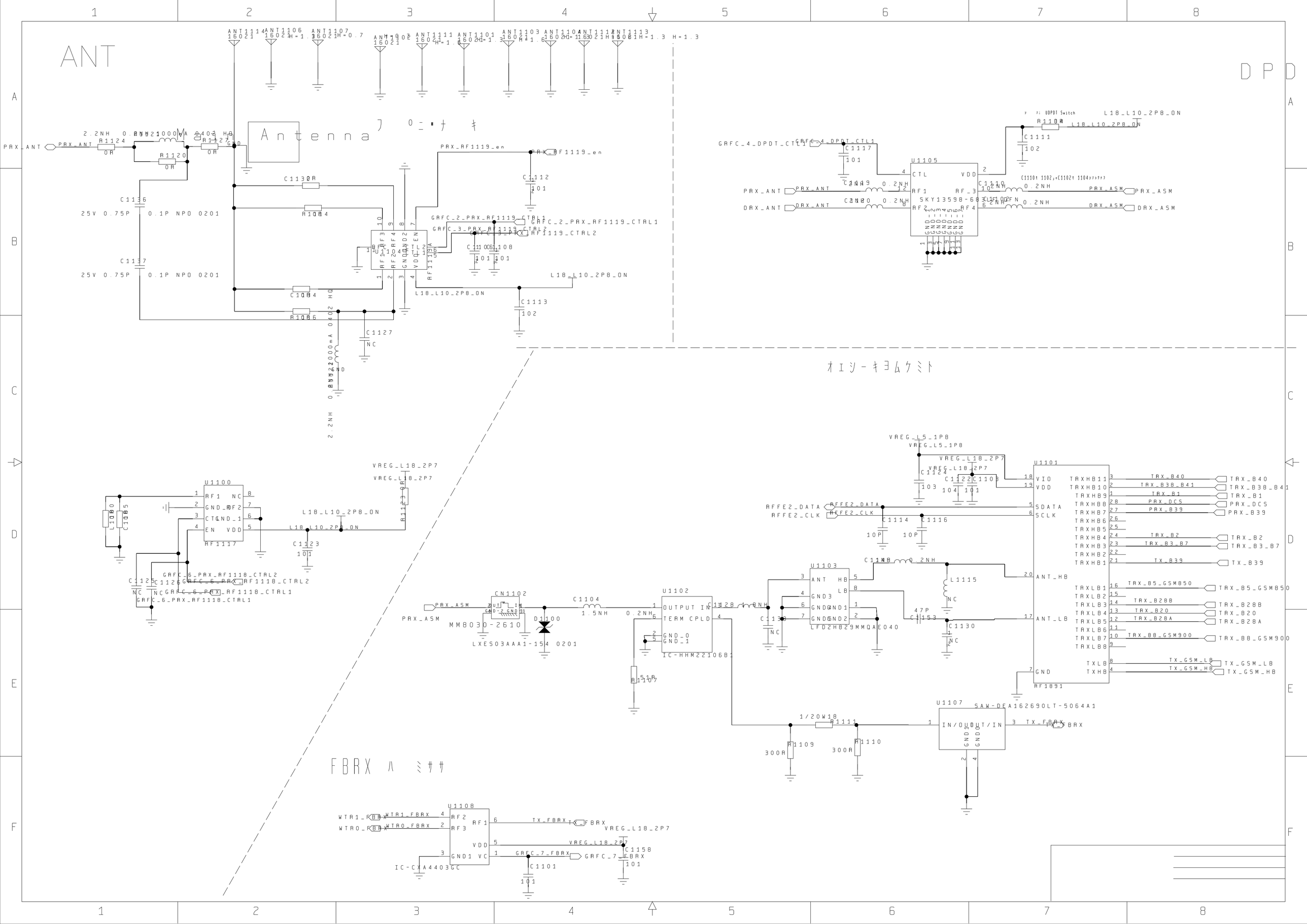
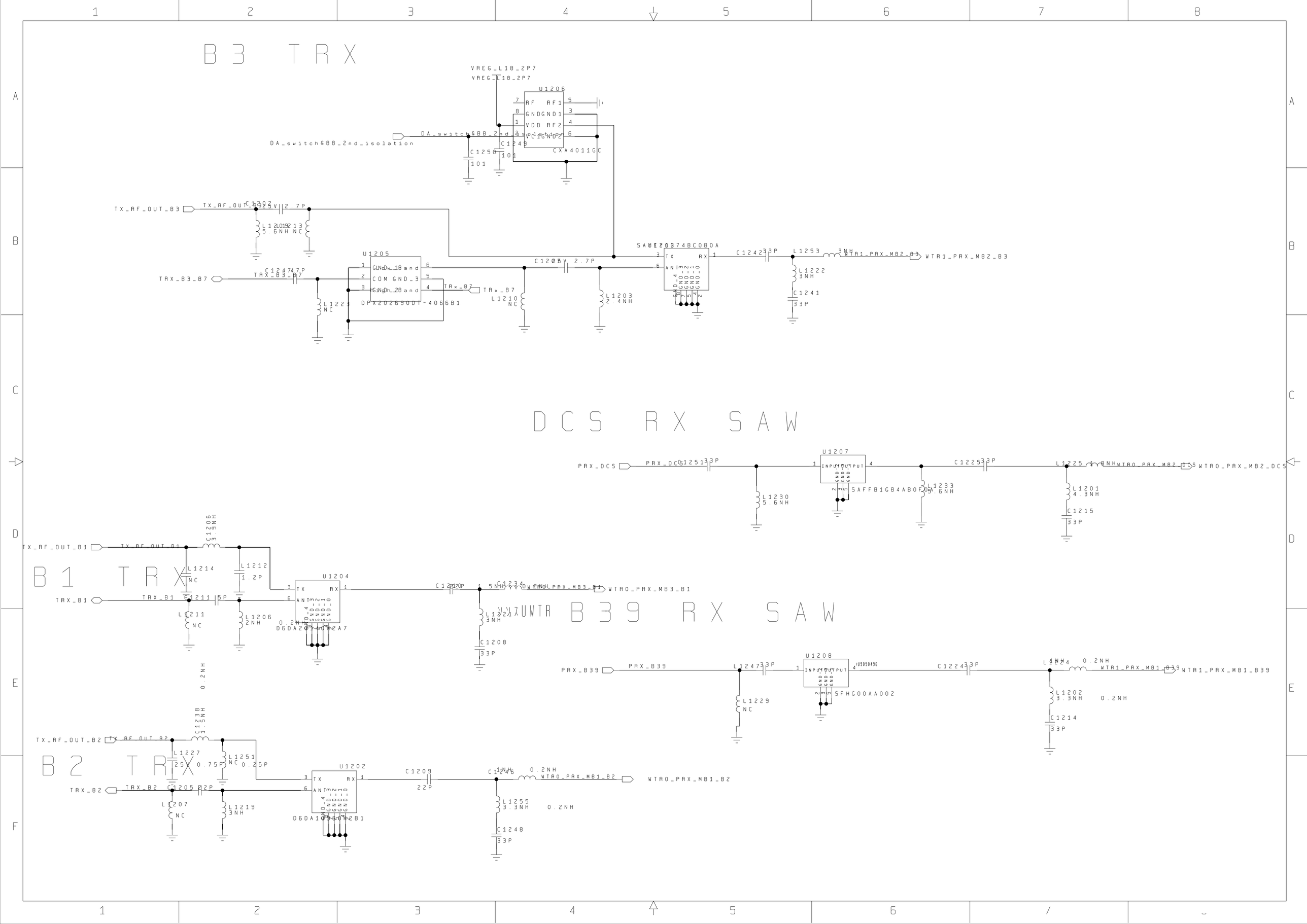
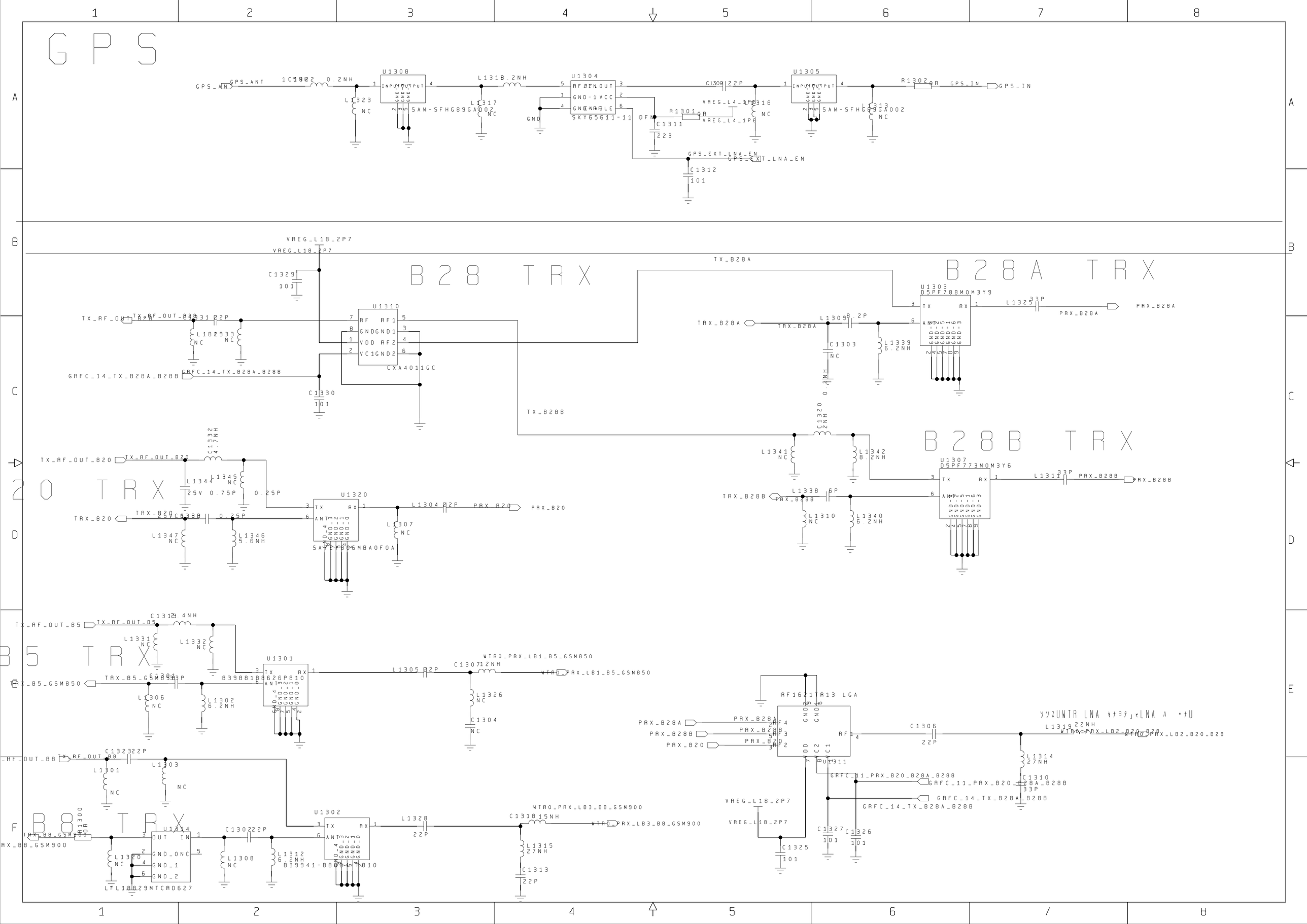
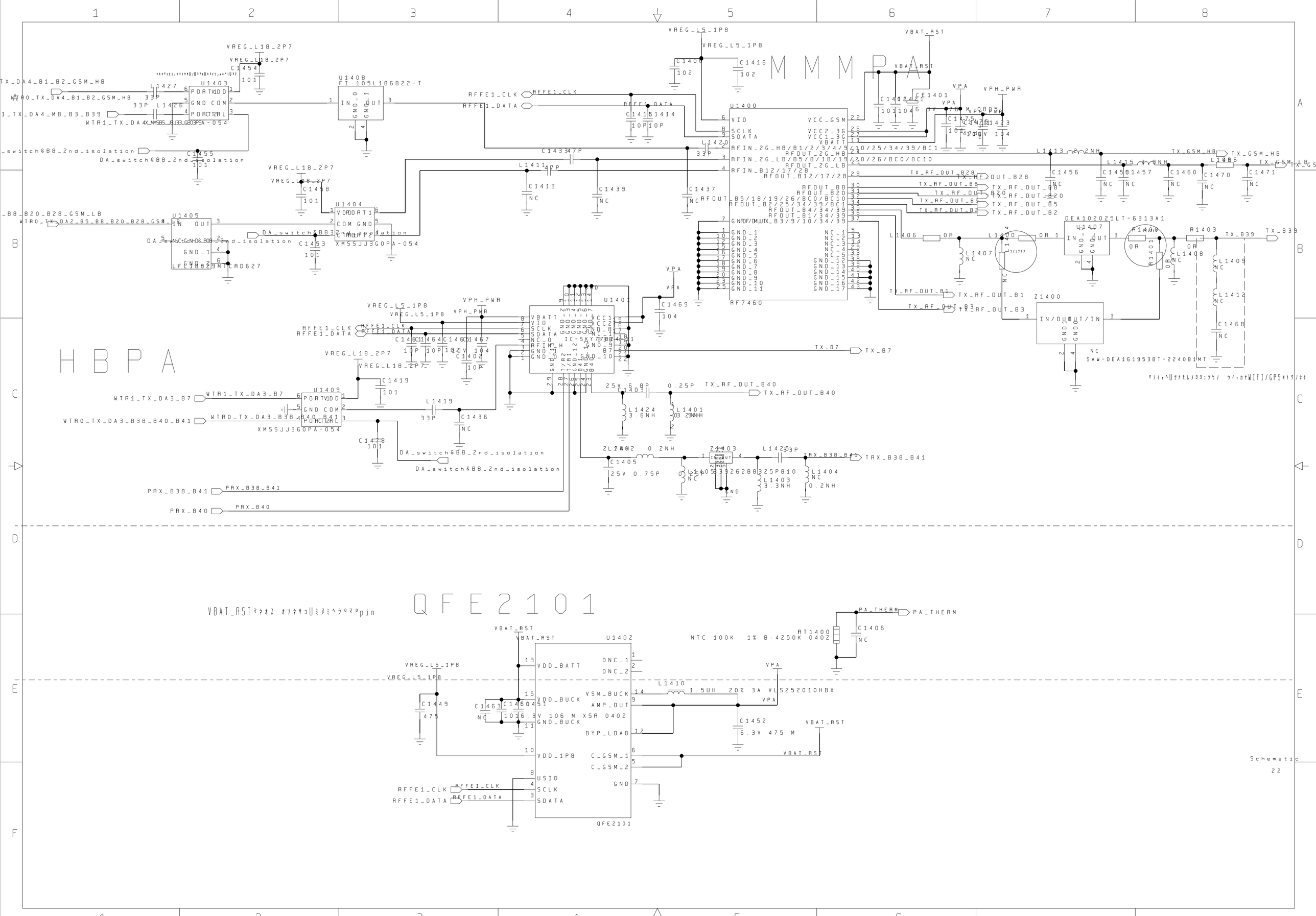
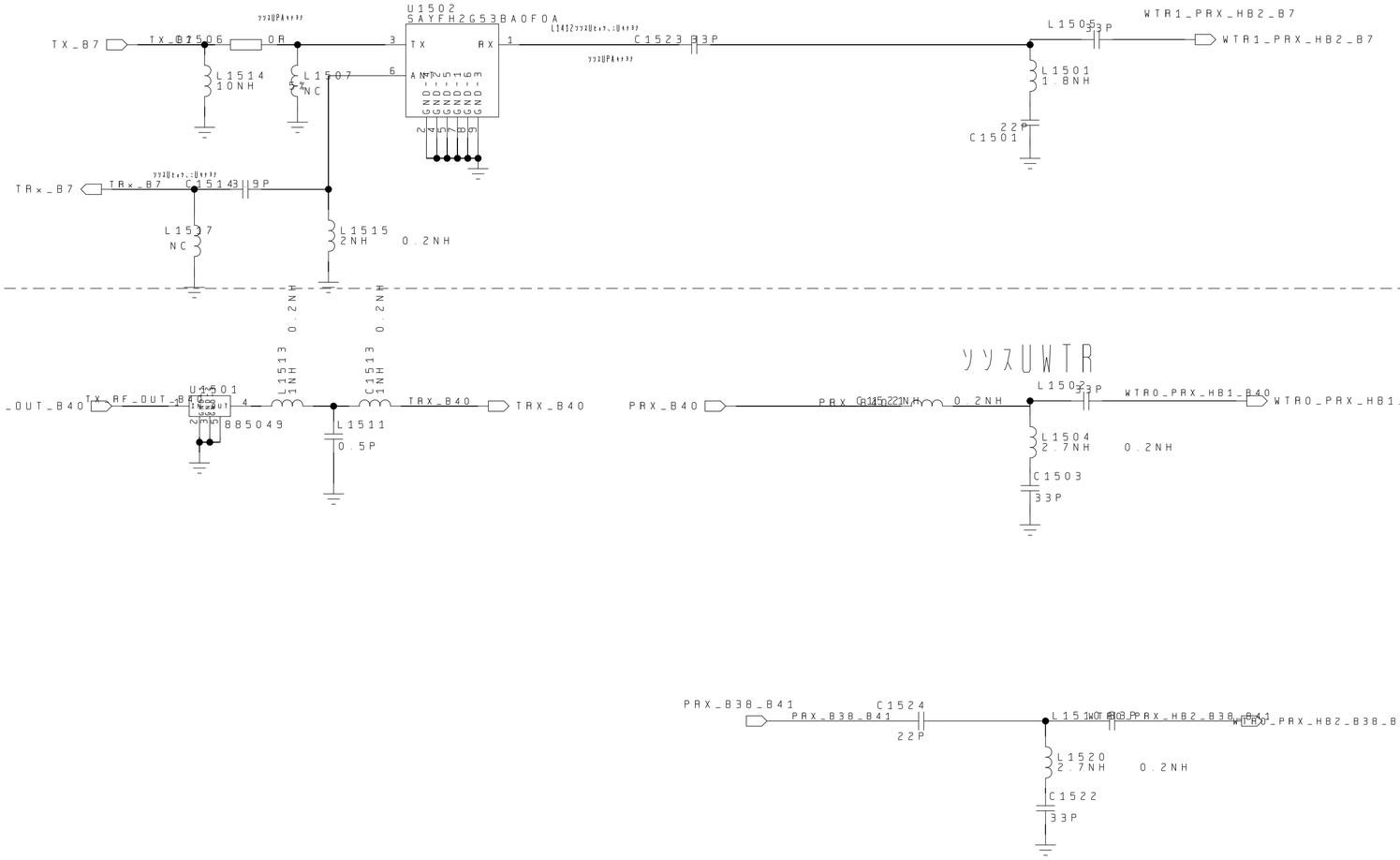

ANT
DPD
Antenna
フ ロ ニ ナ キ
オエシーキヨムケミト
FBRX ハ ミササ
U1105
SKY13598-683
U1101
RF1891
U1102
IC-HHM22106B1
U1103
LFD2H829MMQAE040
U1107
SAW-DEA162690LT-5064A1
U1100
RF1117
U1108
IC-CXA4403GC
CN1102
MM8030-2610
D1100
LXES03AAA1-154 0201
PRX_ANT
DRX_ANT
PRX_ASM
DRX_ASM
PRX_RF1119_en
GRFC_2_PRX_RF1119_CTRL1
GRFC_3_PRX_RF1119_CTRL2
GRFC_4_DPDT_CTL1
GRFC_6_PRX_RF1118_CTRL1
GRFC_6_PRX_RF1118_CTRL2
GRFC_7_FBRX
VREG_L5_1P8
VREG_L18_2P7
L18_L10_2P8_ON
RFFE2_DATA
RFFE2_CLK
TX_FBRX
TX_B40
TX_B38_B41
TX_B1
PRX_DCS
PRX_B39
TX_B2
TX_B3_B7
TX_B39
TX_B5_GSM850
TX_B28B
TX_B20
TX_B28A
TX_B8_GSM900
TX_GSM_LB
TX_GSM_HB
TX_FBRX
WTR1_FBRX
WTR0_FBRX
1/20W18
300R
47P
10P
NC


B3 TRX
VREG_L18_2P7
U1206
CXA4011GC
DA_switch&BB_2nd_isolation
TX_RF_OUT_B3
TRX_B3_B7
U1205
DPX202690DT-4066B1
SAM1206748C0B0A
WTR1_PRX_MB2_B3
DCS RX SAW
PRX_DCS
U1207
SAFFB1G84AB0F0A
WTR0_PRX_MB2_DCS
TX_RF_OUT_B1
B1 TRX
TRX_B1
U1204
WTR0_PRX_MB3_B1
B39 RX SAW
PRX_B39
U1208
SFHG00AA002
WTR1_PRX_MB1_B39
TX_RF_OUT_B2
B2 TRX
TRX_B2
U1202
WTR0_PRX_MB1_B2


GPS
B28 TRX
B28A TRX
B28B TRX
20 TRX
B5 TRX
B8 TRX
U1308
U1304
U1305
U1310
U1303
U1307
U1320
U1301
U1302
U1314
U1311
SAW-SFHG89GA002
SKY65611-11
CXA4011GC
D5PF788M0M3Y9
D5PF773M0M3Y6
B39881B8626P810
B39941-B8664-P810
LFL18829MTCRD627
RF1621TR13 LGA
GPS_ANT
GPS_IN
GPS_EXT_LNA_EN
VREG_L18_2P7
TX_B28A
TX_B28B
TX_RF_OUT_B20
TRX_B20
TX_RF_OUT_B5
TRX_B5_GSM850
TX_RF_OUT_B8
TRX_B8_GSM900
PRX_B28A
PRX_B28B
PRX_B20
WTR0_PRX_LB1_B5_GSM850
WTR0_PRX_LB3_B8_GSM900
WTR0_PRX_LB2_B20_B28
GRFC_14_TX_B28A_B28B
GRFC_11_PRX_B20_B28A_B28B
GRFC_11_PRX_B20_B28A_B28B
GRFC_14_TX_B28A_B28B
ソソスUWTR LNA キナヨテ」ャLNA ハ ・ナU


MMMPA
HBPA
QFE2101
VBAT_RSTマネオス オソネキコUミヌミヘラ°マ°pin
U1400
RF7460
U1401
IC-SKY7788-21
U1402
QFE2101
U1403
U1404
U1405
U1408
U1409
U1407
Z1400
Z1403
DEA102025LT-6313A1
SAW-DEA161953BT-2240B1MT
NTC 100K 1% B:4250K 0402
RT1400
L1410
1.5UH 20% 3A VLS252010HBX
C1452
6.3V 475 M
VREG_L5_1P8
VREG_L18_2P7
VPH_PWR
VBAT_RST
VPA
RFFE1_CLK
RFFE1_DATA
PRX_B38_B41
PRX_B40
TX_B7
TX_RF_OUT_B40
TRX_B38_B41
TX_GSM_HB
TX_B39
DA_switch&B8_2nd_isolation
Schematic
22

HB_DUP_PRX


U1502
SAYFH2G53BA0F0A
TX_B7
TX_B7
C1506
0R
L1514
10NH
L1507
NC
TX
RX
ANT
C1523 33P
L1505
33P
WTR1_PRX_HB2_B7
WTR1_PRX_HB2_B7
L1501
1.8NH
C1501
22P
TRx_B7
TRx_B7
C1514 9P
L1517
NC
L1515
2NH
0.2NH
0.2NH
0.2NH
TX_RF_OUT_B40
TX_RF_OUT_B40
U1501
B85049
L1513
1NH
C1513
1NH
TRX_B40
TRX_B40
L1511
0.5P
WTR
PRX_B40
C1502 2.2NH
0.2NH
L1502
33P
WTR0_PRX_HB1_B40
WTR0_PRX_HB1_B40
L1504
2.7NH
0.2NH
C1503
33P
PRX_B38_B41
PRX_B38_B41
C1524
22P
L1520
2.7NH
0.2NH
C1522
33P

DRX_MLB

CN1602
20566-001E-01
GND-2
GND-1
GND-3
DRX_ANT
DRX_ANT

CN1601
MM8030-2610
DRX_ASM
C1617
33P
L1616
NC
L1618
NC
DRX_SWITCH
DRX_SWITCH

DRX_B8

DRX_B8
C1620
Z1602
SFH942AA002
L1615
NC
22P
C1601
L1631
12NH
WTR0_DRX_LB3_B8
WTR0_DRX_LB3_B8
L1629
NC
C1630
NC

B5_DRX

DRX_B5
C1622
Z1606
F5QA881M5M2AU
L1607
NC
22P
C1604
L1633
12NH
L1632
18NH
22P
C1631

B39_DRX

DRX_B39
22P
C1615
Z1610
SFHG00AA002
L1613
NC
C1612
2P
L1603
3NH
0.2NH
WTR1_DRX_MB1_B39
WTR1_DRX_MB1_B39
L1603
3NH
C1613
22P

