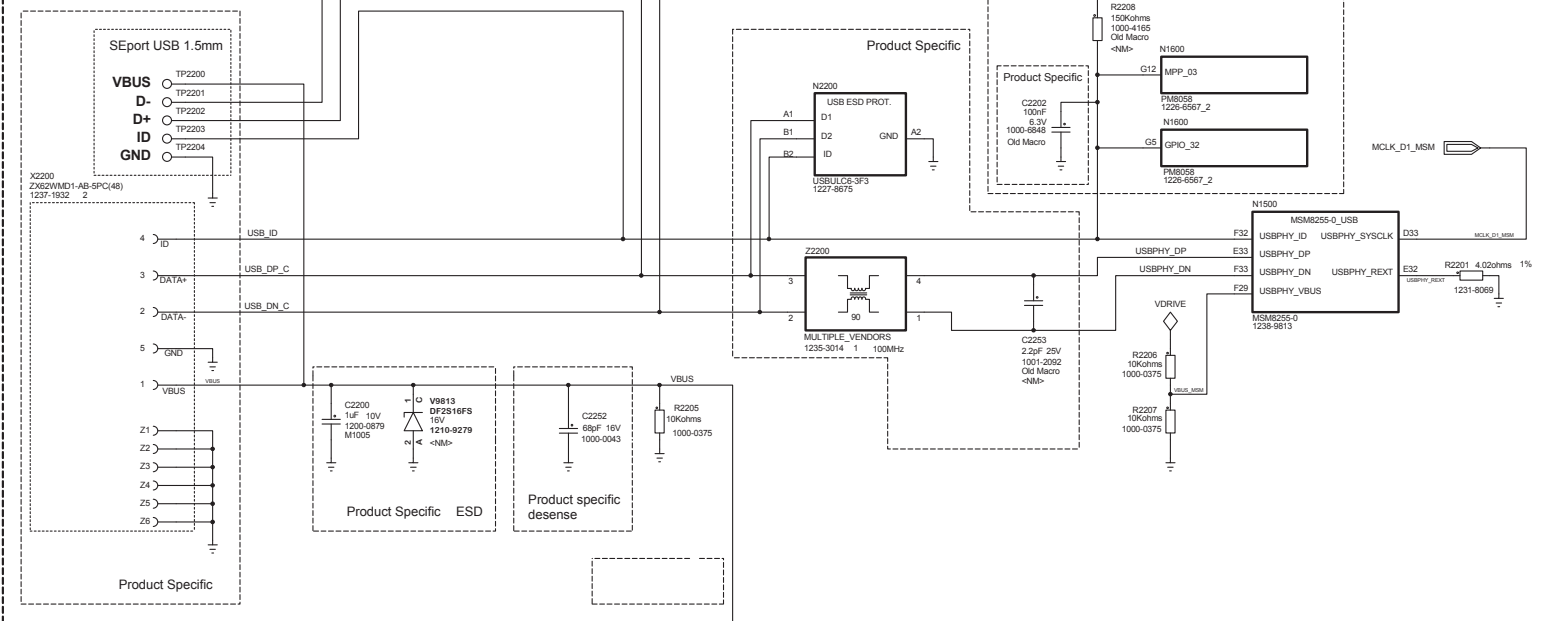


Core

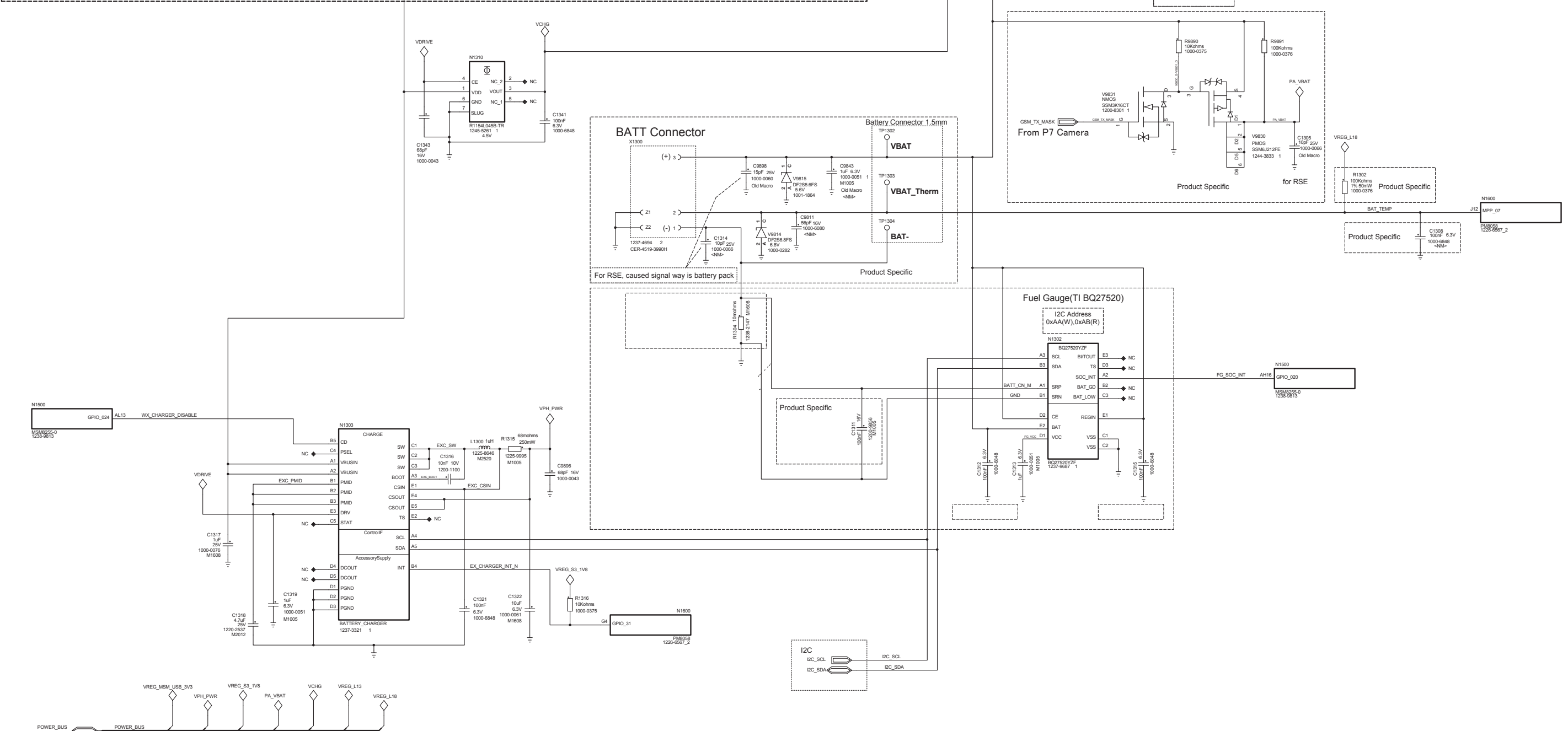
Peripheral



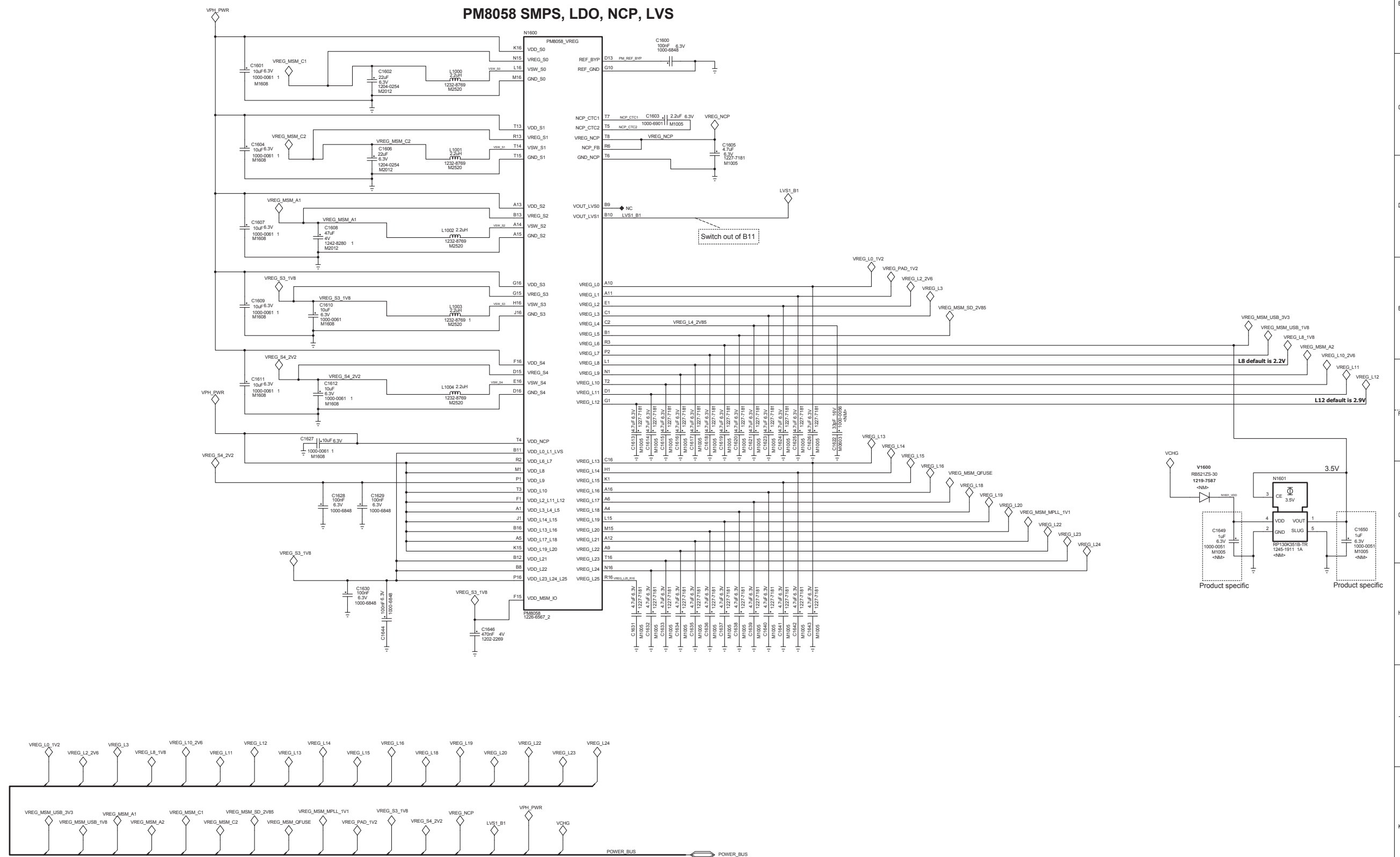
USB - 2200

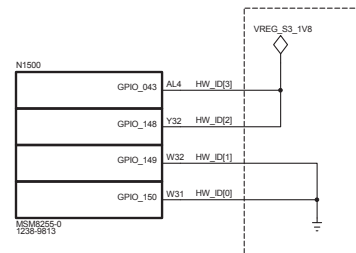
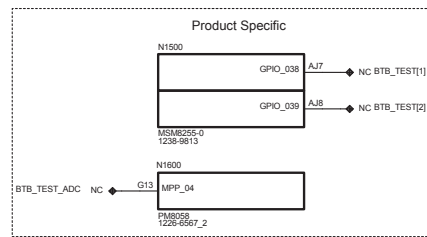
