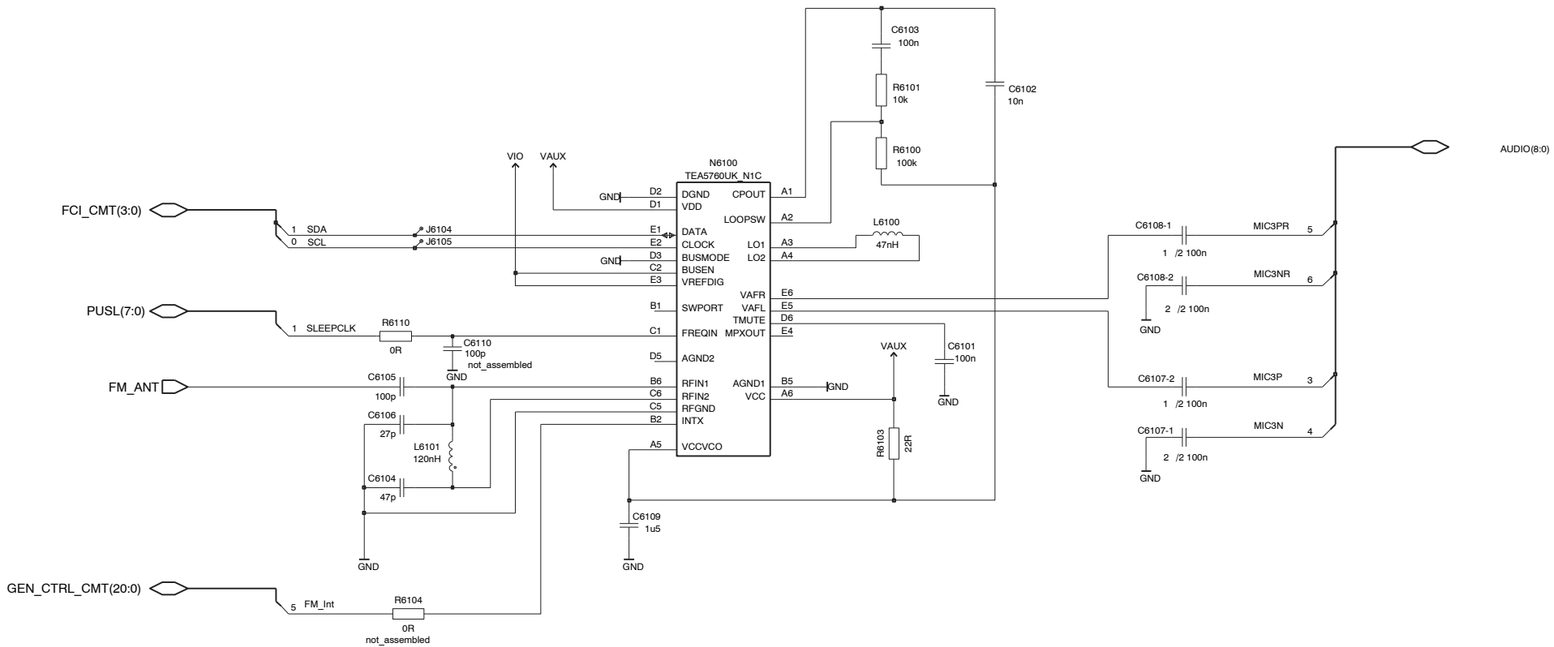
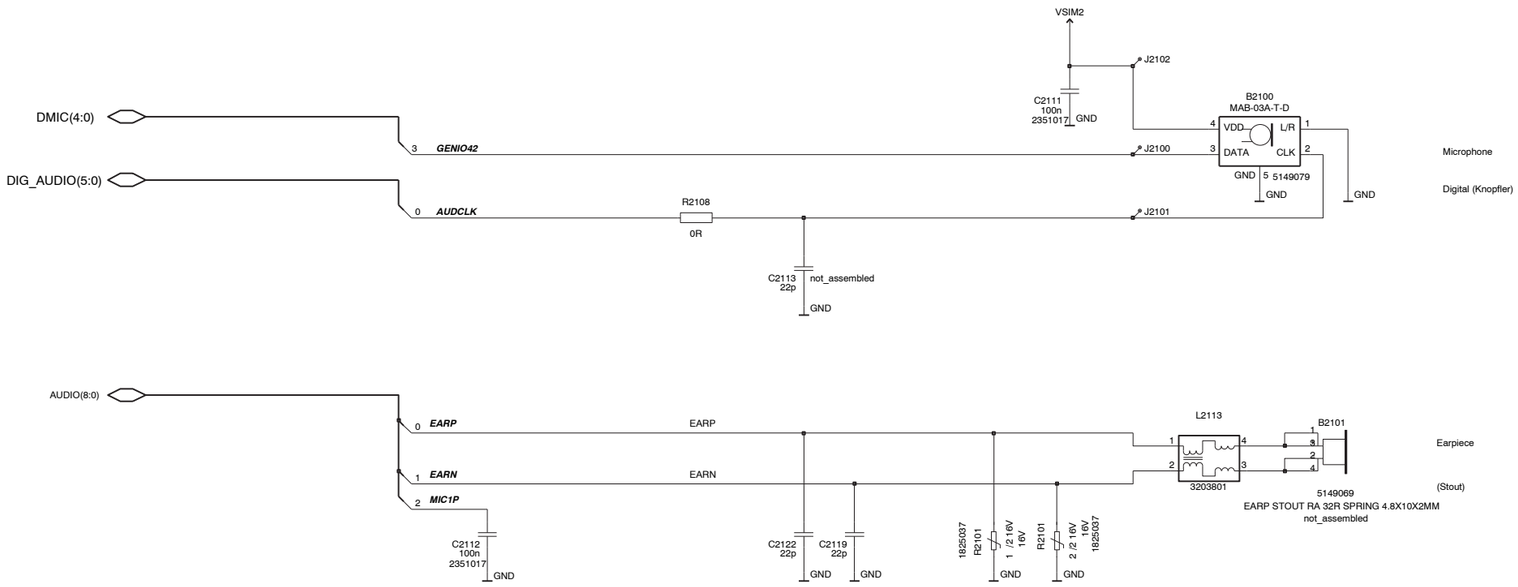
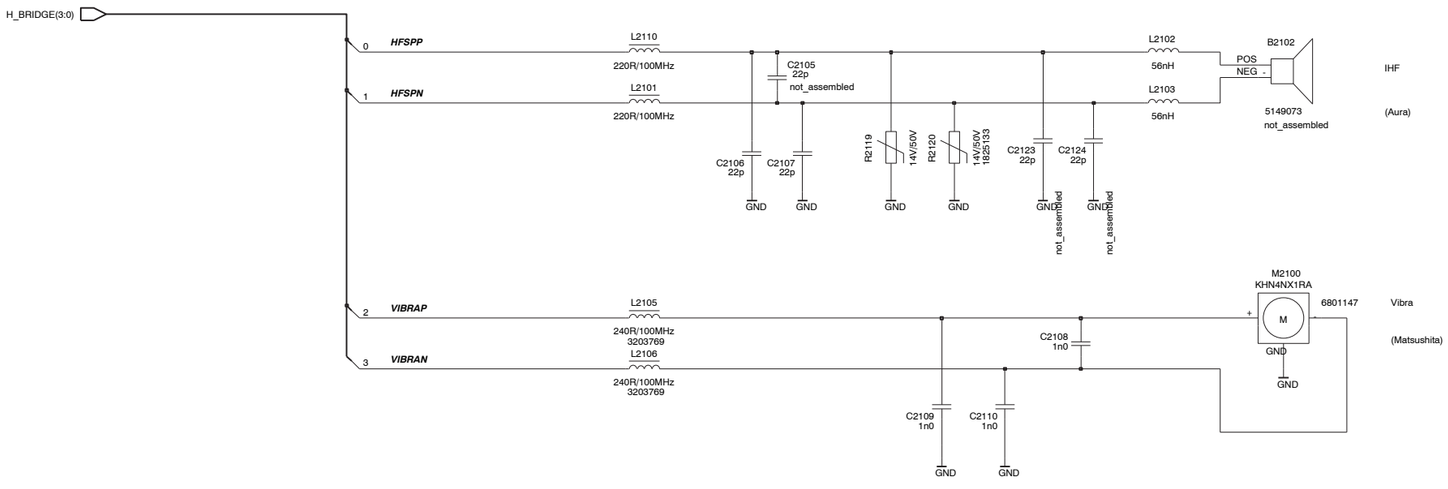


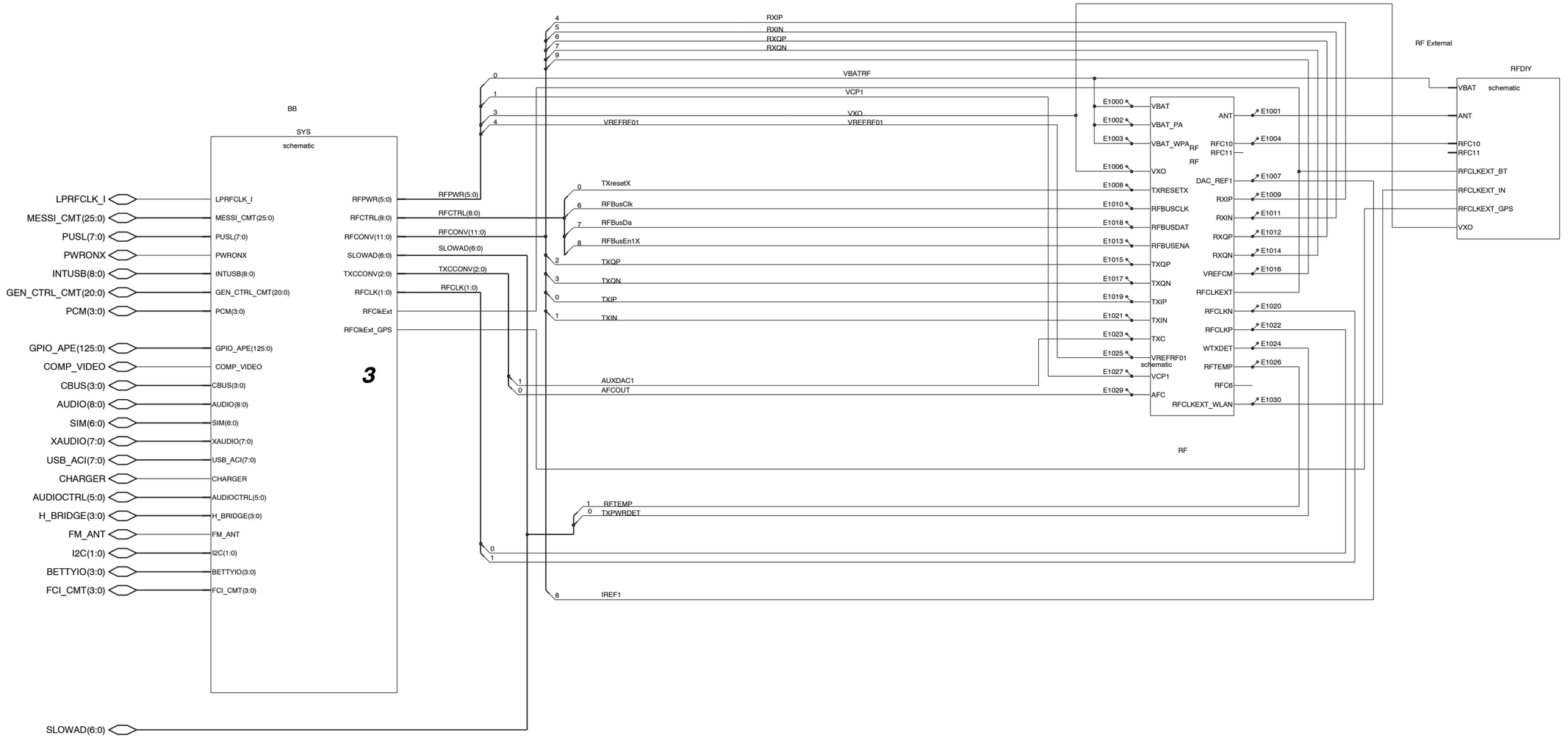
9500487 A6100

FM RADIO CAN
040-042409

GND


VSIM2
J2102
C2111
100n
2351017
GND
B2100
MAB-03A-T-D
VDD
L/R
DATA
CLK
GND
5149079
GND
GND
Microphone
Digital (Knopfler)
DMIC(4:0)
3
GENIO42
J2100
DIG_AUDIO(5:0)
0
AUDCLK
R2108
0R
J2101
C2113
22p
not_assembled
GND
AUDIO(8:0)
0
EARP
EARP
L2113
B2101
Earpiece
1
EARN
EARN
3203801
5149069
(Stout)
EARP STOUT RA 32R SPRING 4.8X10X2MM
not_assembled
2
MIC1P
C2112
100n
2351017
GND
C2122
22p
GND
C2119
22p
GND
1825037
R2101
1 /2 16V
16V
R2101
2 /2 16V
16V
1825037
GND
GND


H_BRIDGE(3:0)
0
HFSPP
L2110
220R/100MHz
C2105
22p
not_assembled
L2102
56nH
B2102
POS
NEG
IHF
1
HFSPN
L2101
220R/100MHz
L2103
56nH
5149073
not_assembled
(Aura)
C2106
22p
C2107
22p
R2119
14V/50V
R2120
14V/50V
1825103
C2123
22p
C2124
22p
GND
GND
GND
GND
GND
GND
not_assembled
not_assembled
M2100
KHN4NX1RA
2
VIBRAP
L2105
240R/100MHz
3203769
6801147
Vibra
C2108
1n0
(Matsushita)
3
VIBRAN
L2106
240R/100MHz
3203769
GND
GND
C2109
1n0
C2110
1n0
GND
GND