DRX_B1

DRX_B1
C1621
Z1601
SAFFB2G14AA0F0A
L1642
2.7NH
0.2NH
U1600
BG58M2
R1608
0R
R1605
0R
L1643
3.3NH
0.2NH
C1644
18P
VREG_L18_2P7
VREG_L18_2P7
C1607
105
DRX_B1_eLNA_en
L1644
3NH
C1642
2P
WTR0_DRX_MB3_DRX_M

B28_DRX

DRX_B28
C1623
Z1607
SAW-B397-B1BB323B10
L1639
NC
R1600
10R
5%
R1601
10R
5%
U1601
BG5BL2
R1602
0R
C1603
1.2P
VREG_L18_2P7
VREG_L18_2P7
C1602
105
DRX_B28_eLNA_en

GRFC_11_PRX_B20_B28A_B28B
GRFC_11_PRX_B20_B28A_B28B
VREG_L18_2P7
C1626
101
VREG_L18_2P7
C1625
101
IC-CXA4403GC
U1603
C1610
22P
L1630
22NH
WTR0_DRX_LB2_B20_B28
WTR0_DRX_LB2_B20_B28
L1628
NC
C1629
NC

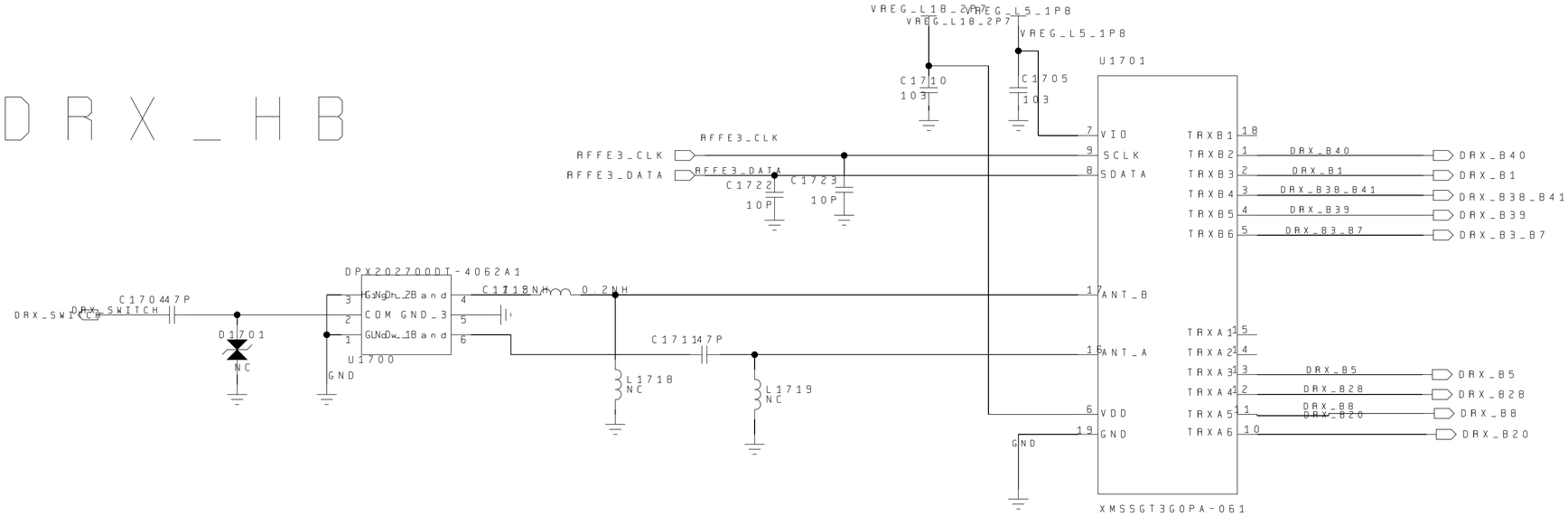
DRX_B3

DRX_B3
C1622
Z1604
SAFFB1G84AB0F0A
L1606
NC
R1601
0R
U1602
BG58M2
R1604
0R
C1609
18P
VREG_L18_2P7
VREG_L18_2P7
C1605
105
DRX_B3_eLNA_en
L1602
3.6NH
0.2NH
C1606
22P

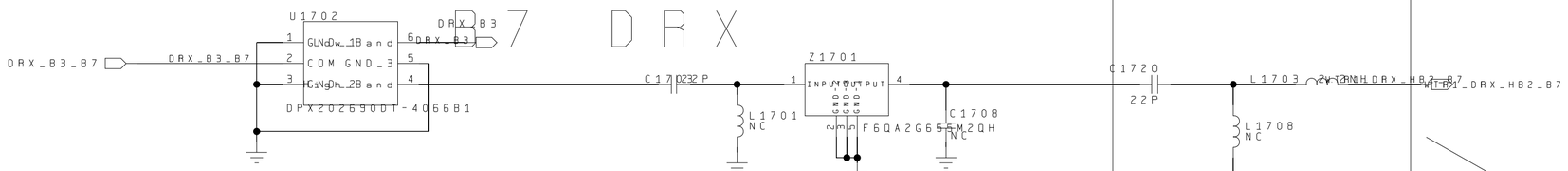
B20_DRX

DRX_B20
C1628
Z1608
SAFFB806MAA0CA
L1635
NC
22P
L1634
NC

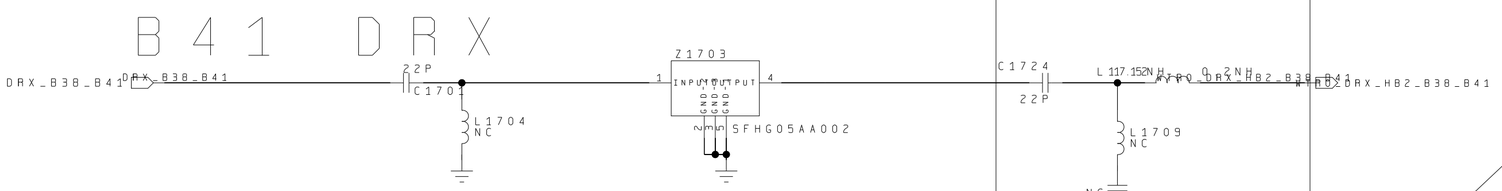
DRX_HB



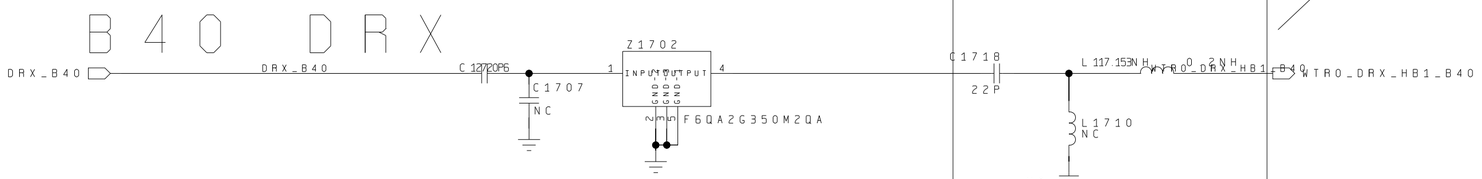
7 DRX



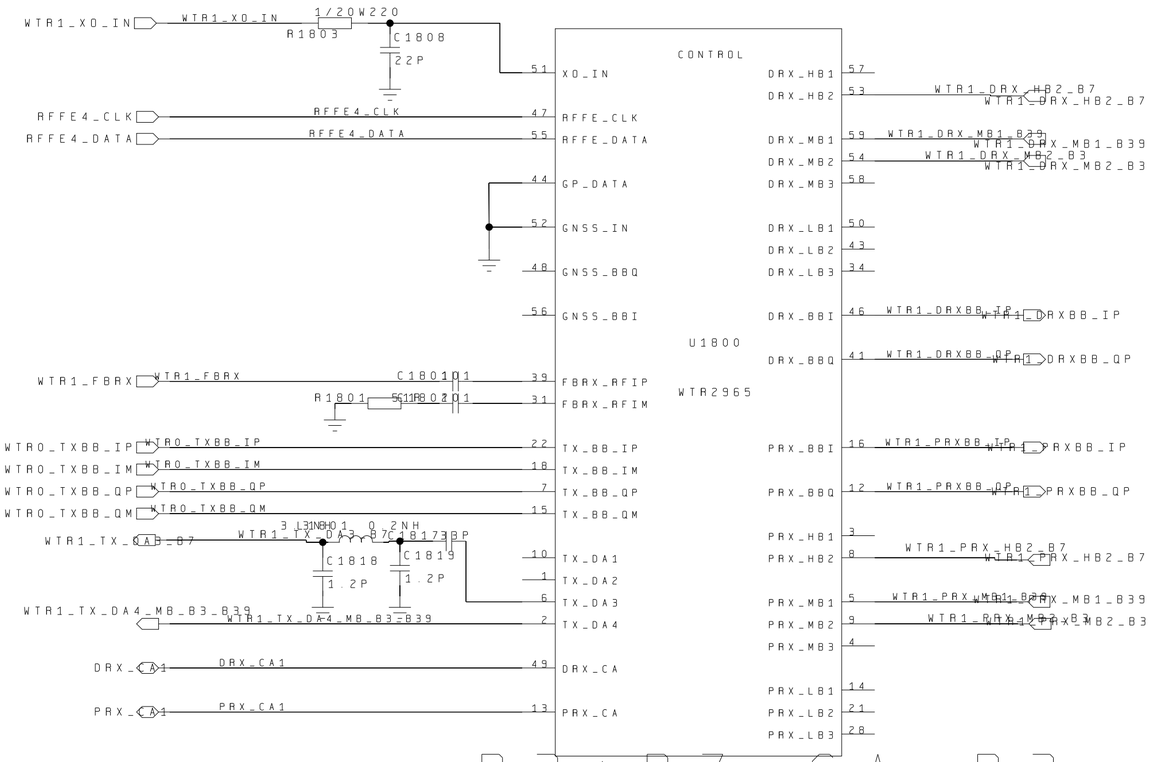
B41 DRX

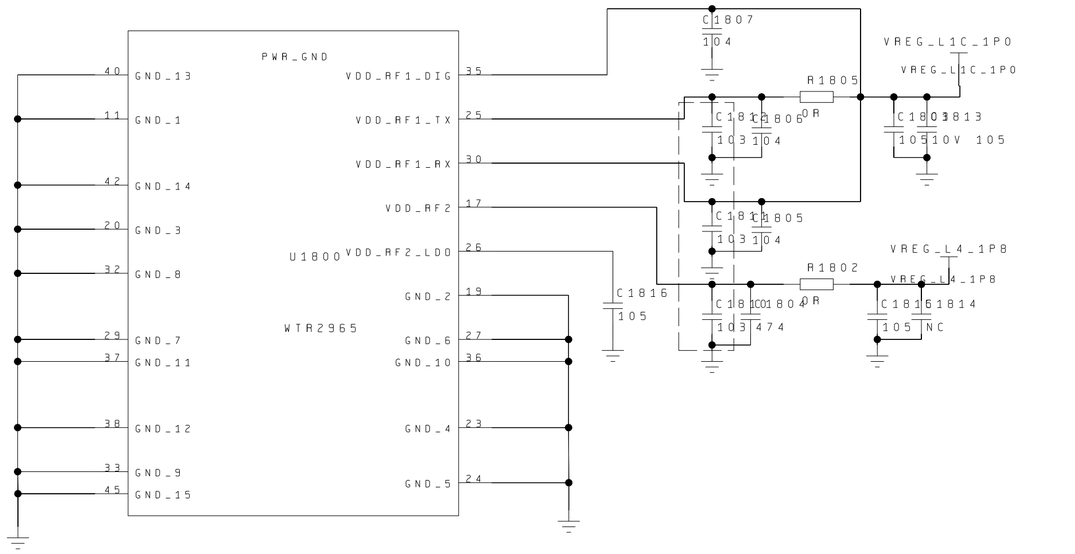


B40 DRX



ソソスUWTR





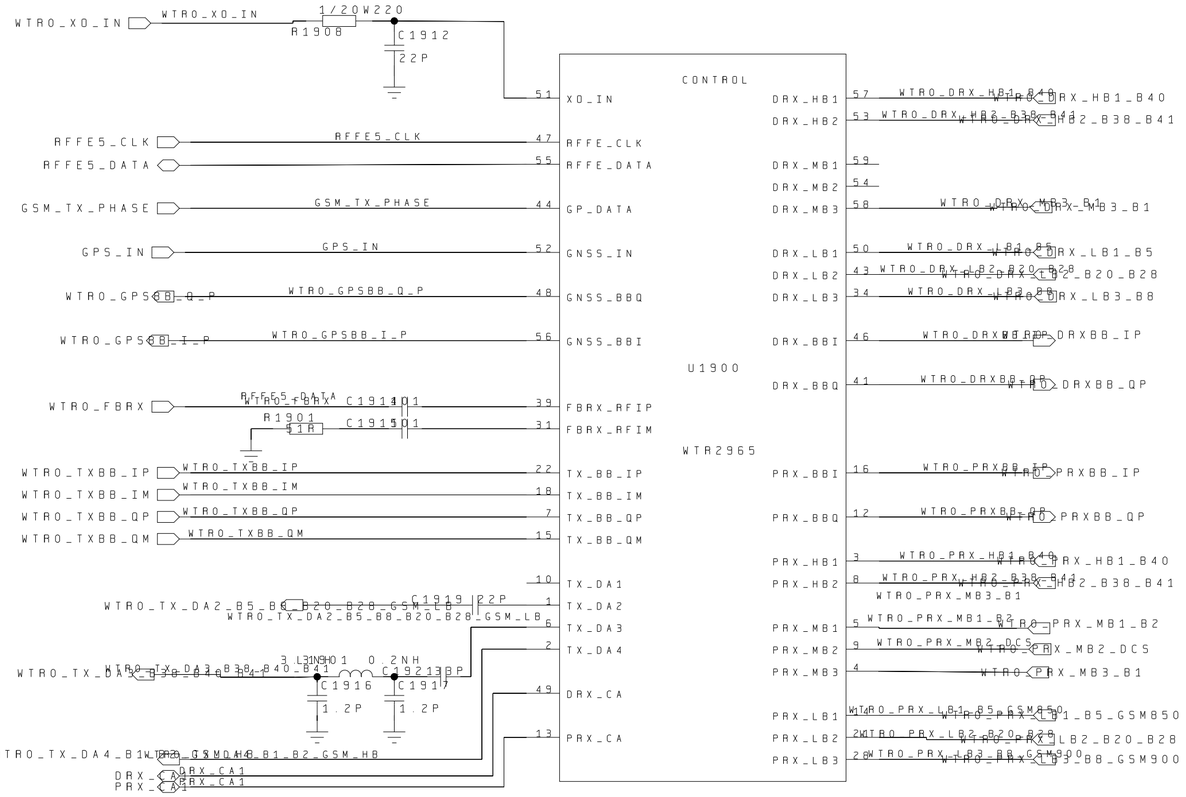
B3 + B7 CA B3 MB2 B7 HB2

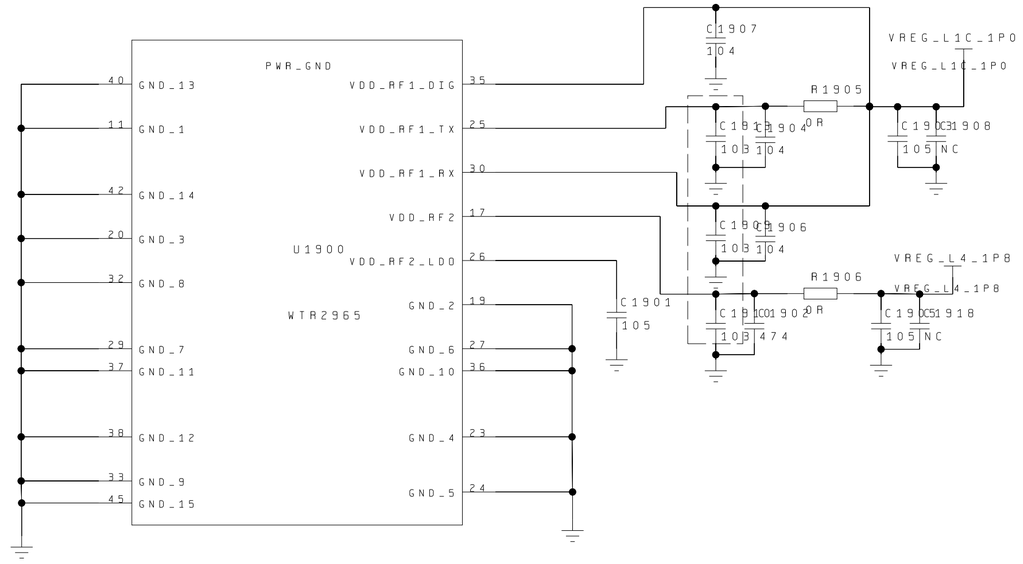
ements for PRX_CA interconnections and DRX_CA interconnections:

trace length between WTR0 and WTR1 pin < 15 mm

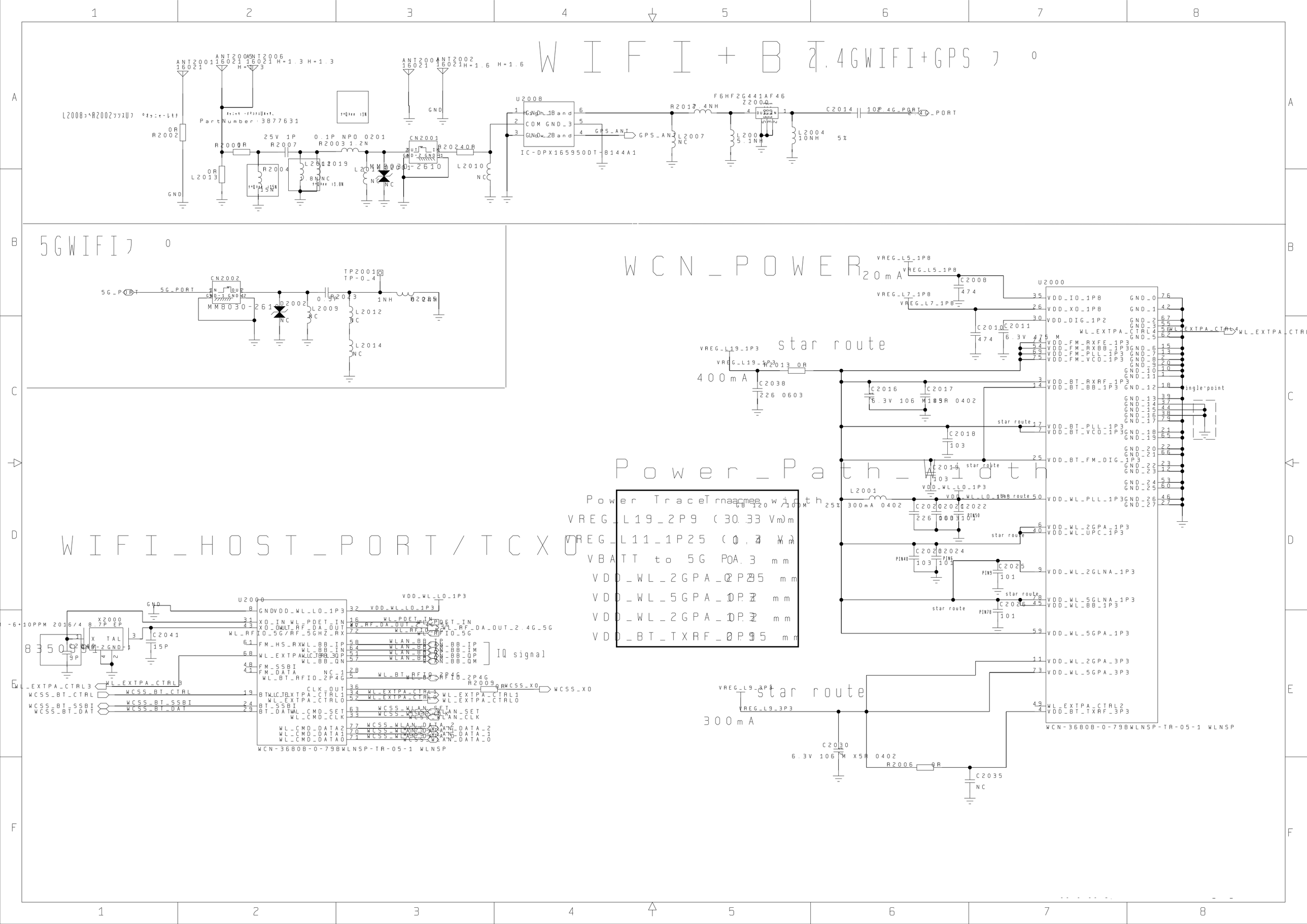
ation between PRX_CA and DRX_CA pins > 50 dB

e impedance 40 ohms with GND above and below these traces





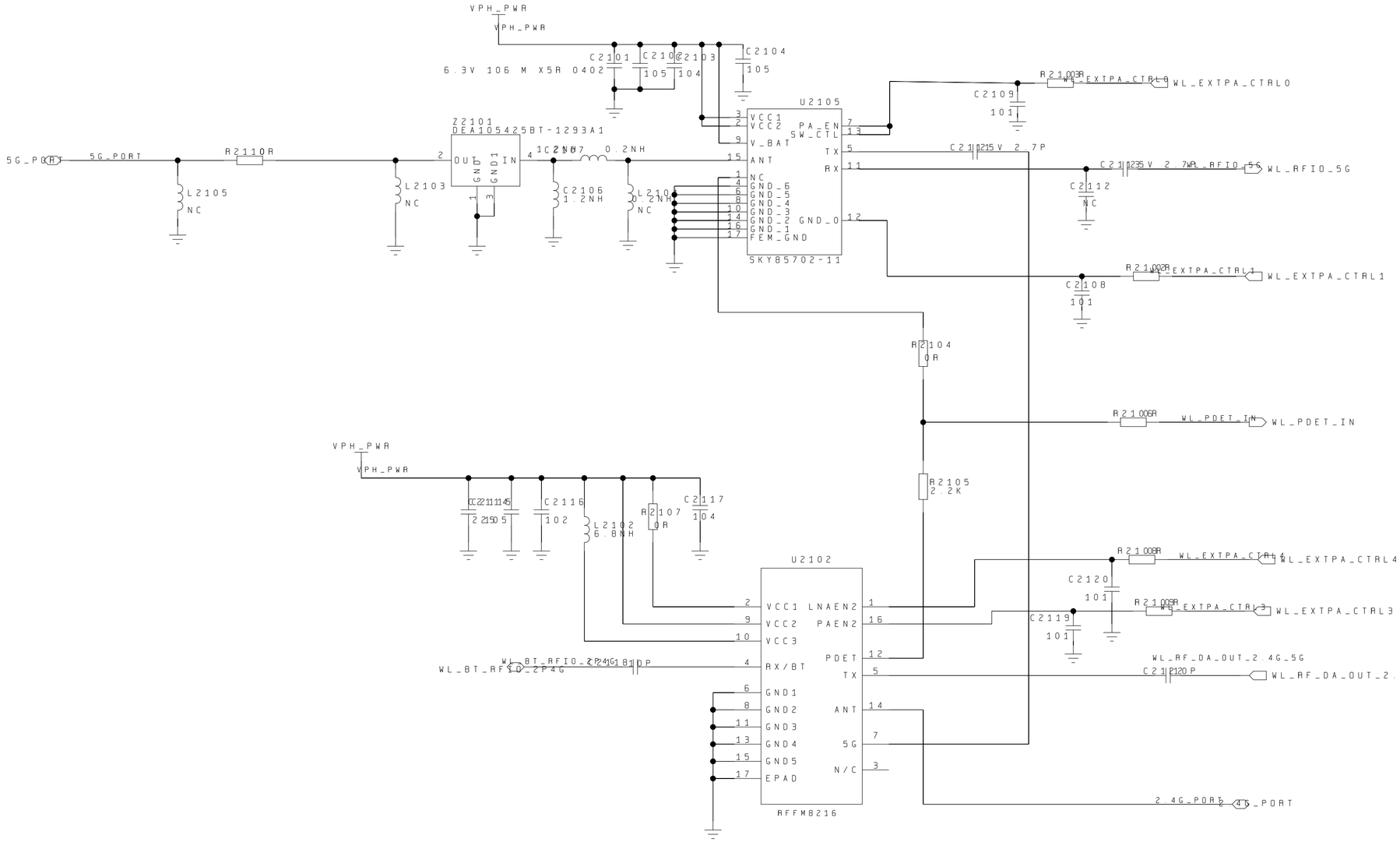
nents for PRX_CA interconnections and DRX_CA interconnections:
trace length between WTR0 and WTR1 pin < 15 mm
tion between PRX_CA and DRX_CA pins > 50 dB
impedance 40 ohms with GND above and below these traces