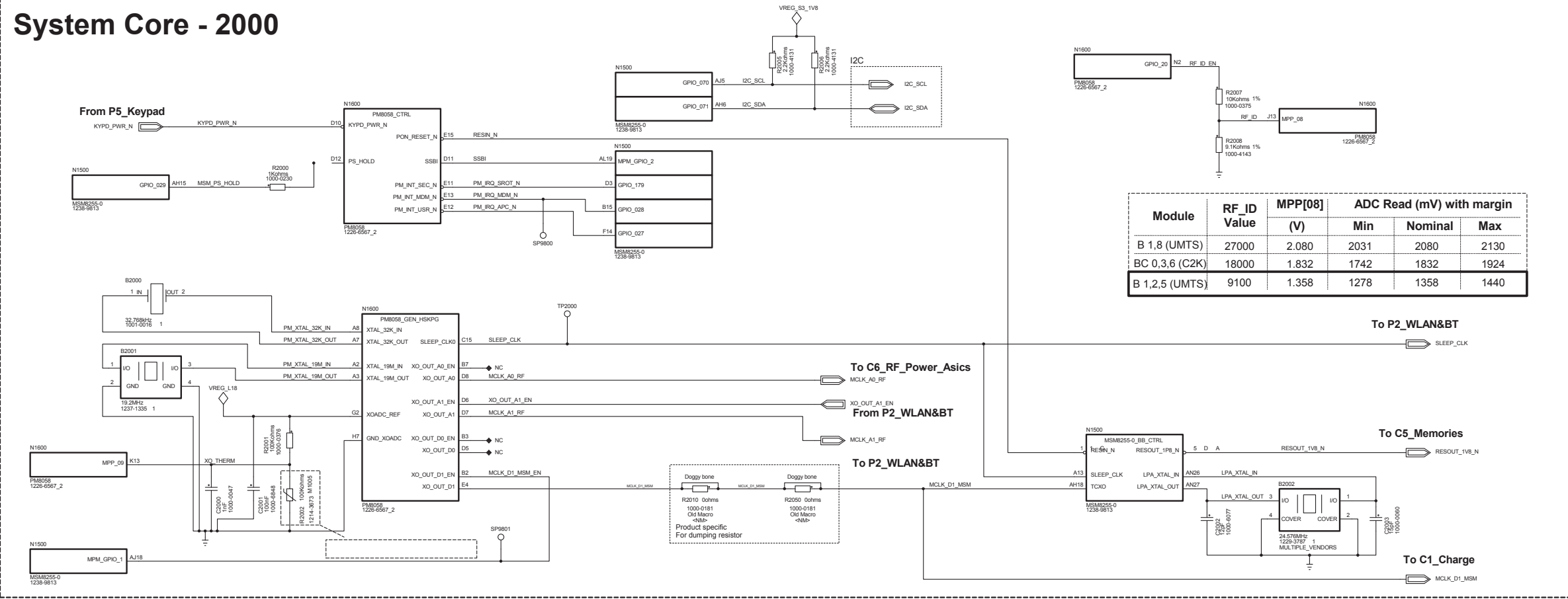


Charging and Battery Management - 1300



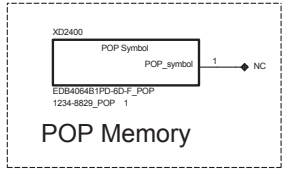
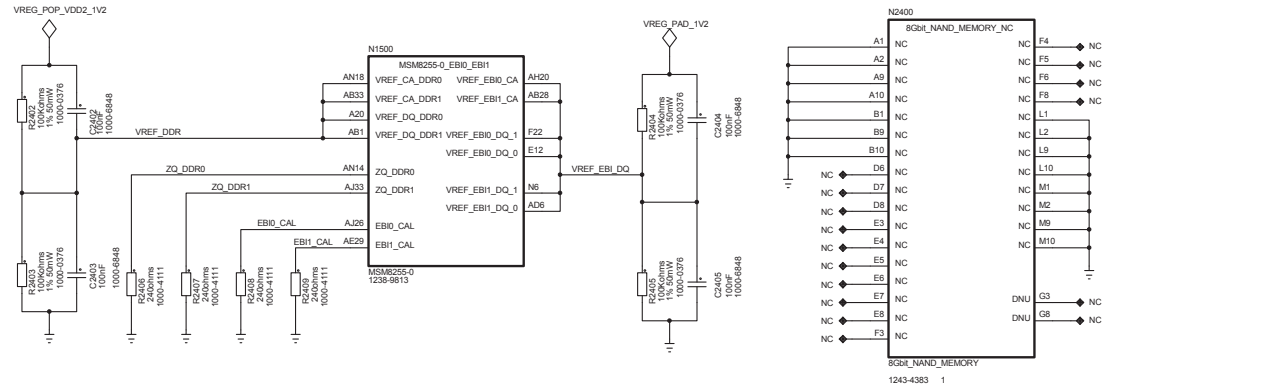
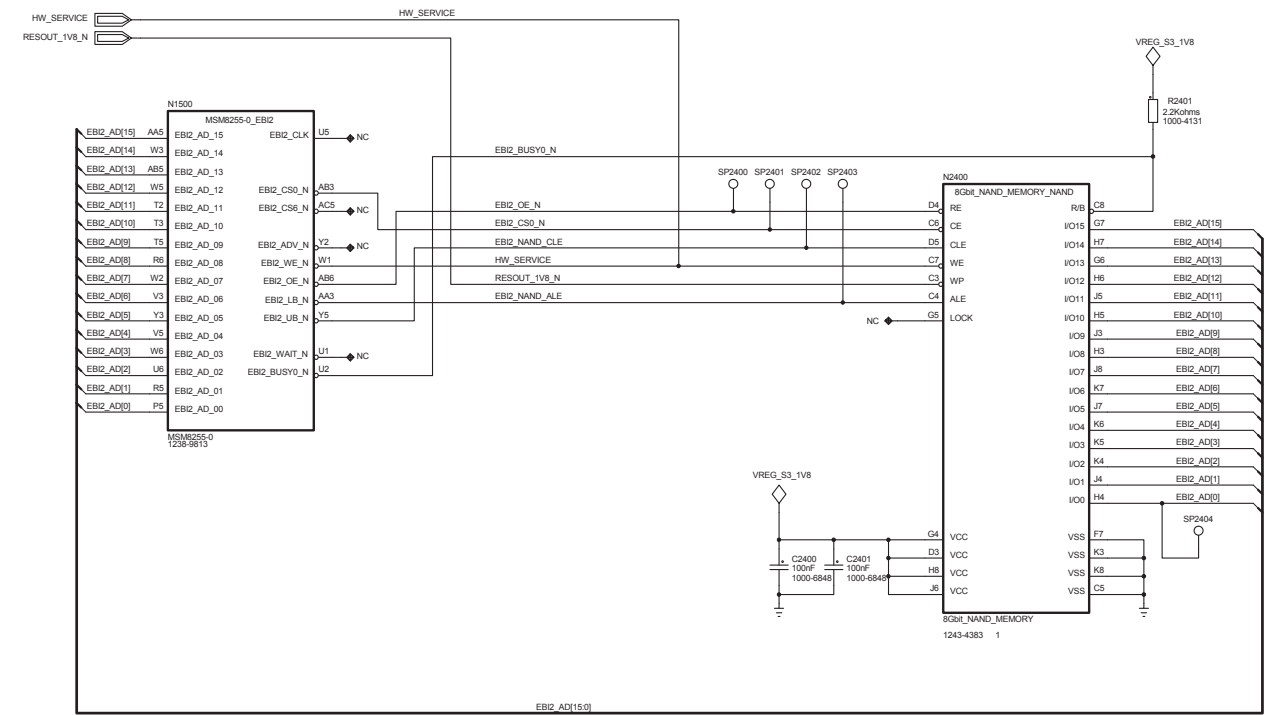
Power Management - 1000