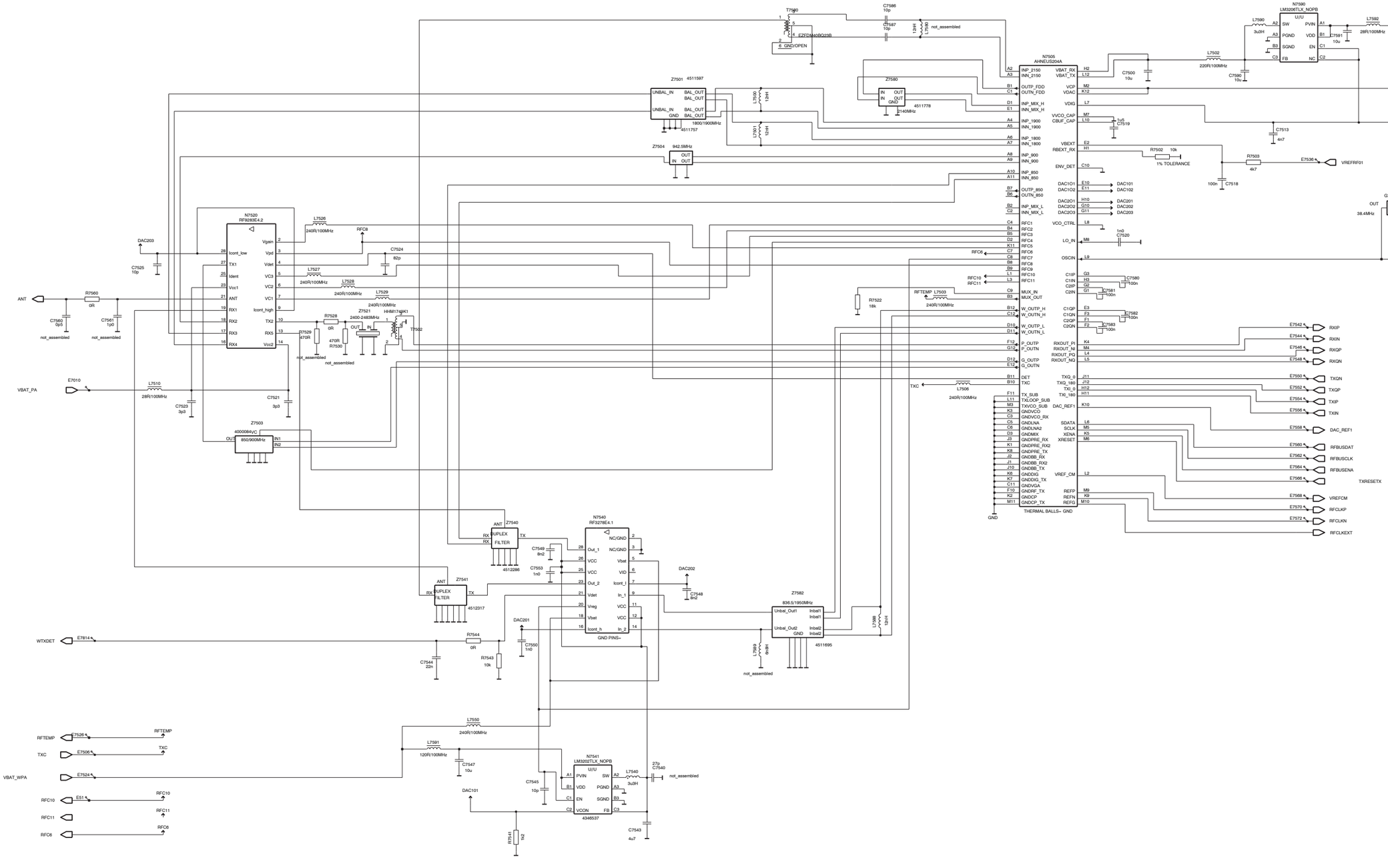


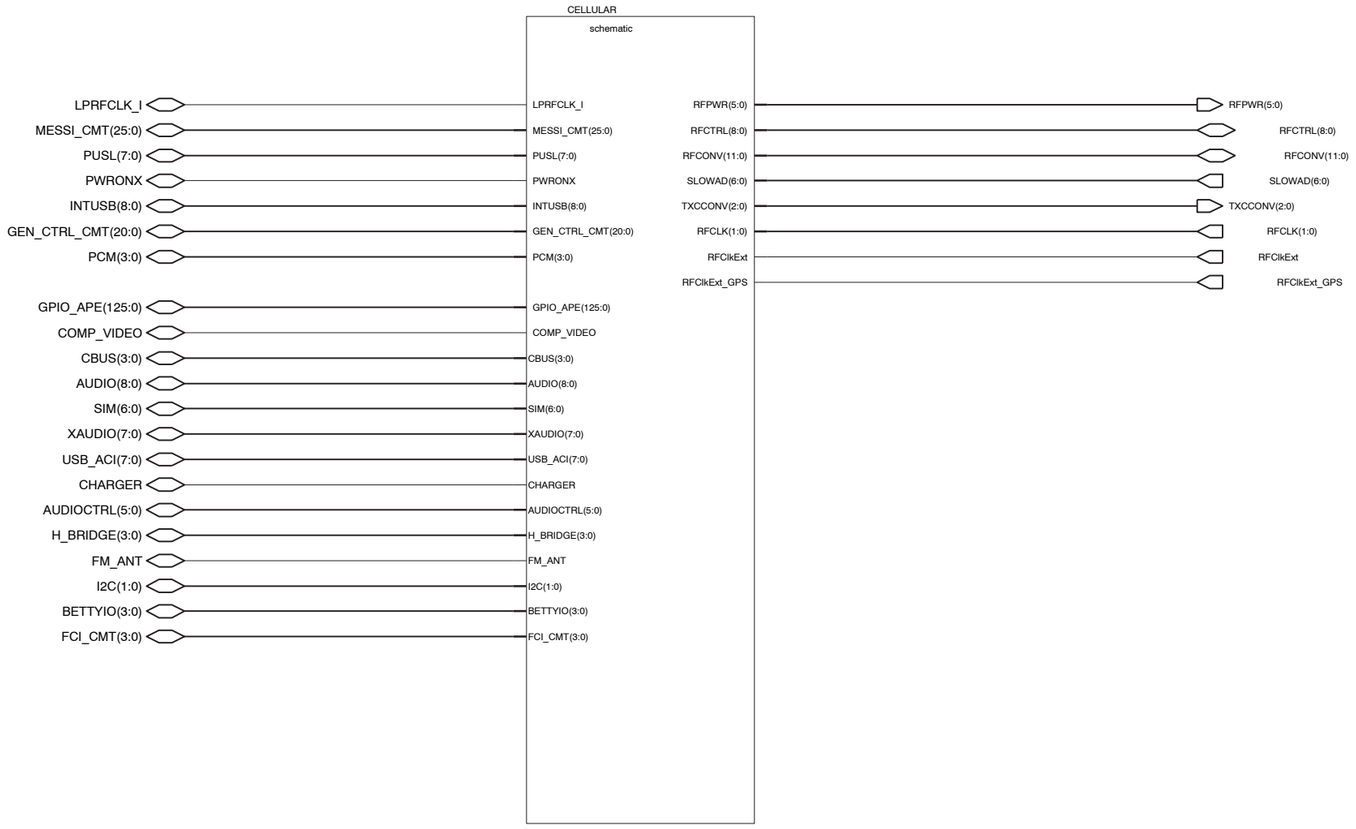
BB SHEET NAME	REF AREA
top level (2av)	1000-1100
cellular/cmt_if/camera	1500-1999
cellular/cmt_if/conn/sys_conn	2000-2059
cellular/cmt_if/conn/prod_test_pattern	2060-2069
cellular/cmt_if/conn/battery_conn	2070-2099
cellular/cmt_if/audio	2100-2199
cellular/cmt_engine/power/vilma	2200-2299
cellular/cmt_engine/power/betty	2300-2389
cellular/cmt_engine/power/coreps	2390-2399
cellular/cmt_if/ui	2500-2599

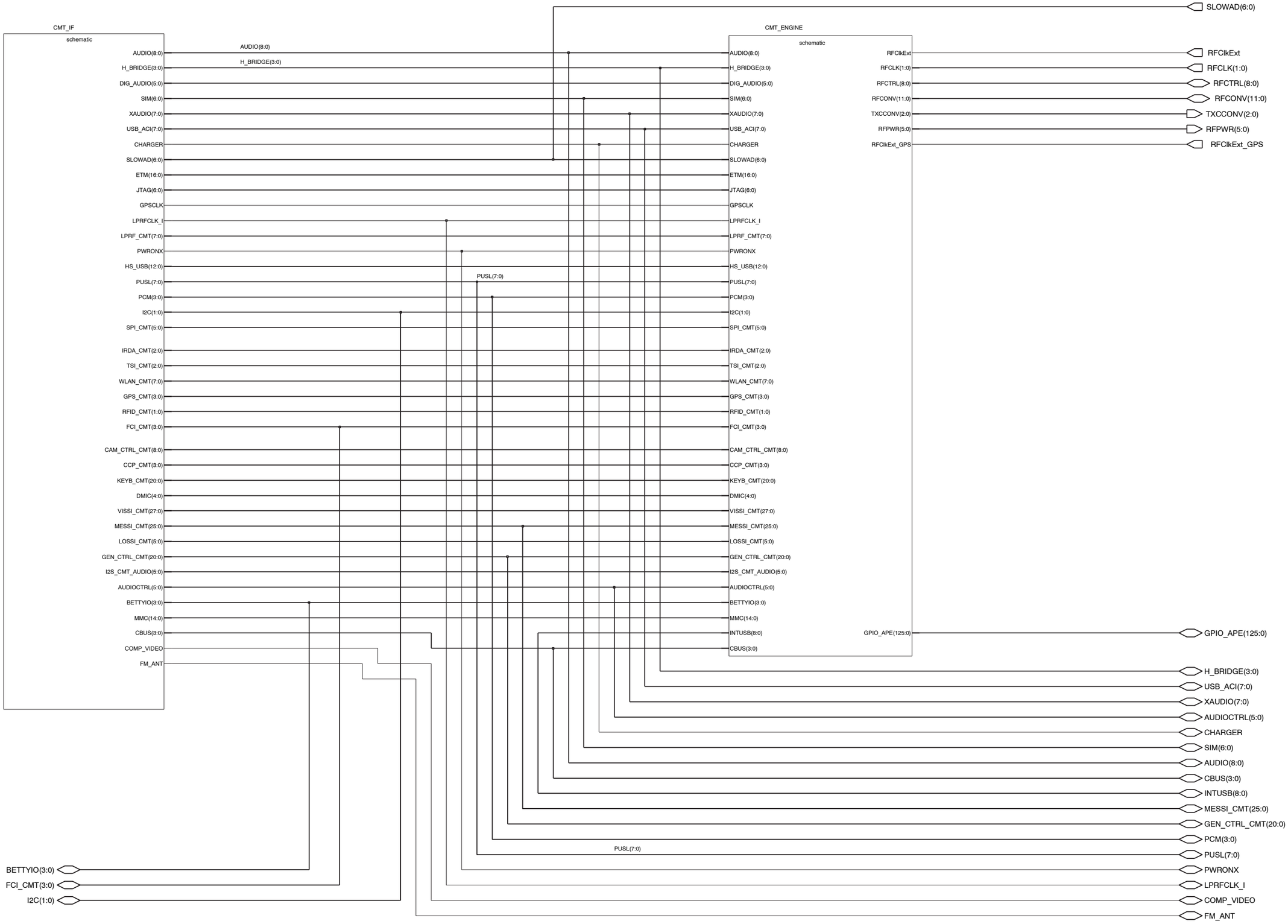
BB SHEET NAME	REF AREA
cellular/cmt_if/ui/display	2400-2449
cellular/cmt_if/ui/keyboard	2450-2499
cellular/cmt_if/irda	2600-2699
cellular/cmt_if/sim (not in use)	2700-2799
cellular/cmt_engine/digi/rap	2800-2849
cellular/cmt_engine/digi/usb_conn	2845-2849
cellular/cmt_engine/digi/genio_mux	2850-2899
cellular/cmt_engine/digi/mem_cmt	3000-3099
cellular/cmt_if/emu_rap	3100-3199
cellular/cmt_if/mmc (not in use)	3200-3299

BB SHEET NAME	REF AREA
cellular/cmt_if/hs_usb	3300-3999
cellular/cmt_if/bt	6000-6099
cellular/cmt_if/fm	6100-6199
cellular/cmt_if/wlan	6300-6399

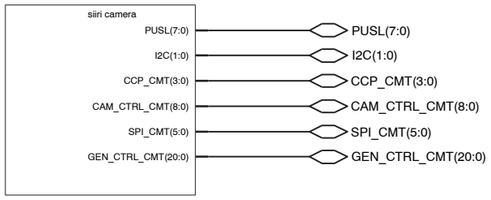
RF SHEET NAME	REF AREA
RF	7500-7699
RF External (DIY)	7400-7499


N7505
AHNEUS204A
INP_2150
INN_2150
OUTP_FDD
OUTN_FDD
INP_MIX_H
INN_MIX_H
INP_1900
INN_1900
INP_1800
INN_1800
INP_900
INN_900
INP_850
INN_850
OUTP_850
OUTN_850
INP_MIX_L
INN_MIX_L
RFC1
RFC2
RFC3
RFC4
RFC5
RFC6
RFC7
RFC8
RFC9
RFC10
RFC11
MUX_IN
MUX_OUT
W_OUTP_H
W_OUTN_H
W_OUTP_L
W_OUTN_L
P_OUTP
P_OUTN
G_OUTP
G_OUTN
DET
TXC
TX_SUB
TXLOOP_SUB
TXVCO_SUB
GNDVCO
GNDVCO_RX
GNDLNA
GNDLNA2
GNDMIX
GNDPRE_RX
GNDPRE_RX2
GNDPRE_TX
GNDBB_RX
GNDBB_RX2
GNDBB_TX
GNDDIG
GNDDIG_TX
GNDVGA
GNDRF_TX
GNDCP
GNDCP_TX
VBAT_RX
VBAT_TX
VCP
VDAC
VDIG
VVCO_CAP
CBUF_CAP
VBEXT
RBEXT_RX
ENV_DET
DAC1O1
DAC1O2
DAC2O1
DAC2O2
DAC2O3
VCO_CTRL
LO_IN
OSCIN
C1IP
C1IN
C2IP
C2IN
C1QP
C1QN
C2QP
C2QN
RXOUT_PI
RXOUT_NI
RXOUT_PQ
RXOUT_NQ
TXQ_0
TXQ_180
TXI_0
TXI_180
DAC_REF1
SDATA
SCLK
XENA
XRESET
VREF_CM
REFP
REFN
REFG
THERMAL BALLS- GND
N7590
LM3206TLX_NOPB
U/U
SW
PGND
SGND
FB
PVIN
VDD
EN
NC
L7590
3u3H
C7590
10u
C7591
10u
L7592
28R/100MHz
L7502
220R/100MHz
C7500
10u
C7513
4n7
C7519
1u5
R7502
10k
1% TOLERANCE
R7503
4k7
C7518
100n
R7501
10R
G7501
NKG3176EV
VCONT
VCC
OUT
G
38.4MHz
C7509
22k
C7507
10n
C7520
1n0
C7580
100n
C7581
100n
C7582
100n
C7583
100n
L7503
240R/100MHz
R7522
18k
L7506
240R/100MHz
L7591
120R/100MHz
C7547
10u
L7550
240R/100MHz
C7545
10p
C7543
4u7
R7541
1k2
N7541
LM3205TLX_NOPB
C7540
27p
not_assembled
4346537
E7528
VBAT
E7530
VCP1
E7534
VXO
E7536
VREFRF01
E7540
AFC
RFCLKEXT_WLAN
E7542
RXIP
E7544
RXIN
E7546
RXQP
E7548
RXQN
E7550
TXQN
E7552
TXQP
E7554
TXIP
E7556
TXIN
E7558
DAC_REF1
E7560
RFBUSDAT
E7562
RFBUSCLK
E7564
RFBUSENA
E7566
TXRESETX
E7568
VREFCM
E7570
RFCLKP
E7572
RFCLKN
E7574
RFCLKEXT
Z7501
4511597
UNBAL_IN
BAL_OUT
GND
1800/1900MHz
4511757
L7500
12nH
L7501
12nH
Z7504
942.5MHz
Z7580
4511778
2140MHz
T7580
EZFDM40BQ23B
C7586
10p
C7587
10p
L7504
not_assembled
L7505
not_assembled
N7520
RF9283E4.2
Vgsin
Vpd
Vdet
VC3
VC2
VC1
Icont_high
TX2
RX5
Vcc2
Icont_low
TX1
Ident
Vcc1
ANT
RX1
RX2
RX3
RX4
DAC203
C7525
10p
L7526
240R/100MHz
RFC8
C7524
82p
L7527
240R/100MHz
L7528
240R/100MHz
L7529
240R/100MHz
R7528
0R
R7529
470R
R7530
470R
not_assembled
Z7521
2400-2483MHz
HHM617A9K1
T7502
ANT
R7560
0R
C7560
0p5
not_assembled
C7561
1p0
not_assembled
E7010
VBAT_PA
L7510
28R/100MHz
C7523
3p3
C7521
3p3
Z7503
400008HVC
850/900MHz
IN1
IN2
OUT
Z7540
DUPLEX
FILTER
4512286
Z7541
4512317
N7540
RF3278E4.1
NC/GND
Out_1
VCC
Out_2
Vdet
Vreg
Vbat
Icont_h
Vbatt
VID
Icont_l
In_1
In_2
GND PINS=
C7549
8n2
C7553
1n0
C7548
8n2
DAC202
DAC201
C7550
1n0
R7544
0R
R7543
10k
C7544
22n
Z7582
836.5/1950MHz
Unbal_Out1
Unbal_Out2
Inbal1
Inbal2
GND
4511695
L7989
6n8H
not_assembled
L7988
12nH
WTXDET
E7814
RFTEMP
E7526
TXC
E7506
VBAT_WPA
E7524
RFC10
E51
RFC11
RFC6


CELLULAR
schematic
LPRFCLK_I
MESSI_CMT(25:0)
PUSL(7:0)
PWRONX
INTUSB(8:0)
GEN_CTRL_CMT(20:0)
PCM(3:0)
GPIO_APE(125:0)
COMP_VIDEO
CBUS(3:0)
AUDIO(8:0)
SIM(6:0)
XAUDIO(7:0)
USB_ACI(7:0)
CHARGER
AUDIOCTRL(5:0)
H_BRIDGE(3:0)
FM_ANT
I2C(1:0)
BETTYIO(3:0)
FCI_CMT(3:0)
RFPWR(5:0)
RFCTRL(8:0)
RFCONV(11:0)
SLOWAD(6:0)
TXCCONV(2:0)
RFCLK(1:0)
RFClkExt
RFClkExt_GPS