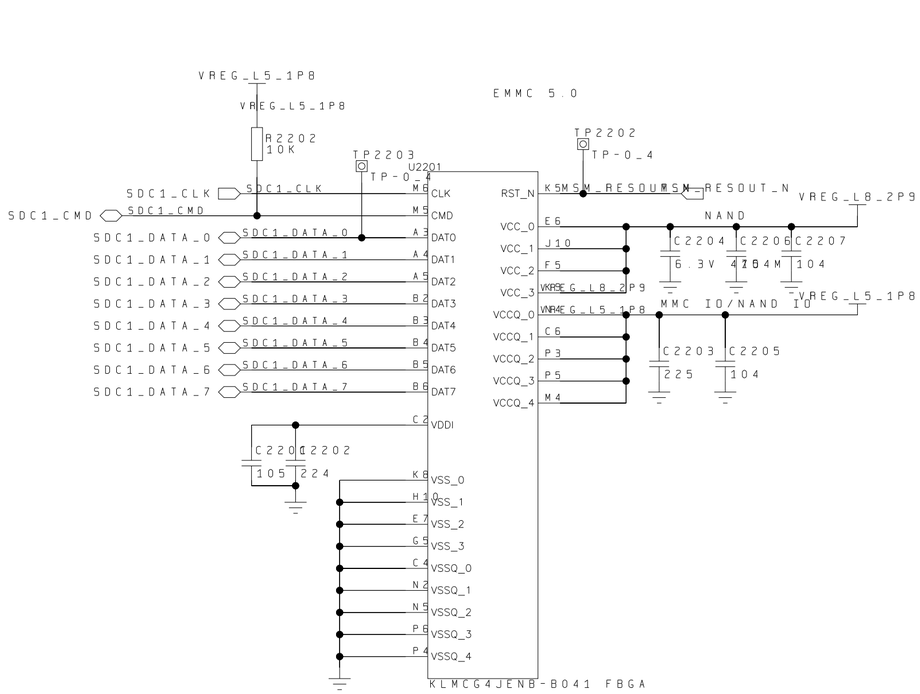
WIFI+BT
2.4GWIFI+GPS
5GWIFI
WCN_POWER
20mA
star route
400mA
Power_Path_Width
Power Trace Trnaarmee width
VREG_L19_2P9 (30.33 Vm)
VREG_L11_1P25 (1.4 V)
VBATT to 5G PA 3 mm
VDD_WL_2GPA_2P25 mm
VDD_WL_5GPA_1P2 mm
VDD_WL_2GPA_1P2 mm
VDD_BT_TXRF_2P15 mm
WIFI_HOST_PORT/TCXO
IQ signal
WCN-36808-0-79BWLNSP-TR-05-1 WLNSP

WIFI+BT_2

For 2nd Gen FEM 5G



For 3rd Gen FEM 2.4G


VREG_L5_1P8
VREG_L5_1P8
R2202
10K
TP2203
TP-0_4
U2201
SDC1_CLK
SDC1_CLK
SDC1_CMD
SDC1_CMD
SDC1_DATA_0
SDC1_DATA_1
SDC1_DATA_2
SDC1_DATA_3
SDC1_DATA_4
SDC1_DATA_5
SDC1_DATA_6
SDC1_DATA_7
M6 CLK
M5 CMD
A3 DAT0
A4 DAT1
A5 DAT2
B2 DAT3
B3 DAT4
B4 DAT5
B5 DAT6
B6 DAT7
C2 VDDI
C2201
105
C2202
224
K6 VSS_0
H10 VSS_1
E7 VSS_2
G5 VSS_3
C4 VSSQ_0
N2 VSSQ_1
N5 VSSQ_2
P6 VSSQ_3
P4 VSSQ_4
KLMCG4JENB-B041 FBGA
EMMC 5.0
TP2202
TP-0_4
RST_N
K5
SM_RESOUT_N
SM_RESOUT_N
VREG_L8_2P9
NAND
VCC_0 E6
VCC_1 J10
VCC_2 F5
VCC_3
VREG_L8_2P9
VREG_L5_1P8
VCCQ_0
VCCQ_1 C6
VCCQ_2 P3
VCCQ_3 P5
VCCQ_4 M4
C2204
6.3V
C2206
C2207
104
MMC IO/NAND IO
C2203
225
C2205
104
U2201
G12
H1 NC_0
G1 NC_1
J1 NC_2
G2 NC_3
J3 NC_4
J2 NC_5
H2 NC_6
H3 NC_7
L1 NC_8
K1 NC_9
N1 NC_10
J11 NC_11
F11 NC_12
B11 NC_13
M1 NC_14
J11 NC_15
F11 NC_16
C1 NC_17
A11 NC_18
G11 NC_19
M2 NC_20
F1 NC_21
P11 NC_22
G11 NC_23
P8 NC_24
N1 NC_25
M1 NC_26
C1 NC_27
B11 NC_28
A8 NC_29
H1 NC_30
H11 NC_31
K2 NC_32
C1 NC_33
A1 NC_34
M1 NC_35
H11 NC_36
P9 NC_37
P1 NC_38
D1 NC_39
N6 NC_40
L1 NC_41
A9 NC_42
F1 NC_43
A1 NC_44
A1 NC_45
J1 NC_46
D4 NC_47
P1 NC_48
A1 NC_49
A1 NC_50
P1 NC_51
N7 NC_52
M7 NC_53
N8 NC_54
M8 NC_55
N9 NC_56
M9 NC_57
N1 NC_58
M1 NC_59
N1 NC_60
M1 NC_61
NC_62 M13
NC_63 L12
NC_64 L13
NC_65 K12
NC_66 K13
NC_67 K14
NC_68 E13
NC_69 G12
NC_70 D12
NC_71 D13
NC_72 C13
NC_73 C12
NC_74 B12
NC_75 B10
NC_76 C10
NC_77 B9
NC_78 G9
NC_79 B8
NC_80 C8
NC_81 B7
NC_82 C7
NC_83 L2
NC_84 L3
NC_85 M3
NC_86 N3
NC_87 L3
NC_88 D1
NC_89 D2
NC_90 D3
NC_91 E3
NC_92 F3
NC_93 K3
NC_94 F2
NC_95 F1
NC_96 F2
NC_97 B14
NC_98 J5
NC_99 L5
NC_100 K6
NC_101 K7
NC_102 K10
NC_103 A13
NC_104 B1
NC_105 H5
NC_106 A2
NC_107 A6
NC_108 A7
NC_109 E5
NC_110 E6
NC_111 E9
NC_112 E10
NC_113 N1
NC_114 F10
NC_115 G3
NC_116 G10
NC_117 N14
NC_118 P2
NC_119 P7
NC_120 P10
NC_121 P13
NC_122
KLMCG4JENB-B041 FBGA
2201
SDC1_D
SDC1_RCLK
SDC1_RCLK
CLOSE EMMC
R2203
NC

1 2 3 4 5 6 7 8

A B C

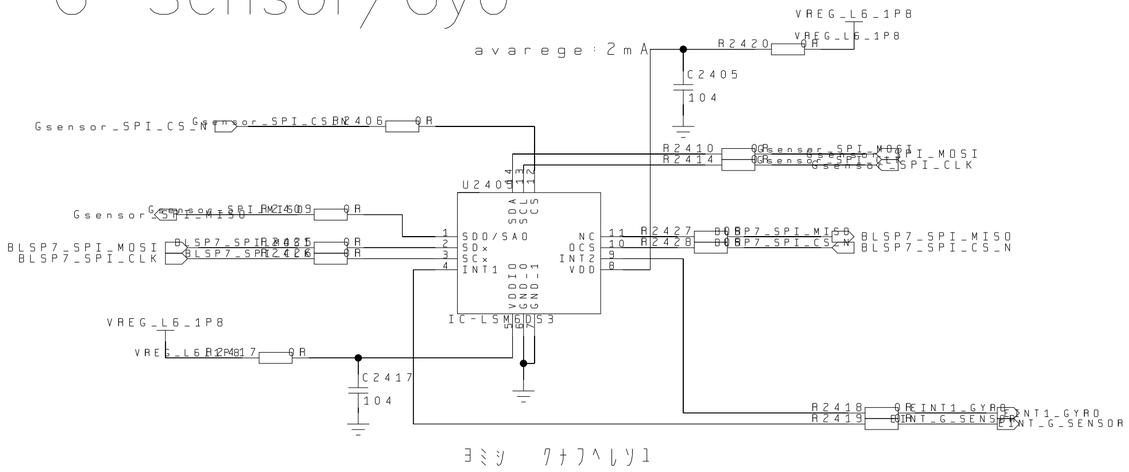
A B C

D E F

D E

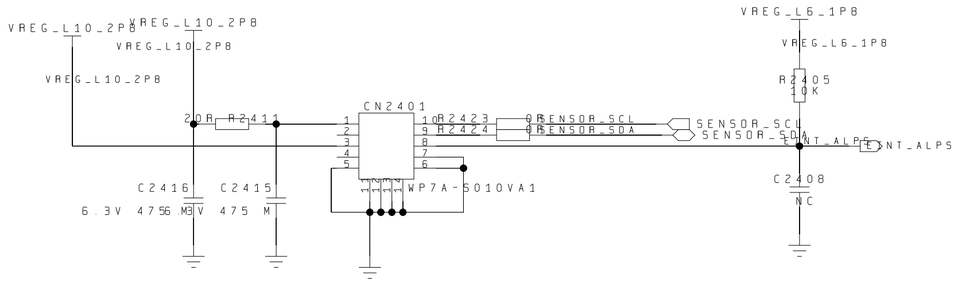
1 2 3 4 5 6

G-Sensor/Gyo

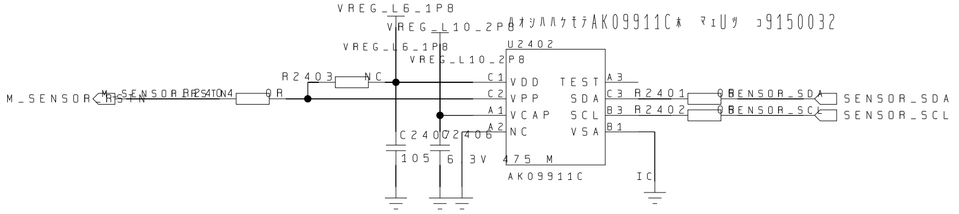


I2C ADDRESS(SA0=0):D4H( ) D5H

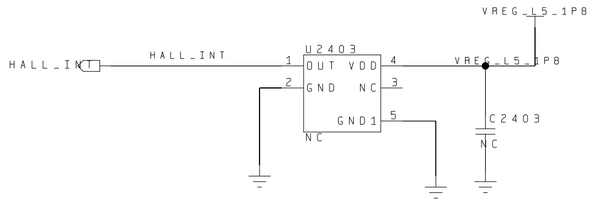
A.L.S.+P.S sensor module BTB



M Sensor

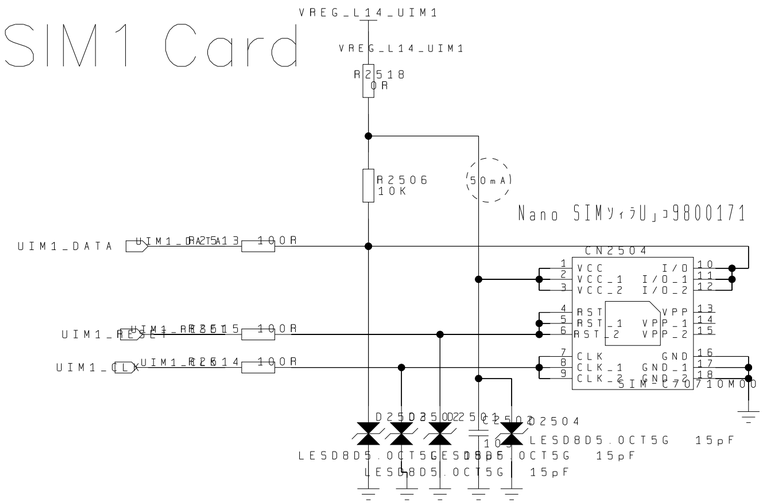


Hall sensor



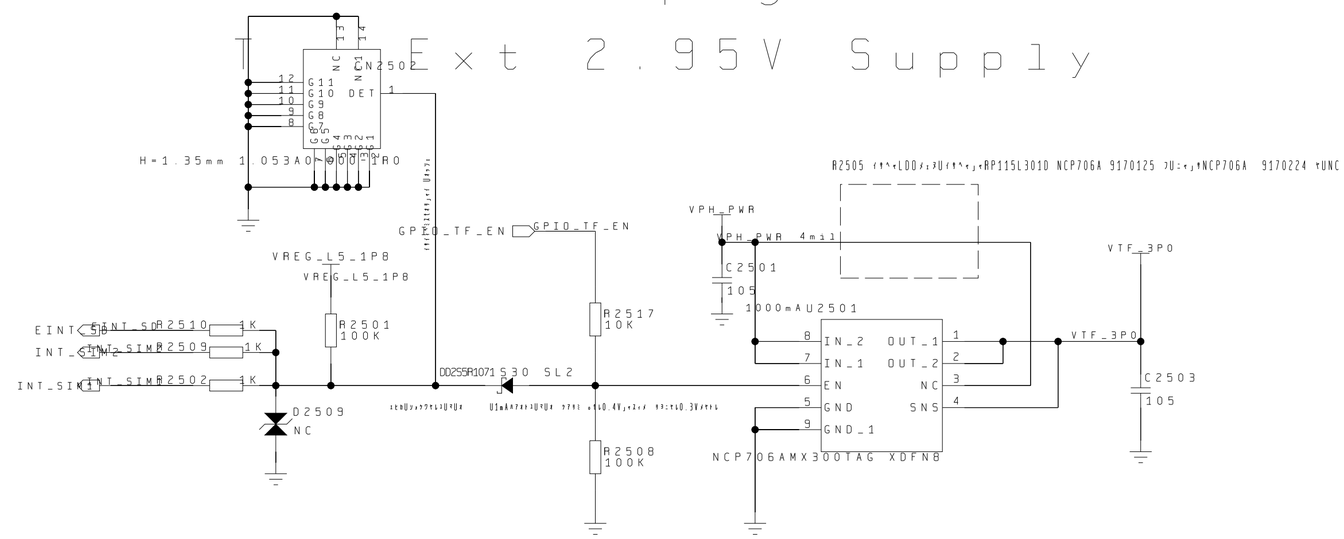
RGB SENSOR

SIM1 Card

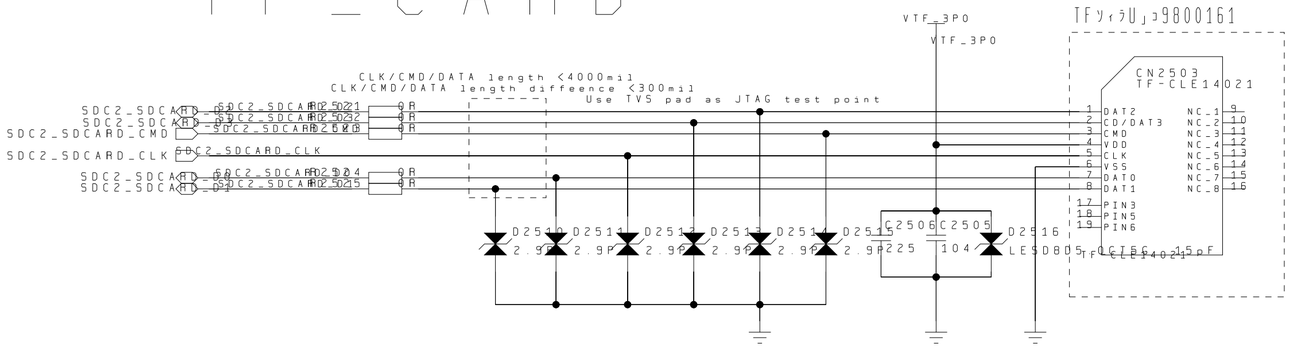


CN2502 NC

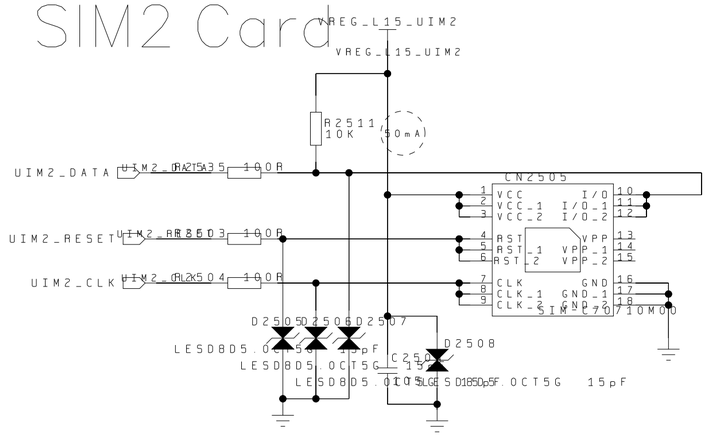
Hotplug



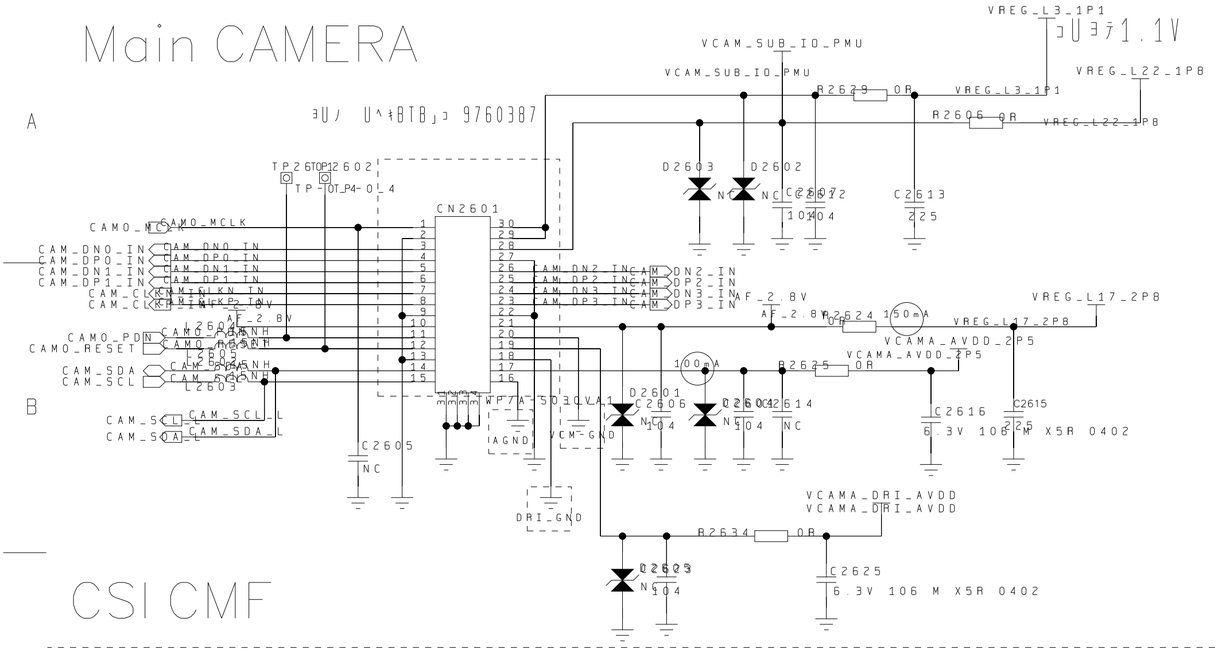
TF_CARD



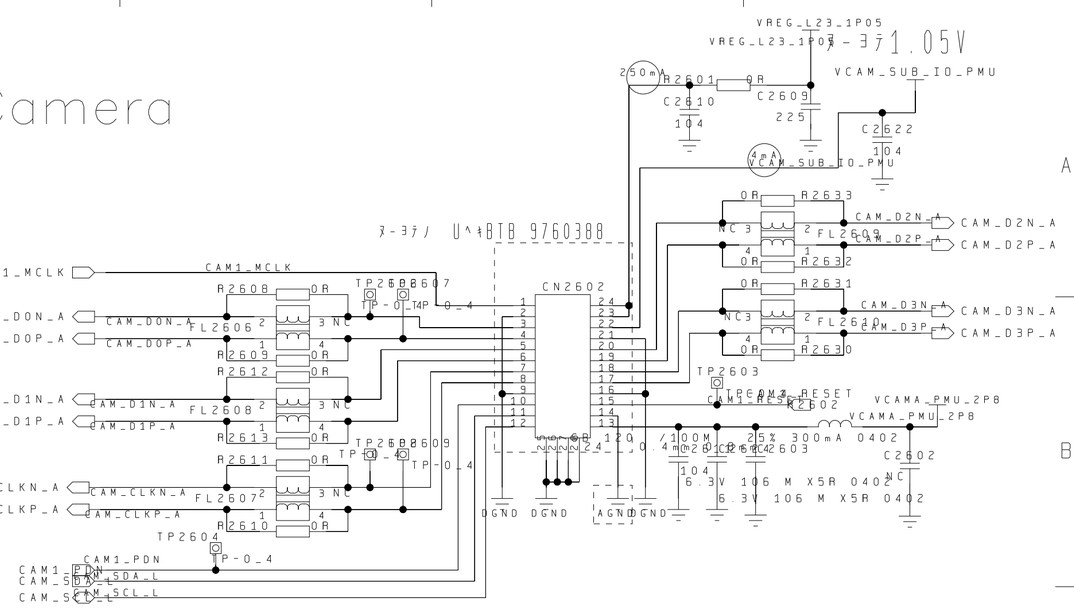
SIM2 Card



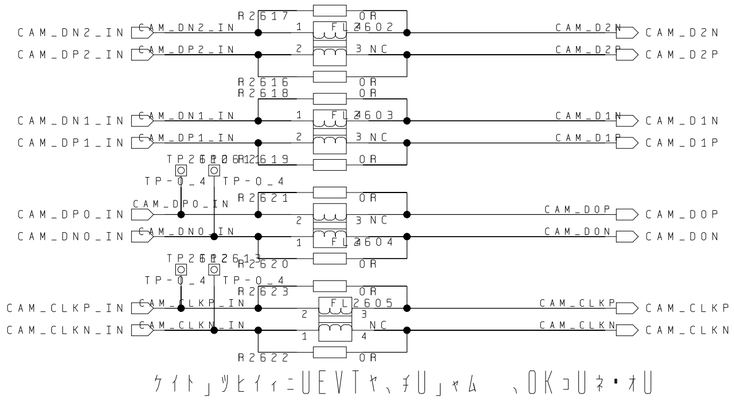
Main CAMERA



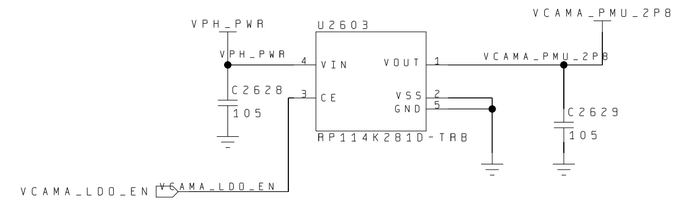
SUB_Camera



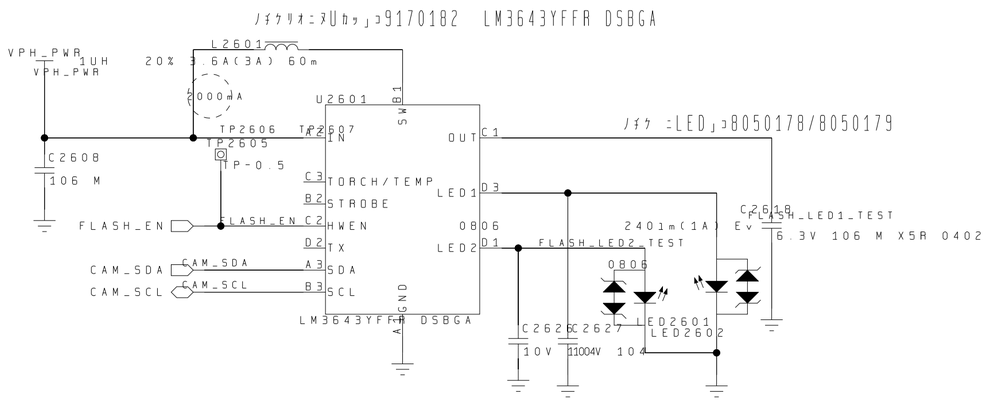
CSI CMF



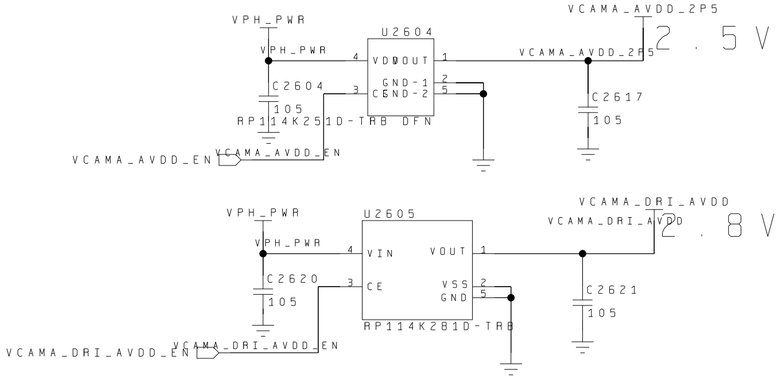
Sub Camera AVDD(2.8V)