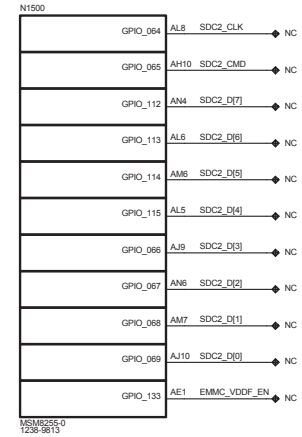


Memory - 2400

From C4_System&Debug



eMMC - 4200



Product Specific

UMTS-radio-2900

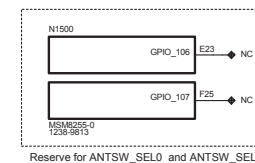
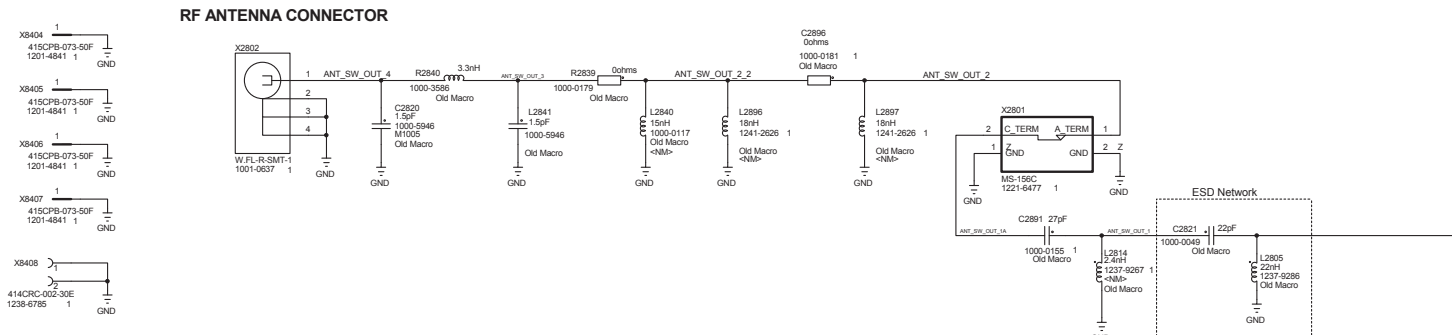
UMTS Band 5/8 Chain

UMTS Band 2 Chain

UMTS Band 1 Chain

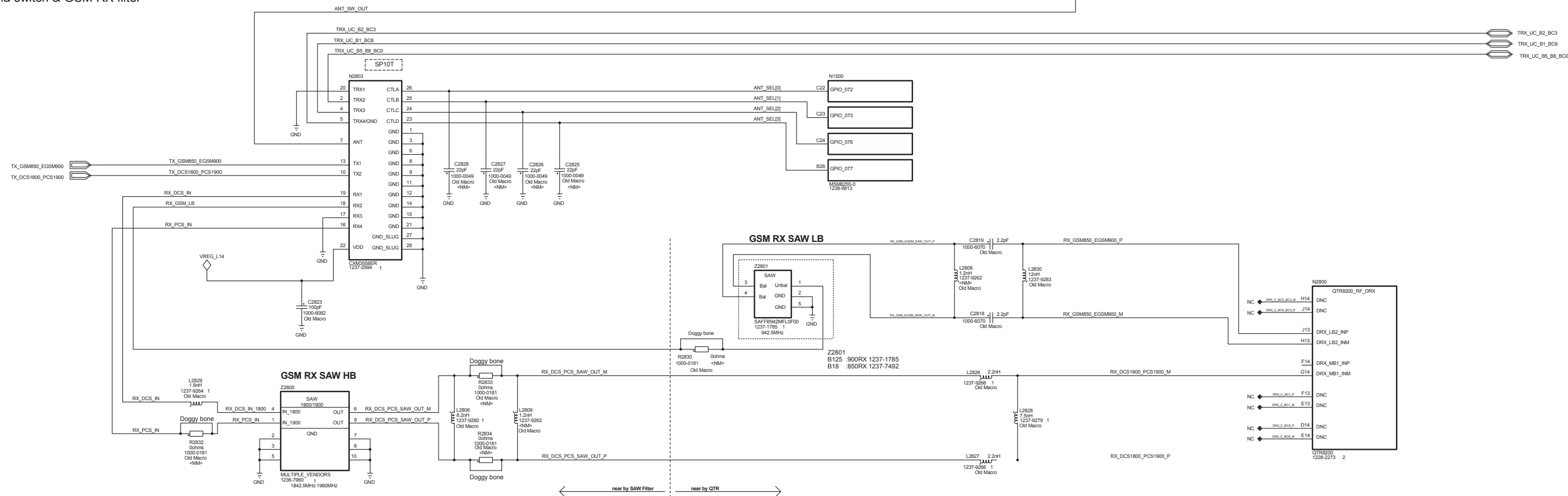
GSM TX Chain

Antenna matching
-2800,9600

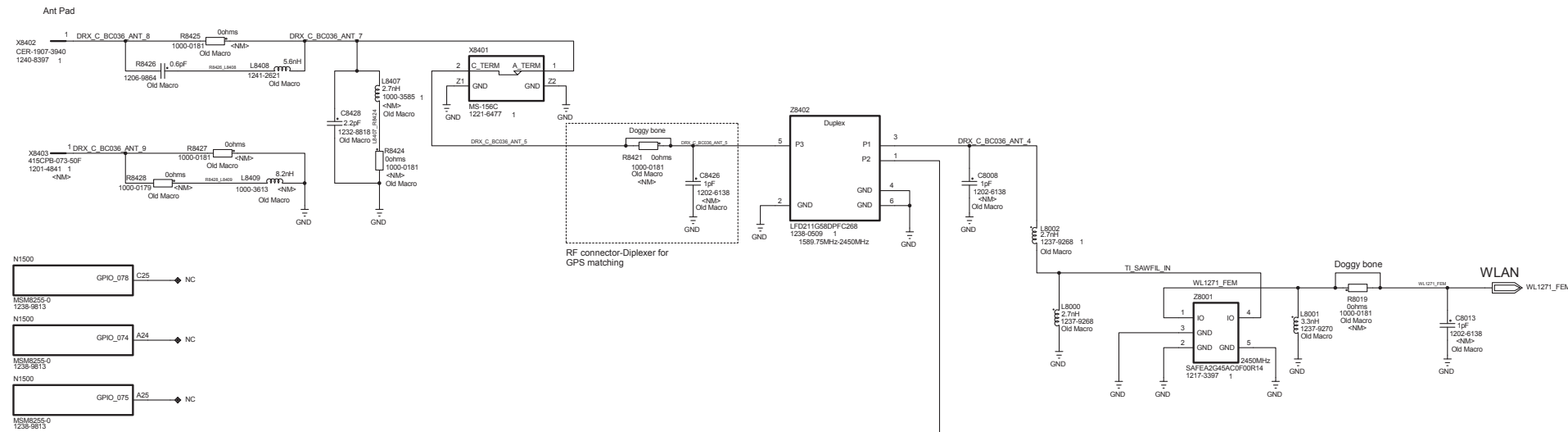
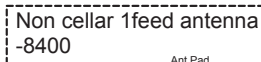


Product Specific

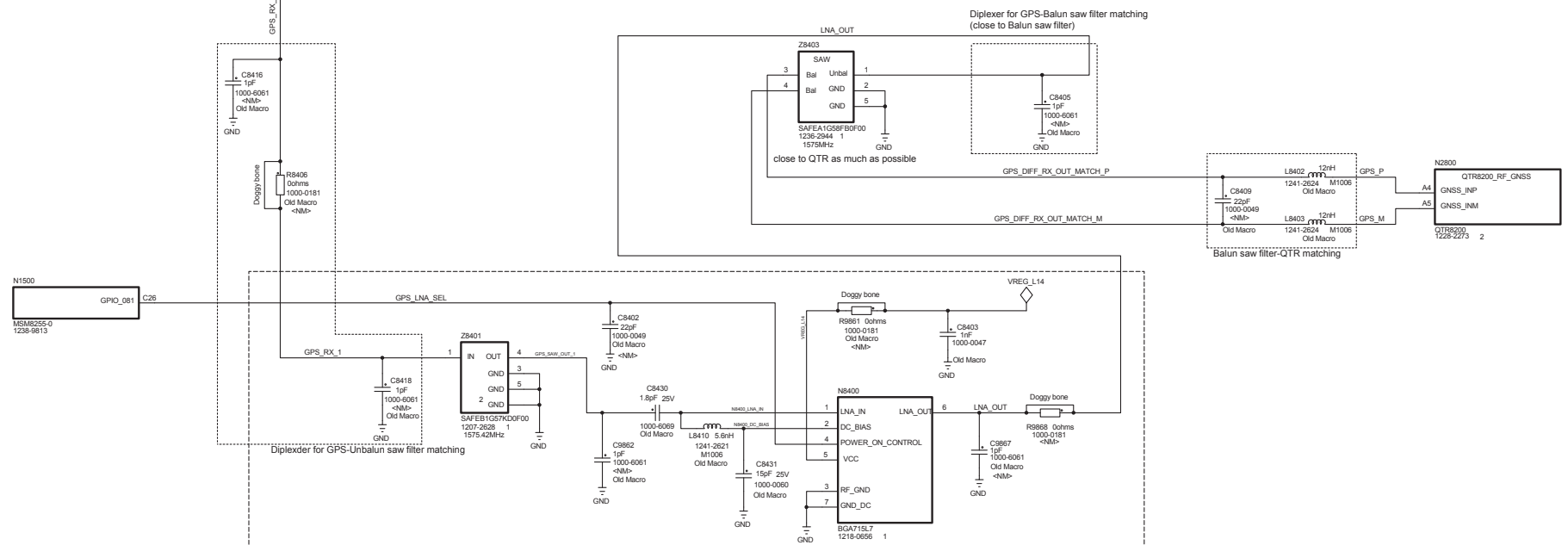
Antenna switch & GSM RX filter
-2800



1 feed Antenna solution for non cellar.