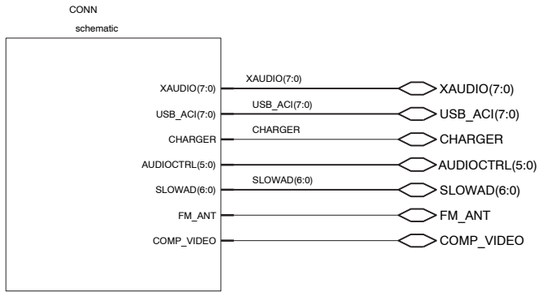

CMT_IF
schematic
AUDIO(8:0)
H_BRIDGE(3:0)
DIG_AUDIO(5:0)
SIM(6:0)
XAUDIO(7:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
ETM(16:0)
JTAG(6:0)
GPSCLK
LPRFCLK_I
LPRF_CMT(7:0)
PWRONX
HS_USB(12:0)
PUSL(7:0)
PCM(3:0)
I2C(1:0)
SPI_CMT(5:0)
IRDA_CMT(2:0)
TSI_CMT(2:0)
WLAN_CMT(7:0)
GPS_CMT(3:0)
RFID_CMT(1:0)
FCI_CMT(3:0)
CAM_CTRL_CMT(8:0)
CCP_CMT(3:0)
KEYB_CMT(20:0)
DMIC(4:0)
VISSI_CMT(27:0)
MESSI_CMT(25:0)
LOSSI_CMT(5:0)
GEN_CTRL_CMT(20:0)
I2S_CMT_AUDIO(5:0)
AUDIOCTRL(5:0)
BETTYIO(3:0)
MMC(14:0)
CBUS(3:0)
COMP_VIDEO
FM_ANT
AUDIO(8:0)
H_BRIDGE(3:0)
PUSL(7:0)
CMT_ENGINE
schematic
AUDIO(8:0)
H_BRIDGE(3:0)
DIG_AUDIO(5:0)
SIM(6:0)
XAUDIO(7:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
ETM(16:0)
JTAG(6:0)
GPSCLK
LPRFCLK_I
LPRF_CMT(7:0)
PWRONX
HS_USB(12:0)
PUSL(7:0)
PCM(3:0)
I2C(1:0)
SPI_CMT(5:0)
IRDA_CMT(2:0)
TSI_CMT(2:0)
WLAN_CMT(7:0)
GPS_CMT(3:0)
RFID_CMT(1:0)
FCI_CMT(3:0)
CAM_CTRL_CMT(8:0)
CCP_CMT(3:0)
KEYB_CMT(20:0)
DMIC(4:0)
VISSI_CMT(27:0)
MESSI_CMT(25:0)
LOSSI_CMT(5:0)
GEN_CTRL_CMT(20:0)
I2S_CMT_AUDIO(5:0)
AUDIOCTRL(5:0)
BETTYIO(3:0)
MMC(14:0)
INTUSB(8:0)
CBUS(3:0)
RFClkExt
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(2:0)
RFPWR(5:0)
RFClkExt_GPS
GPIO_APE(125:0)
SLOWAD(6:0)
RFClkExt
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(2:0)
RFPWR(5:0)
RFClkExt_GPS
GPIO_APE(125:0)
H_BRIDGE(3:0)
USB_ACI(7:0)
XAUDIO(7:0)
AUDIOCTRL(5:0)
CHARGER
SIM(6:0)
AUDIO(8:0)
CBUS(3:0)
INTUSB(8:0)
MESSI_CMT(25:0)
GEN_CTRL_CMT(20:0)
PCM(3:0)
PUSL(7:0)
PWRONX
LPRFCLK_I
COMP_VIDEO
FM_ANT
PUSL(7:0)
BETTYIO(3:0)
FCI_CMT(3:0)
I2C(1:0)

CAMERA



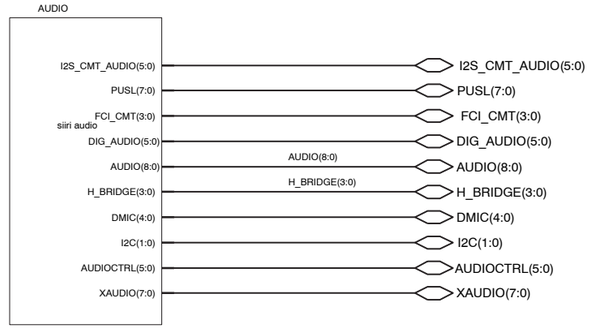
1500-1999

CONN



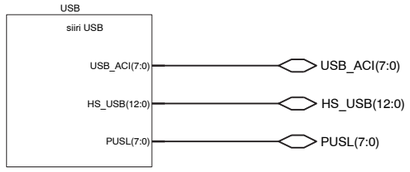
2000-2099

AUDIO



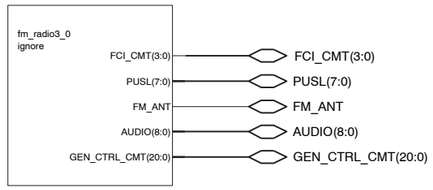
2100-2199

USB



3300-3999

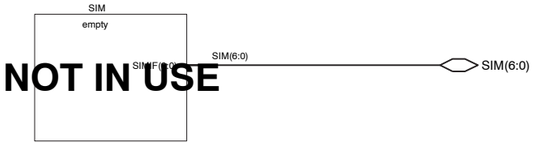
fm_radio3_0



6100-6199

SIM

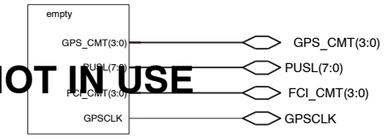
NOT IN USE



2700-2799

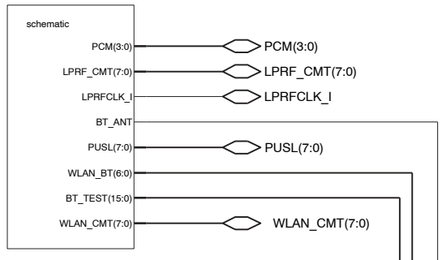
GPS

NOT IN USE



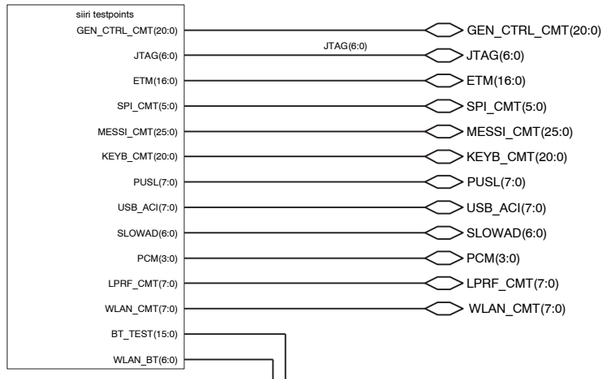
6200-6299

BLUETOOTH



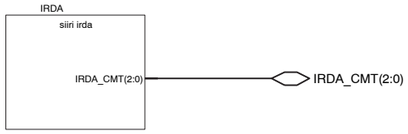
6000-6099

EMU_RAP



3100-3199

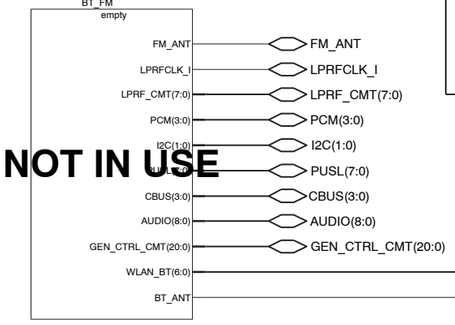
IRDA



2600-2699

BT_FM

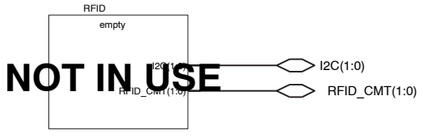
NOT IN USE



6000-6199

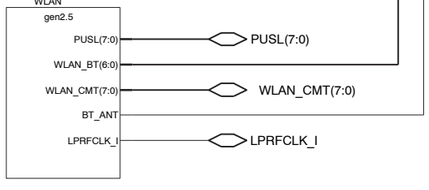
RFID

NOT IN USE

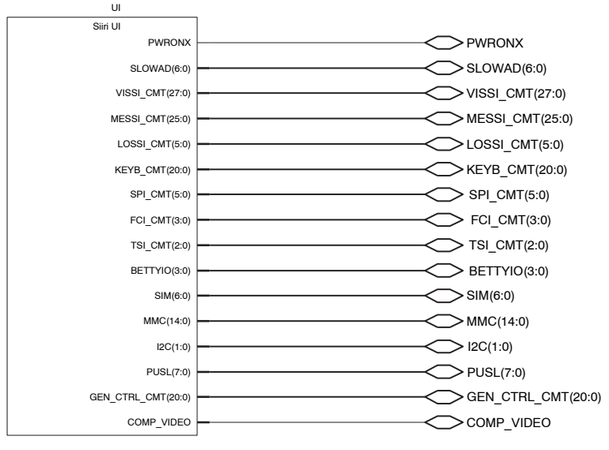


6600-6999

WLAN

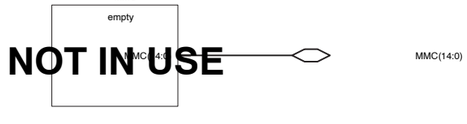


UI



MMC

NOT IN USE



3200-3299

N6300
STLC4560

LPRFCLK_I

R6350
100R
1430726

V18_WLAN_DIG
1430778
R6301
10k

PUSL(7:0)
WLAN_CMT(7:0)
1
7 WLAN CLK REQUEST
5 WLAN RESET X
0 WLAN SPI DOUT (HOST)
2 WLAN SPI CSX
4 IRQ
3 WLAN SPI CLK
1 WLAN SPI DIN (HOST)
J6303
J6308
R6302 0R
R6303 39R

MODE[4:0] = 10000
for 38.4 MHz

SleepCLK

May be replace with V25 preregulated
supply to power V2 and V2X LDOs

V18_WLAN_VCO
V18_WLAN_DIG
V18_WLAN_RF
V28_WLAN_RF
Z6302
L=
W=0.35

C6302 1u5 2351039 GND
C6303 2u2 2316001 GND
C6300 22u 2351037 GND
C6301 1u5 2351039 GND

C6308 6p8 2320532 GND

VBAT
VBAT_WLAN
C6360 100n 2351017 GND

C6353 100n 2351017 GND
C6350 100n 2351017 GND
C6351 100n 2351017 GND
C6354 100n 2351017 GND

VIO
VIO_WLAN

V12_WLAN_CORE

K1	LB_LNA_IN-	LB_TX_OUT	G1
L1	LB_LNA_IN+		
A9	EESCL	SW1	D2
B9	EESDA	SW2	B2
A10	SDA	SW3	C1
B10	SCL	SW4	C2
B3	PMU_SCL		
C3	PMU_SDA		
C5	POWER_UP	PA_RREF	D3
D13	OSC_EN	PA_DET0	M12
A13	REF_CLK		
M13	DAT2	PA_BIAS24	E4
B15	SER_MODE		
		PMU_RSET	A5
D12	MODE4	PMU_CREF	A6
F8	MODE3		
F9	MODE2		
E10	MODE1	FREQ	M10
F11	MODE0	RF_ACTIVE	R13
		STATUS	P13
M8	LF_XTAL_IN	TX_CONF	P14
P11	SPI_DIN		
P12	SPI_CSX		
P15	HOST_IRQ	I_TEST-	L10
R11	SPI_CLK	I_TEST+	L9
M14	SPI_DOUT	Q_TEST-	L11
		Q_TEST+	K10
A4	V4_OUT_SEL		
N5	VBAT	POR_V2I	C14
N7	VBATV1	POR_V2O	M7
P5	VBATV2	POR_V4O	M4
R5	VBATV2	POR_V4I	B6
M6	VBATV4		
N2	VBATV2X	TMS	B12
P1	VBATV2X	TRSTn	B11
P2	VBATV2X	TDI	A11
A3	VDIG	TDO	A12
C4	VI2C	TCK	B13
P6	V1OUT	GPIO_0	F4
P7	V1OUT	GP1_2	L7
P8	V1OUT	GP1_4	P9
R8	V1OUT	GP1_13	N16
P4	V2OUT	GPI_15	N14
R4	V2OUT	GP2_2	A7
P3	V2XOUT	GP2_8	R10
N6	V4OUT	GP2_9	R14
R2	V2XOUT	GP2_10	N15
R3	V2XOUT	GP2_11	D16
N4	FB_V2	GP2_12	C16
N3	FB_V2X	GP2_13	C15
E8	VDDA	LB_VPA	N10
M9	VDDA		
D1	VDDA_PLL	UART_SOUT	M11
E1	TX_VDD	UART_SIN	R12
E2	TX_VDD		
M3	RX_VDD		
		STANDBY1	B4
		STANDBY2	B5
R6	VDD_VCO	RSRV_GND	B7
R7	VCO_CAP		
M5	VDD_QLO	RSRV_NC	A1
		RSRV_NC	A2
D5	VDD_BIAS	RSRV_NC	B1
		RSRV_NC	A8
J16	VDDD_ADC	RSRV_NC	A15
E12	VDDD_ADC	RSRV_NC	A16
G16	VDDD	RSRV_NC	B8
K15	VDDD	RSRV_NC	B16
D8	VDDD	RSRV_NC	C6
D15	VDDD	RSRV_NC	C7
D9	VDDD_DAC	RSRV_NC	D6
		RSRV_NC	D7
N8	VDD_CORE	RSRV_NC	E5
N11	VDD_CORE	RSRV_NC	E6
J14	VDD_CORE	RSRV_NC	F5
M15	VDD_CORE	RSRV_NC	F6
D14	VDD_CORE	RSRV_NC	F7
F10	VDD_CORE	RSRV_NC	E13
B14	VDD_CORE	RSRV_NC	E14
C13	VDD_CORE	RSRV_NC	E15
		RSRV_NC	F12
		RSRV_NC	F13
		RSRV_NC	F14
L16	VHIO	RSRV_NC	F15
N12	VHIO	RSRV_NC	G12
R9	RSRV_NC	RSRV_NC	G13
K11	RSRV_NC	RSRV_NC	G14
K12	RSRV_NC	RSRV_NC	G15
K13	RSRV_NC	RSRV_NC	H12
L6	RSRV_NC	RSRV_NC	H13
L12	RSRV_NC	RSRV_NC	H14
L13	RSRV_NC	RSRV_NC	H15
L14	RSRV_NC	RSRV_NC	J15
D10	RSRV_NC	RSRV_NC	K5
P16	RSRV_NC	RSRV_NC	K6
R1	RSRV_NC	RSRV_NC	K7
R15	RSRV_NC	RSRV_NC	K8
R16	RSRV_NC	RSRV_NC	E7

GND PINS= GND
4390002

C6352 1p0 2351108 not_assembled GND
Close to pin G1

C6338 47p 2320552 GND

R6300 1M0 1438723

C6307 1u0 2351009 GND

WLAN_BT(6:0)
3 0 TX_CONF
1 1 RF_ACTIVE
2 2 STATUS
0 3 Frequency

J6314
J6310 can be moved to M7/C14 if layout easier

J6304
J6305

Wlan_standby1
Wlan_standby2

2p7's only if matching needed

VBAT_WLAN

C6328 100n 2351017 GND
C6329 12p 2320538 GND
C6330 2u2 2316001 GND

C6399 6p8 2320532 GND
C6398 6p8 2320532 GND
C6397 6p8 2320532 GND
C6396 6p8 2320532 GND

N6301
RF5924_ES3.5

4	RXIN-	TRSW-M	7
5	RXIN+	TRSW-P	6
12	P_DETECT	ANSW-M	9
13	VCC	ANSW-P	10
15	PA_EN	BTH	8
2	TXIN	OUT	11
1	GND		
3	GND		
16	GND	NC	14