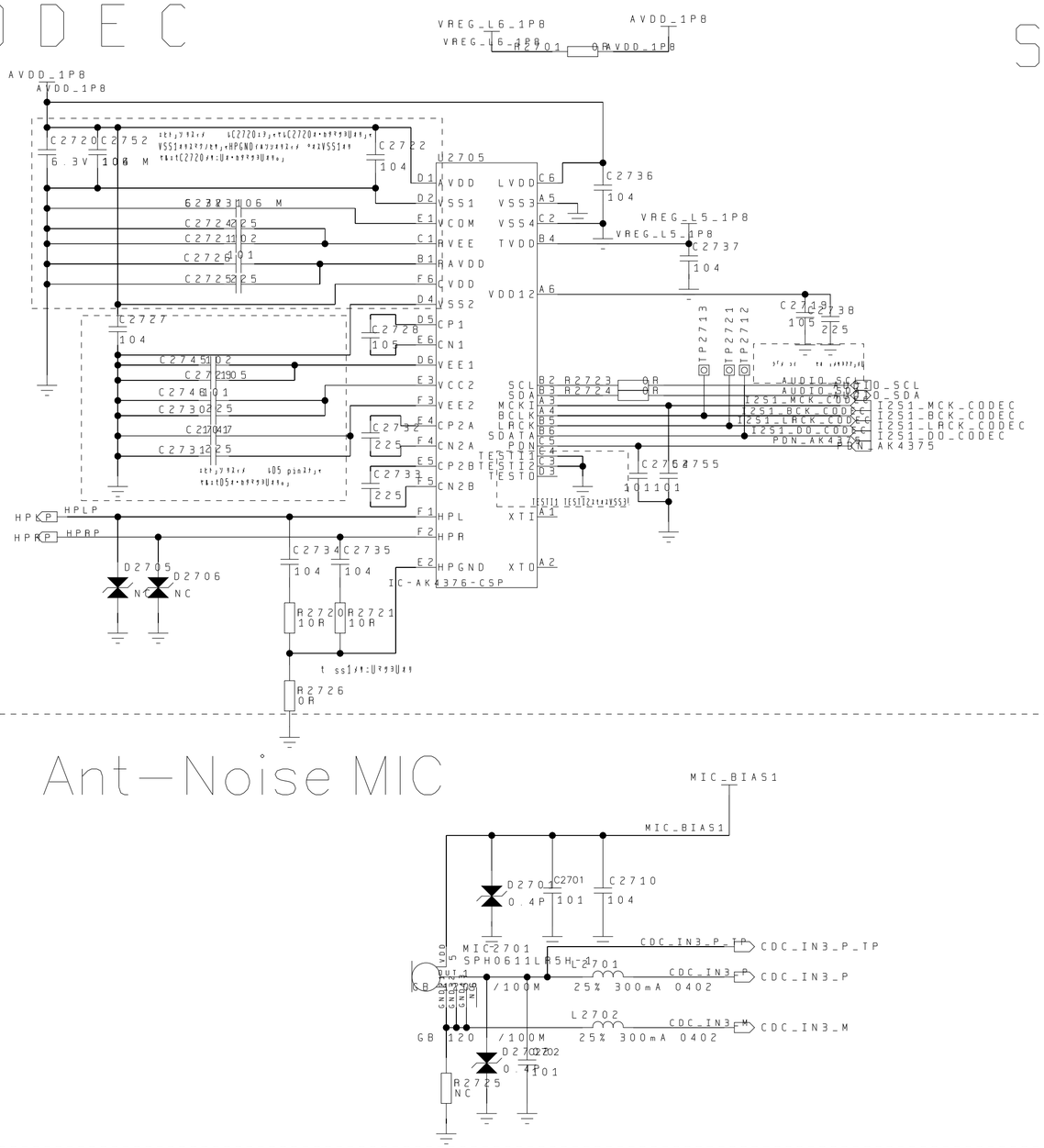
Flash LED Driver



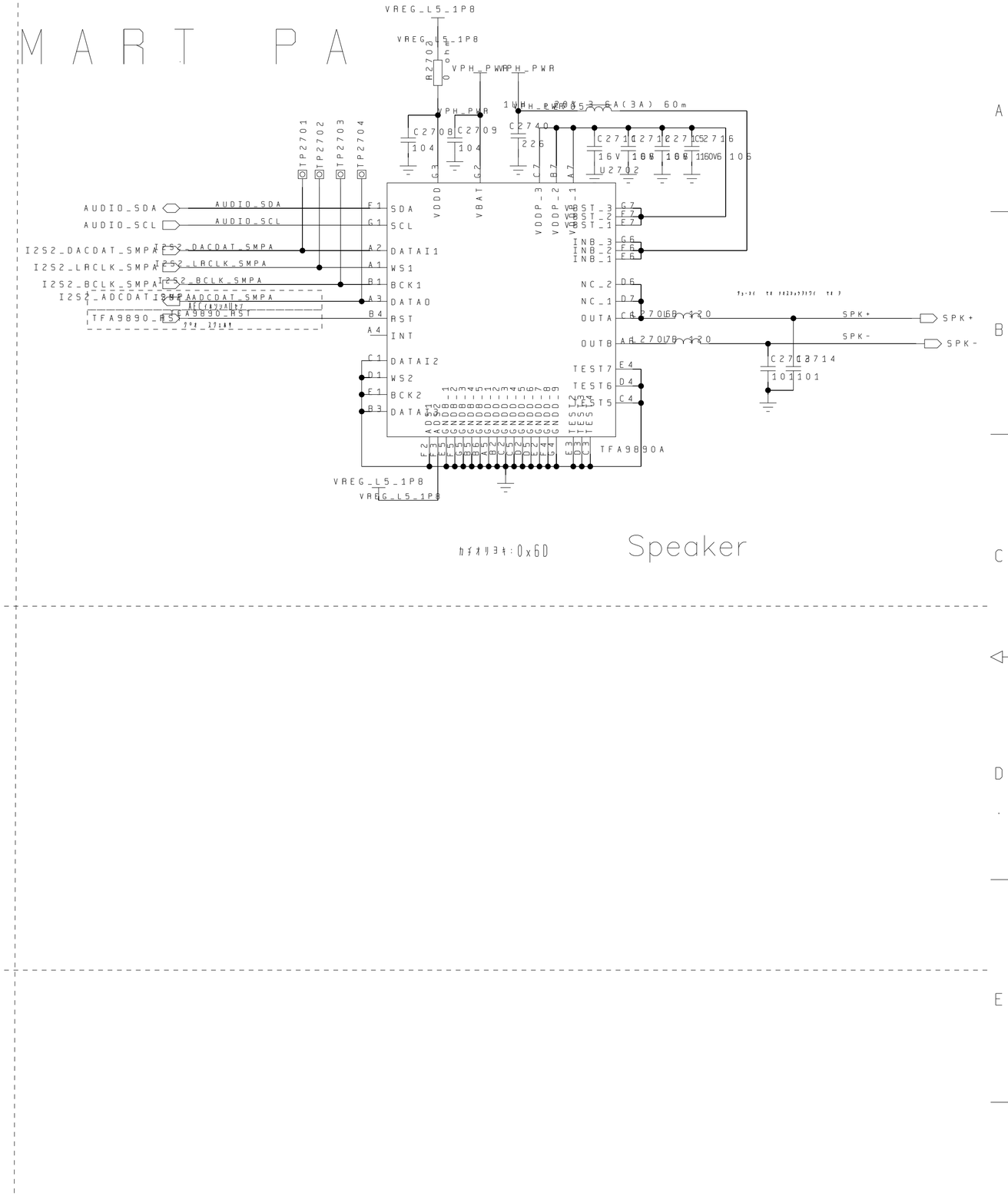
Main Camera DRI_AVDD(2.8V)



CODEC

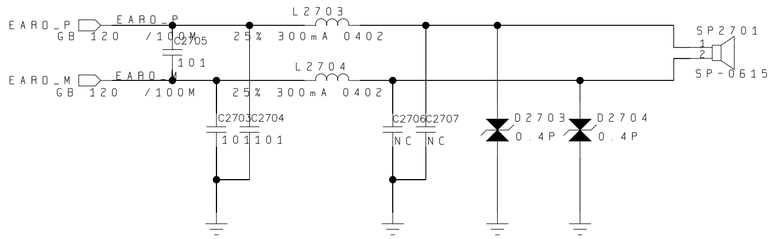


SMART PA

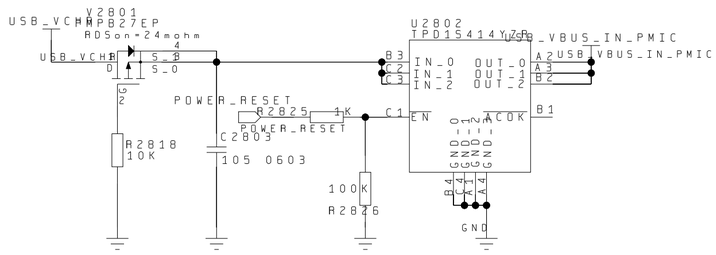


Ant—Noise MIC

Receiver

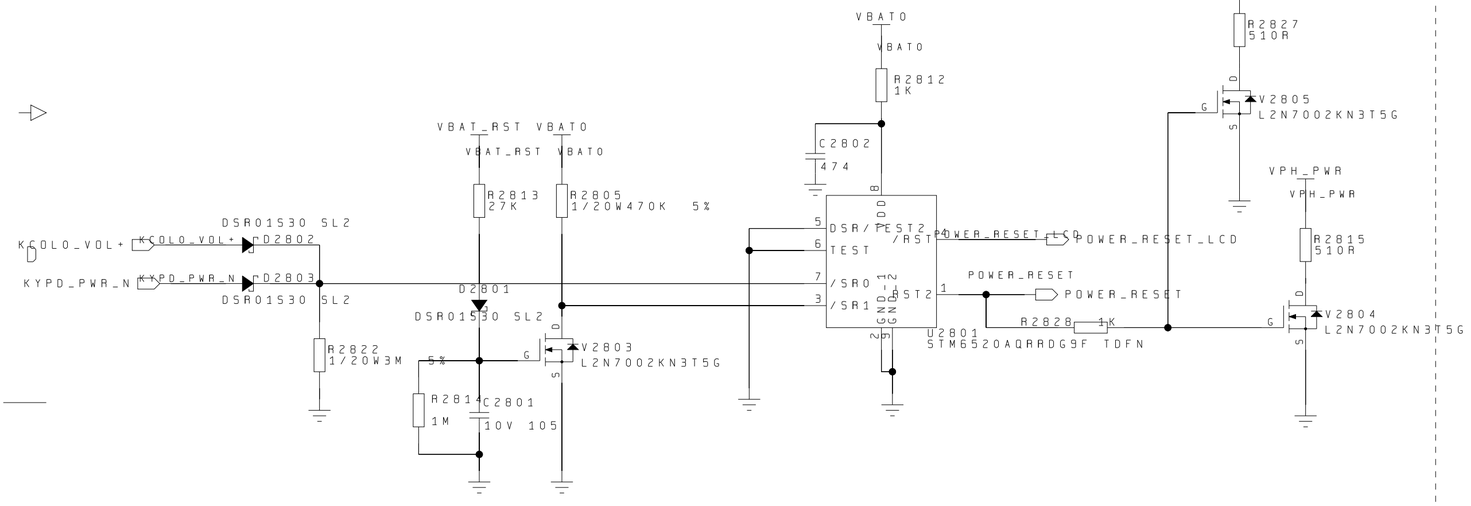


NVP&OVP

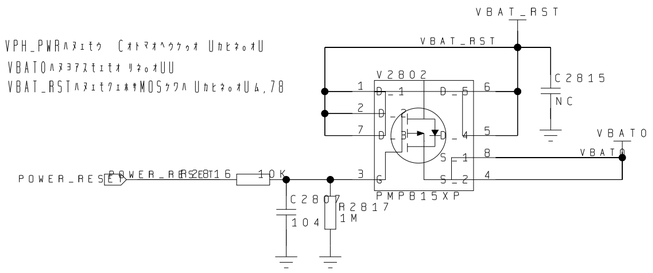


Note:
1,»5V« »» »DVLDiz:t:x»z:7/,»?U4?tU»,»«x,5.8V,»
2,»9V?*4?? »R2826«»U1.2M,»R2825«»U150K,»?U4?tU»,»«x,10.98V,»