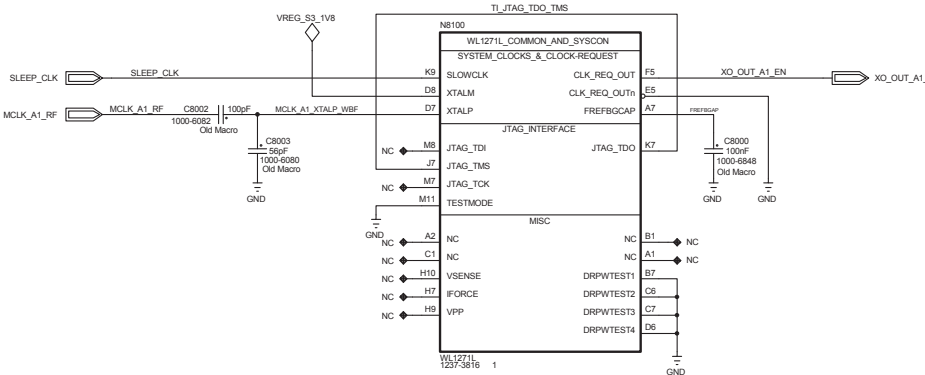
GPS/GNSS_PRIMARY_SYSTEM
-8400



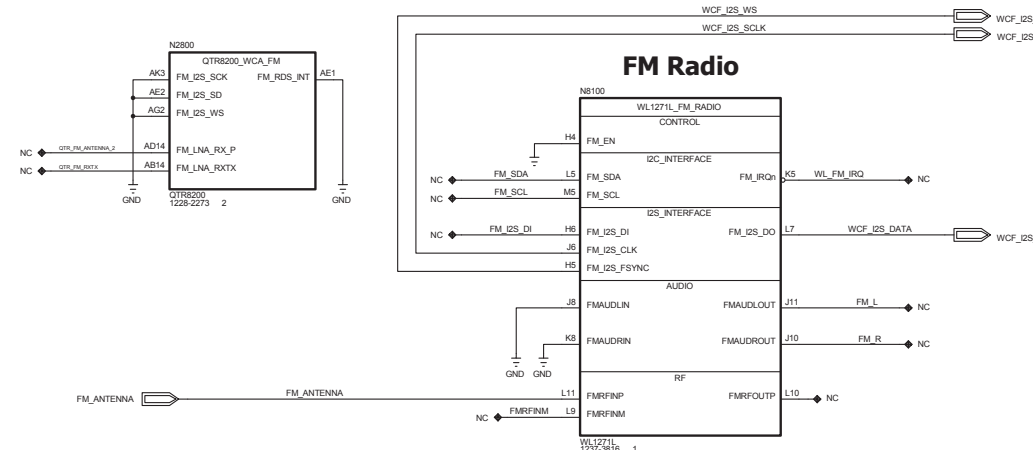
WL1271L WLAN/BT SIGNALS&POWER



SYSCON & Debug

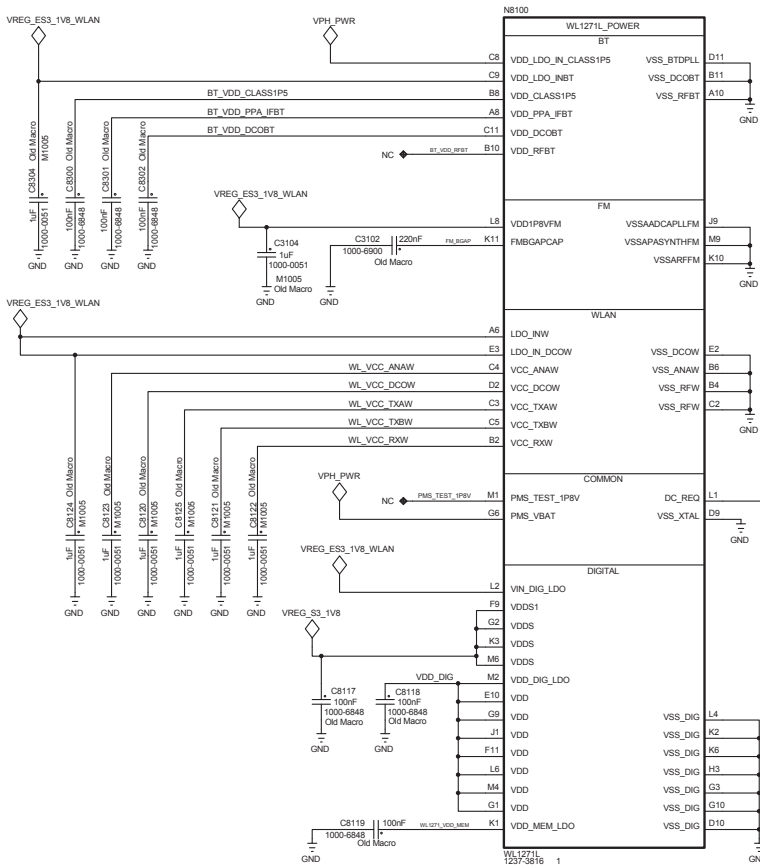


FM Radi
-3100

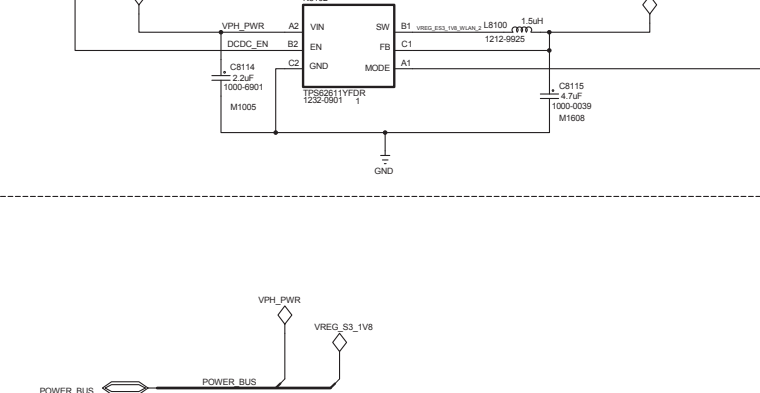


WLAN/BT/FM Power
-8100/8300/3100

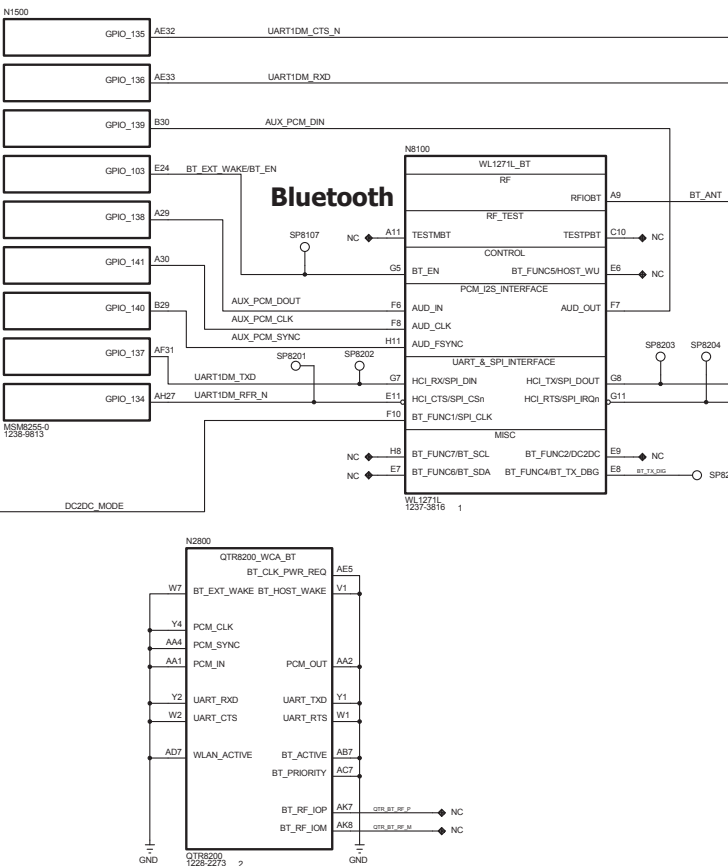
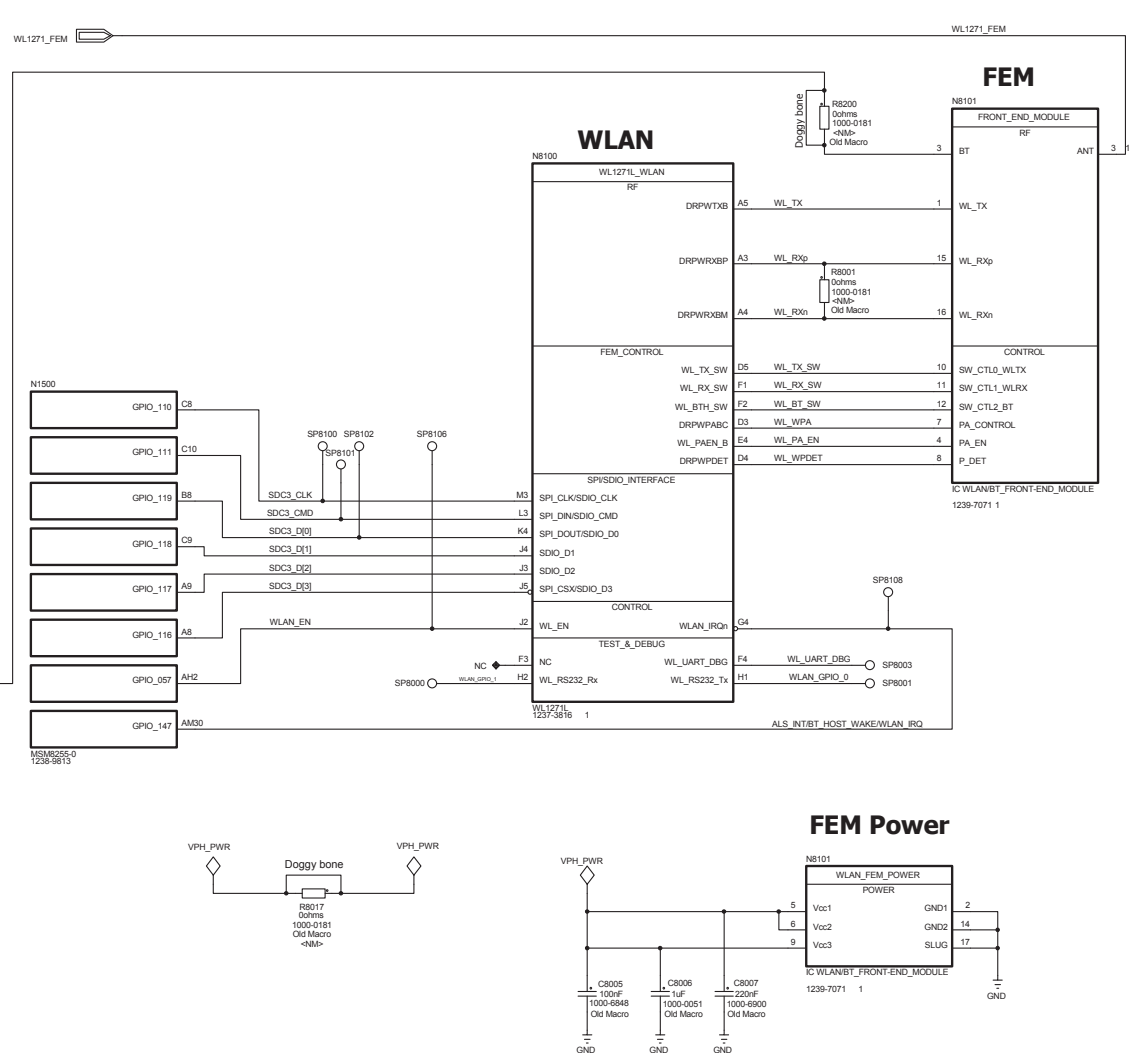
Power Block