17= GND
4396277

C6335 220p GND 2320633

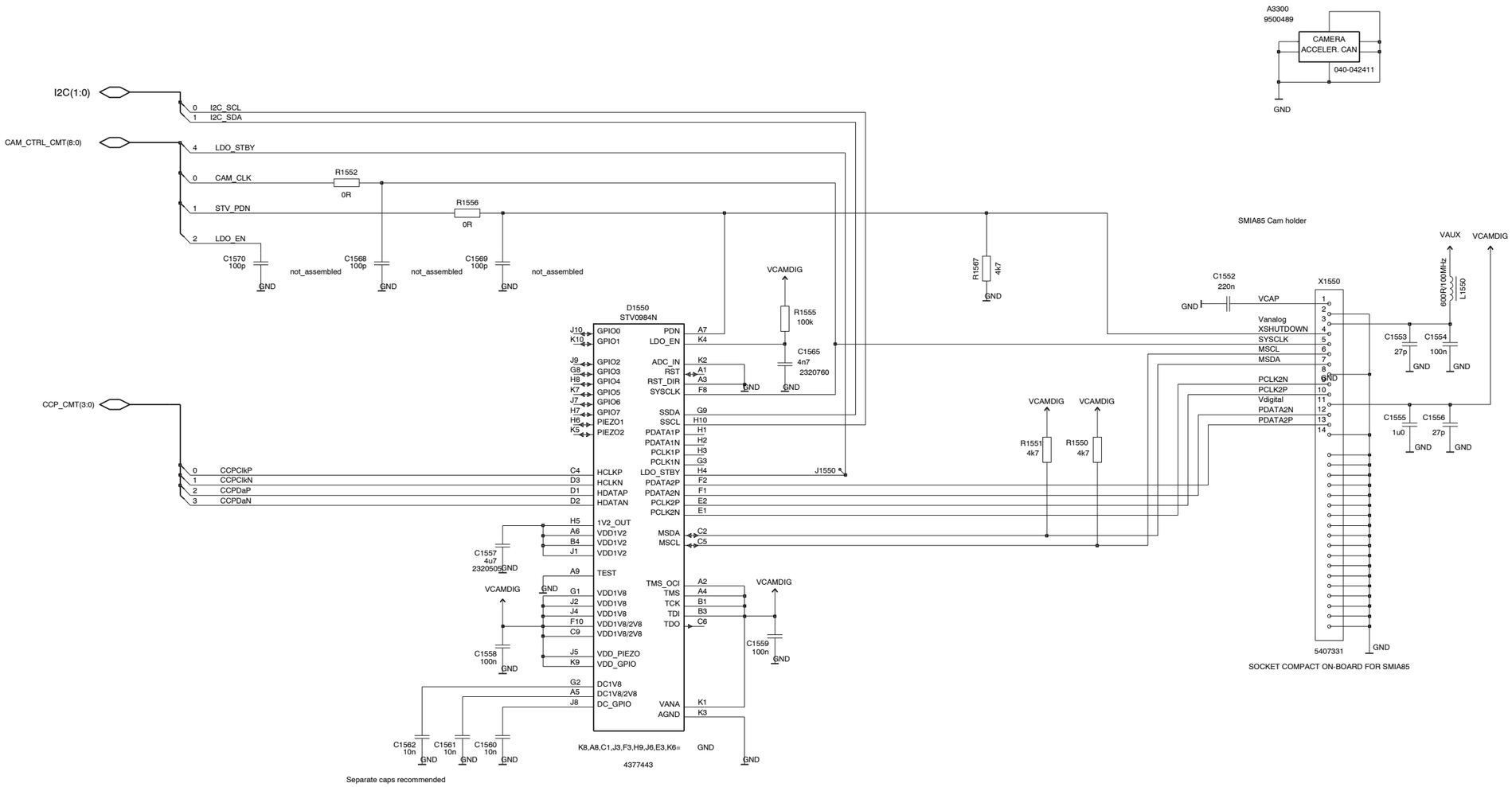
Alternate fiducial config in comp 4396277|FIDUS
Fiducials 90 degrees rotated

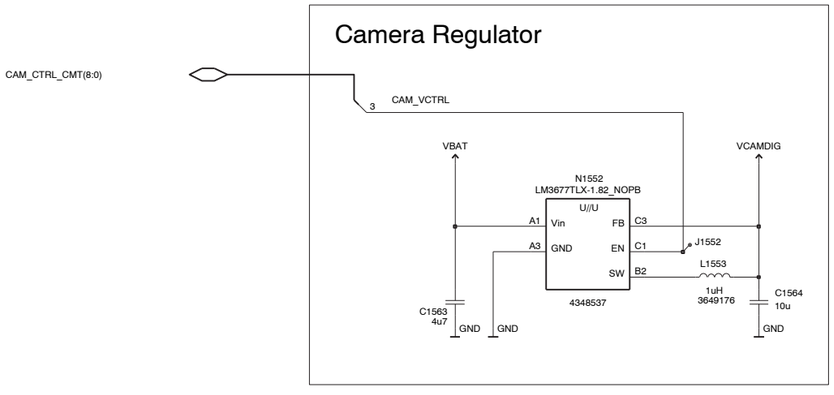
BT_ANT

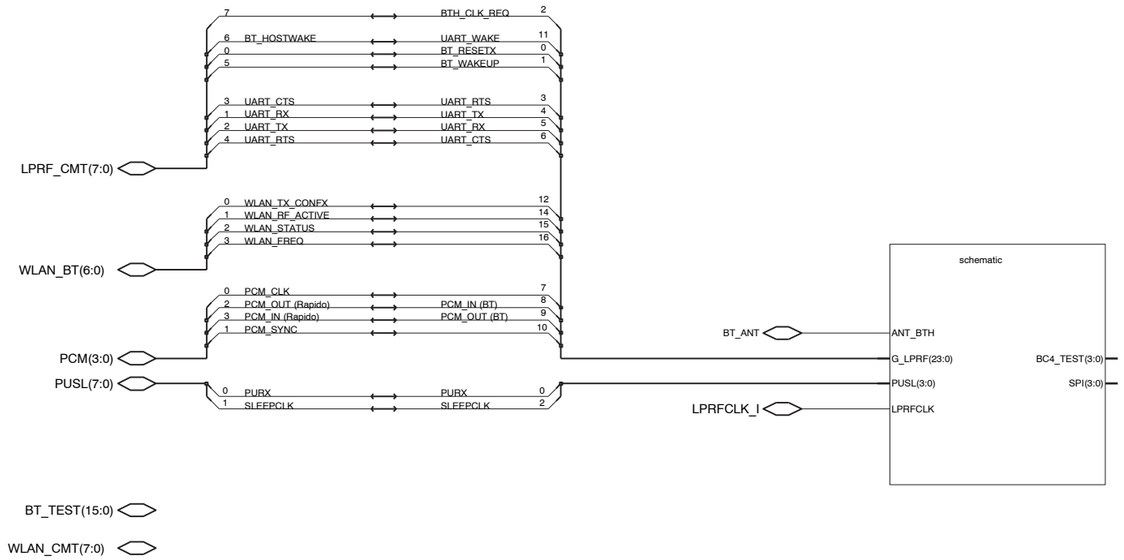
X6300
GND In C In R
1 2

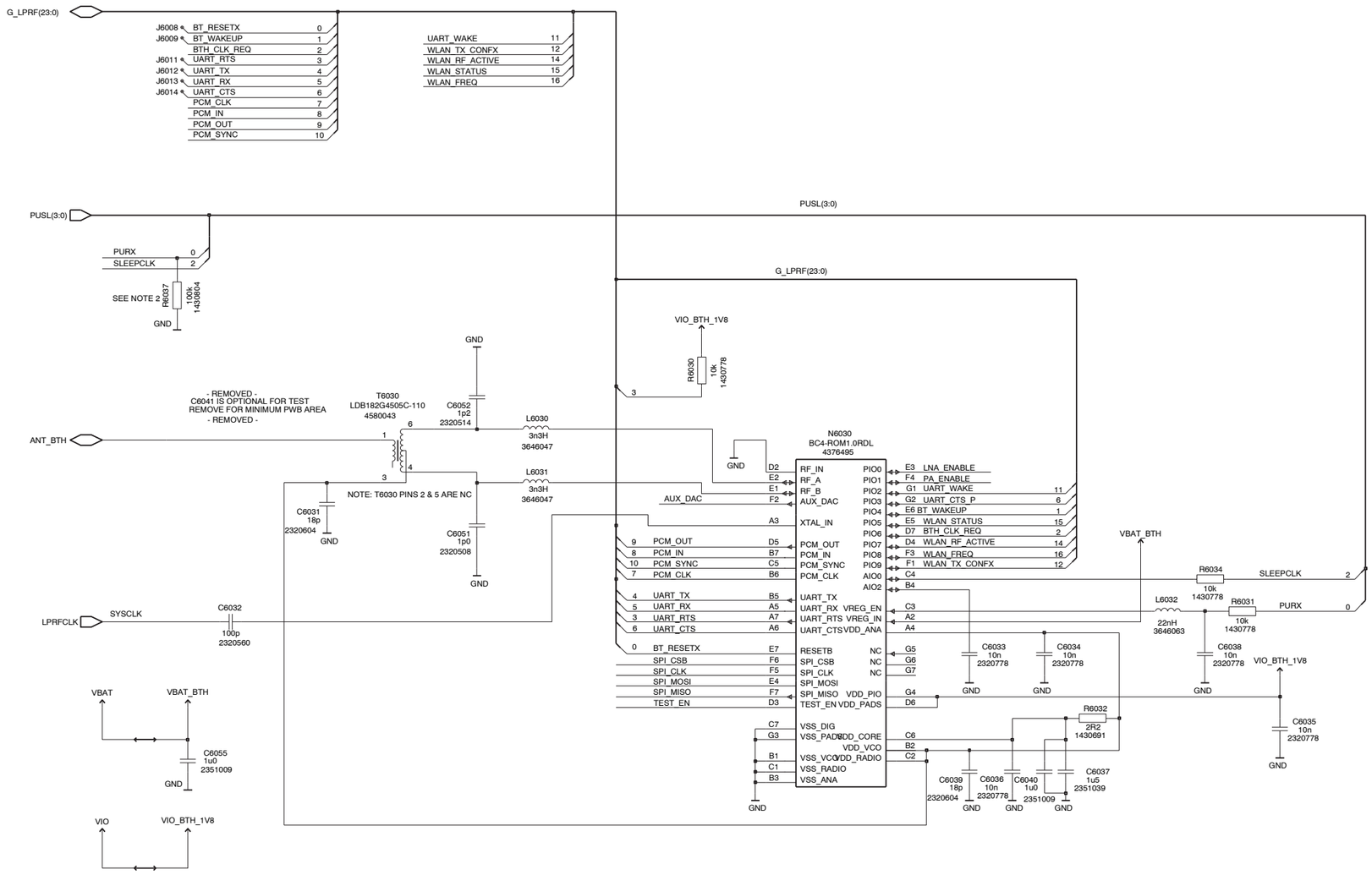
IN OUT GND
Z6300 2450MHz
GND GND
4551081

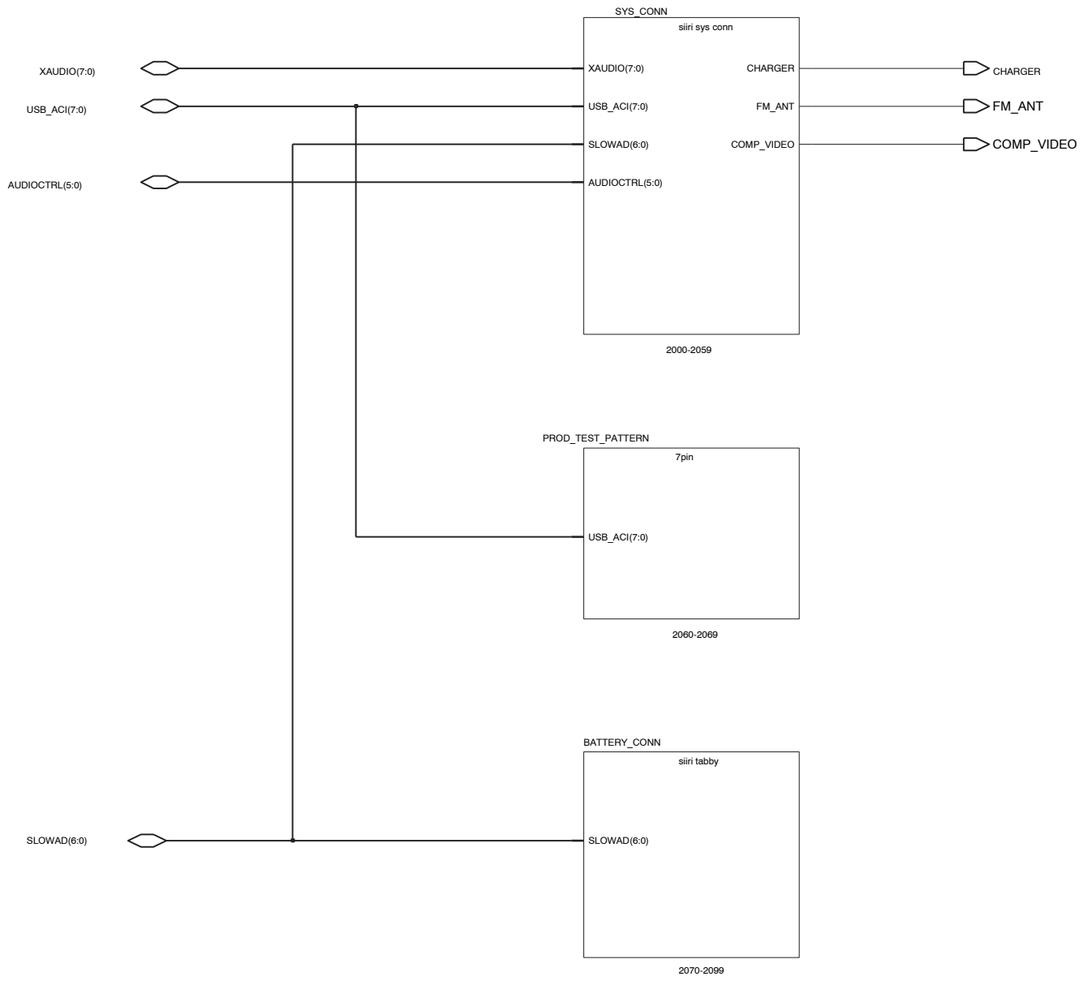
W6300 5650509
C6380 0p5
4n7H L6301
GND GND GND

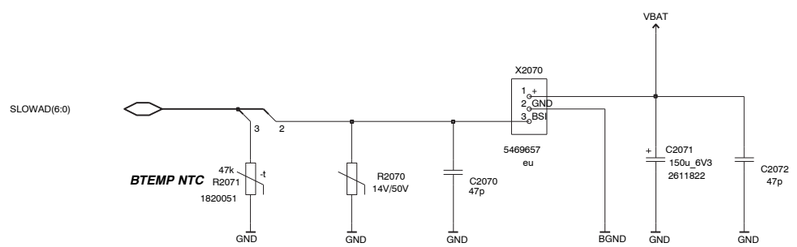

I2C(1:0)
0 I2C_SCL
1 I2C_SDA
CAM_CTRL_CMT(8:0)
4 LDO_STBY
0 CAM_CLK
1 STV_PDN
2 LDO_EN
R1552 0R
R1556 0R
C1570 100p
C1568 100p
C1569 100p
not_assembled
not_assembled
not_assembled
GND
VCAMDIG
R1555 100k
C1565 4n7 2320760
R1567 4k7
D1550
STV0984N
GPIO0 J10
GPIO1 K10
GPIO2 J9
GPIO3 G8
GPIO4 H8
GPIO5 K7
GPIO6 J7
GPIO7 H7
PIEZO1 H6
PIEZO2 K5
PDN A7
LDO_EN K4
ADC_IN K2
RST A1
RST_DIR A3
SYSCLK F8
SSDA G9
SSCL H10
PDATA1P H1
PDATA1N H2
PCLK1P H3
PCLK1N G3
LDO_STBY H4
PDATA2P F2
PDATA2N F1
PCLK2P E2
PCLK2N E1
CCP_CMT(3:0)
0 CCPClkP
1 CCPClkN
2 CCPDaP
3 CCPDaN
HCLKP C4
HCLKN D3
HDATAP D1
HDATAN D2
J1550
1V2_OUT H5
VDD1V2 A6
VDD1V2 B4
VDD1V2 J1
MSDA C2
MSCL C5
C1557 4u7 2320505
TEST A9
VDD1V8 G1
VDD1V8 J2
VDD1V8 J4
VDD1V8/2V8 F10
VDD1V8/2V8 C9
VDD_PIEZO J5
VDD_GPIO K9
TMS_OCI A2
TMS A4
TCK B1
TDI B3
TDO C6
C1558 100n
C1559 100n
DC1V8 G2
DC1V8/2V8 A5
DC_GPIO J8
VANA K1
AGND K3
C1562 10n
C1561 10n
C1560 10n
K8,A8,C1,J3,F3,H9,J6,E3,K6=
4377443
Separate caps recommended
R1551 4k7
R1550 4k7
A3300
9500489
CAMERA
ACCELER. CAN
040-042411
SMIA85 Cam holder
C1552 220n
VCAP
Vanalog
XSHUTDOWN
SYSCLK
MSCL
MSDA
PCLK2N
PCLK2P
Vdigital
PDATA2N
PDATA2P
X1550
VAUX
600R/100MHz
L1550
C1553 27p
C1554 100n
C1555 1u0
C1556 27p
5407331
SOCKET COMPACT ON-BOARD FOR SMIA85