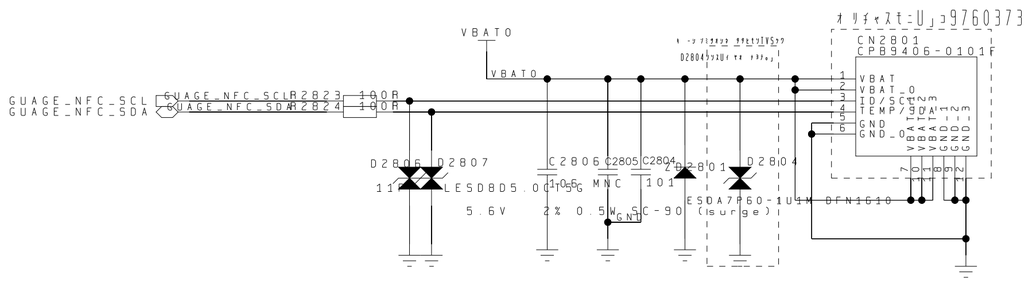
HW RESET



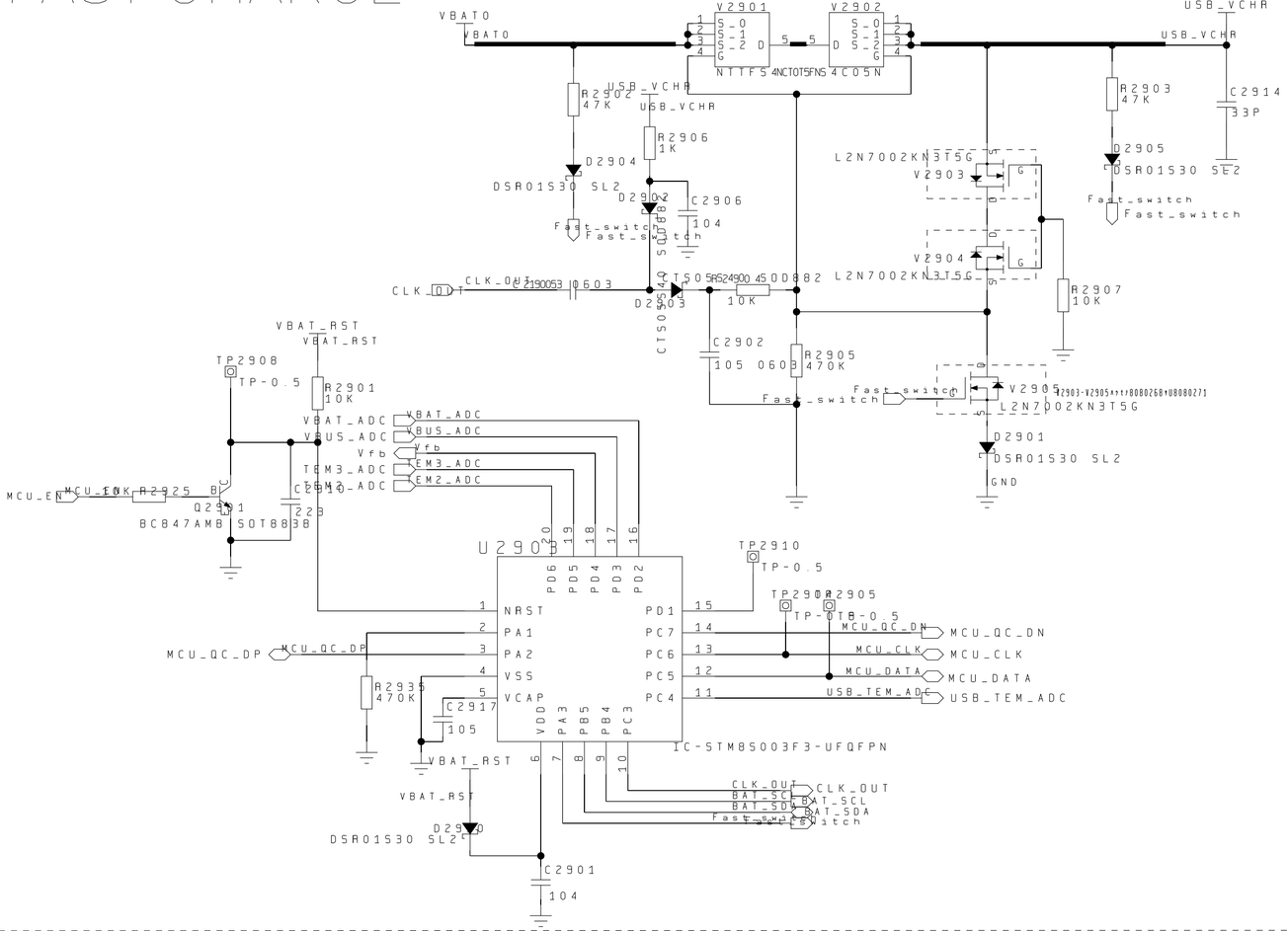
BAT_MOSFET



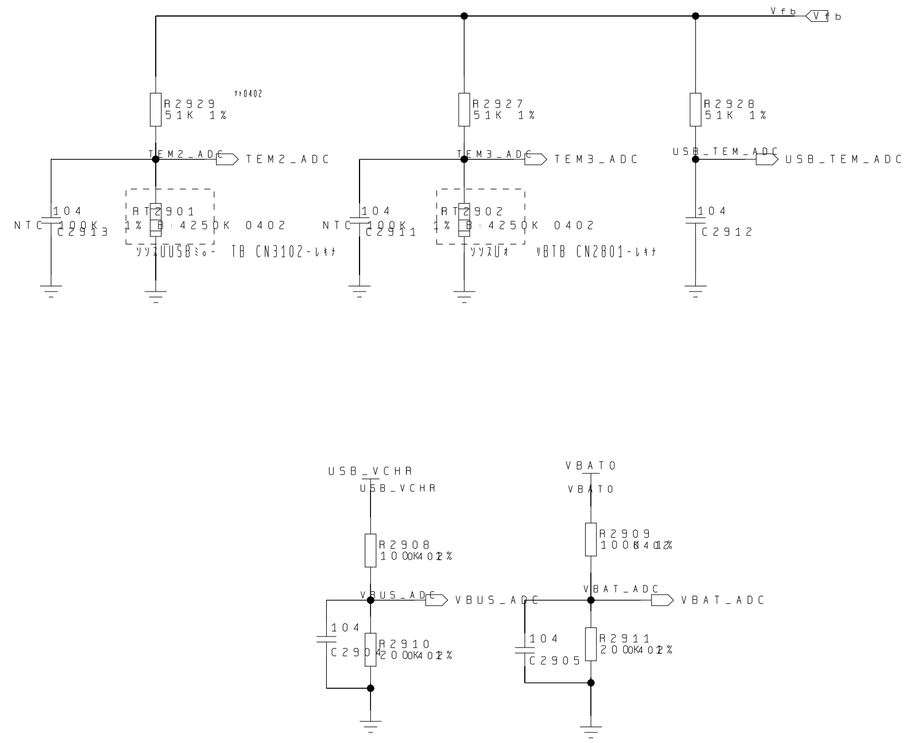
BAT



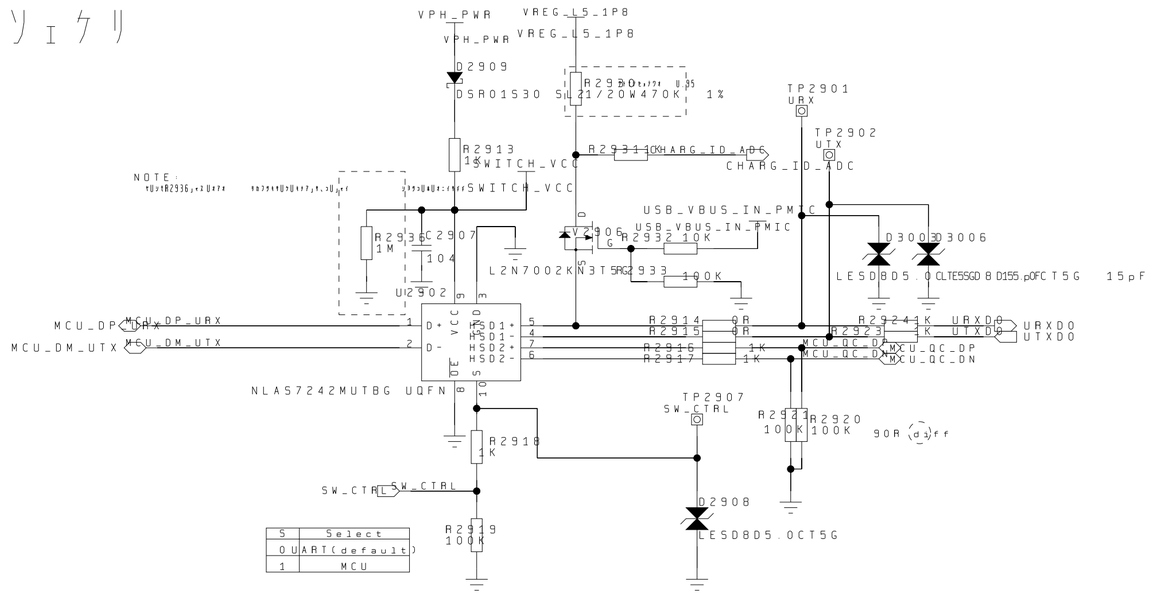
FAST CHARGE



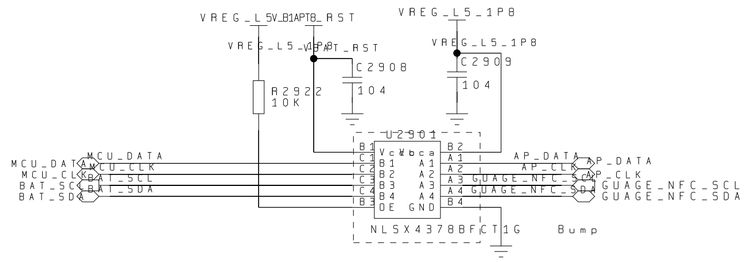
ADC,



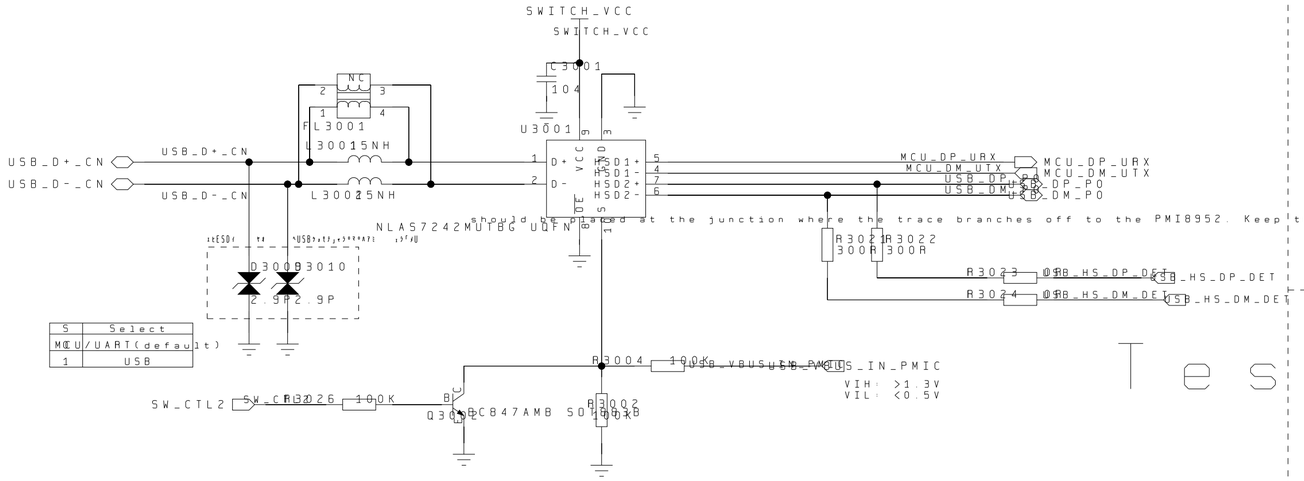
USBソイッチ



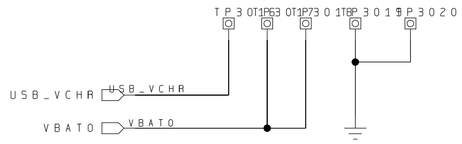
オーディオIC



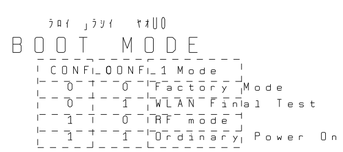
USB Switch

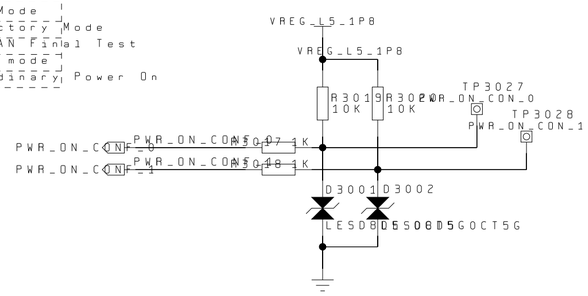


TEST POINT



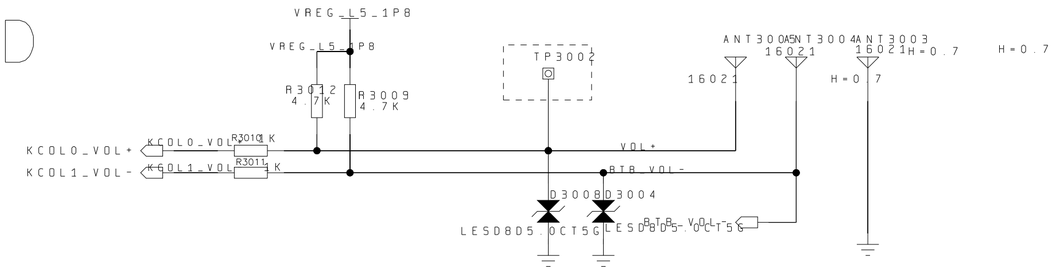
Test Confige





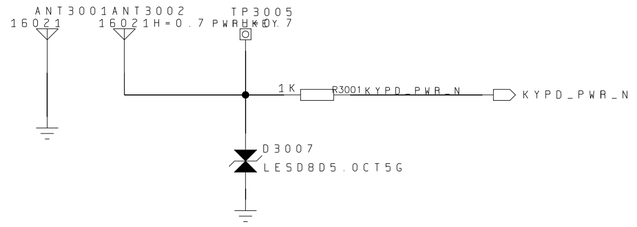
KEY PAD

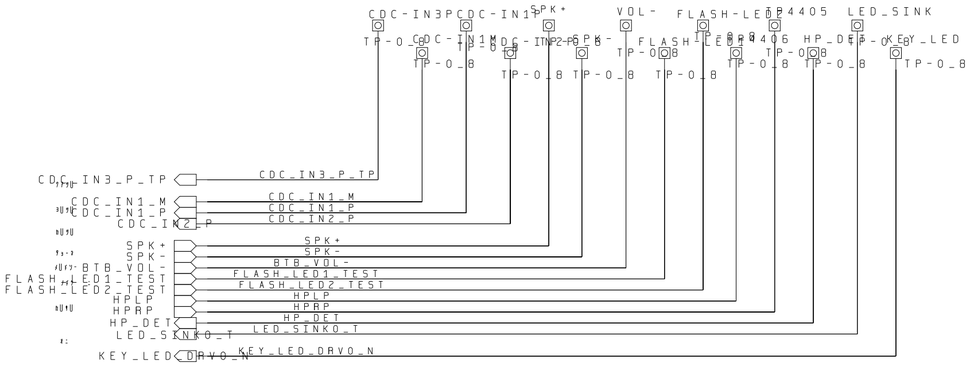
V

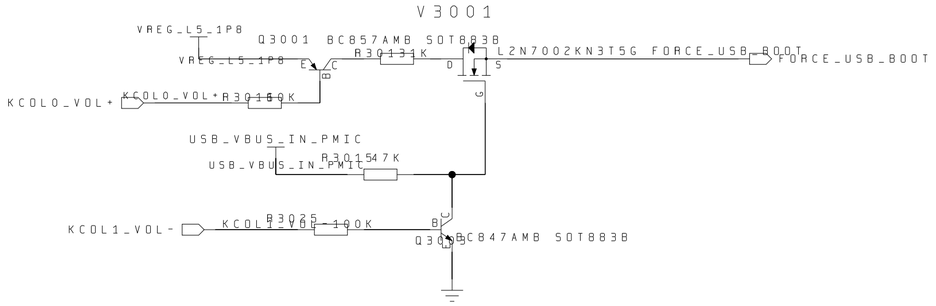


POWERKEY

P

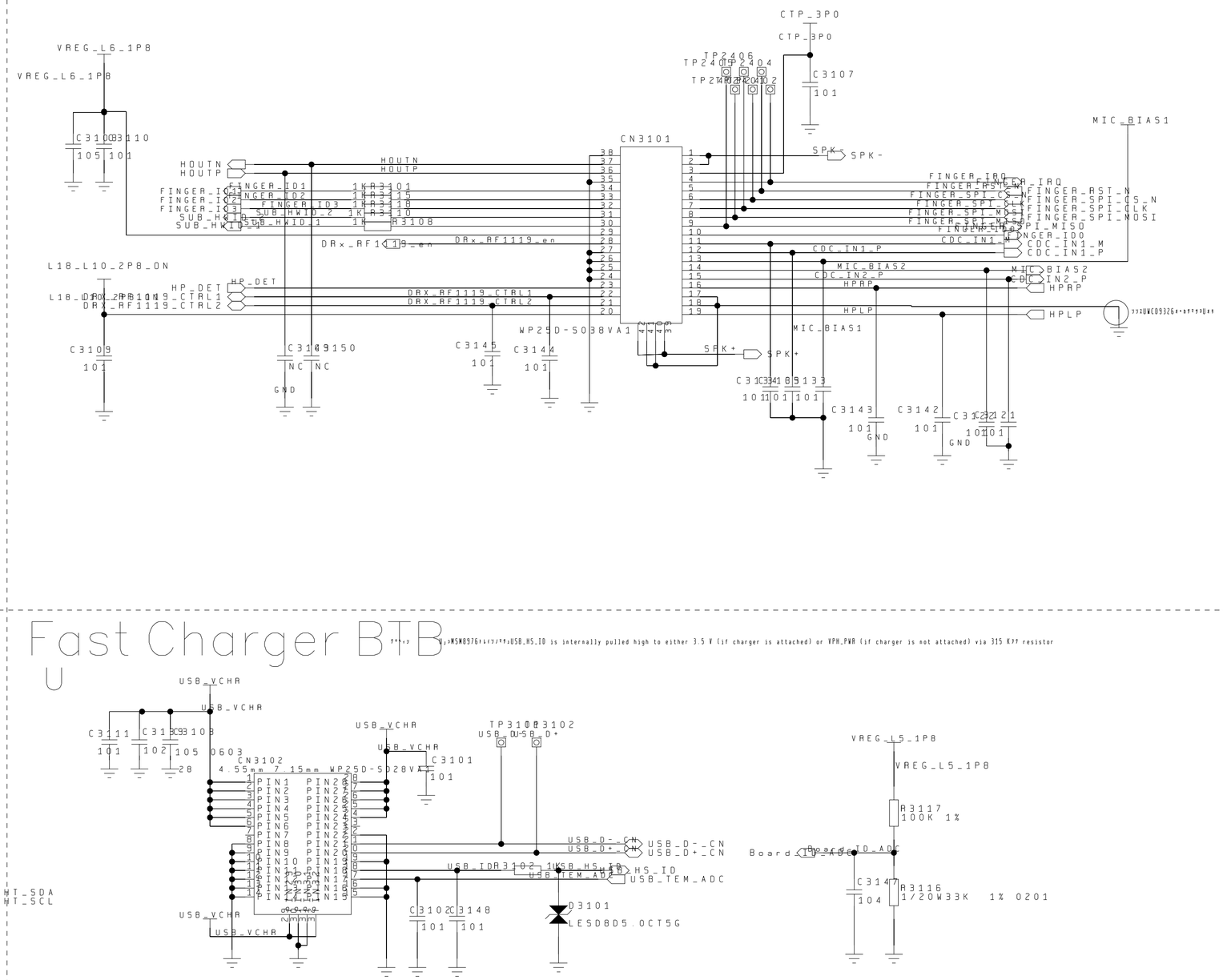




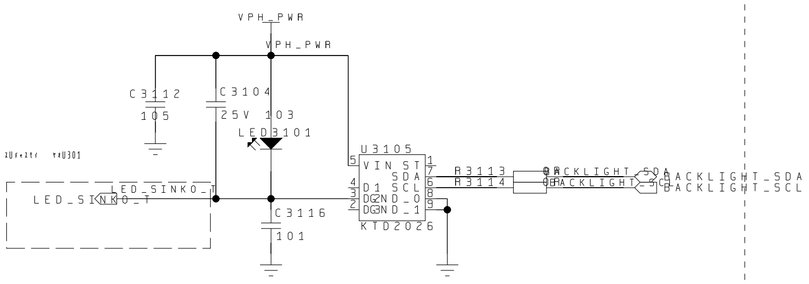


FPC CONNECT BTB

C A BTB K

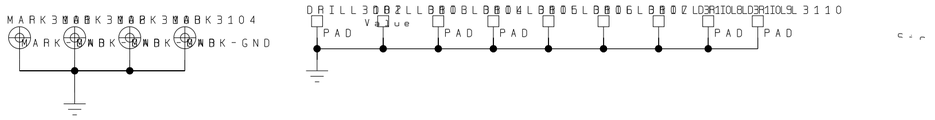


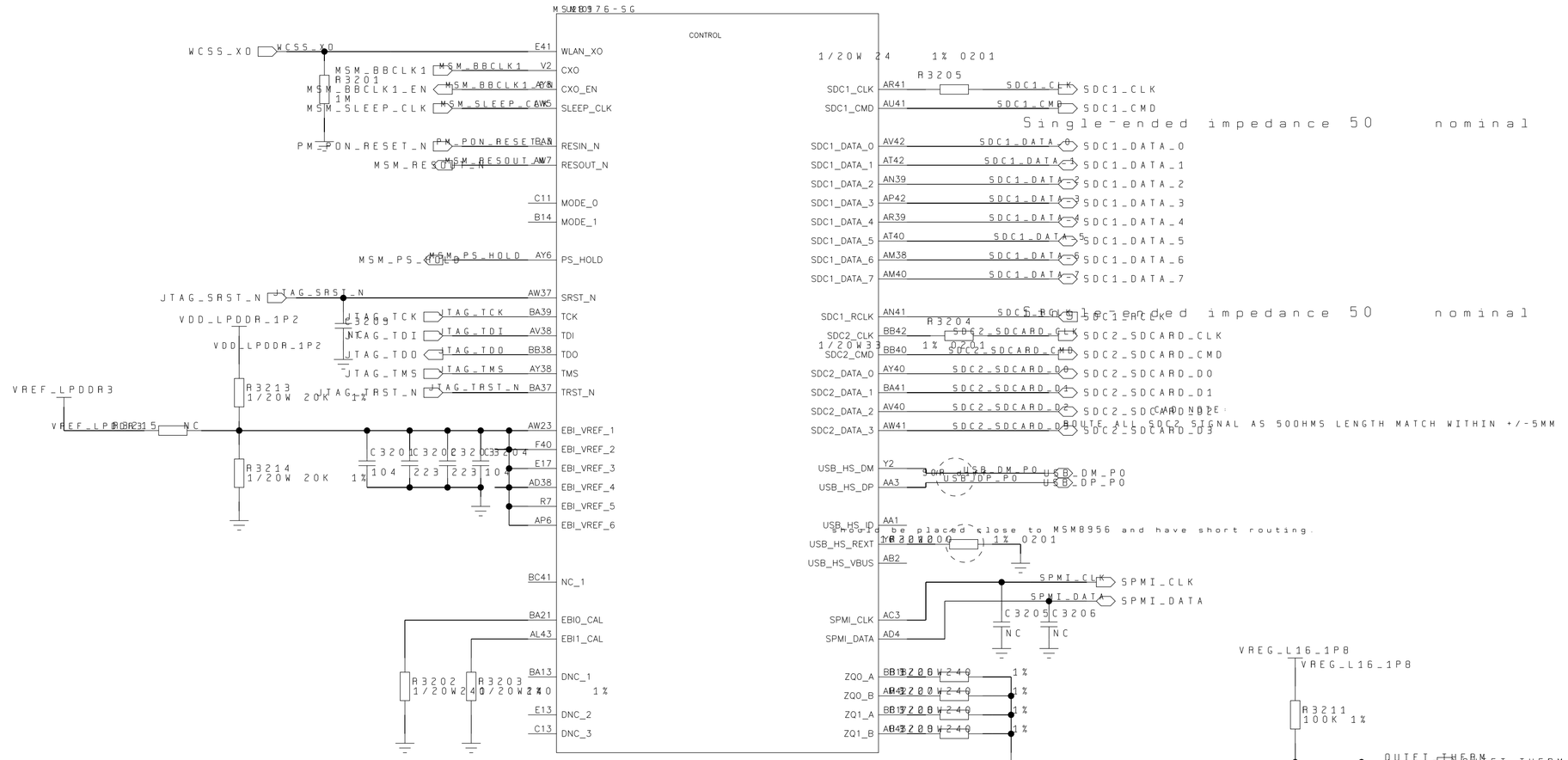
RGB LED DRIVER



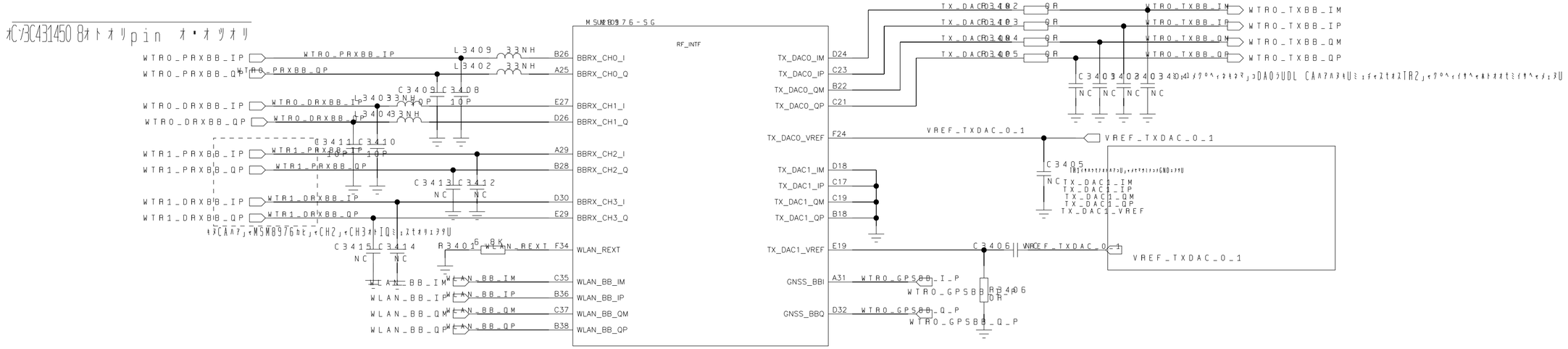
Fast Charger BTB

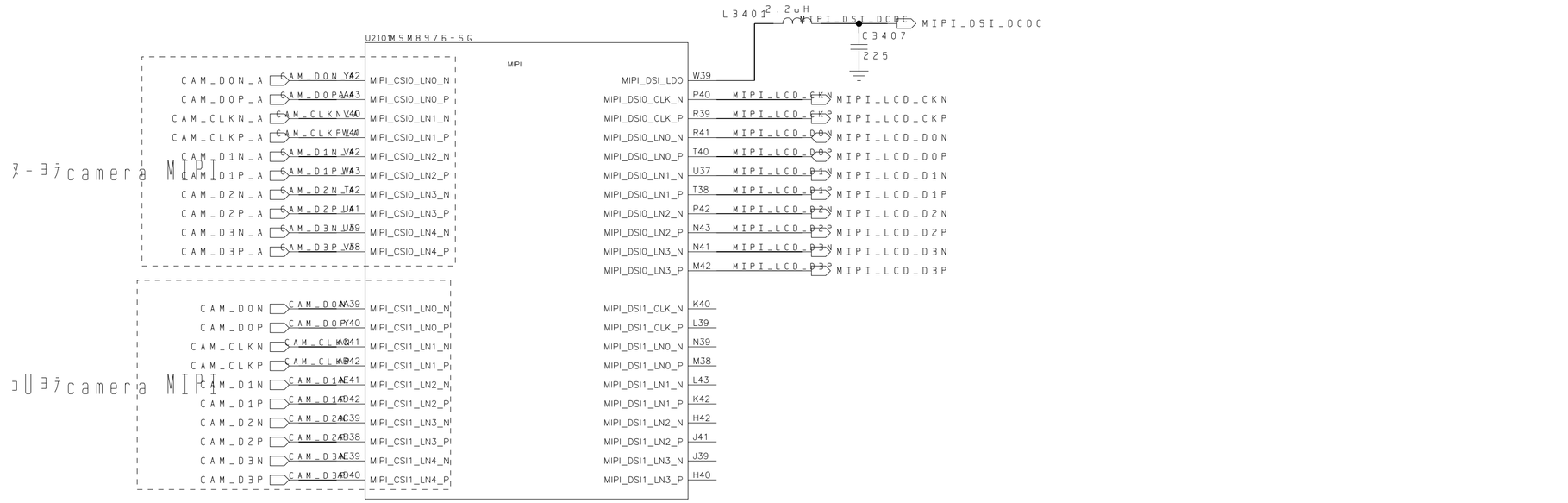
MARK POINT




MSM8956-SG
CONTROL
WCSS_XO
WCSS_XO
E41
WLAN_XO
MSM_BBCLK1
R3201
1M
MSM_BBCLK1_EN
MSM_SLEEP_CLK
V2
CXO
AY8
CXO_EN
AW5
SLEEP_CLK
PM_PON_RESET_N
PM_PON_RESET_N
AW6
RESIN_N
MSM_RESOUT_N
MSM_RESOUT_N
AW7
RESOUT_N
C11
MODE_0
B14
MODE_1
MSM_PS_HOLD
MSM_PS_HOLD
AY6
PS_HOLD
JTAG_SRST_N
JTAG_SRST_N
AW37
SRST_N
VDD_LPDDR_1P2
C3209
NC
JTAG_TCK
JTAG_TCK
BA39
TCK
JTAG_TDI
JTAG_TDI
AV38
TDI
VDD_LPDDR_1P2
JTAG_TDO
JTAG_TDO
BB38
TDO
JTAG_TMS
JTAG_TMS
AY38
TMS
R3213
1/20W 20K 1%
JTAG_TRST_N
JTAG_TRST_N
BA37
TRST_N
VREF_LPDDR3
VREF_LPDDR3
R3215
NC
AW23
EBI_VREF_1
C3201 104
C3202 223
C3203 223
C3204 104
F40
EBI_VREF_2
E17
EBI_VREF_3
R3214
1/20W 20K 1%
AD38
EBI_VREF_4
R7
EBI_VREF_5
AP6
EBI_VREF_6
BC41
NC_1
BA21
EBI0_CAL
AL43
EBI1_CAL
R3202
1/20W 240 1%
R3203
1/20W 240 1%
BA13
DNC_1
E13
DNC_2
C13
DNC_3
1/20W 24 1% 0201
R3205
SDC1_CLK
AR41
SDC1_CLK
SDC1_CLK
SDC1_CMD
AU41
SDC1_CMD
SDC1_CMD
Single-ended impedance 50 nominal
SDC1_DATA_0
AV42
SDC1_DATA_0
SDC1_DATA_0
SDC1_DATA_1
AT42
SDC1_DATA_1
SDC1_DATA_1
SDC1_DATA_2
AN39
SDC1_DATA_2
SDC1_DATA_2
SDC1_DATA_3
AP42
SDC1_DATA_3
SDC1_DATA_3
SDC1_DATA_4
AR39
SDC1_DATA_4
SDC1_DATA_4
SDC1_DATA_5
AT40
SDC1_DATA_5
SDC1_DATA_5
SDC1_DATA_6
AM38
SDC1_DATA_6
SDC1_DATA_6
SDC1_DATA_7
AM40
SDC1_DATA_7
SDC1_DATA_7
SDC1_RCLK
AN41
SDC1_RCLK
SDC1_RCLK
Single-ended impedance 50 nominal
R3204
1/20W33 1% 0201
SDC2_CLK
BB42
SDC2_SDCARD_CLK
SDC2_SDCARD_CLK
SDC2_CMD
BB40
SDC2_SDCARD_CMD
SDC2_SDCARD_CMD
SDC2_DATA_0
AY40
SDC2_SDCARD_D0
SDC2_SDCARD_D0
SDC2_DATA_1
BA41
SDC2_SDCARD_D1
SDC2_SDCARD_D1
SDC2_DATA_2
AV40
SDC2_SDCARD_D2
SDC2_SDCARD_D2
SDC2_DATA_3
AW41
SDC2_SDCARD_D3
SDC2_SDCARD_D3
ROUTE ALL SDC2 SIGNAL AS 50OHMS LENGTH MATCH WITHIN +/-5MM
USB_HS_DM
Y2
90R USB_DM_P0
USB_DM_P0
USB_DM_P0
USB_HS_DP
AA3
USB_DP_P0
USB_DP_P0
USB_DP_P0
USB_HS_ID
AA1
should be placed close to MSM8956 and have short routing.
R3200
USB_HS_REXT
200 1% 0201
USB_HS_VBUS
AB2
SPMI_CLK
SPMI_CLK
SPMI_DATA
SPMI_DATA
SPMI_CLK
AC3
SPMI_DATA
AD4
C3205
NC
C3206
NC
ZQ0_A
BB1
R3207
1/20W 240 1%
ZQ0_B
AB1
R3208
1/20W 240 1%
ZQ1_A
BB3
R3209
1/20W 240 1%
ZQ1_B
AB3
R3210
1/20W 240 1%
VREG_L16_1P8
VREG_L16_1P8
R3211
100K 1%
QUIET_THERM
QUIET_THERM
R3212
C3208
NC
NTC 100K 1% B=4250K 0402
TP3200
TP3201
TP3202
TP3203
TP3204
TP3205
TP3206
TP3207
TP3208
TP-0_25
VREG_L5_1P8
VREG_L5_1P8
JTAG_SRST_N
JTAG_SRST_N
JTAG_TCK
JTAG_TCK
JTAG_TDI
JTAG_TDI
JTAG_TDO
JTAG_TDO
JTAG_TMS
JTAG_TMS
JTAG_TRST_N
JTAG_TRST_N