WLAN Supply: External Switch (Buck) #3

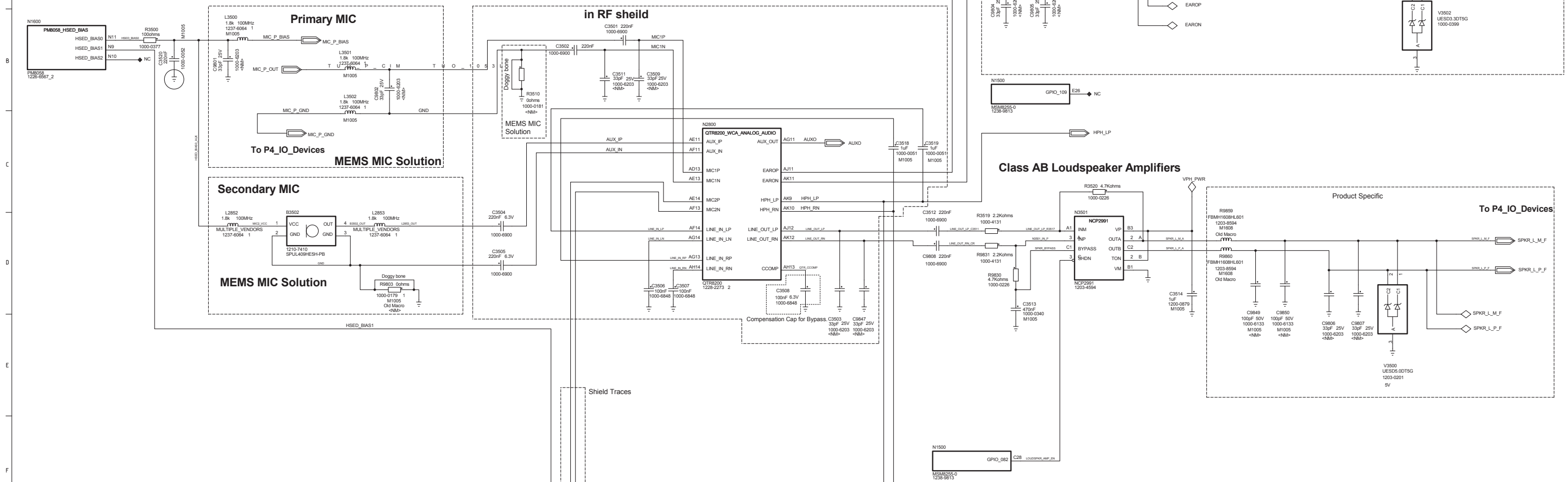


BT Radio
-8200

WLAN Radios
-8000

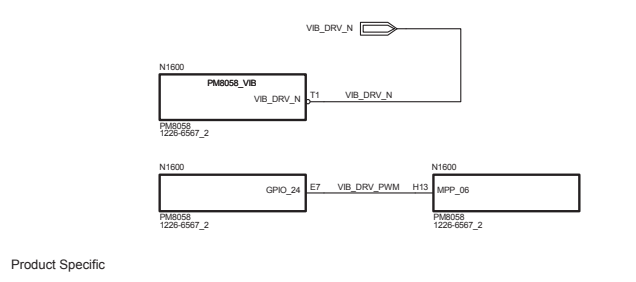
Analog Audio - 3500

Each project can select Mic solution
ECM or MEMS (This part is not CCM)

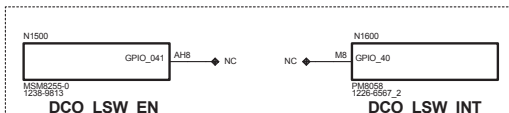
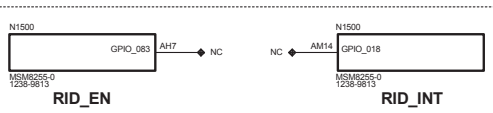
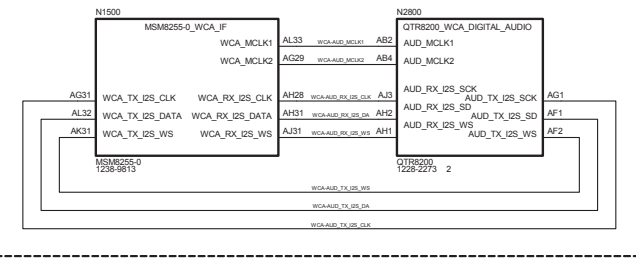