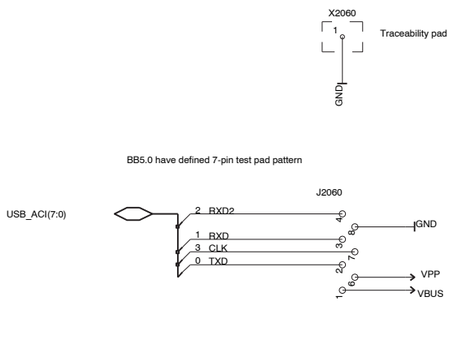

Camera Regulator
CAM_CTRL_CMT(8:0)
3 CAM_VCTRL
VBAT
VCAMDIG
N1552
LM3677TLX-1.82_NOPB
U//U
A1 Vin
A3 GND
FB C3
EN C1
SW B2
J1552
L1553
1uH
3649176
4348537
C1563 4u7
C1564 10u
GND

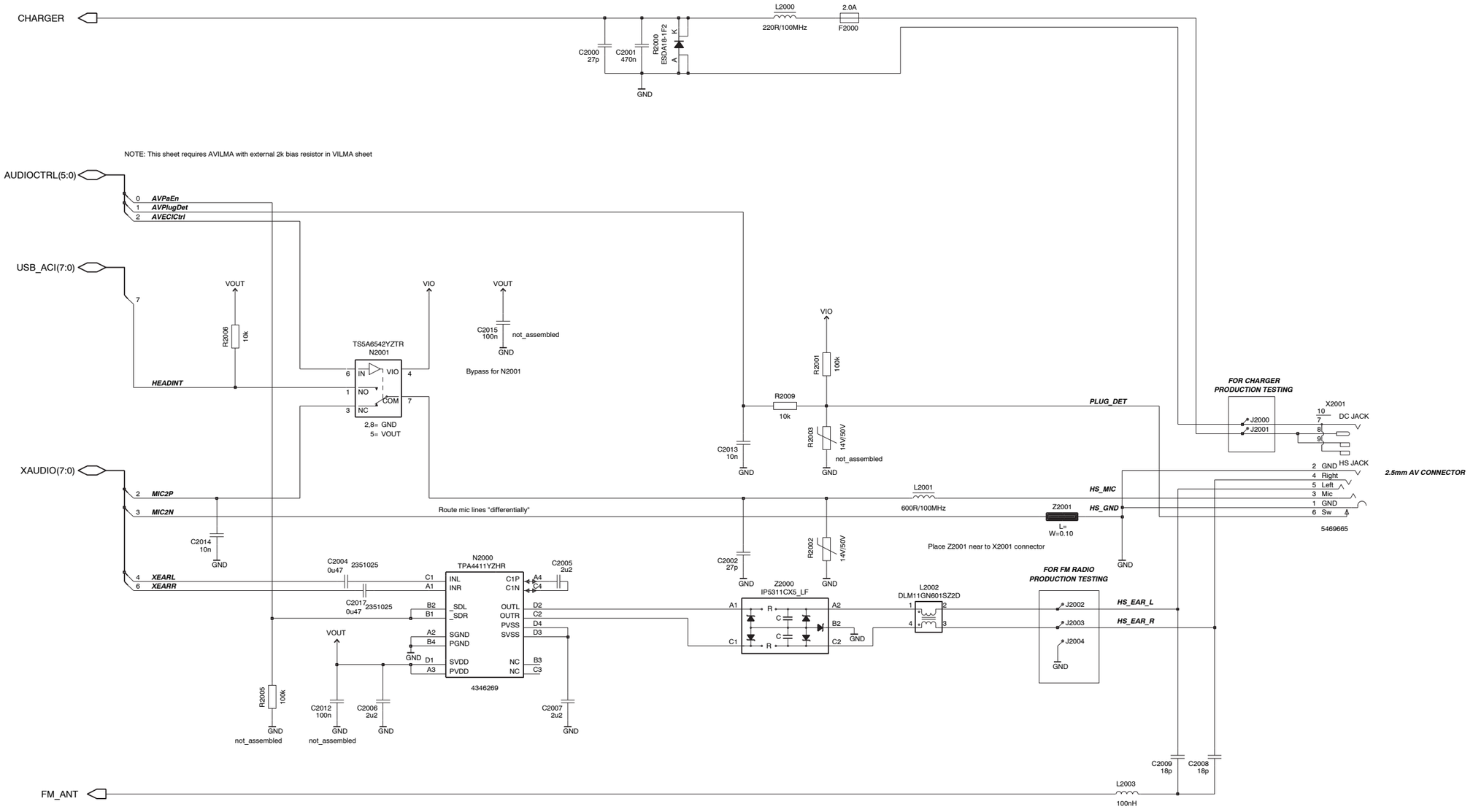

7
BTH_CLK_REQ
2
6
BT_HOSTWAKE
UART_WAKE
11
0
BT_RESETX
0
5
BT_WAKEUP
1
3
UART_CTS
UART_RTS
3
1
UART_RX
UART_TX
4
2
UART_TX
UART_RX
5
4
UART_RTS
UART_CTS
6
LPRF_CMT(7:0)
0
WLAN_TX_CONFX
12
1
WLAN_RF_ACTIVE
14
2
WLAN_STATUS
15
3
WLAN_FREQ
16
WLAN_BT(6:0)
0
PCM_CLK
7
2
PCM_OUT (Rapido)
PCM_IN (BT)
8
3
PCM_IN (Rapido)
PCM_OUT (BT)
9
1
PCM_SYNC
10
PCM(3:0)
PUSL(7:0)
0
PURX
PURX
0
1
SLEEPCLK
SLEEPCLK
2
BT_ANT
LPRFCLK_I
schematic
ANT_BTH
G_LPRF(23:0)
PUSL(3:0)
LPRFCLK
BC4_TEST(3:0)
SPI(3:0)
BT_TEST(15:0)
WLAN_CMT(7:0)

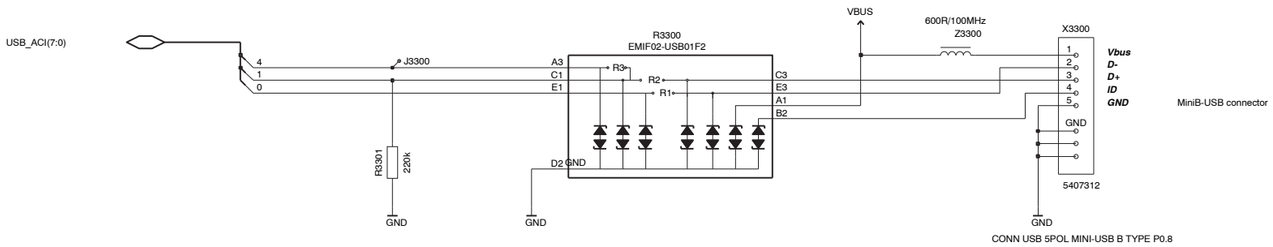

G_LPRF(23:0)
J6008 BT_RESETX 0
J6009 BT_WAKEUP 1
BTH_CLK_REQ 2
J6011 UART_RTS 3
J6012 UART_TX 4
J6013 UART_RX 5
J6014 UART_CTS 6
PCM_CLK 7
PCM_IN 8
PCM_OUT 9
PCM_SYNC 10
UART_WAKE 11
WLAN_TX_CONFX 12
WLAN_RF_ACTIVE 14
WLAN_STATUS 15
WLAN_FREQ 16
PUSL(3:0)
PURX 0
SLEEPCLK 2
SEE NOTE 2
R6037 100k 1430804
GND
PUSL(3:0)
G_LPRF(23:0)
VIO_BTH_1V8
R6030 10k 1430778
3
GND
- REMOVED -
C6041 IS OPTIONAL FOR TEST
REMOVE FOR MINIMUM PWB AREA
- REMOVED -
T6030
LDB182G4505C-110
4580043
C6052 1p2 2320514
L6030 3n3H 3646047
ANT_BTH
L6031 3n3H 3646047
NOTE: T6030 PINS 2 & 5 ARE NC
C6031 18p 2320604
C6051 1p0 2320508
GND
N6030
BC4-ROM1.0RDL
4376495
AUX_DAC
9 PCM_OUT
8 PCM_IN
10 PCM_SYNC
7 PCM_CLK
4 UART_TX
5 UART_RX
3 UART_RTS
6 UART_CTS
0 BT_RESETX
SPI_CSB
SPI_CLK
SPI_MOSI
SPI_MISO
TEST_EN
RF_IN RF_A RF_B AUX_DAC XTAL_IN PCM_OUT PCM_IN PCM_SYNC PCM_CLK UART_TX UART_RX UART_RTS UART_CTS RESETB SPI_CSB SPI_CLK SPI_MOSI SPI_MISO TEST_EN VSS_DIG VSS_PADS VSS_VCO VSS_RADIO VSS_ANA
PIO0 PIO1 PIO2 PIO3 PIO4 PIO5 PIO6 PIO7 PIO8 PIO9 AIO0 AIO2 UART_RX VREG_EN UART_RTS VREG_IN UART_CTS VDD_ANA NC NC NC VDD_PIO VDD_PADS VDD_CORE VDD_VCO VDD_RADIO
E3 LNA_ENABLE
F4 PA_ENABLE
G1 UART_WAKE 11
G2 UART_CTS_P 6
E6 BT_WAKEUP 1
E5 WLAN_STATUS 15
D7 BTH_CLK_REQ 2
D4 WLAN_RF_ACTIVE 14
F3 WLAN_FREQ 16
F1 WLAN_TX_CONFX 12
VBAT_BTH
R6034 10k 1430778
L6032 22nH 3646063
R6031 10k 1430778
C6033 10n 2320778
C6034 10n 2320778
C6038 10n 2320778
C6035 10n 2320778
R6032 2R2 1430691
C6039 18p 2320604
C6036 10n 2320778
C6040 1u0 2351009
C6037 1u5 2351039
LPRFCLK
SYSCLK
C6032 100p 2320560
VBAT
VBAT_BTH
C6055 1u0 2351009
VIO
VIO_BTH_1V8


SYS_CONN
siiri sys conn
XAUDIO(7:0)
USB_ACI(7:0)
AUDIOCTRL(5:0)
XAUDIO(7:0)
USB_ACI(7:0)
SLOWAD(6:0)
AUDIOCTRL(5:0)
CHARGER
FM_ANT
COMP_VIDEO
CHARGER
FM_ANT
COMP_VIDEO
2000-2059
PROD_TEST_PATTERN
7pin
USB_ACI(7:0)
2060-2069
BATTERY_CONN
siiri tabby
SLOWAD(6:0)
SLOWAD(6:0)
2070-2099

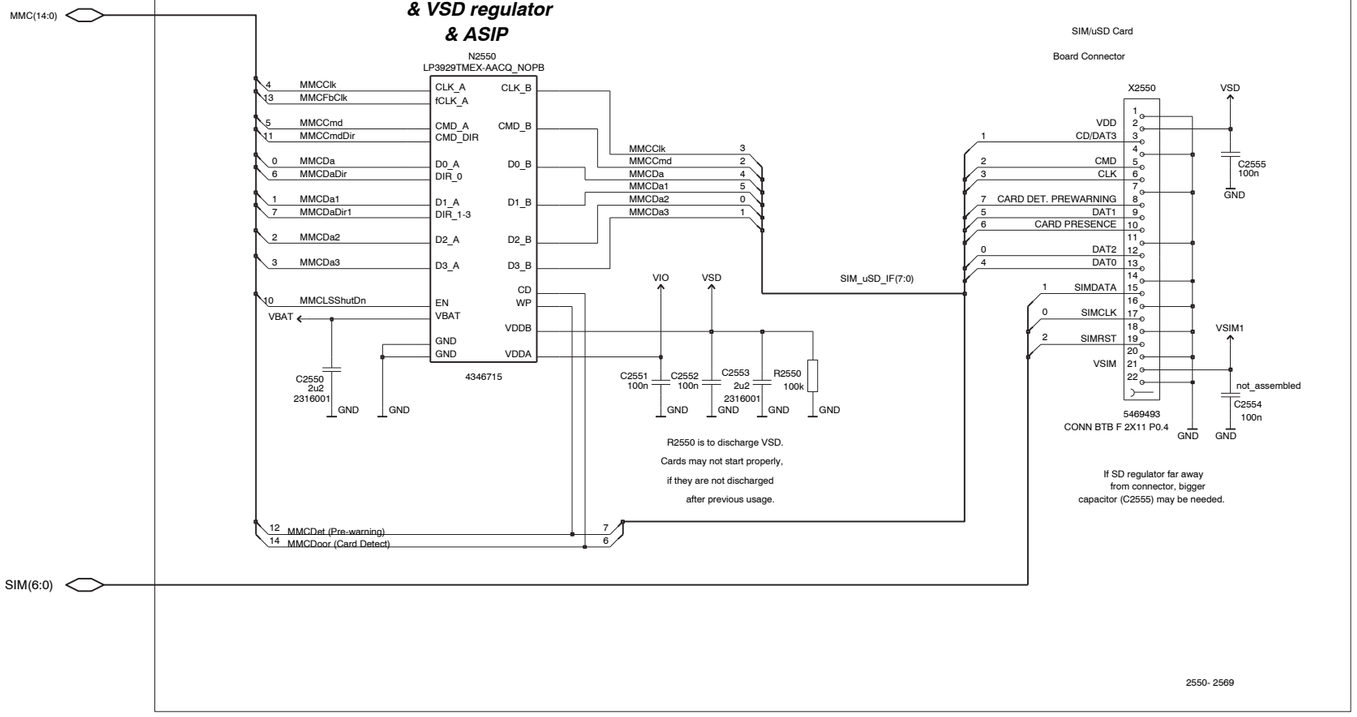

VBAT
X2070
1
2
3
5469657
eu
SLOWAD(6:0)
3
2
47k
BTEMP NTC R2071
1820051
R2070
14V/50V
C2070
47p
C2071
150u_6V3
2611822
C2072
47p
GND
GND
GND
BGND
GND
GND


X2060
1
Traceability pad
GND
BB5.0 have defined 7-pin test pad pattern
J2060
USB_ACI(7:0)
2 RXD2
1 RXD
3 CLK
0 TXD
4
8
3
7
2
6
1
5
GND
VPP
VBUS