HW_ID1
HW_ID3
R3317 2.2K
R3319 2.2K
MSM8976-SG
GPIO1
Boot GPIO
GPIO_0 FINGER_SPI_MOSI
GPIO_1 FINGER_SPI_MISO
GPIO_2 FINGER_SPI_CS_N
GPIO_3 FINGER_SPI_CLK
GPIO_4 UTXD0
GPIO_5 URXD0
GPIO_6 BACKLIGHT_SDA
GPIO_7 BACKLIGHT_SCL
GPIO_8 Gsensor_SPI_MOSI
GPIO_9 Gsensor_SPI_MISO
GPIO_10 Gsensor_SPI_CS_N
GPIO_11 Gsensor_SPI_CLK
GPIO_12 LCD_ID
GPIO_13 TFA9890_RST
GPIO_14 TP_SDA
GPIO_15 TP_SCL
GPIO_16
GPIO_17 PDN_AK4375
GPIO_18 AUDIO_SDA
GPIO_19 AUDIO_SCL
GPIO_20
GPIO_21
GPIO_22 GUAGE_NFC_SDA
GPIO_23 GUAGE_NFC_SCL
GPIO_24 LCD_TE
GPIO_25 LCD_RST_N
GPIO_26 CAMO_MCLK
GPIO_27 VCAMA_LDO_EN
GPIO_28 CAM1_MCLK
GPIO_29 CAM_SDA
GPIO_30 CAM_SCL
GPIO_31 VCAMA_AVDD_EN
GPIO_32 FLASH_EN
GPIO_33 VCAMA_DRI_AVDD_EN
GPIO_34 LCD_5V_EN
GPIO_35
GPIO_36 CAMO_PDN
BLSP1
BLSP2
BLSP3
BLSP4
BLSP8
BLSP6
L33015NH
C3311 C3312
33P 33P
IC-MSM8976PRO
GPIO_37 FORCE_USB_BOOT
GPIO_38 CAM1_PDN
GPIO_39 WCSS_BT_SSBI
GPIO_40 WCSS_WLAN_DATA_2
GPIO_41 WCSS_WLAN_DATA_1
GPIO_42 WCSS_WLAN_DATA_0
GPIO_43 WCSS_WLAN_SET
GPIO_44 WCSS_WLAN_CLK
GPIO_45
GPIO_46
GPIO_47 WCSS_BT_CTRL
GPIO_48 WCSS_BT_DAT
GPIO_49 FINGER_IRQ
GPIO_50 FINGER_RST_N
GPIO_51 M_SENSOR_RSTN
GPIO_52
GPIO_53 UIM2_DATA
GPIO_54 UIM2_CLK
GPIO_55 UIM2_RESET
GPIO_56 UIM_INT_SIM2
GPIO_57 UIM1_DATA
GPIO_58 UIM1_CLK
GPIO_59 UIM1_RESET
GPIO_60 UIM_INT_SIM1
GPIO_61 UIM_BATT_ALM
GPIO_62 BL_CTL
GPIO_63 GPIO_TF_EN
GPIO_64 TS_RST
GPIO_65 TS_INT_N
GPIO_66 SW_CTL2
GPIO_67 AP_DATA
GPIO_68 SW_CTRL
GPIO_69 PWR_ON_CONF_1
GPIO_70 RFFE1_CLK
GPIO_71 RFFE1_DATA
GPIO_72 RFFE2_CLK
GPIO_73 RFFE2_DATA
DMIC
R3301 NC
FINGER_ID0
GPIO1 Boot GPIO
BOOT_CONFIG
GPIO_B28A_B28B
BOOT_CONFIG[2]
GPIO_B28A_B28B
BOOT_CONFIG[3]
GPIO_B28A_B28B
UIM1_CLK_GPIO_B28A_B28B
UIM1_DATA_GPIO_B28A_B28B
UIM_BATT_ALM_GPIO_B28A_B28B
UIM_INT_SIM1_GPIO_B28A_B28B
UIM_RESET_GPIO_B28A_B28B
UIM2_CLK_GPIO_B28A_B28B
UIM2_DATA_GPIO_B28A_B28B
UIM_INT_SIM2_GPIO_B28A_B28B
BOOT_CONFIG[1:0] BOOT_CONFIG
00 SDC2 -> SDCARD
01 SDC2 -> USB2.0
10 SDC1 -> USB2.0
11 USB20
Value-MSM8976-SG
GPIO2
Boot GPIO
GPIO_74 RFFE3_CLK
GPIO_75 RFFE3_DATA
GPIO_76 RFFE5_CLK
GPIO_77 RFFE5_DATA
GPIO_78 RFFE4_CLK
GPIO_79 RFFE4_DATA
GPIO_80 PRX_RF1119_en
GPIO_81 GRFC_14_TX_B28A_B28B
GPIO_82 GRFC_2_PRX_RF1119_CTRL1
GPIO_83 GRFC_3_PRX_RF1119_CTRL2
GPIO_84 GRFC_4_DPDT_CTL1
GPIO_85 DRX_RF1119_CTRL1
GPIO_86 GRFC_6_PRX_RF1118_CTRL1
GPIO_87 GRFC_7_PDRX
GPIO_88 GRFC_6_PRX_RF1118_CTRL2
GPIO_89 DRX_B1_eLNA_en
GPIO_90 GRFC_11_PRX_B20_B28A_B28B
GPIO_91 DRX_B3_eLNA_en
GPIO_92 DA_switch_B28_2nd_gen_CTRL1
GPIO_93 DRX_RF1119_CTRL2
GPIO_94 DRX_B28_eLNA_en
GPIO_95 HW_ID1
GPIO_96 DRx_RF1119_en
GPIO_97 HW_ID3
GPIO_98 GPS_EXT_LNA_EN
GPIO_99 GSM_TX_PHASE
GPIO_100 EINT_SD
GPIO_101 SUB_HWID_2
GPIO_102 I2S2_ADCDAT_SMPA
GPIO_103 FINGER_ID2
GPIO_104 FINGER_ID1
GPIO_105 I2S2_BCLK_SMPA
GPIO_106 FINGER_IRQ
GPIO_107 HALL_INT
GPIO_108 BLSP7_SPI_MOSI
GPIO_109 BLSP7_SPI_MISO
I2S2
BLSP7
IC-MSM8976PRO
GPIO_110 BLSP7_SPI_CS_N
GPIO_111 BLSP7_SPI_CLK
GPIO_112
GPIO_113 KCOL0_VOL+
GPIO_114 LCD_TE
GPIO_115 KCOL1_VOL-
GPIO_116 PM_PDM_CLK
GPIO_117 PM_PDM_SYNC
GPIO_118 PM_PDM_TX
GPIO_119 PM_PDM_RX0
GPIO_120 PM_PDM_RX1
GPIO_121 PM_PDM_RX2
GPIO_122
GPIO_123 I2S1_LRCK_CODEC
GPIO_124 I2S1_BCK_CODEC
GPIO_125 I2S1_DO_CODEC
GPIO_126 I2S1_MCK_CODEC
GPIO_127 SUB_HWID_1
GPIO_128 LCD_5V_EN
GPIO_129 CAMO_RESET
GPIO_130 CTP_AVDD_EN
GPIO_131 CAM1_RESET
GPIO_132 MCU_EN
GPIO_133 TP_LCD_1V8_EN
GPIO_134 I2S2_LRCLK_SMPA
GPIO_135 I2S2_DACDAT_SMPA
GPIO_136 SENSOR_SDA
GPIO_137 SENSOR_SCL
GPIO_138 EINT_G_SENSOR
GPIO_139 EINT1_GYRO
GPIO_140
GPIO_141 EINT_ALPS
GPIO_142 FINGER_ID3
GPIO_143 PWR_ON_CONF_0
GPIO_144 AP_CLK
BLSP5
BLSP7
I2S2
I2S
PDM
C3309 NC
C3310 NC
R3320 NC
PLACE-FILTER CLOSE TO MSM
Speed double check TX or RX
Note: Asterisks (*) indicate modem power management (MPM) wake-up pins
VREG_L22_1P8
R3303 2.2K
R3304 2.2K
CAM_SDA
CAM_SCL
CAM_I2C_SDA0
I2C/I2C
MAIN CAMERA 0x35
Sub Camera 0x21
Flash Driver 0xC7 0xC6
VREG_L5_1P8
EXT BUCK, SMB
R3305 2.2K
R3306 2.2K
GUAGE_NFC_SDA
GUAGE_NFC_SCL
I2C/I
FAN53526 0x60 0xA8 0xC1
VREG_L6_1P8
TOUCHSCREEN
R3307 2.2K
R3308 2.2K
TP_SDA
TP_SCL
TP_I2C_SDA
I2C/I(I2C0 MT6755(0x3)
TP 0x41
TPS65132 0x70
sensor
R3310 2.2K
R3311 2.2K
SENSOR_SDA
SENSOR_SCL
I2C/I
LSM6DS3 0x05 0x6A
ALS+PS 0x39
M-sensor
Audio
R3312 2.2K
R3313 2.2K
AUDIO_SDA
AUDIO_SCL
BACKLIGHT_SDA
BACKLIGHT_SCL
I2C/I
Smart PA 0x60 0x21
AK4376
TOUCHSCREEN
R3321 2.2K
R3322 2.2K
I2C/I
LM3697 0x41 0x40
KTD2026 0x61 0x60


WTR0_PRXBB_IP
WTR0_PRXBB_QP
WTR0_DRXBB_IP
WTR0_DRXBB_QP
WTR1_PRXBB_IP
WTR1_PRXBB_QP
WTR1_DRXBB_IP
WTR1_DRXBB_QP
WLAN_REXT
WLAN_BB_IM
WLAN_BB_IP
WLAN_BB_QM
WLAN_BB_QP
BBRX_CH0_I
BBRX_CH0_Q
BBRX_CH1_I
BBRX_CH1_Q
BBRX_CH2_I
BBRX_CH2_Q
BBRX_CH3_I
BBRX_CH3_Q
RF_INTF
TX_DAC0_IM
TX_DACO_IP
TX_DACO_QM
TX_DACO_QP
TX_DAC0_VREF
TX_DAC1_IM
TX_DAC1_IP
TX_DAC1_QM
TX_DAC1_QP
TX_DAC1_VREF
GNSS_BBI
GNSS_BBQ
WTR0_TXBB_IM
WTR0_TXBB_IP
WTR0_TXBB_QM
WTR0_TXBB_QP
VREF_TXDAC_0_1
WTR0_GPSBB_I_P
WTR0_GPSBB_Q_P


MIPI
MIPI_DSI_LDO
MIPI_DSI_DCDC
MIPI_CSI0_LN0_N
MIPI_CSI0_LN0_P
MIPI_CSI0_LN1_N
MIPI_CSI0_LN1_P
MIPI_CSI0_LN2_N
MIPI_CSI0_LN2_P
MIPI_CSI0_LN3_N
MIPI_CSI0_LN3_P
MIPI_CSI0_LN4_N
MIPI_CSI0_LN4_P
MIPI_DSI0_CLK_N
MIPI_DSI0_CLK_P
MIPI_DSI0_LN0_N
MIPI_DSI0_LN0_P
MIPI_DSI0_LN1_N
MIPI_DSI0_LN1_P
MIPI_DSI0_LN2_N
MIPI_DSI0_LN2_P
MIPI_DSI0_LN3_N
MIPI_DSI0_LN3_P
MIPI_CSI1_LN0_N
MIPI_CSI1_LN0_P
MIPI_CSI1_LN1_N
MIPI_CSI1_LN1_P
MIPI_CSI1_LN2_N
MIPI_CSI1_LN2_P
MIPI_CSI1_LN3_N
MIPI_CSI1_LN3_P
MIPI_CSI1_LN4_N
MIPI_CSI1_LN4_P
MIPI_DSI1_CLK_N
MIPI_DSI1_CLK_P
MIPI_DSI1_LN0_N
MIPI_DSI1_LN0_P
MIPI_DSI1_LN1_N
MIPI_DSI1_LN1_P
MIPI_DSI1_LN2_N
MIPI_DSI1_LN2_P
MIPI_DSI1_LN3_N
MIPI_DSI1_LN3_P
MIPI_LCD_CKN
MIPI_LCD_CKP
MIPI_LCD_D0N
MIPI_LCD_D0P
MIPI_LCD_D1N
MIPI_LCD_D1P
MIPI_LCD_D2N
MIPI_LCD_D2P
MIPI_LCD_D3N
MIPI_LCD_D3P

MSM8976-F

MSM8976-SG

PWR1

VDD1 for mVREG_L5_1P8

VDD2 for mVDD_PDDR_1P2

On-chip VREG_S6A_0P95 (MX)

VDD_MEM

Power domain	VDD_MEM
DC to 10 Hz resistance(m	5
10 Hz to 25 MHz(m	see pin mark
positive port	
negative port	

Power domain	VDD_CORE
DC to 10 Hz resistance(m	5)
10 Hz to 25 MHz(m	see pin mark other 31
positive port	Digital core circuits
negative port	

VREG_L6_1P8 programming voltage

VDD_PX_BIAS

VREG_L7_1P8 1.8V voltage analog circuits

VREG_L23_1P3 1.3V voltage analog circuits

(A53 APPS POWER CORE)

VREG_S5A_0P9 AVS supported 0.9V microprocessors

Power domain	VDD_A53
DC to 10 Hz resistance(m	3)
10 Hz to 25 MHz(m	30
positive port	AN20.AL26.AL24.AL20.AJ20.AE24.AD25.AD24.AB24.AA24.AR31.U9.U17.U20.U24.V9.V17.V20.V24.V27.W34.Y20
negative port	AB18.AB29.AC18.AD18.AD22.AD29.AE26.AH18.AH22.AR18.AR22.AR26

(A5x APPS PERFORMANCE CORE)

VREG_S2C_S4C_0P9 AVS supported 0.9V microprocessors

Power domain	VDD_A72
DC to 10 Hz resistance(m	2)
10 Hz to 25 MHz(m	17
positive port	AV8.AU17.AU13.AU9.AR17.AM16.AM12.AL28.AL22.AL17.AL7.AJ15.AA12.AA16.AB9.AD17.AE13.AE17.AE18.AE9.AF12.AG7.Y13.Y17.Y18.Y9.AT18.AA10.AA7.AB18.AC18.AD18.AD22.AD9.AE11.AE15.AF10.AG15.AG22.AH5.AH14.AH21.AJ11.AJ18.AJ22.AJ7.AK8.AL15.AL22.AM10.AM6.AN18.AN9.AP18.AR18.AR22.AU11.AU15.AU3.AU7.AW21.AY12.V11.V15.V18.V22.Y11.Y15
negative port	

VREG_S3A_0P8 0.8V digital calibration delay circuits

MSM8976-SG

PWR2

VDD_PDDR_1P2 1.2V DDR_1P2 BI pads

Power domain	VDD_P1
DC to 10 Hz resistance(m	5)
10 Hz to 25 MHz(m	83
positive port	
negative port	

VREG_L12_2P95 SDC2 pads

VREG_L5_1P8 Most digital I/O pads

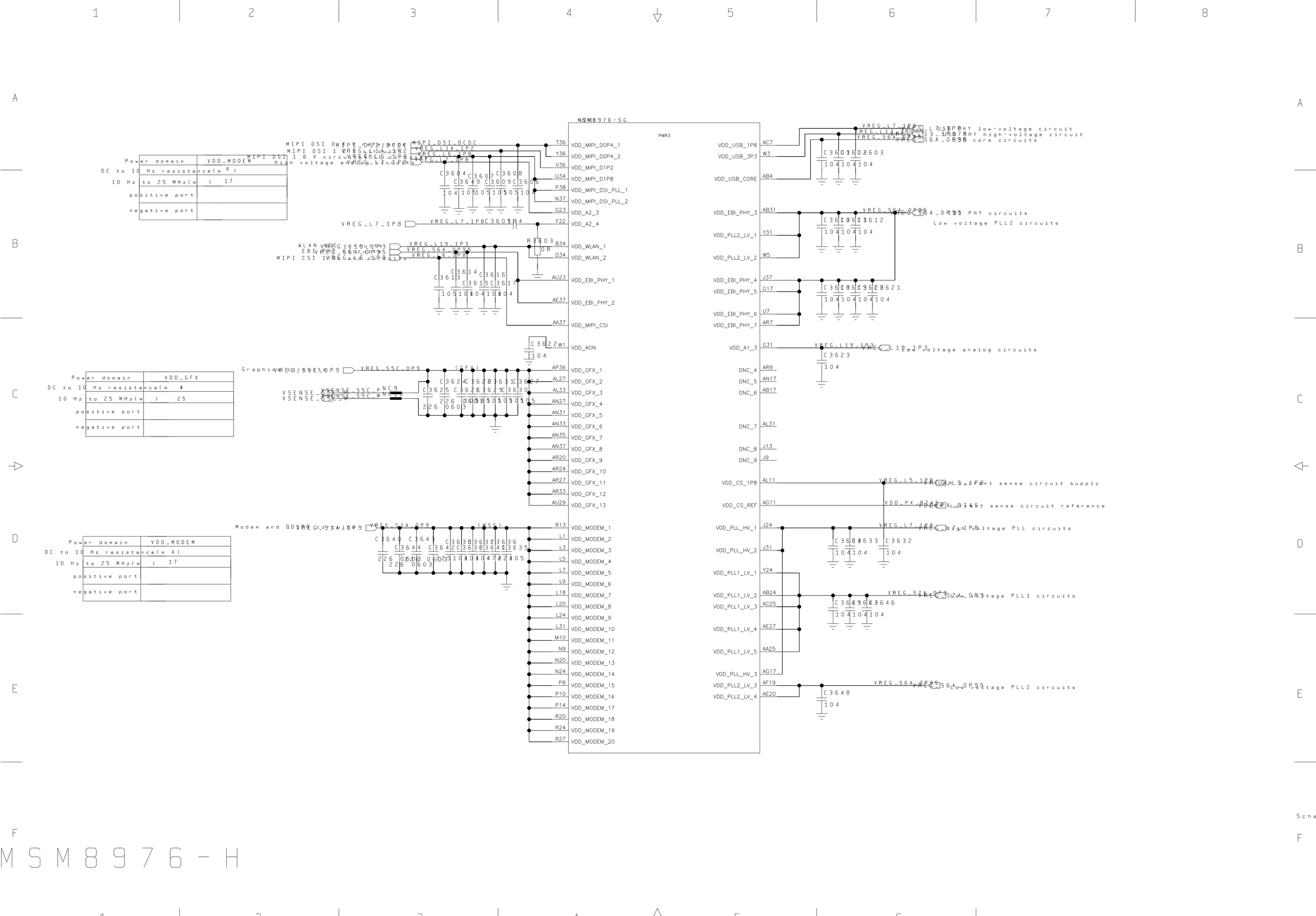
UIM3 pads

VREG_L14_UIM1 UIM1 pads

VREG_L15_UIM2 UIM2 pads

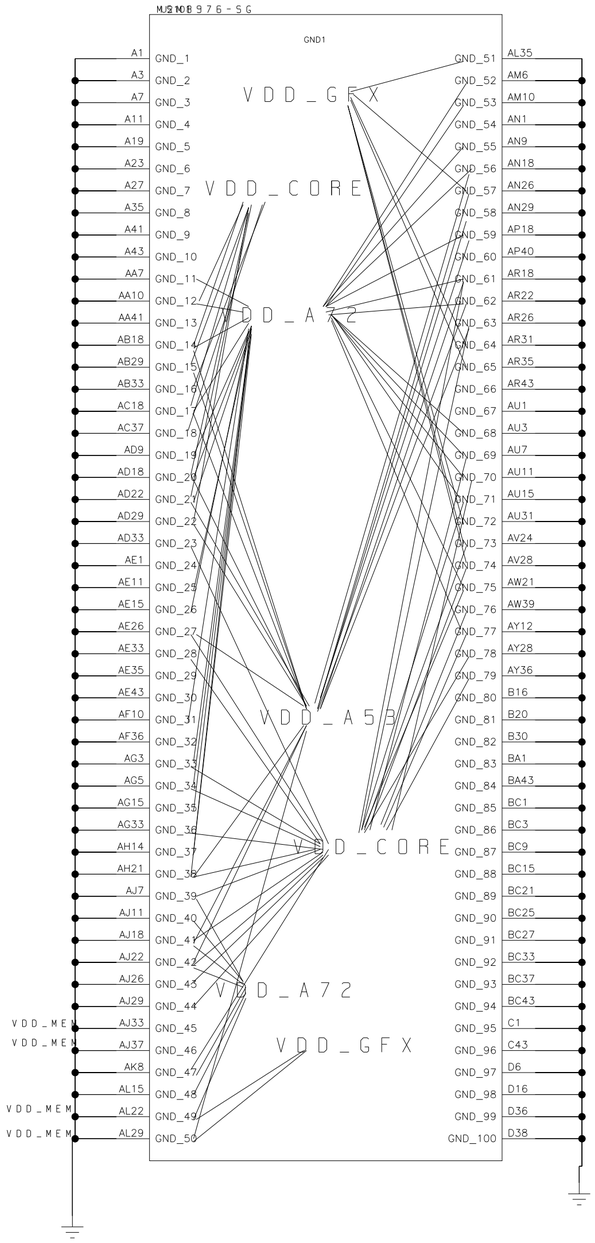
VREG_L5_1P8 SDC1 pads

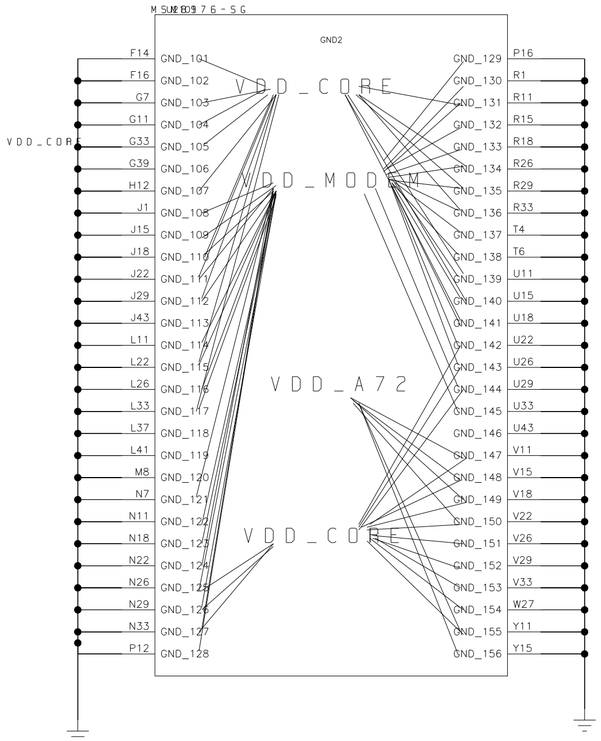
MSM8976-G

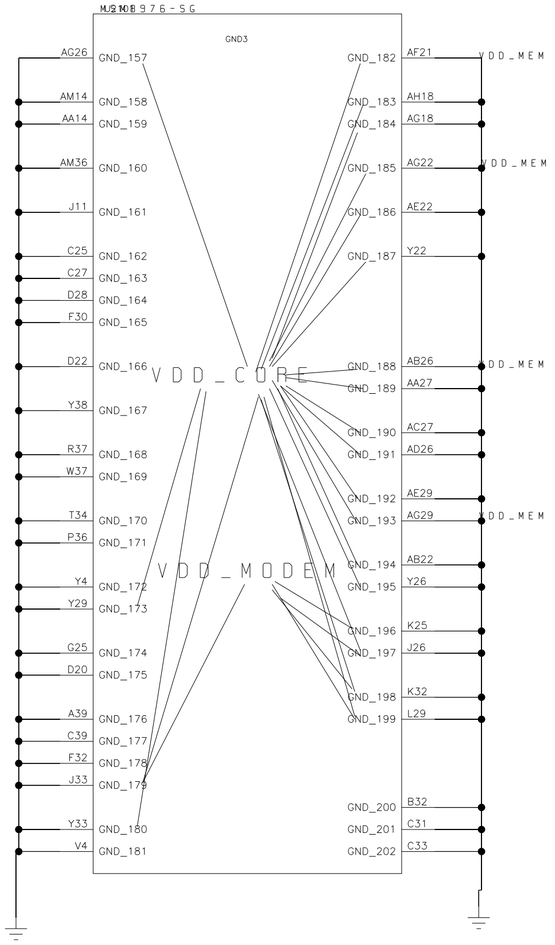


MSM8976-SG
PWR3
VDD_MIPI_DOP4_1
VDD_MIPI_DOP4_2
VDD_MIPI_D1P2
VDD_MIPI_D1P8
VDD_MIPI_DSI_PLL_1
VDD_MIPI_DSI_PLL_2
VDD_A2_3
VDD_A2_4
VDD_WLAN_1
VDD_WLAN_2
VDD_EBI_PHY_1
VDD_EBI_PHY_2
VDD_MIPI_CSI
VDD_AON
VDD_GFX_1
VDD_GFX_2
VDD_GFX_3
VDD_GFX_4
VDD_GFX_5
VDD_GFX_6
VDD_GFX_7
VDD_GFX_8
VDD_GFX_9
VDD_GFX_10
VDD_GFX_11
VDD_GFX_12
VDD_GFX_13
VDD_MODEM_1
VDD_MODEM_2
VDD_MODEM_3
VDD_MODEM_4
VDD_MODEM_5
VDD_MODEM_6
VDD_MODEM_7
VDD_MODEM_8
VDD_MODEM_9
VDD_MODEM_10
VDD_MODEM_11
VDD_MODEM_12
VDD_MODEM_13
VDD_MODEM_14
VDD_MODEM_15
VDD_MODEM_16
VDD_MODEM_17
VDD_MODEM_18
VDD_MODEM_19
VDD_MODEM_20
VDD_USB_1P8
VDD_USB_3P3
VDD_USB_CORE
VDD_EBI_PHY_3
VDD_PLL2_LV_1
VDD_PLL2_LV_2
VDD_EBI_PHY_4
VDD_EBI_PHY_5
VDD_EBI_PHY_6
VDD_EBI_PHY_7
VDD_A1_3
DNC_4
DNC_5
DNC_6
DNC_7
DNC_8
DNC_9
VDD_CS_1P8
VDD_CS_REF
VDD_PLL_HV_1
VDD_PLL_HV_2
VDD_PLL1_LV_1
VDD_PLL1_LV_2
VDD_PLL1_LV_3
VDD_PLL1_LV_4
VDD_PLL1_LV_5
VDD_PLL_HV_3
VDD_PLL2_LV_3
VDD_PLL2_LV_4
Power domain | VDD_MODEM
DC to 10 Hz resistance(m 4)
10 Hz to 25 MHz(m) 17
positive port
negative port
Power domain | VDD_GFX
DC to 10 Hz resistance(m 4)
10 Hz to 25 MHz(m) 25
positive port
negative port
Power domain | VDD_MODEM
DC to 10 Hz resistance(m 4)
10 Hz to 25 MHz(m) 17
positive port
negative port
Low voltage PLL2 circuits
Low voltage analog circuits
Low voltage PLL1 circuits
Low voltage PLL2 circuits