SE-PORT - 3600

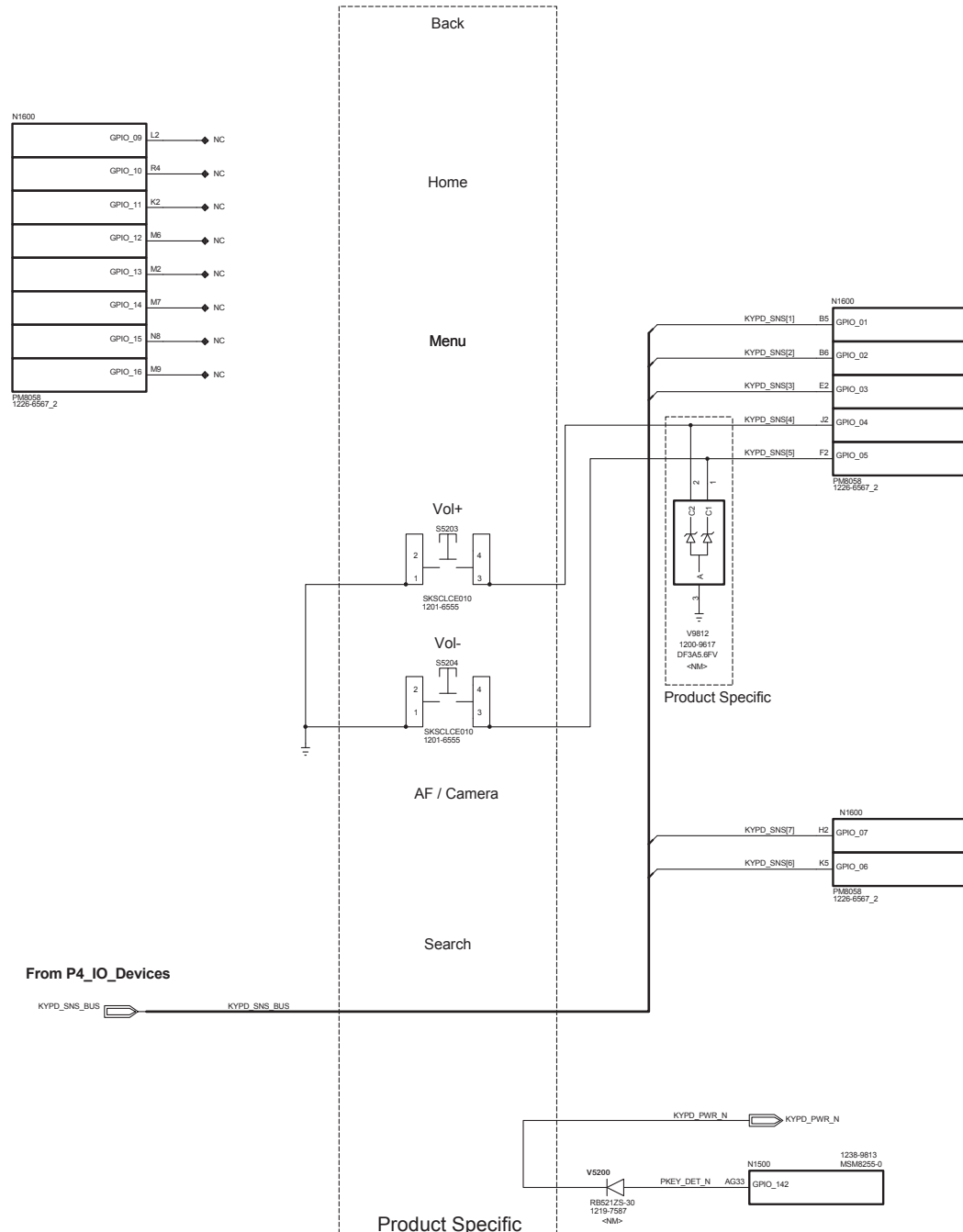
Vibrator - 5100



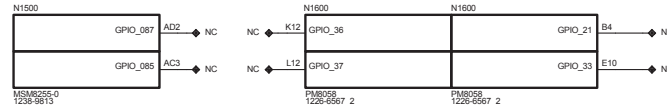
Digital Audio Line



Keyboard - 5200

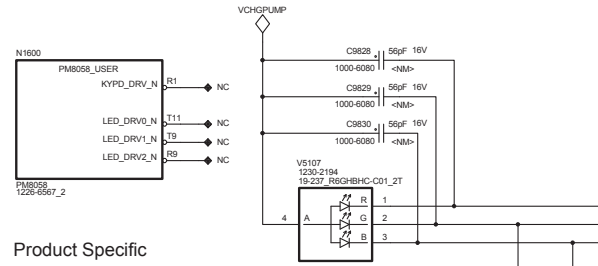


Detach Key I/F



Product Specific

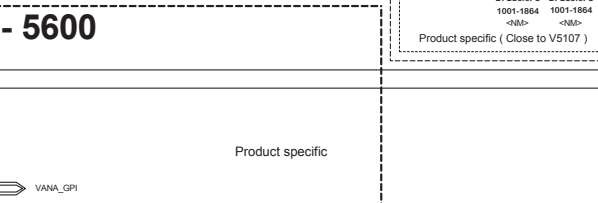
MMI LED - 5100



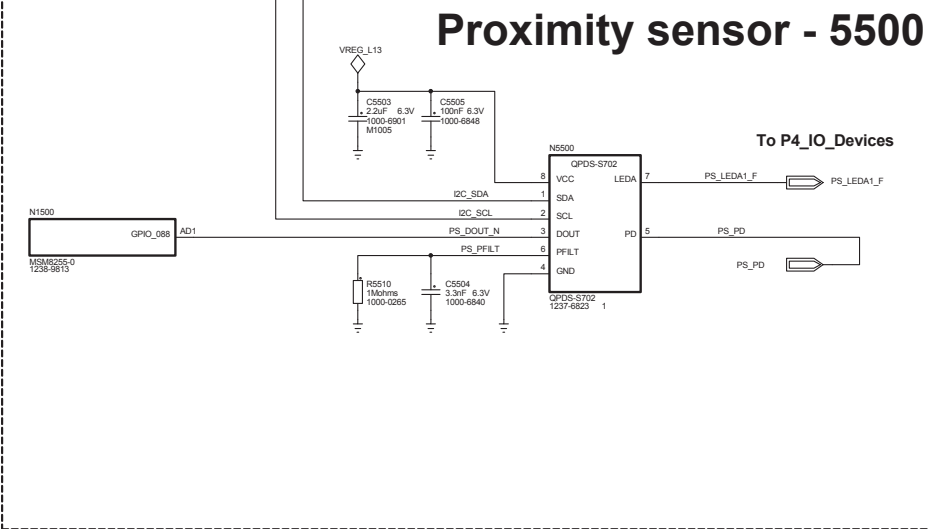
Torch LED - 7800



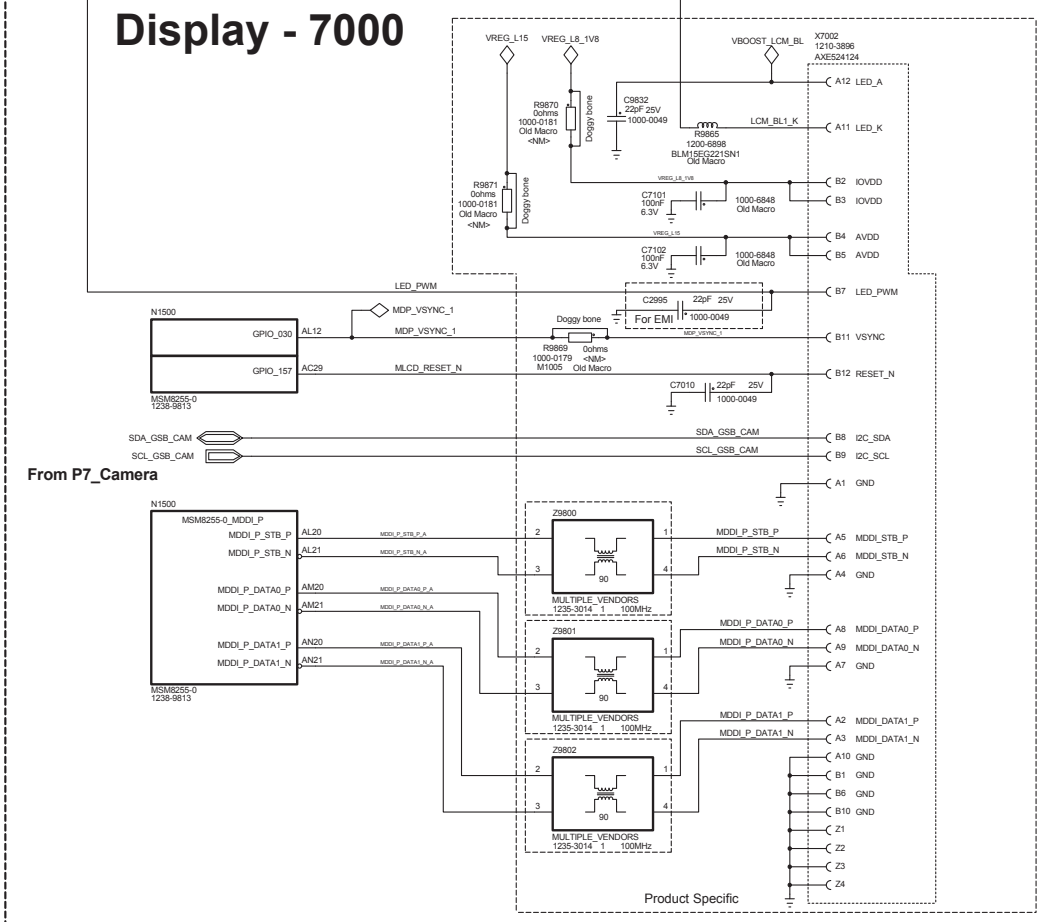