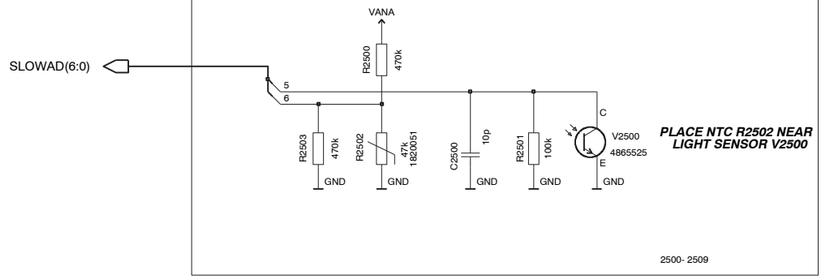

CHARGER
L2000
220R/100MHz
2.0A
F2000
C2000
27p
C2001
470n
R2000
ESDA18-1F2
K
A
GND
NOTE: This sheet requires AVILMA with external 2k bias resistor in VILMA sheet
AUDIOCTRL(5:0)
0 AVPaEn
1 AVPlugDet
2 AVECICtrl
USB_ACI(7:0)
7
HEADINT
VOUT
R2006
10k
TS5A6542YZTR
N2001
6 IN
VIO 4
1 NO
COM 7
3 NC
2,8= GND
5= VOUT
VIO
VOUT
C2015
100n
not_assembled
GND
Bypass for N2001
VIO
R2001
100k
R2009
10k
PLUG_DET
C2013
10n
GND
R2003
14V/50V
not_assembled
GND
FOR CHARGER
PRODUCTION TESTING
J2000
J2001
X2001
10
7
8
9
DC JACK
HS JACK
2 GND
4 Right
5 Left
3 Mic
1 GND
6 Sw
5469665
2.5mm AV CONNECTOR
XAUDIO(7:0)
2 MIC2P
3 MIC2N
Route mic lines "differentially"
L2001
600R/100MHz
HS_MIC
HS_GND
Z2001
L=
W=0.10
Place Z2001 near to X2001 connector
C2014
10n
GND
C2002
27p
R2002
14V/50V
4 XEARL
6 XEARR
C2004
0u47
2351025
C2017
0u47
2351025
N2000
TPA4411YZHR
C1 INL
A1 INR
B2 SDL
B1 SDR
A2 SGND
B4 PGND
GND D1 SVDD
A3 PVDD
C1P A4
C1N C4
OUTL D2
OUTR C2
PVSS D4
SVSS D3
NC B3
NC C3
C2005
2u2
4346269
Z2000
IP5311CX5_LF
A1
C1
A2
B2
C2
GND
L2002
DLM11GN601SZ2D
1
2
4
3
FOR FM RADIO
PRODUCTION TESTING
J2002
J2003
J2004
GND
HS_EAR_L
HS_EAR_R
R2005
100k
GND
not_assembled
VOUT
C2012
100n
GND
not_assembled
C2006
2u2
GND
C2007
2u2
GND
C2009
18p
C2008
18p
L2003
100nH
FM_ANT


USB_ACI(7:0)
4
1
0
J3300
R3301
220k
GND
R3300
EMIF02-USB01F2
A3
C1
E1
R3
R2
R1
C3
E3
A1
B2
D2
GND
GND
VBUS
600R/100MHz
Z3300
X3300
1
2
3
4
5
Vbus
D-
D+
ID
GND
GND
5407312
MiniB-USB connector
GND
CONN USB 5POL MINI-USB B TYPE P0.8

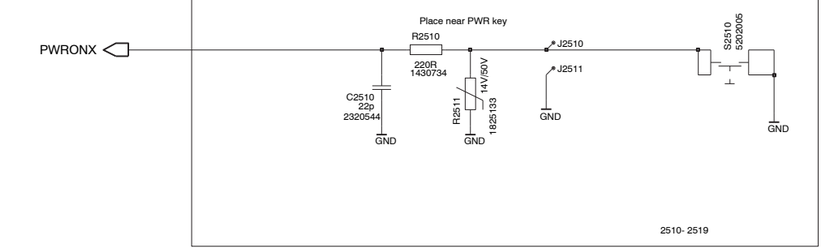
Level shifter & VSD regulator & ASIP



Ambient Light Sensor (ALS)

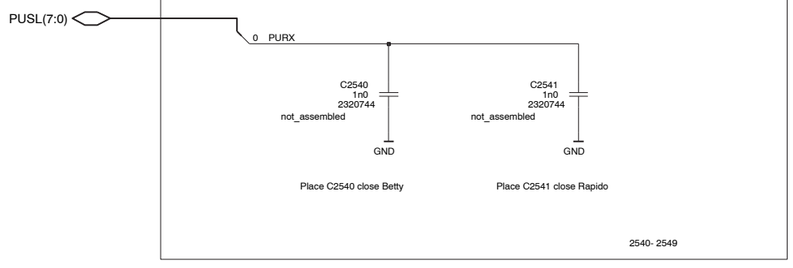


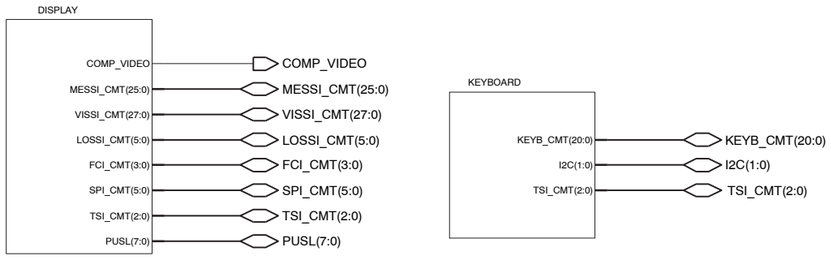
Power key



E-mail LED Driver (Blinker)

PURX Capacitor





UI Board Connector

EMIFs for UI Keyboard

KEYB_CMT(20:0)

Z2450
EMIF02-MIC02F3
I1 E1
I2 GND E2
4129309
GND GND

Z2451
EMIF10-LCD02F3

0	ROW0	Output1	Input1
1	ROW1	Output2	Input2
2	ROW2	Output3	Input3
3	ROW3	Output4	Input4
4	ROW4	Output5	Input5
5	COL0	Output6	Input6
6	COL1	Output7	Input7
7	COL2	Output8	Input8
8	COL3	Output9	Input9
9	COL4	Output10	Input10
10	COL5	GND	GND
		GND	GND

4129289
GND GND

ROW(4:0)
COL(6:0)

ROW0	0	0	ROW0
ROW1	1	1	ROW1
ROW2	2	2	ROW2
ROW3	3	3	ROW3
ROW4	4	4	ROW4
COL0	0	0	COL0
COL1	1	1	COL1
COL2	2	2	COL2
COL3	3	3	COL3
COL4	4	4	COL4
COL5	5	5	COL5

LEDOUT2
C2451 47p GND
C2450 1n0 GND

X2450

VLED+	1	2	VLED+
	3	4	
ROW0	5	6	ROW1
ROW2	7	8	ROW3
ROW4	9	10	COL0
COL1	11	12	COL2
COL3	13	14	COL4
COL5	15	16	
	17	18	VLED-
VLED-	19	20	GND

5469227
GND
SM CONN 2X10 F P0.4 PCB/PCB

TSI_CMT(2:0)

V2450
DTC143ZM-T2L
1 IN
R1 4k7
R2 47k
OUT
R2456 1825133 14V/50V not_assembled
GND GND

Keyboard LED control

Side Keys

S2450 5202005 Vol+
S2451 5202005 Mute

COL4
ROW1
COL3

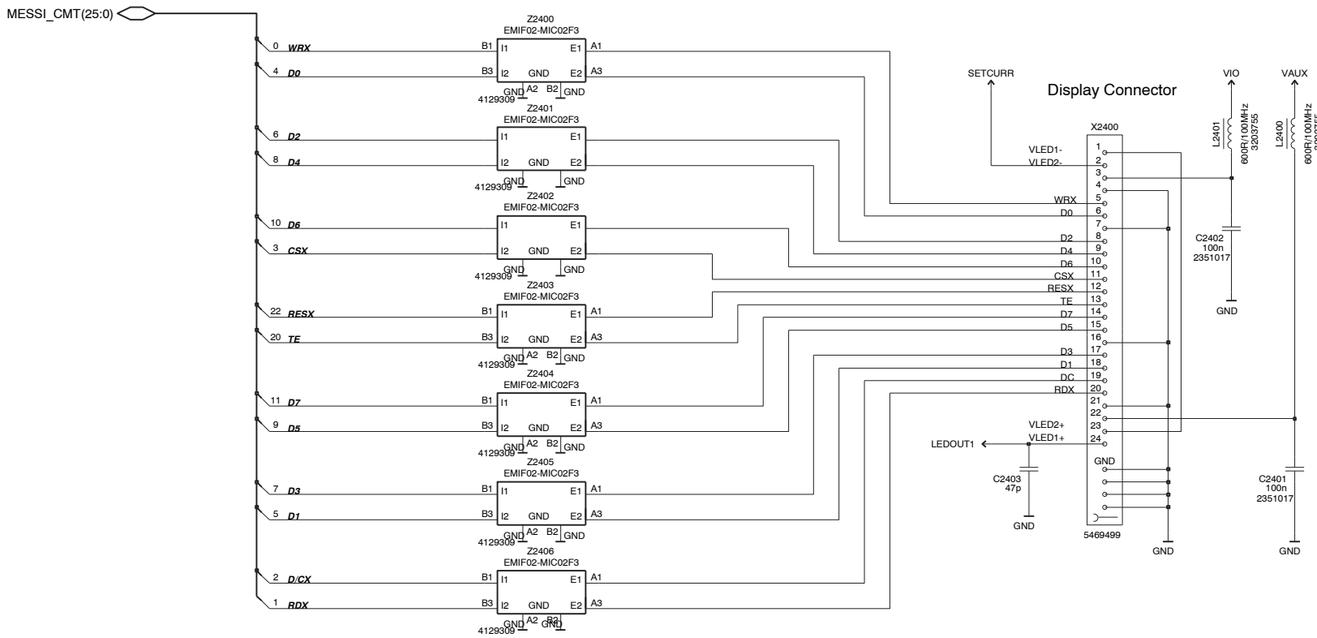
R2451 1825133 14V/50V not_assembled GND
R2450 1825133 14V/50V not_assembled GND
R2452 1825133 14V/50V not_assembled GND

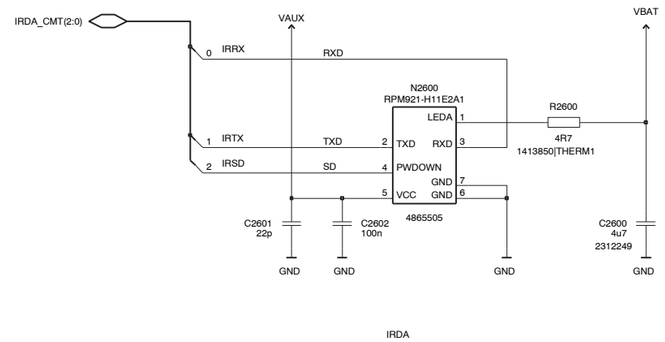
Side Keys

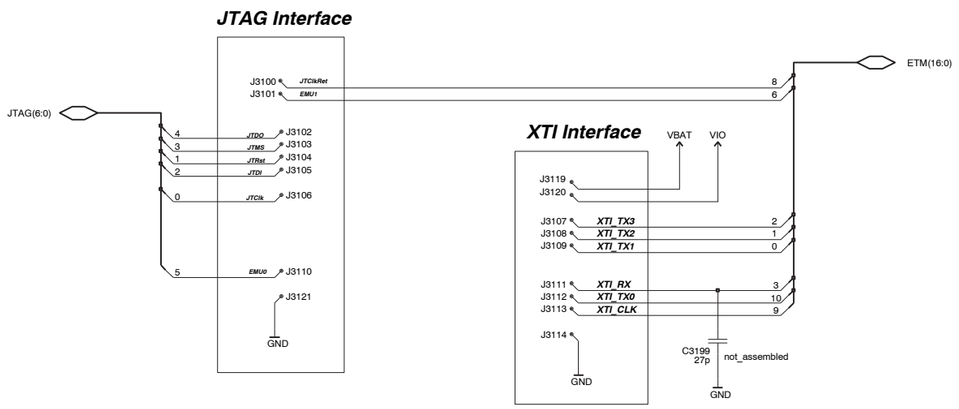
S2452 5202005 Vol-
S2453 5202005 Special Key
(PTT, Voice Dialling and Record)

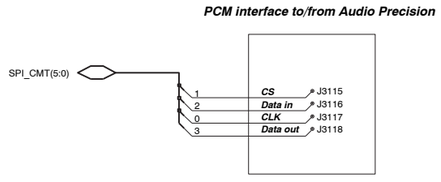
COL4
ROW3
COL2

R2453 1825133 14V/50V not_assembled GND
R2454 1825133 14V/50V not_assembled GND
R2455 1825133 14V/50V not_assembled GND


MESSI_CMT(25:0)
Z2400
EMIF02-MIC02F3
0 WRX
4 D0
4129309
Z2401
EMIF02-MIC02F3
6 D2
8 D4
4129309
Z2402
EMIF02-MIC02F3
10 D6
3 CSX
4129309
Z2403
EMIF02-MIC02F3
22 RESX
20 TE
4129309
Z2404
EMIF02-MIC02F3
11 D7
9 D5
4129309
Z2405
EMIF02-MIC02F3
7 D3
5 D1
4129309
Z2406
EMIF02-MIC02F3
2 D/CX
1 RDX
4129309
B1 I1 E1 A1
B3 I2 GND E2 A3
GND A2 B2 GND
SETCURR
Display Connector
X2400
VLED1-
VLED2-
WRX
D0
D2
D4
D6
CSX
RESX
TE
D7
D5
D3
D1
DC
RDX
VLED2+
VLED1+
LEDOUT1
C2403
47p
GND
5469499
VIO
VAUX
L2401
600R/100MHz
3203755
L2400
600R/100MHz
3203755
C2402
100n
2351017
C2401
100n
2351017


IRDA_CMT(2:0)
VAUX
VBAT
0
IRRX
RXD
1
IRTX
TXD
2
IRSD
SD
N2600
RPM921-H11E2A1
LEDA
1
TXD
2
RXD
3
PWDOWN
4
VCC
5
GND
7
GND
6
4865505
R2600
4R7
1413850|THERM1
C2601
22p
C2602
100n
C2600
4u7
2312249
GND
GND
GND
GND
IRDA


JTAG Interface
JTAG(6:0)
J3100
JTClkRet
J3101
EMU1
4
JTDO
J3102
3
JTMS
J3103
1
JTRet
J3104
2
JTDI
J3105
0
JTClk
J3106
5
EMU0
J3110
J3121
GND
XTI Interface
VBAT
VIO
J3119
J3120
J3107
XTI_TX3
J3108
XTI_TX2
J3109
XTI_TX1
J3111
XTI_RX
J3112
XTI_TX0
J3113
XTI_CLK
J3114
GND
C3199
27p
not_assembled
GND
8
6
2
1
0
3
10
9
ETM(16:0)


PCM interface to/from Audio Precision
SPI_CMT(5:0)
1
CS
J3115
2
Data in
J3116
0
CLK
J3117
3
Data out
J3118

GPSCLK
LPRFCLK_I
DIG_AUDIO(5:0)
AUDIO(8:0)
H_BRIDGE(3:0)
SIM(6:0)
XAUDIO(7:0)
USB_ACI(7:0)
CHARGER
BETTYIO(3:0)
PWRONX
CBUS(3:0)
FCI_CMT(3:0)
HS_USB(12:0)
PCM(3:0)
IRDA_CMT(2:0)
TSI_CMT(2:0)
WLAN_CMT(7:0)
GPS_CMT(3:0)
RFID_CMT(1:0)
AUDIOCTRL(5:0)
I2S_CMT_AUDIO(5:0)