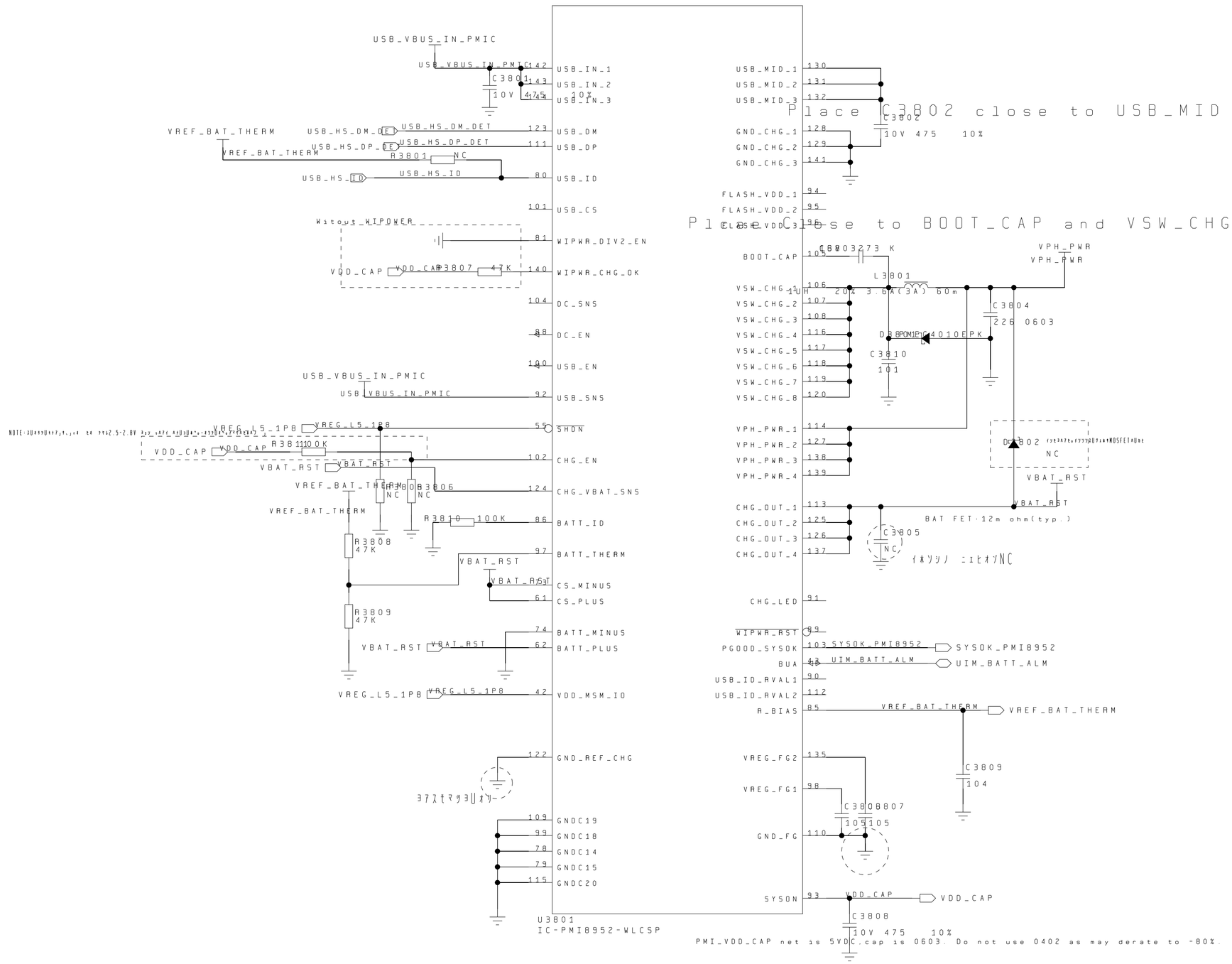
MSM8976-H


MSM8976-SG
GND1
A1 GND_1
A3 GND_2
A7 GND_3
A11 GND_4
A19 GND_5
A23 GND_6
A27 GND_7
A35 GND_8
A41 GND_9
A43 GND_10
AA7 GND_11
AA10 GND_12
AA41 GND_13
AB18 GND_14
AB29 GND_15
AB33 GND_16
AC18 GND_17
AC37 GND_18
AD9 GND_19
AD18 GND_20
AD22 GND_21
AD29 GND_22
AD33 GND_23
AE1 GND_24
AE11 GND_25
AE15 GND_26
AE26 GND_27
AE33 GND_28
AE35 GND_29
AE43 GND_30
AF10 GND_31
AF36 GND_32
AG3 GND_33
AG5 GND_34
AG15 GND_35
AG33 GND_36
AH14 GND_37
AH21 GND_38
AJ7 GND_39
AJ11 GND_40
AJ18 GND_41
AJ22 GND_42
AJ26 GND_43
AJ29 GND_44
VDD_MEM AJ33 GND_45
VDD_MEM AJ37 GND_46
AK8 GND_47
AL15 GND_48
VDD_MEM AL22 GND_49
VDD_MEM AL29 GND_50
GND_51 AL35
GND_52 AM6
GND_53 AM10
GND_54 AN1
GND_55 AN9
GND_56 AN18
GND_57 AN26
GND_58 AN29
GND_59 AP18
GND_60 AP40
GND_61 AR18
GND_62 AR22
GND_63 AR26
GND_64 AR31
GND_65 AR35
GND_66 AR43
GND_67 AU1
GND_68 AU3
GND_69 AU7
GND_70 AU11
GND_71 AU15
GND_72 AU31
GND_73 AV24
GND_74 AV28
GND_75 AW21
GND_76 AW39
GND_77 AY12
GND_78 AY28
GND_79 AY36
GND_80 B16
GND_81 B20
GND_82 B30
GND_83 BA1
GND_84 BA43
GND_85 BC1
GND_86 BC3
GND_87 BC9
GND_88 BC15
GND_89 BC21
GND_90 BC25
GND_91 BC27
GND_92 BC33
GND_93 BC37
GND_94 BC43
GND_95 C1
GND_96 C43
GND_97 D6
GND_98 D16
GND_99 D36
GND_100 D38
VDD_GFX
VDD_CORE
VDD_A72
VDD_GFX
VDD_A53
VDD_CORE
VDD_A72
VDD_GFX


MSM8976-SG
GND2
VDD_CORE F14 GND_101
F16 GND_102
G7 GND_103
G11 GND_104
G33 GND_105
G39 GND_106
H12 GND_107
J1 GND_108
J15 GND_109
J18 GND_110
J22 GND_111
J29 GND_112
J43 GND_113
L11 GND_114
L22 GND_115
L26 GND_116
L33 GND_117
L37 GND_118
L41 GND_119
M8 GND_120
N7 GND_121
N11 GND_122
N18 GND_123
N22 GND_124
N26 GND_125
N29 GND_126
N33 GND_127
P12 GND_128
GND_129 P16
GND_130 R1
GND_131 R11
GND_132 R15
GND_133 R18
GND_134 R26
GND_135 R29
GND_136 R33
GND_137 T4
GND_138 T6
GND_139 U11
GND_140 U15
GND_141 U18
GND_142 U22
GND_143 U26
GND_144 U29
GND_145 U33
GND_146 U43
GND_147 V11
GND_148 V15
GND_149 V18
GND_150 V22
GND_151 V26
GND_152 V29
GND_153 V33
GND_154 W27
GND_155 Y11
GND_156 Y15
VDD_CORE
VDD_MODEM
VDD_A72
VDD_CORE

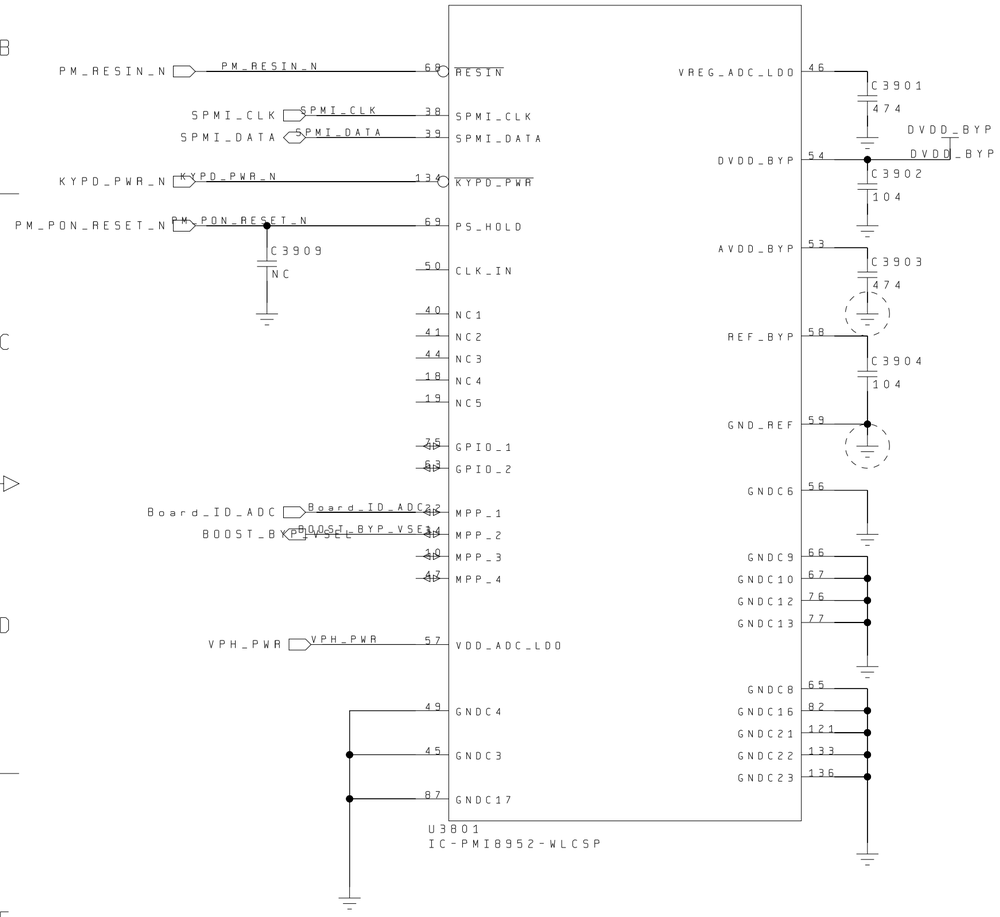

MSM8976-SG
GND3
AG26 GND_157
AM14 GND_158
AA14 GND_159
AM36 GND_160
J11 GND_161
C25 GND_162
C27 GND_163
D28 GND_164
F30 GND_165
D22 GND_166
Y38 GND_167
R37 GND_168
W37 GND_169
T34 GND_170
P36 GND_171
Y4 GND_172
Y29 GND_173
G25 GND_174
D20 GND_175
A39 GND_176
C39 GND_177
F32 GND_178
J33 GND_179
Y33 GND_180
V4 GND_181
GND_182 AF21
GND_183 AH18
GND_184 AG18
GND_185 AG22
GND_186 AE22
GND_187 Y22
GND_188 AB26
GND_189 AA27
GND_190 AC27
GND_191 AD26
GND_192 AE29
GND_193 AG29
GND_194 AB22
GND_195 Y26
GND_196 K25
GND_197 J26
GND_198 K32
GND_199 L29
GND_200 B32
GND_201 C31
GND_202 C33
VDD_MEM
VDD_MEM
VDD_MEM
VDD_CORE
VDD_MODEM
VDD_MEM

PMI8952-A

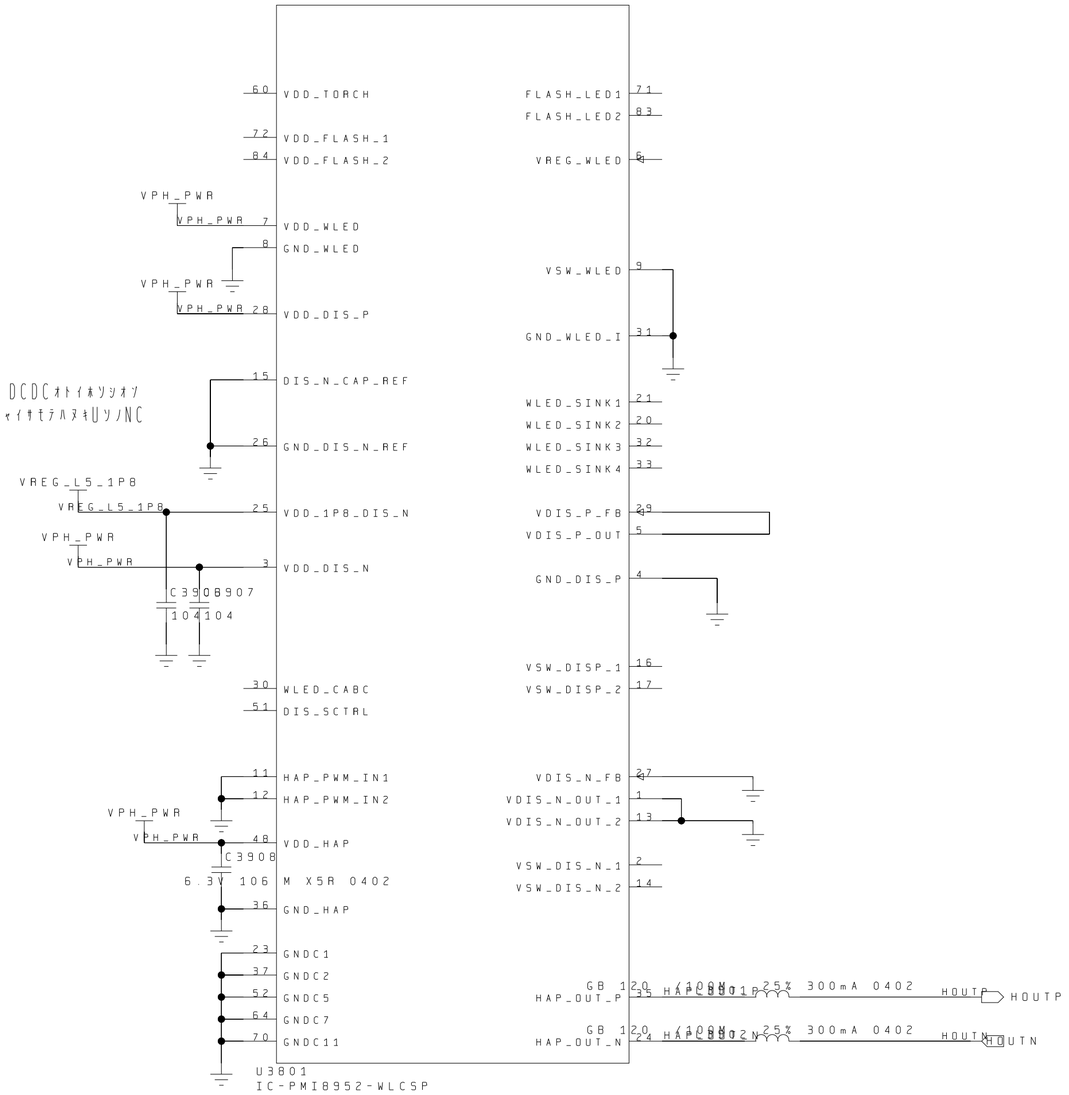


Place C3802 close to USB_MID
Place Close to BOOT_CAP and VSW_CHG
USB_VBUS_IN_PMIC
USB_IN_1
USB_IN_2
USB_IN_3
USB_DM
USB_DP
USB_ID
USB_CS
WIPWR_DIV2_EN
WIPWR_CHG_OK
DC_SNS
DC_EN
USB_EN
USB_SNS
SHDN
CHG_EN
CHG_VBAT_SNS
BATT_ID
BATT_THERM
CS_MINUS
CS_PLUS
BATT_MINUS
BATT_PLUS
VDD_MSM_IO
GND_REF_CHG
GNDC19
GNDC18
GNDC14
GNDC15
GNDC20
USB_MID_1
USB_MID_2
USB_MID_3
GND_CHG_1
GND_CHG_2
GND_CHG_3
FLASH_VDD_1
FLASH_VDD_2
FLASH_VDD_3
BOOT_CAP
VSW_CHG_1
VSW_CHG_2
VSW_CHG_3
VSW_CHG_4
VSW_CHG_5
VSW_CHG_6
VSW_CHG_7
VSW_CHG_8
VPH_PWR_1
VPH_PWR_2
VPH_PWR_3
VPH_PWR_4
CHG_OUT_1
CHG_OUT_2
CHG_OUT_3
CHG_OUT_4
CHG_LED
WIPWR_RST
PGOOD_SYSOK
BUA
USB_ID_RVAL1
USB_ID_RVAL2
R_BIAS
VREG_FG2
VREG_FG1
GND_FG
SYSON
VREF_BAT_THERM
USB_HS_DM_DET
USB_HS_DP_DET
USB_HS_ID
Witout_WIPOWER
VDD_CAP
VBAT_RST
VREG_L5_1P8
R3801 NC
R3807 47K
R3808 47K
R3809 47K
R3810 100K
R3806 NC
C3801 10V 475 10%
C3802 10V 475 10%
C3803 273 K
L3801 1UH 20% 3.6A(3A) 60m
C3804 226 0603
C3810 101
C3805 NC
BAT FET:12m ohm(typ.)
C3809 104
C3808 105
C3807 105
C3808 10V 475 10%
SYSOK_PMI8952
UIM_BATT_ALM
VPH_PWR
U3801
IC-PMI8952-WLCSP
PMI_VDD_CAP net is 5VDC.cap is 0603. Do not use 0402 as may derate to -80%.