Ambient Light sensor - 5600



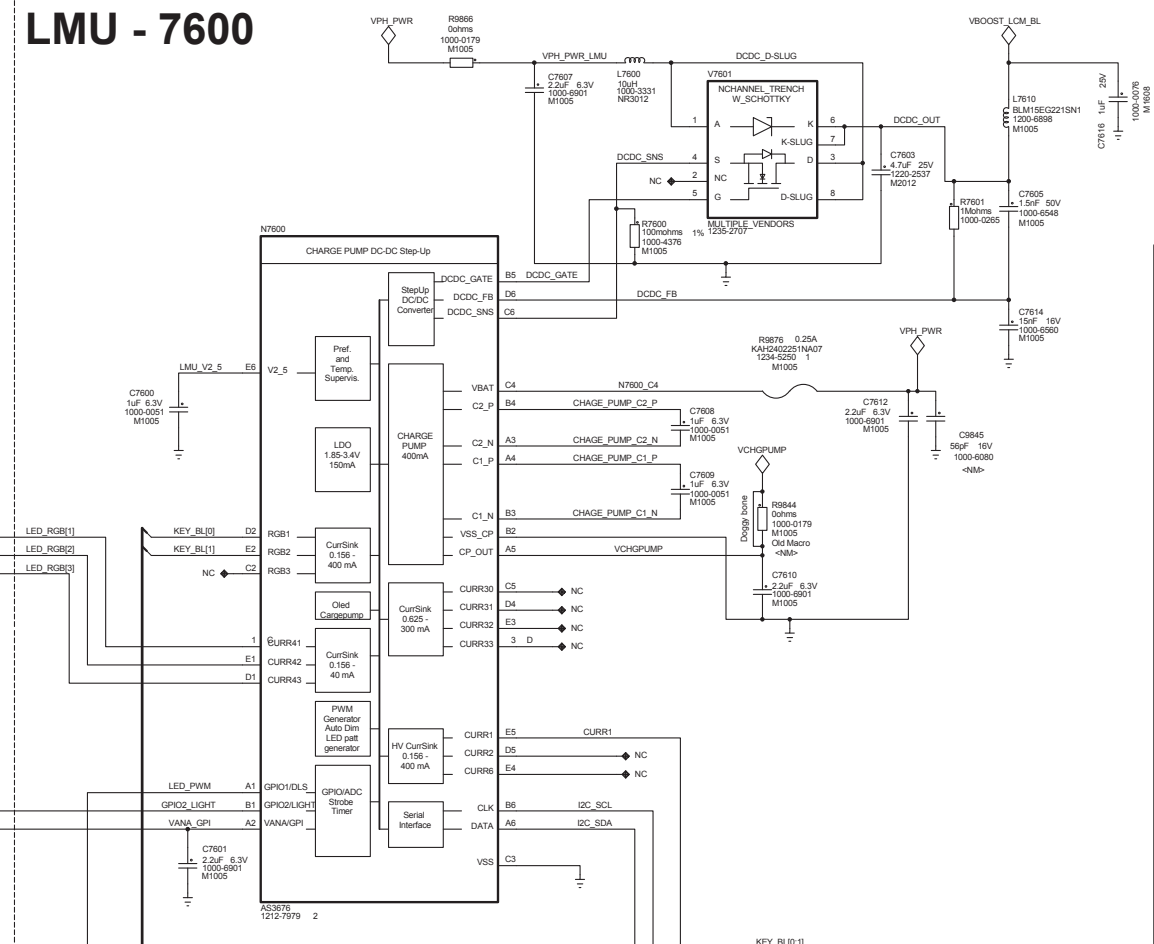
Proximity sensor - 5500



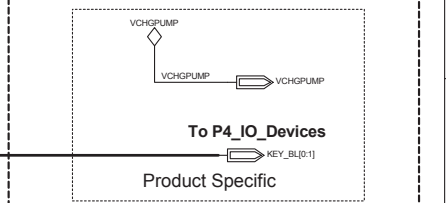
Display - 7000



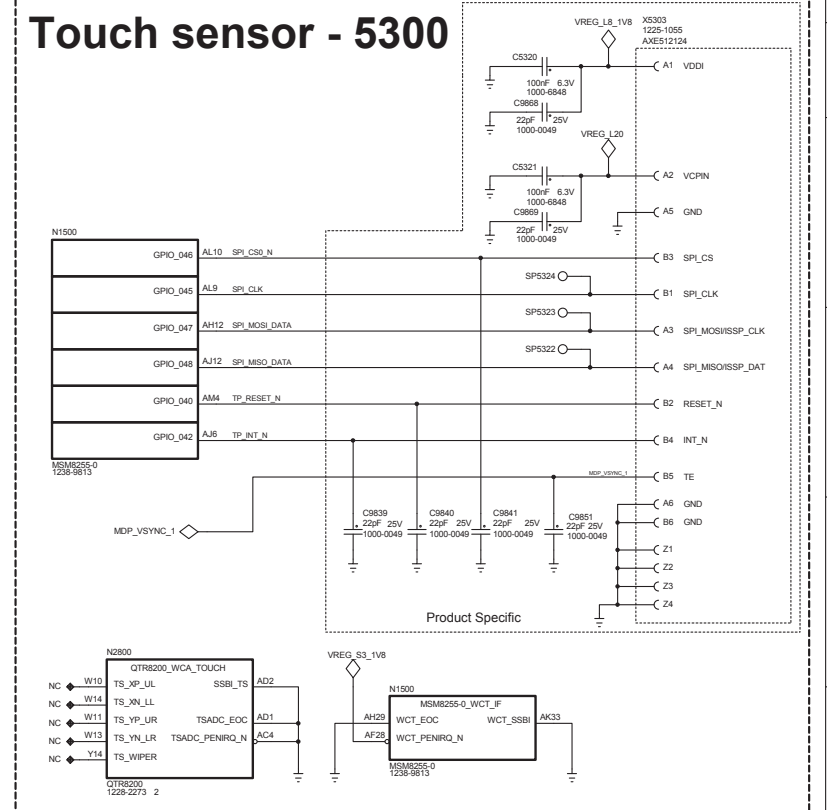
LMU - 7600



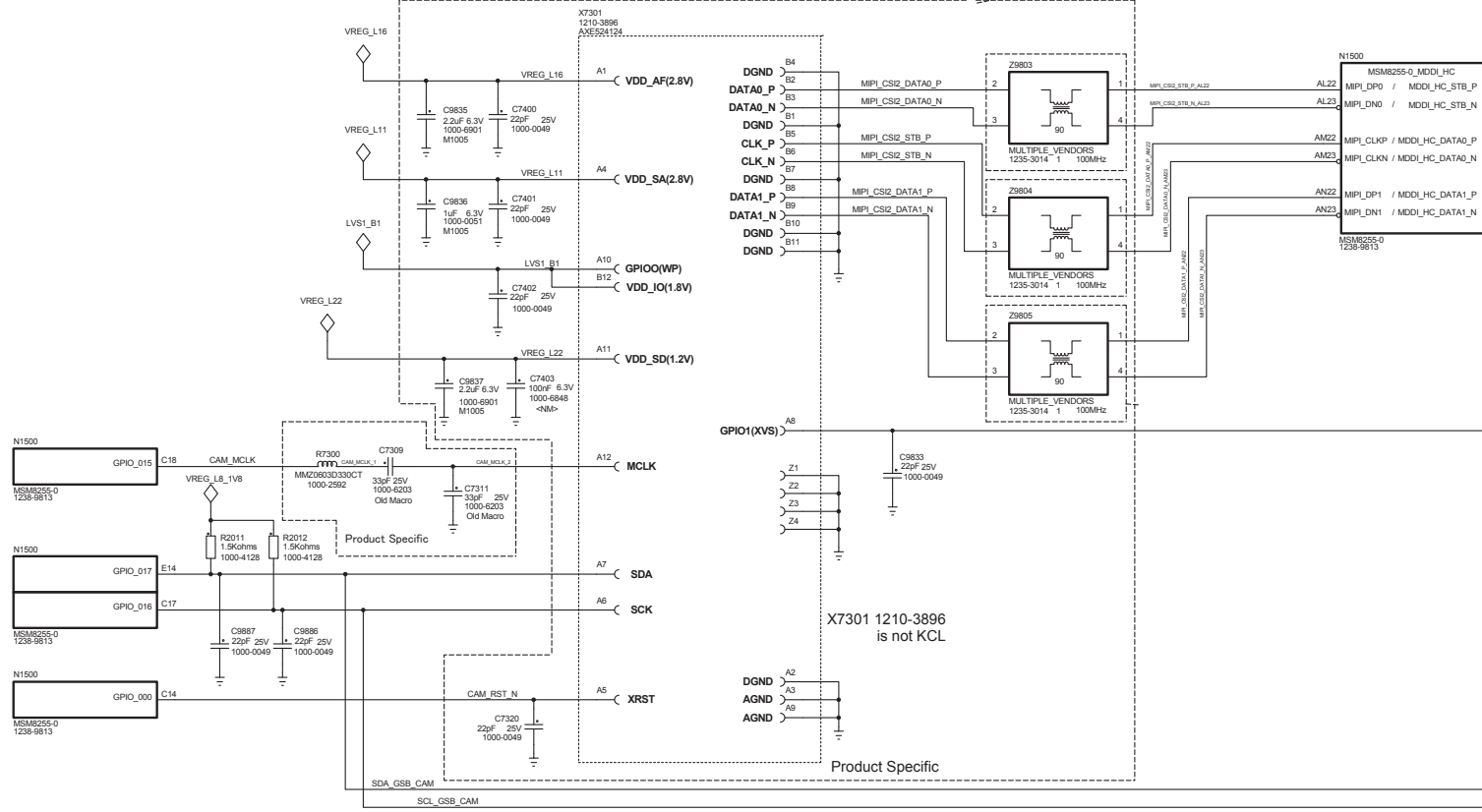
Keyboard (Key Back Light) - 5200



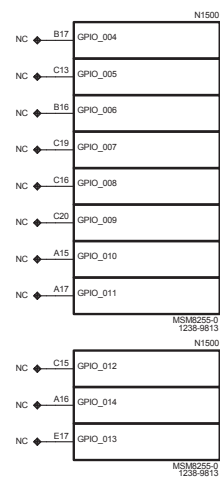
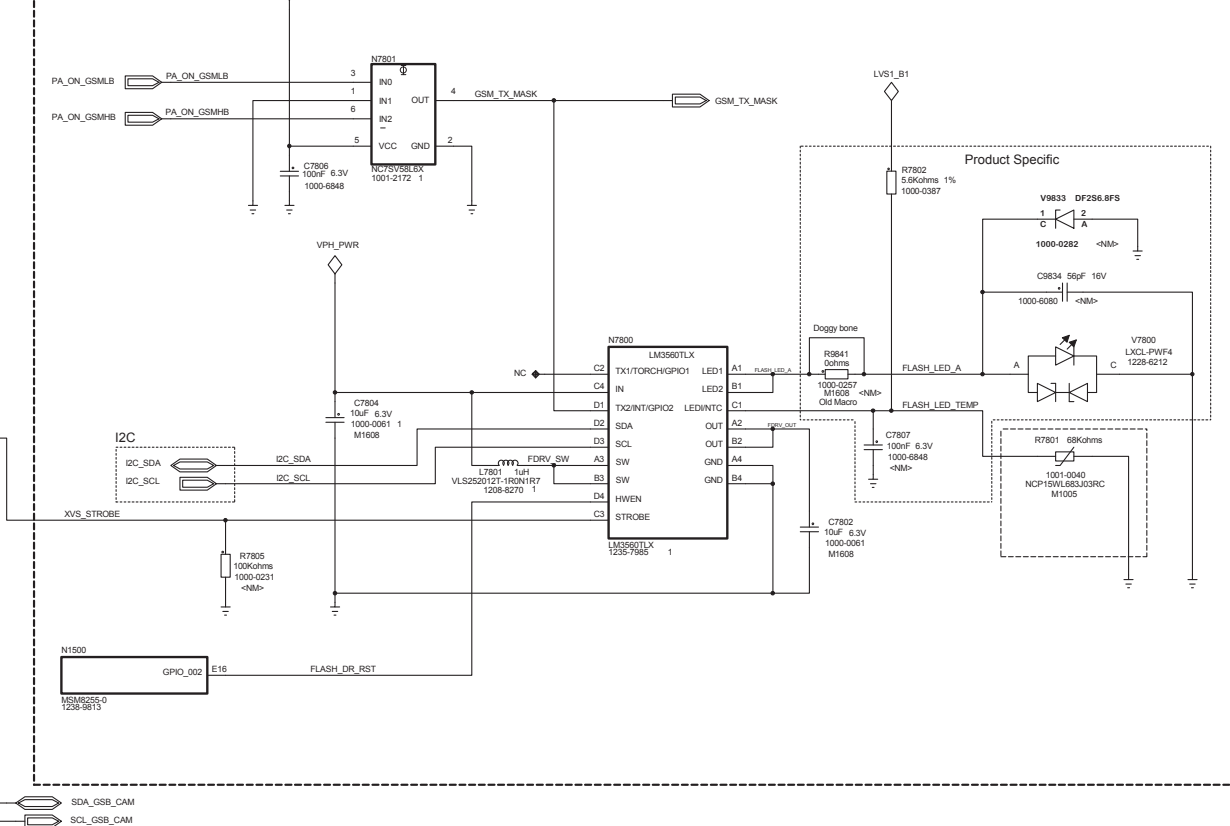
Touch sensor - 5300