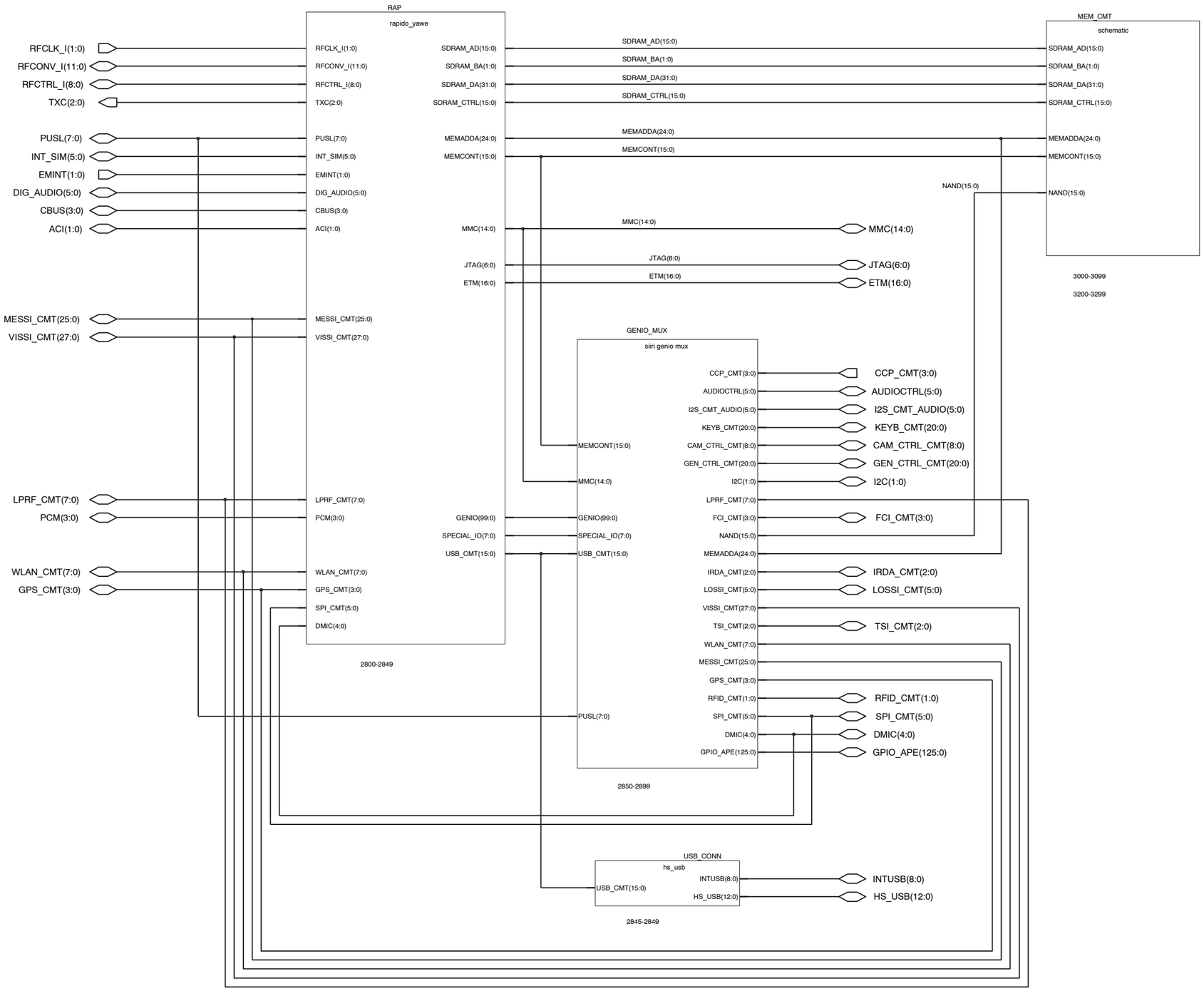
POWER
basic
AUDIO(8:0)
H_BRIDGE(3:0)
SIM(6:0)
XAUDIO(7:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
BETTYIO(3:0)
TXC_CONV(2:0)
DIG_AUDIO(5:0)
EMINT(1:0)
ACI(1:0)
TXC(2:0)
INT_SIM(5:0)
CBUS(3:0)
PUSL(7:0)
FCI_CMT(3:0)
INTUSB(8:0)
PWRONX

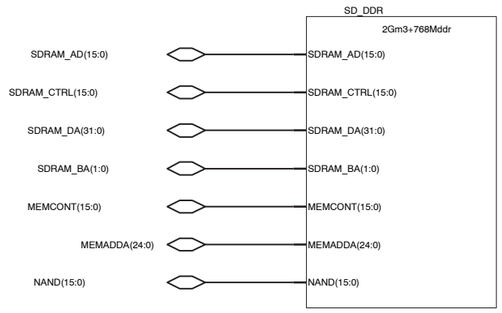
DIGI
basic
DIG_AUDIO(5:0)
EMINT(1:0)
ACI(1:0)
TXC(2:0)
INT_SIM(5:0)
CBUS(3:0)
PUSL(7:0)
FCI_CMT(3:0)
PCM(3:0)
JTAG(6:0)
ETM(16:0)
IRDA_CMT(2:0)
TSI_CMT(2:0)
WLAN_CMT(7:0)
GPS_CMT(3:0)
RFID_CMT(1:0)
AUDIOCTRL(5:0)
I2S_CMT_AUDIO(5:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
MMC(14:0)
LPRF_CMT(7:0)
CAM_CTRL_CMT(8:0)
CCP_CMT(3:0)
DMIC(4:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(5:0)
I2C(1:0)
GEN_CTRL_CMT(20:0)
VISSI_CMT(27:0)
LOSSI_CMT(5:0)
HS_USB(12:0)
INTUSB(8:0)
GPIO_APE(125:0)

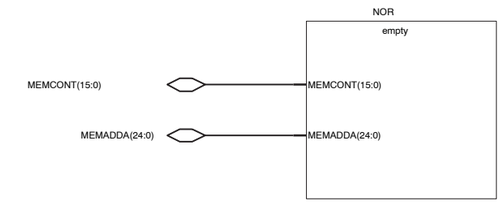
RF_BB
schematic
GPSCLK
LPRFCLK_I
TXCCONV_I(2:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
RFClkExt_GPS
RFClkExt
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(2:0)
RFPWR(5:0)

SLOWAD(6:0)
RFClkExt_GPS
RFClkExt
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(2:0)
RFPWR(5:0)
MMC(14:0)
LPRF_CMT(7:0)
CAM_CTRL_CMT(8:0)
CCP_CMT(3:0)
DMIC(4:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(5:0)
I2C(1:0)
GEN_CTRL_CMT(20:0)
VISSI_CMT(27:0)
LOSSI_CMT(5:0)
INTUSB(8:0)
GPIO_APE(125:0)
ETM(16:0)
JTAG(6:0)
PUSL(7:0)

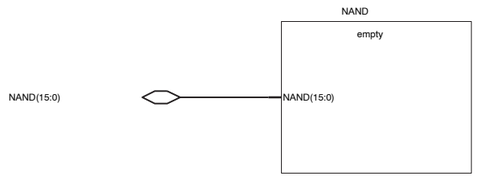
A2800
BB_CAN
040-042407
GND
9500485


RAP
rapido_yawe
RFCLK_I(1:0)
RFCONV_I(11:0)
RFCTRL_I(8:0)
TXC(2:0)
PUSL(7:0)
INT_SIM(5:0)
EMINT(1:0)
DIG_AUDIO(5:0)
CBUS(3:0)
ACI(1:0)
MESSI_CMT(25:0)
VISSI_CMT(27:0)
LPRF_CMT(7:0)
PCM(3:0)
WLAN_CMT(7:0)
GPS_CMT(3:0)
SPI_CMT(5:0)
DMIC(4:0)
SDRAM_AD(15:0)
SDRAM_BA(1:0)
SDRAM_DA(31:0)
SDRAM_CTRL(15:0)
MEMADDA(24:0)
MEMCONT(15:0)
MMC(14:0)
JTAG(6:0)
ETM(16:0)
GENIO(99:0)
SPECIAL_IO(7:0)
USB_CMT(15:0)
2800-2849
MEM_CMT
schematic
NAND(15:0)
3000-3099
3200-3299
GENIO_MUX
siiri genio mux
CCP_CMT(3:0)
AUDIOCTRL(5:0)
I2S_CMT_AUDIO(5:0)
KEYB_CMT(20:0)
CAM_CTRL_CMT(8:0)
GEN_CTRL_CMT(20:0)
I2C(1:0)
FCI_CMT(3:0)
IRDA_CMT(2:0)
LOSSI_CMT(5:0)
TSI_CMT(2:0)
RFID_CMT(1:0)
GPIO_APE(125:0)
2850-2899
USB_CONN
hs_usb
INTUSB(8:0)
HS_USB(12:0)
2845-2849



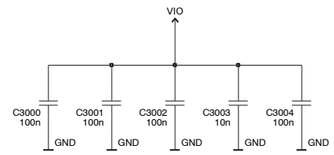


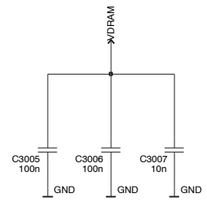
NOT IN USE

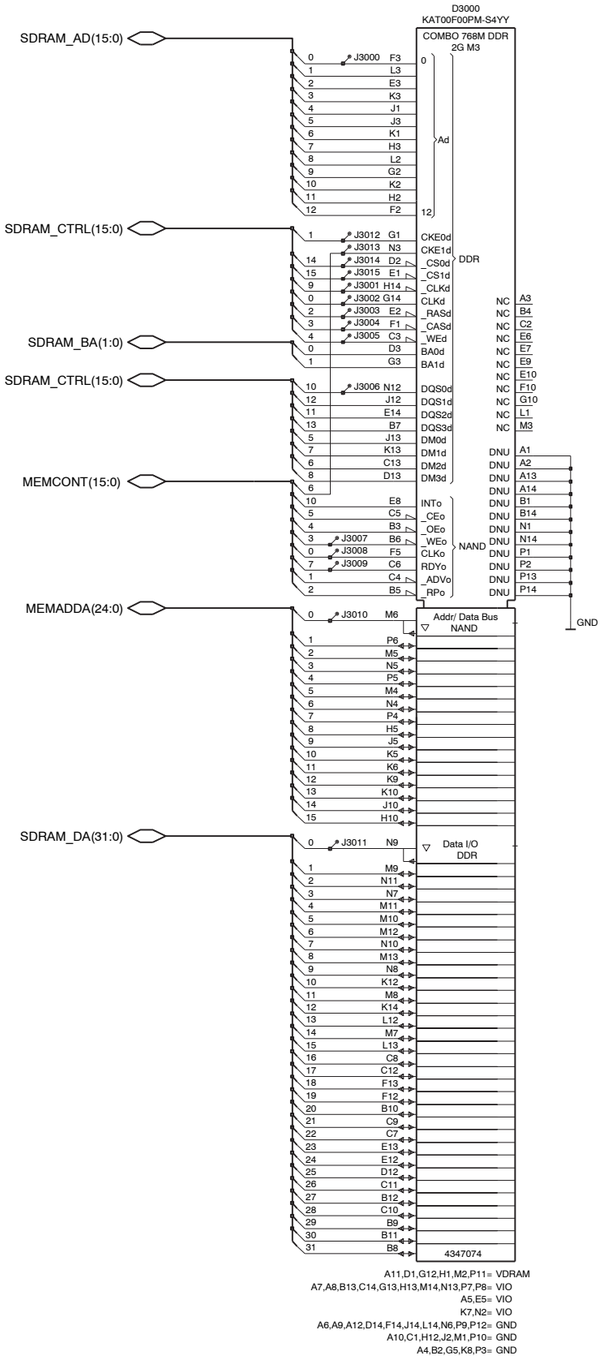


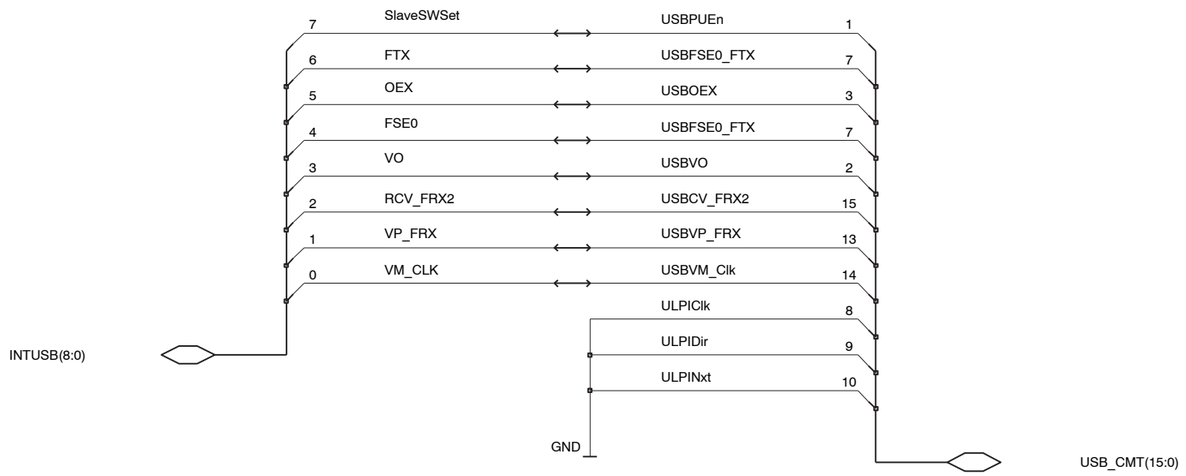
NOT IN USE

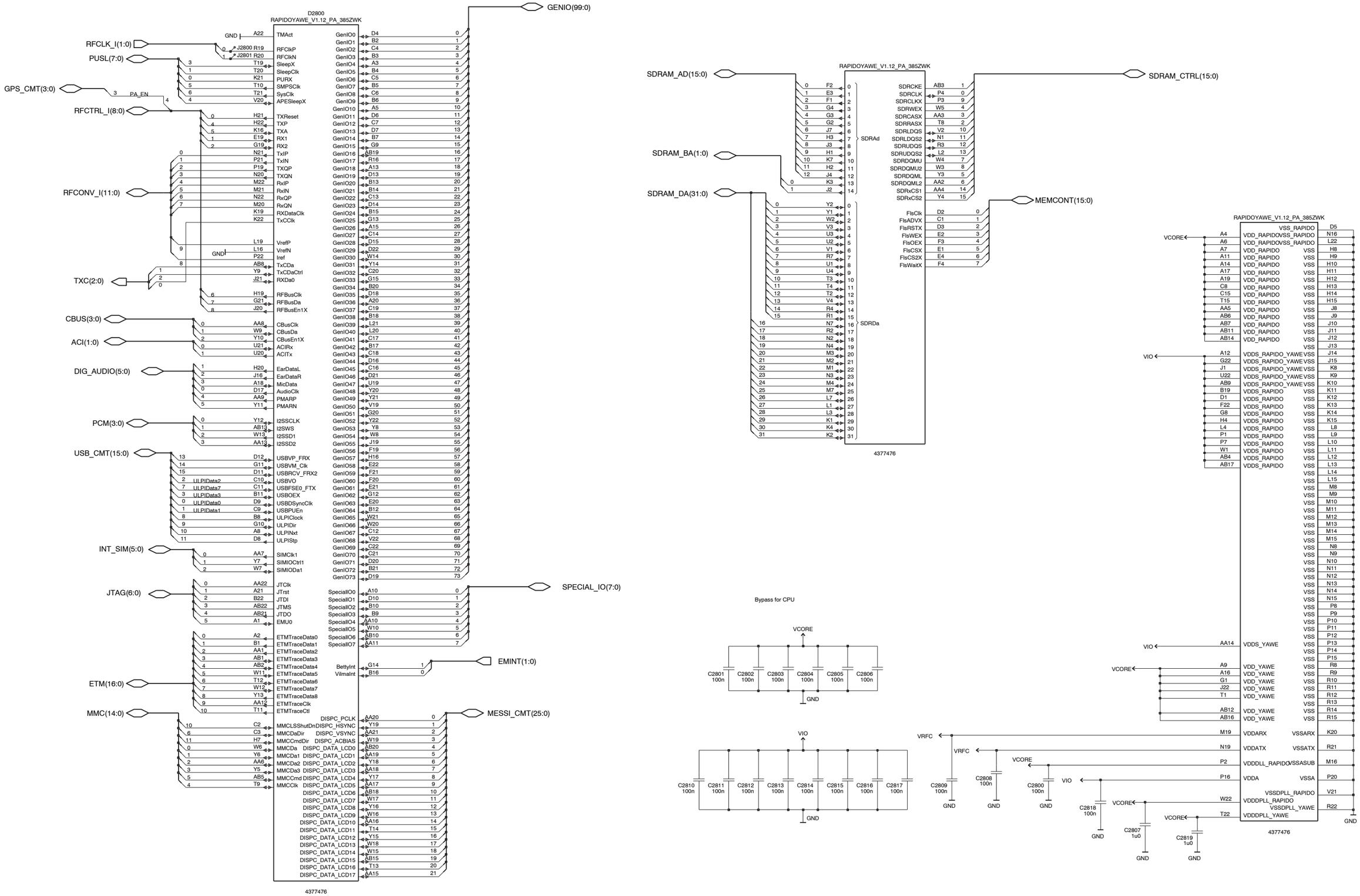
768Mb (DDR) + 2Gb (M3)