PMI8952-B

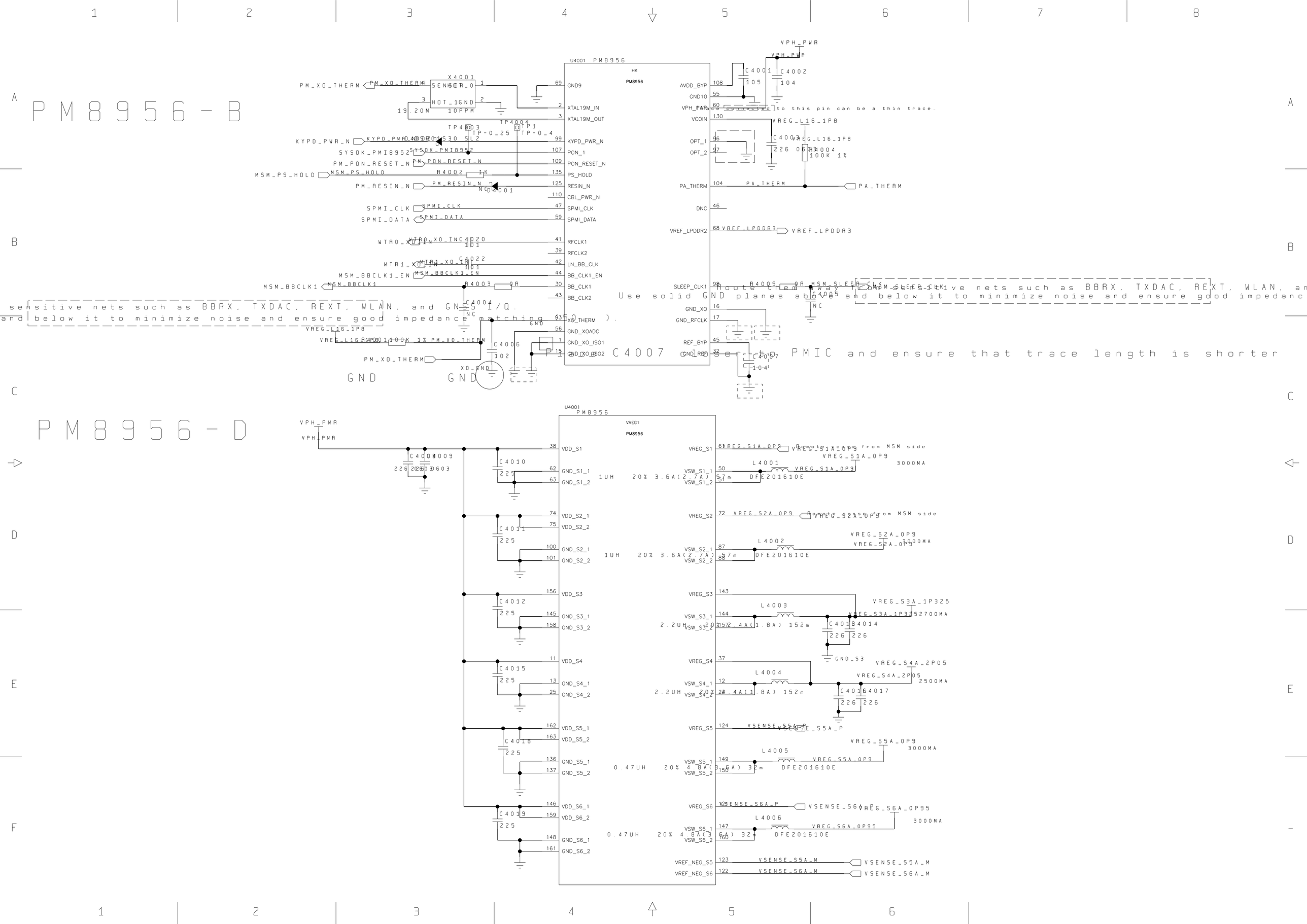


PMI8952-C

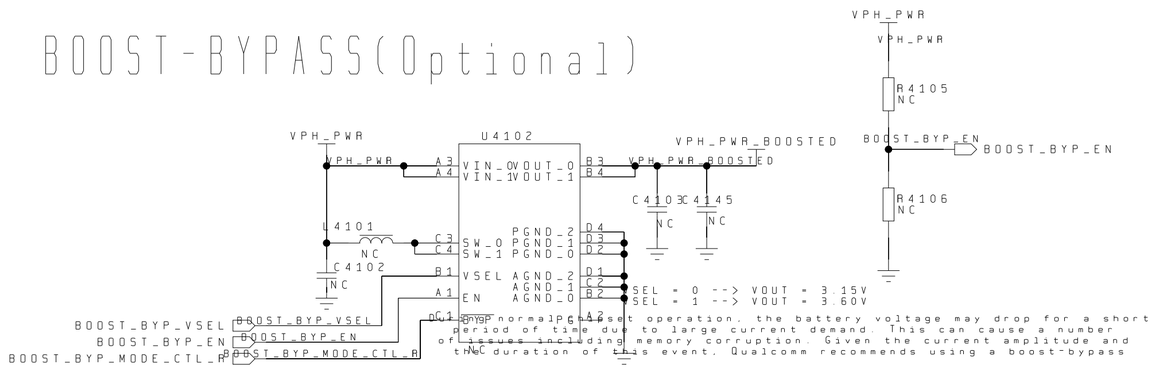


ハヒナトレ3ナナイソU7111ヤ、ヲUrrefer to 14049ヨ

KYPD_PWR_N — KYPD_PWR_N — C3902 — NC_PM_RESIN_N — PM_RESIN_N

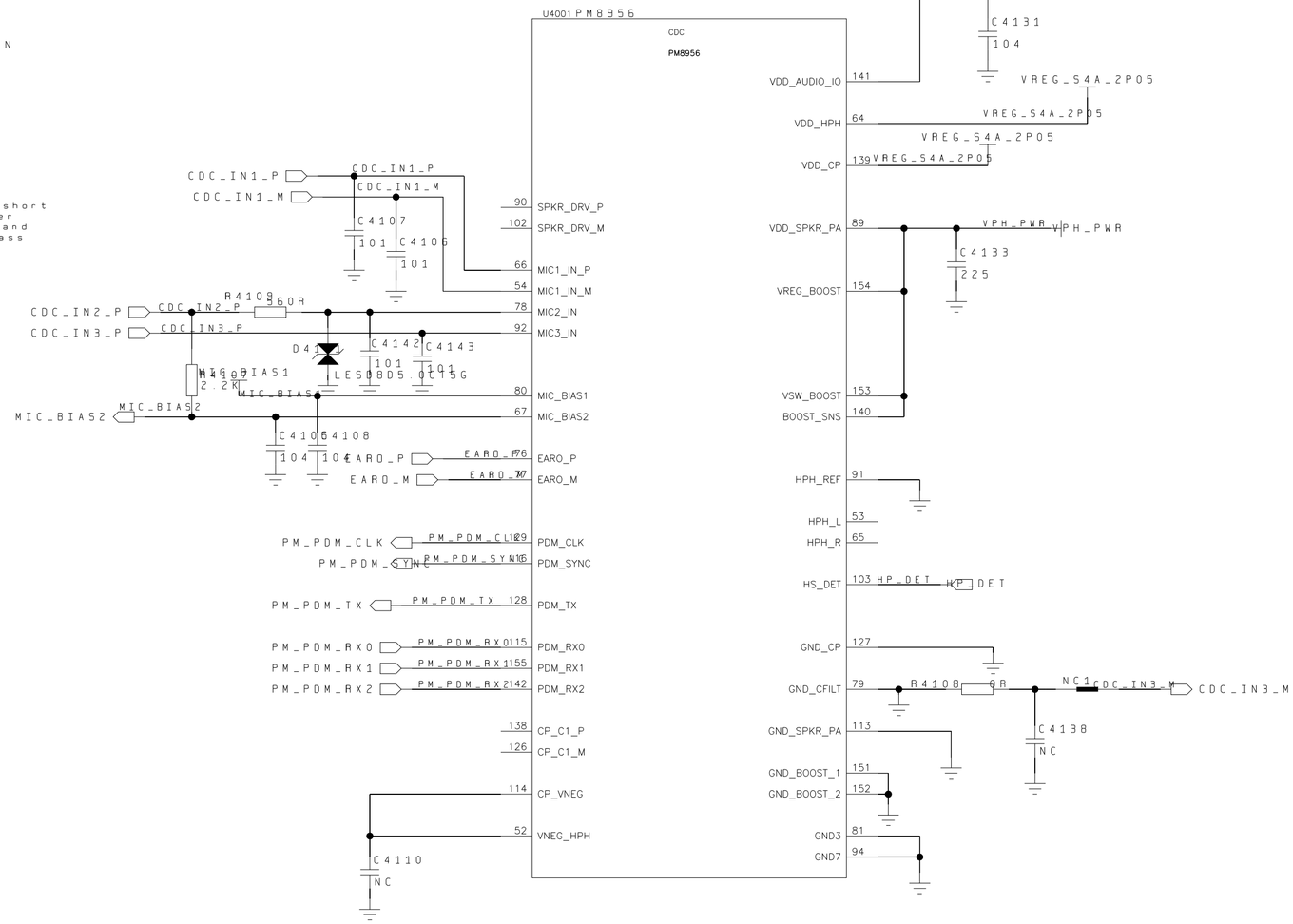

PM8956-B
PM8956-D
U4001 PM8956
HK
PM8956
VREG1
PM8956
C4007
Use solid GND planes above and below it to minimize noise and ensure good impedance
Route them away from sensitive nets such as BBRX, TXDAC, REXT, WLAN, and GNSS I/Q.
Place to PMIC and ensure that trace length is shorter
Remote sense from MSM side
GND
GND
VPH_PWR
PA_THERM
VREF_LPDDR3
VREG_L16_1P8
VREG_S1A_0P9
VREG_S2A_0P9
VREG_S3A_1P325
VREG_S4A_2P05
VREG_S5A_0P9
VREG_S6A_0P95
VSENSE_S5A_M
VSENSE_S6A_M
VSENSE_S5A_P
VSENSE_S6A_P
PM_XO_THERM
KYPD_PWR_N
SYSOK_PMI8952
PM_PON_RESET_N
MSM_PS_HOLD
PM_RESIN_N
SPMI_CLK
SPMI_DATA
WTR0_XO_IN
WTR1_XO_IN
MSM_BBCLK1_EN
MSM_BBCLK1
MSM_SLEEP_CLK
VCOIN
OPT_1
OPT_2
DNC
SLEEP_CLK1
GND_XO
GND_RFCLK
REF_BYP
GND_REF
GND9
XTAL19M_IN
XTAL19M_OUT
KYPD_PWR_N
PON_1
PON_RESET_N
PS_HOLD
RESIN_N
CBL_PWR_N
SPMI_CLK
SPMI_DATA
RFCLK1
RFCLK2
LN_BB_CLK
BB_CLK1_EN
BB_CLK1
BB_CLK2
XO_THERM
GND_XOADC
GND_XO_ISO1
GND_XO_ISO2
AVDD_BYP
GND10
VPH_PWR
VDD_S1
GND_S1_1
GND_S1_2
VDD_S2_1
VDD_S2_2
GND_S2_1
GND_S2_2
VDD_S3
GND_S3_1
GND_S3_2
VDD_S4
GND_S4_1
GND_S4_2
VDD_S5_1
VDD_S5_2
GND_S5_1
GND_S5_2
VDD_S6_1
VDD_S6_2
GND_S6_1
GND_S6_2
VREG_S1
VSW_S1_1
VSW_S1_2
VREG_S2
VSW_S2_1
VSW_S2_2
VREG_S3
VSW_S3_1
VSW_S3_2
VREG_S4
VSW_S4_1
VSW_S4_2
VREG_S5
VSW_S5_1
VSW_S5_2
VREG_S6
VSW_S6_1
VSW_S6_2
VREF_NEG_S5
VREF_NEG_S6
1UH 20% 3.6A(2.7A) 57m DFE201610E
2.2UH 20% 2.4A(1.8A) 152m
0.47UH 20% 4.8A(3.6A) 32m DFE201610E
3000MA
2500MA
2700MA

BOOST-BYPASS(Optional)

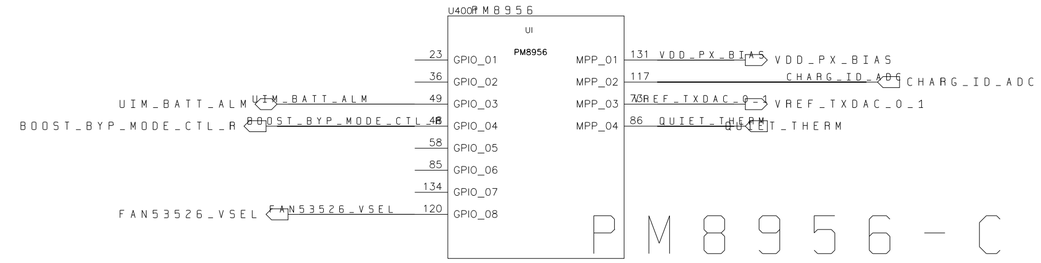


During normal Phoenix set operation, the battery voltage may drop for a short period of time due to large current demand. This can cause a number of issues including memory corruption. Given the current amplitude and the duration of this event, Qualcomm recommends using a boost-bypass

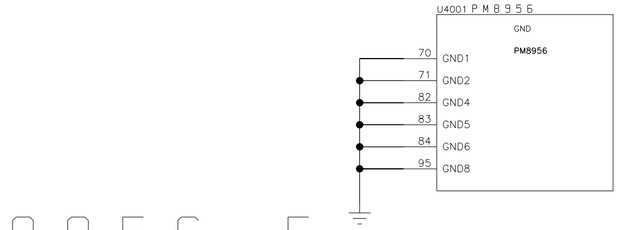
PM8956-A

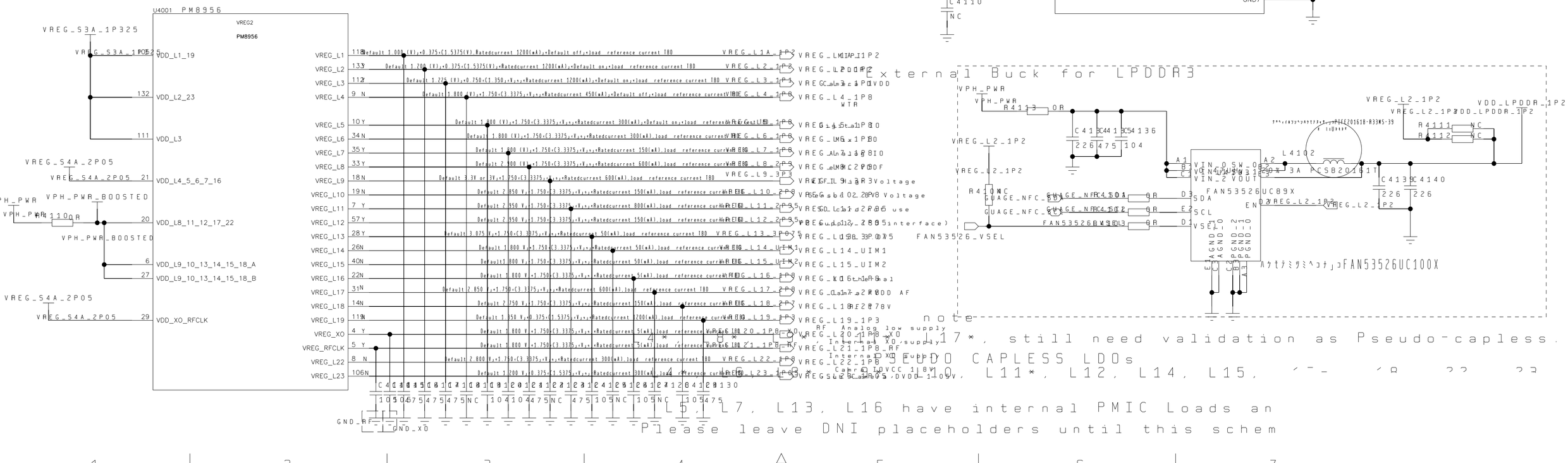


PM8956-C



PM8956-E





External Buck for LPDDR3

note

RF Analog low supply

Internal XO supply

Internal XO supply

Camera IO/VCC

DVDD

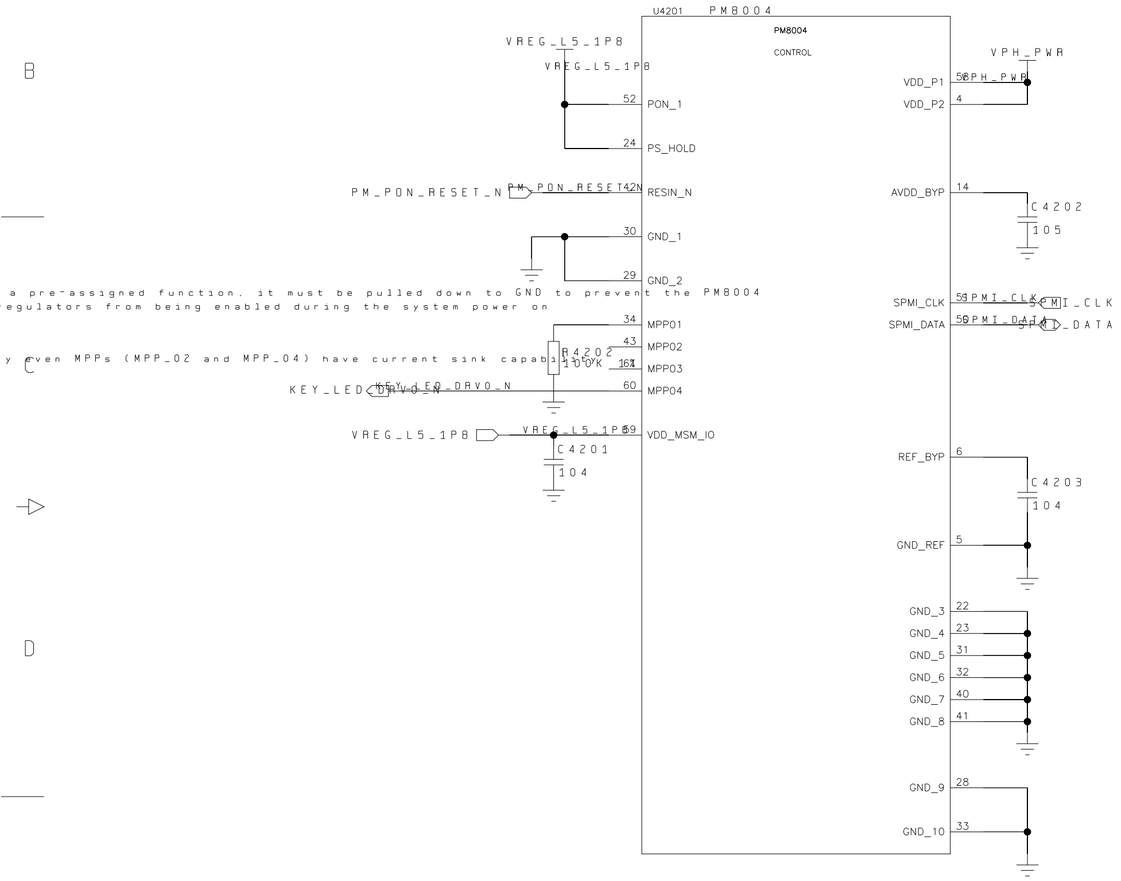
* 17*, still need validation as Pseudo-capless.

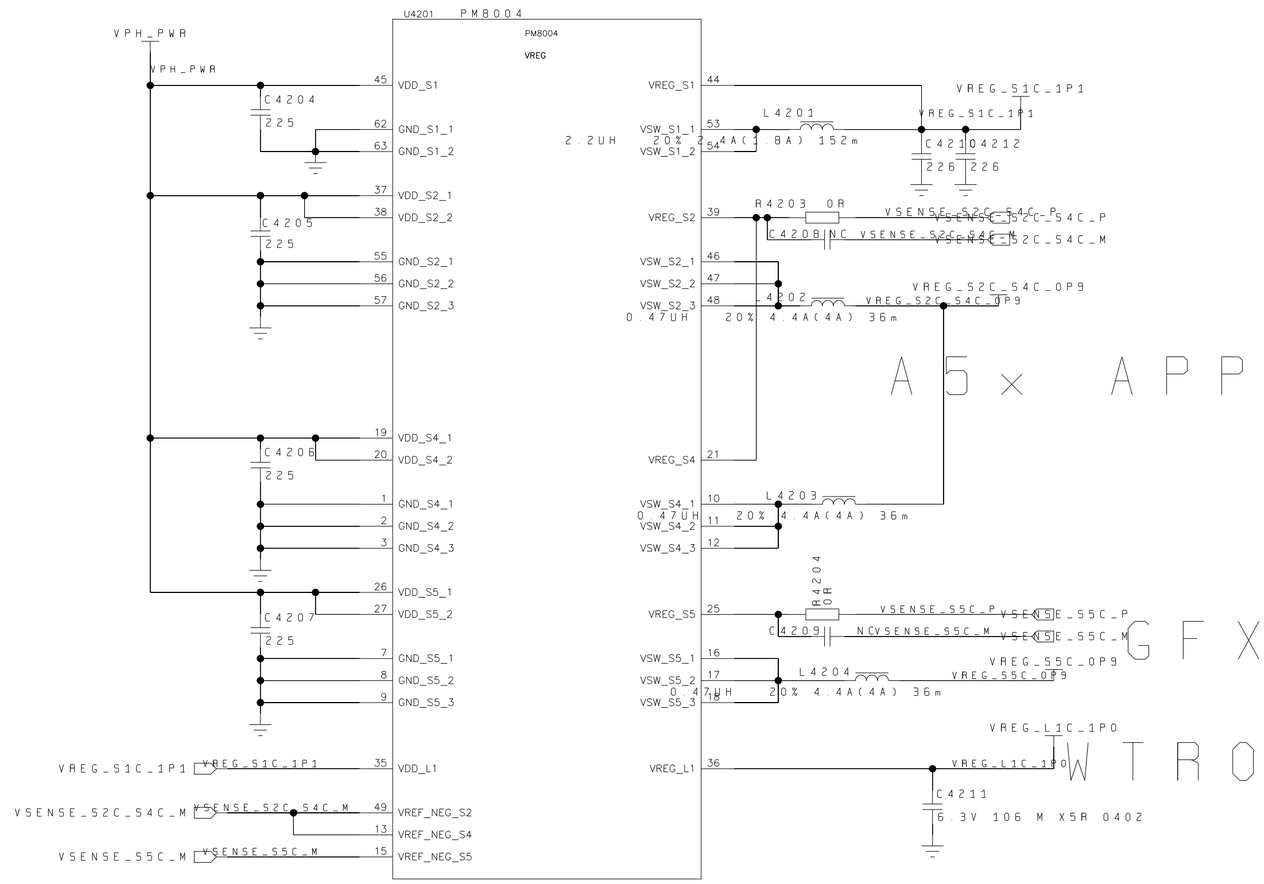
PSEUDO CAPLESS LDOs

L5, L7, L13, L16 have internal PMIC Loads an

Please leave DNI placeholders until this schem

PMI8004



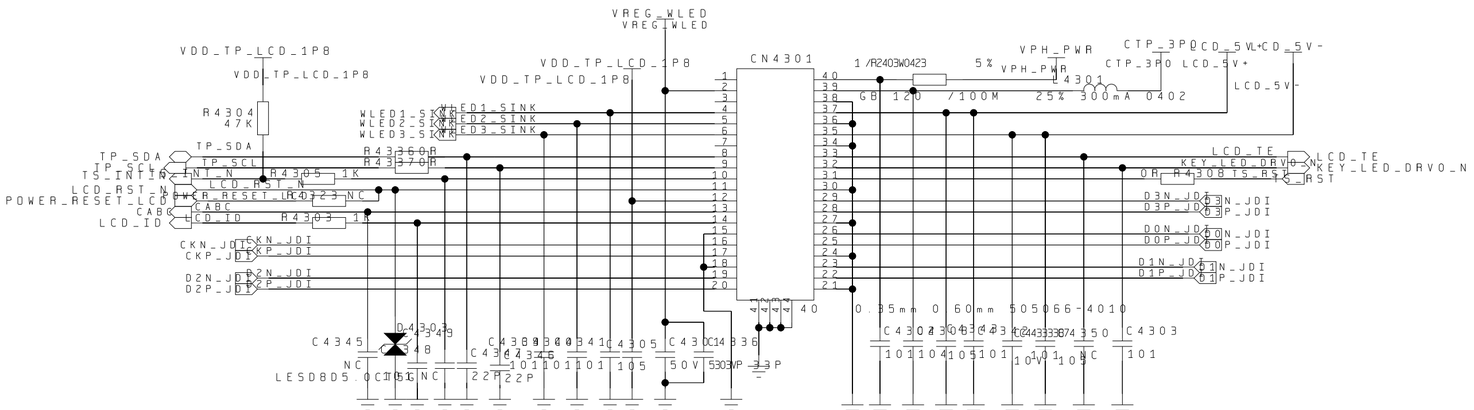


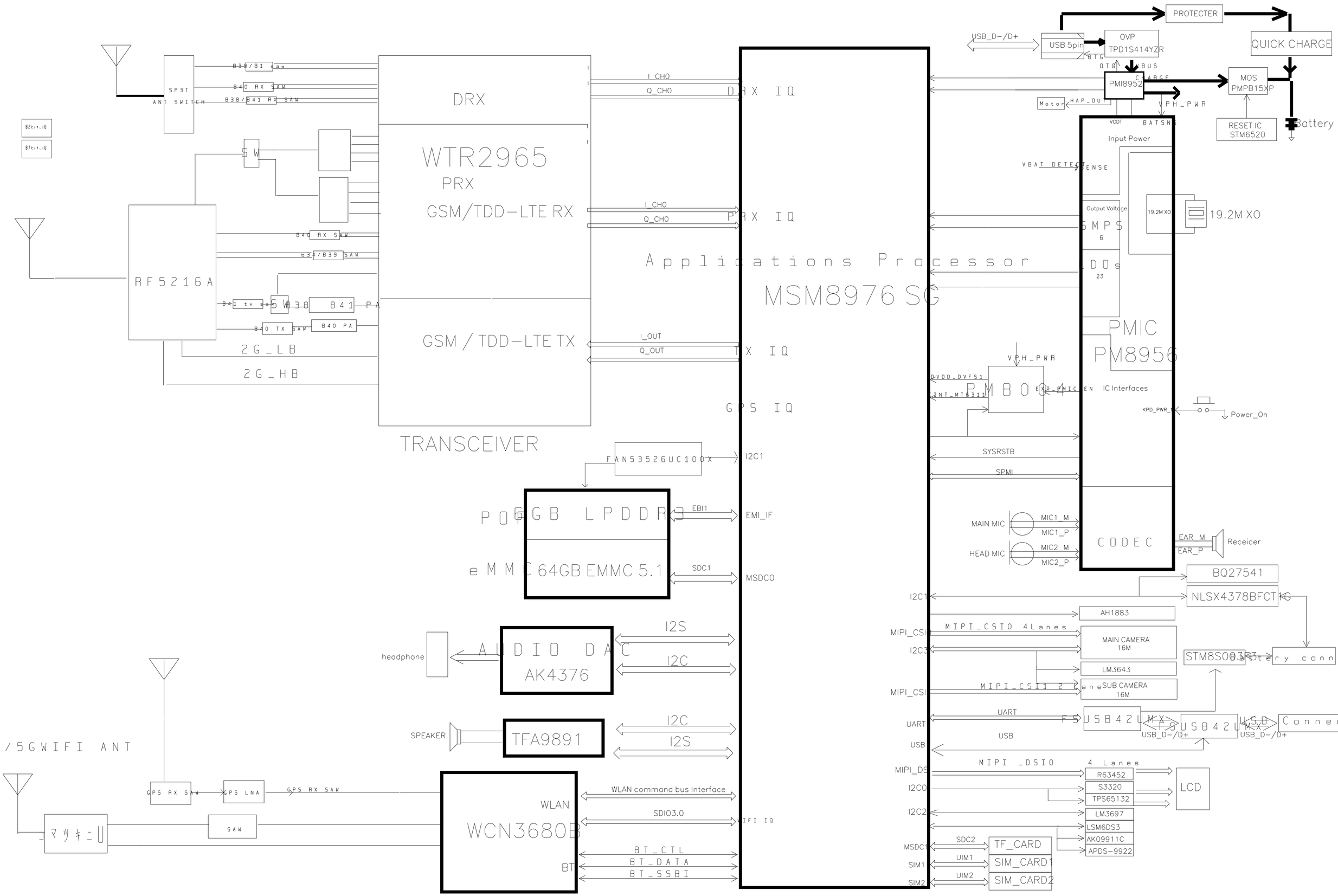
A5x APPS

GFX

WTRO

M Connector


VREG_WLED
VDD_TP_LCD_1P8
CN4301
VPH_PWR
CTP_3P0
LCD_5V+
LCD_5V-
R4304 47K
TP_SDA
TP_SCL
TS_INT_N
LCD_RST_N
POWER_RESET_LCD_N
CABC
LCD_ID
R4336 0R
R4337 0R
R4338 0R
R4339 0R
R4340 0R
R4341 0R
R4342 0R
R4343 0R
R4344 0R
R4345 0R
R4346 0R
R4347 0R
R4348 0R
R4349 0R
R4350 0R
R4351 0R
R4352 0R
R4353 0R
R4354 0R
R4355 0R


SP3T
ANT SWITCH
B39/B1 TRX
B40 RX SAW
B38/B41 RX SAW
SW
RF5216A
B40 RX SAW
B34/B39 SAW
B41 tx saw
SW B38
B41 PA
B40 TX SAW
B40 PA
2G_LB
2G_HB
DRX
WTR2965
PRX
GSM/TDD-LTE RX
GSM / TDD-LTE TX
TRANSCEIVER
I_CH0
Q_CH0
DRX IQ
I_CH0
Q_CH0
PRX IQ
I_OUT
Q_OUT
TX IQ
GPS IQ
Applications Processor
MSM8976 SG
FAN53526UC100X
I2C1
POP 4GB LPDDR3
EBI1
EMI_IF
eMMC 64GB EMMC 5.1
SDC1
MSDC0
headphone
AUDIO DAC
AK4376
I2S
I2C
SPEAKER
TFA9891
I2C
I2S
4G/5GWIFI ANT
GPS RX SAW
GPS LNA
GPS RX SAW
SAW
WLAN
WCN3680B
BT
WLAN command bus Interface
SDIO3.0
WIFI IQ
BT_CTL
BT_DATA
BT_SSBI
USB_D-/D+
USB 5pin
OVP
TPD1S414YZR
PROTECTER
QUICK CHARGE
OTG
VBUS
CHARGE
PMI8952
MOS
PMPB15XP
Motor
HAP_OUT
VPH_PWR
VCDT
BATSNS
RESET IC
STM6520
Battery
Input Power
VBAT DETECT
SENSE
Output Voltage
SMPS
6
19.2M XO
19.2M XO
LDOs
23
PMIC
PM8956
VPH_PWR
PM8004
DVDD_DVFS1
INT_MT6311
EXT_PMIC_EN
IC Interfaces
KPD_PWR_N
Power_On
SYSRSTB
SPMI
MAIN MIC
MIC1_M
MIC1_P
HEAD MIC
MIC2_M
MIC2_P
CODEC
EAR_M
EAR_P
Receicer
BQ27541
NLSX4378BFCT1G
I2C1
AH1883
MIPI_CSI
MIPI_CSI0 4Lanes
MAIN CAMERA
16M
I2C3
LM3643
STM8S003
Battery connect
MIPI_CSI
MIPI_CSI1 2 Lane
SUB CAMERA
16M
UART
FSUSB42UMX
USB_D-/D+
USB
MIPI_DSI
MIPI _DSI0
4 Lanes
R63452
S3320
TPS65132
LCD
I2C0
I2C2
LM3697
LSM6DS3
AK09911C
APDS-9922
MSDC1
SDC2
TF_CARD
SIM1
UIM1
SIM_CARD1
SIM2
UIM2
SIM_CARD2