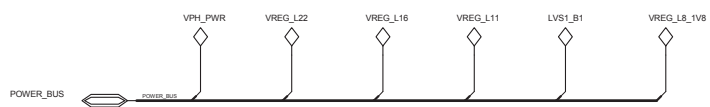
Main Camera - 7300



Flash LED Driver - 7800

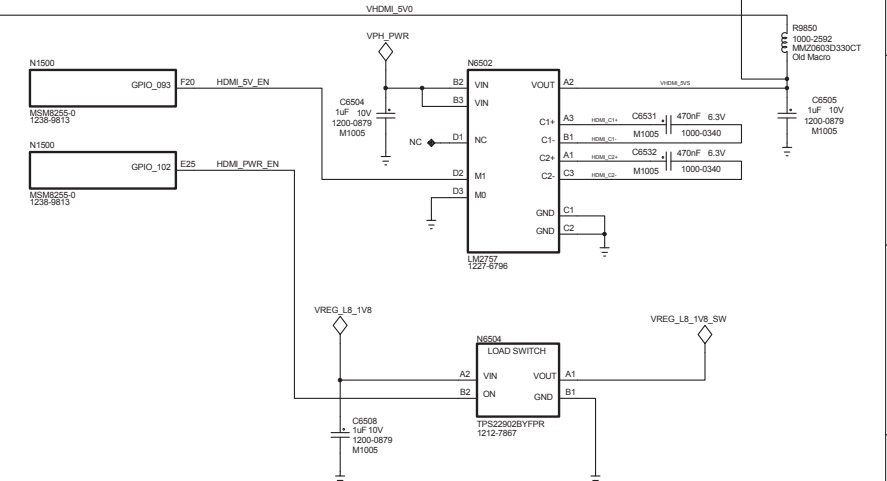
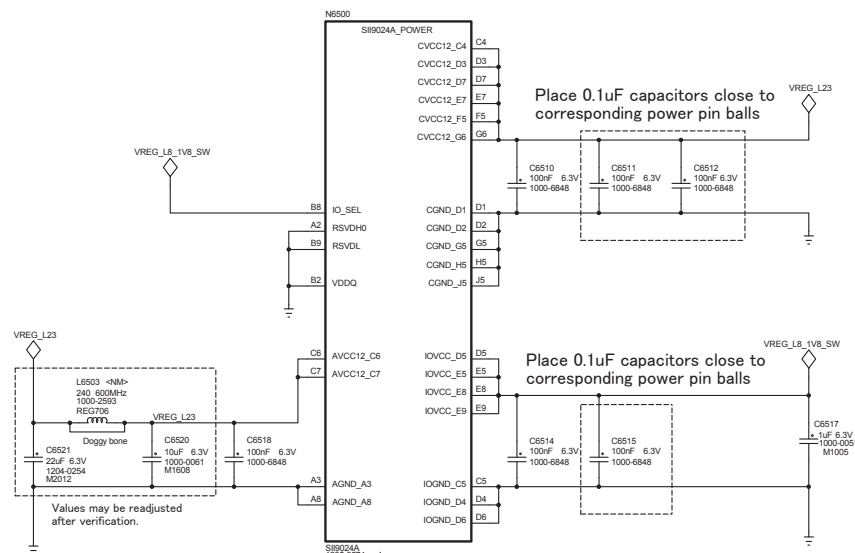
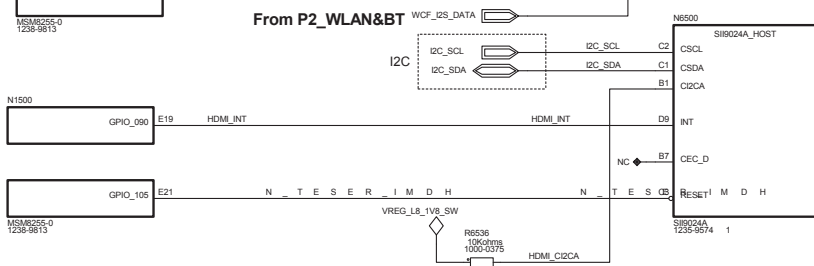
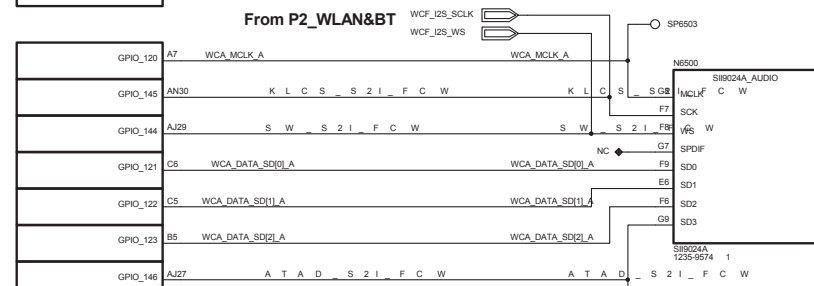
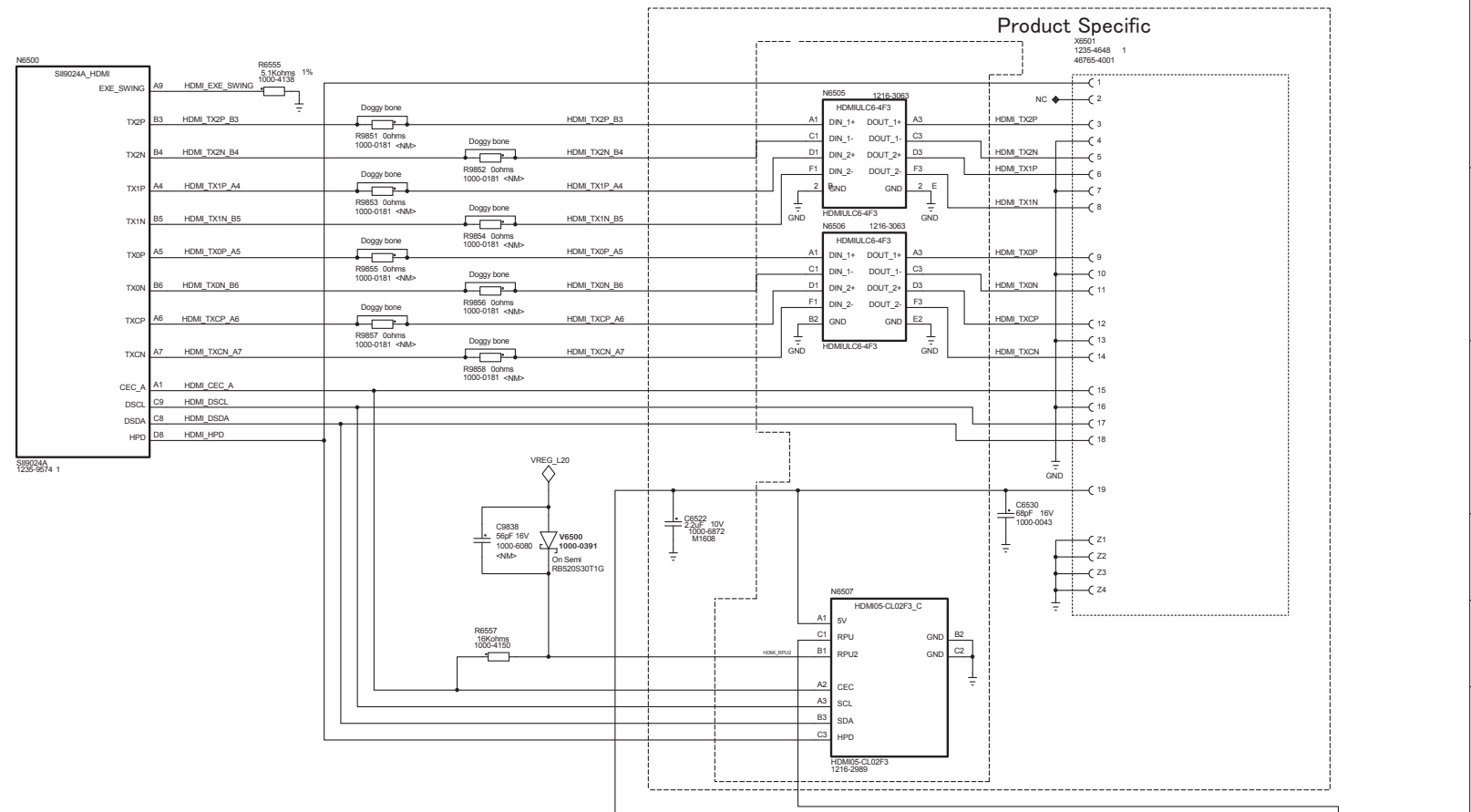
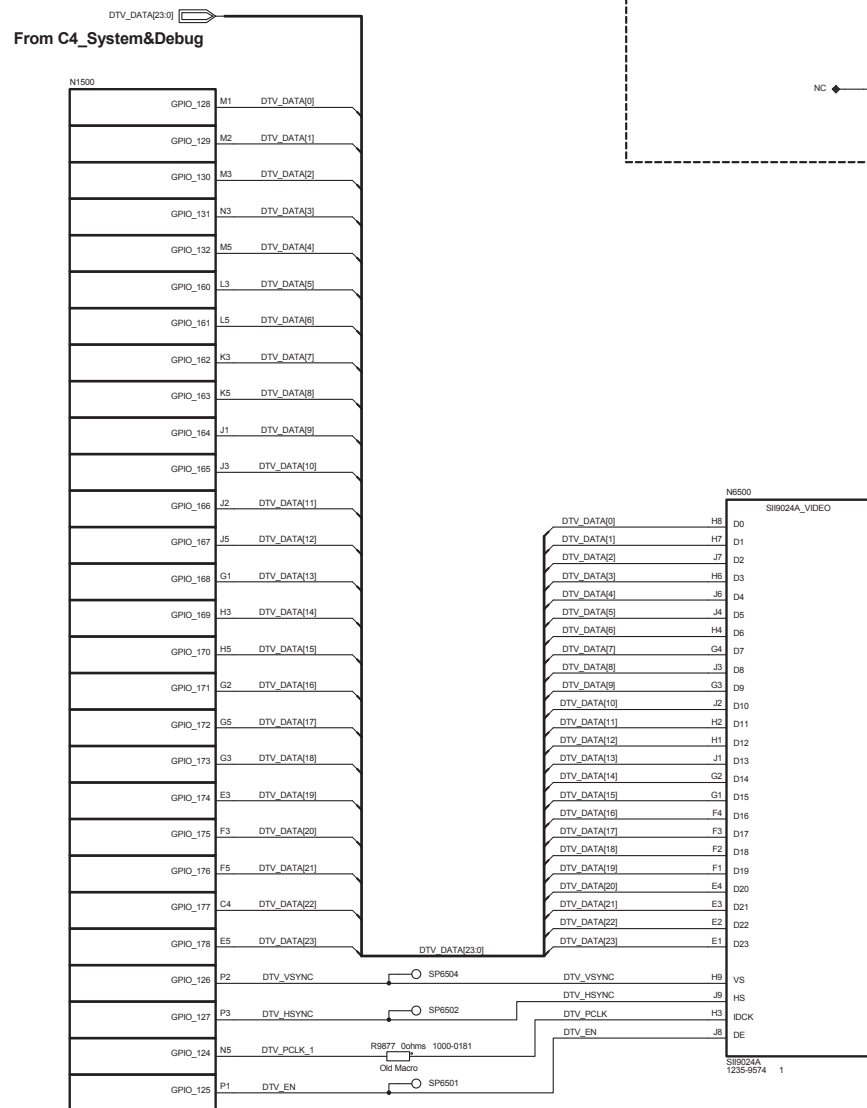
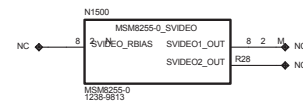


VGA Camera will be replaced to "Hydrogen" of VGA cam projects after KCL selection.



HDMI - 6500

Analog TV_Out - 6400



Revision History

Rev.	Date	Changes / Comments
1	2011-07-01	1 st release
2	2011-09-15	no changes.