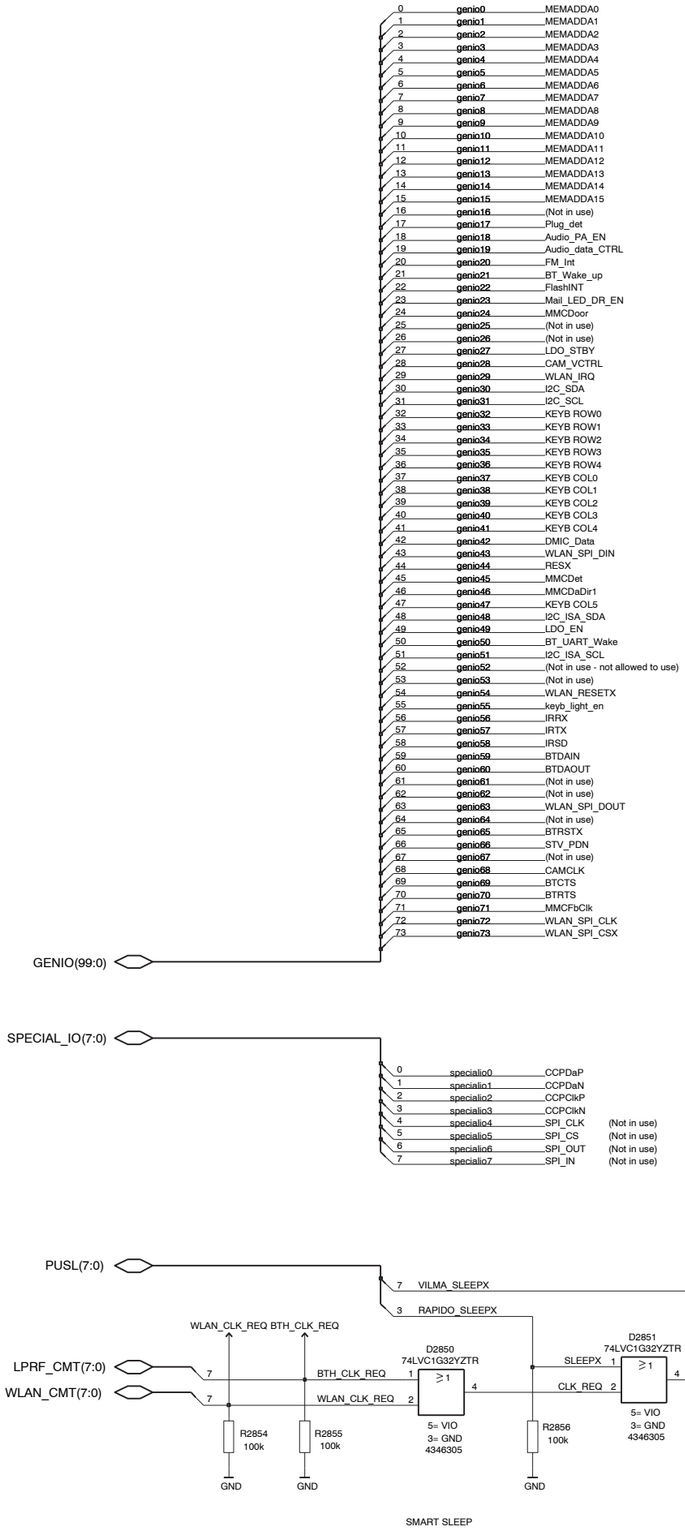


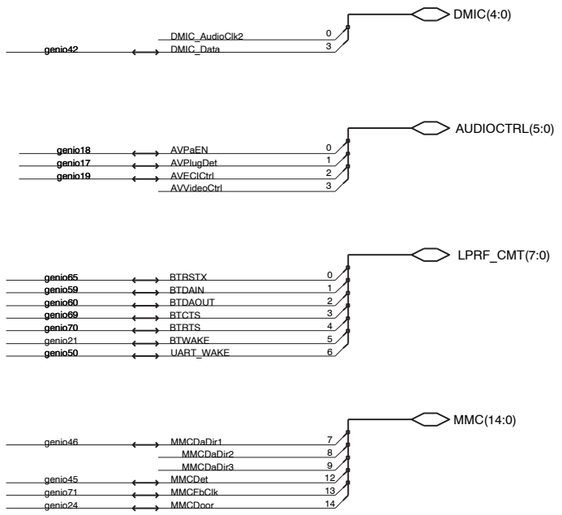


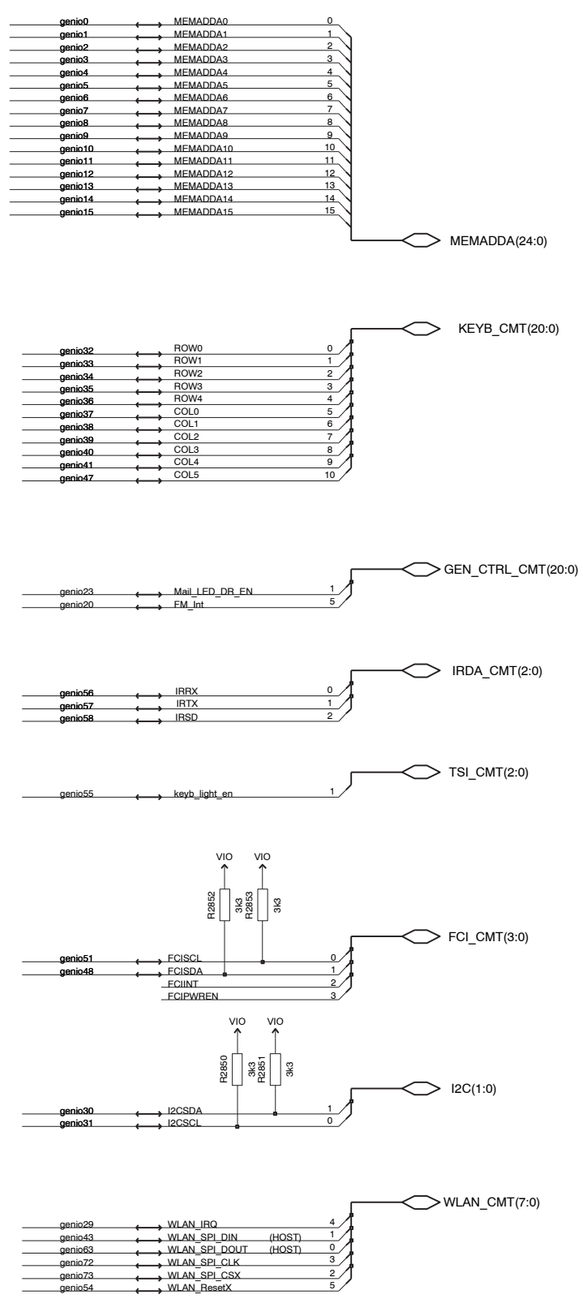


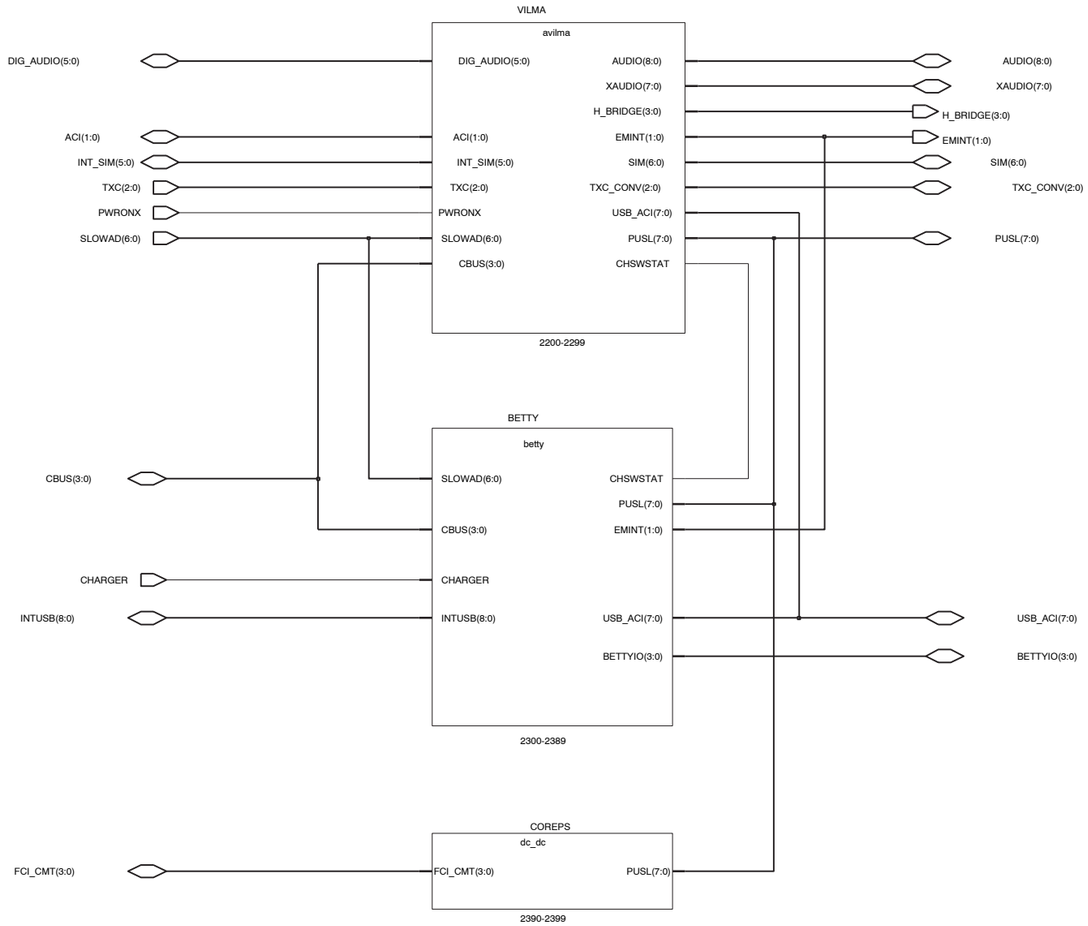

INTUSB(8:0)
7
SlaveSWSet
6
FTX
5
OEX
4
FSE0
3
VO
2
RCV_FRX2
1
VP_FRX
0
VM_CLK
USBPUEn
1
USBFSE0_FTX
7
USBOEX
3
USBFSE0_FTX
7
USBVO
2
USBCV_FRX2
15
USBVP_FRX
13
USBVM_Clk
14
ULPIClk
8
ULPIDir
9
ULPINxt
10
GND
USB_CMT(15:0)

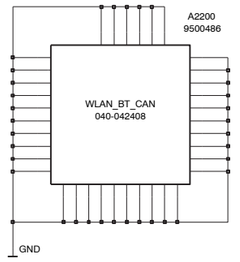

D2800
RAPIDOYAWE_V1.12_PA_385ZWK
GENIO(99:0)
RFCLK_I(1:0)
PUSL(7:0)
GPS_CMT(3:0)
PA_EN
RFCTRL_I(8:0)
RFCONV_I(11:0)
TXC(2:0)
CBUS(3:0)
ACI(1:0)
DIG_AUDIO(5:0)
PCM(3:0)
USB_CMT(15:0)
INT_SIM(5:0)
JTAG(6:0)
ETM(16:0)
MMC(14:0)
SPECIAL_IO(7:0)
EMINT(1:0)
MESSI_CMT(25:0)
GND
J2800 R19
J2801 R20
RFClkP
RFClkN
SleepX
SleepClk
PURX
SMPSClk
SysClk
APESleepX
TXReset
TXP
TXA
RX1
RX2
TxIP
TxIN
TXQP
TXQN
RxIP
RxIN
RxQP
RxQN
RXDataClk
TxCClk
VrefP
VrefN
Iref
TxCDa
TxCDaCtrl
RXDa0
RFBusClk
RFBusDa
RFBusEn1X
CBusClk
CBusDa
CBusEn1X
ACIRx
ACITx
EarDataL
EarDataR
MicData
AudioClk
PMARP
PMARN
I2SSCLK
I2SWS
I2SSD1
I2SSD2
USBVP_FRX
USBVM_Clk
USBRCV_FRX2
USBVO
USBFSE0_FTX
USBOEX
USBDSyncClk
USBPUEn
ULPIClock
ULPIDir
ULPINxt
ULPIStp
SIMClk1
SIMIOCtrl1
SIMIODa1
JTClk
JTrst
JTDI
JTMS
JTDO
EMU0
ETMTraceData0
ETMTraceData1
ETMTraceData2
ETMTraceData3
ETMTraceData4
ETMTraceData5
ETMTraceData6
ETMTraceData7
ETMTraceData8
ETMTraceClk
ETMTraceCtl
BettyInt
VilmaInt
DISPC_PCLK
DISPC_HSYNC
DISPC_VSYNC
DISPC_ACBIAS
DISPC_DATA_LCD0
DISPC_DATA_LCD1
DISPC_DATA_LCD2
DISPC_DATA_LCD3
DISPC_DATA_LCD4
DISPC_DATA_LCD5
DISPC_DATA_LCD6
DISPC_DATA_LCD7
DISPC_DATA_LCD8
DISPC_DATA_LCD9
DISPC_DATA_LCD10
DISPC_DATA_LCD11
DISPC_DATA_LCD12
DISPC_DATA_LCD13
DISPC_DATA_LCD14
DISPC_DATA_LCD15
DISPC_DATA_LCD16
DISPC_DATA_LCD17
4377476
SDRAM_AD(15:0)
SDRAM_BA(1:0)
SDRAM_DA(31:0)
SDRAM_CTRL(15:0)
MEMCONT(15:0)
RAPIDOYAWE_V1.12_PA_385ZWK
SDRAd
SDRDa
SDRCKE
SDRCLK
SDRCLKX
SDRWEX
SDRCASX
SDRRASX
SDRLDQS
SDRLDQS2
SDRUDQS
SDRUDQS2
SDRDQMU
SDRDQMU2
SDRDQML
SDRDQML2
SDRxCS1
SDRxCS2
FlsClk
FlsADVX
FlsRSTX
FlsWEX
FlsOEX
FlsCSX
FlsCS2X
FlsWaitX
4377476
Bypass for CPU
VCORE
VIO
VRFC
C2801 100n
C2802 100n
C2803 100n
C2804 100n
C2805 100n
C2806 100n
C2807 1u0
C2808 100n
C2809 100n
C2810 100n
C2811 100n
C2812 100n
C2813 100n
C2814 100n
C2815 100n
C2816 100n
C2817 100n
C2818 100n
C2819 1u0
C2800 100n
GND
RAPIDOYAWE_V1.12_PA_385ZWK
VSS_RAPIDO
VDD_RAPIDO
VSS
VDDS_YAWE
VDD_YAWE
VDDARX
VSSARX
VDDATX
VSSATX
VDDDLL_RAPIDO
VSSASUB
VDDA
VSSA
VSSDPLL_RAPIDO
VDDDPLL_RAPIDO
VSSDPLL_YAWE
VDDDPLL_YAWE
VDDS_RAPIDO
VSS_RAPIDO
VDD_RAPIDO
VSS
VDD_YAWE
VSS
VDDS_YAWE
VDD_YAWE
VDDARX
VSSARX
VDDATX
VSSATX
VDDDLL_RAPIDO
VSSASUB
VDDA
VSSA
VSSDPLL_RAPIDO
VDDDPLL_RAPIDO
VSSDPLL_YAWE
VDDDPLL_YAWE
4377476


GENIO(99:0)
0 genio0 MEMADDA0
1 genio1 MEMADDA1
2 genio2 MEMADDA2
3 genio3 MEMADDA3
4 genio4 MEMADDA4
5 genio5 MEMADDA5
6 genio6 MEMADDA6
7 genio7 MEMADDA7
8 genio8 MEMADDA8
9 genio9 MEMADDA9
10 genio10 MEMADDA10
11 genio11 MEMADDA11
12 genio12 MEMADDA12
13 genio13 MEMADDA13
14 genio14 MEMADDA14
15 genio15 MEMADDA15
16 genio16 (Not in use)
17 genio17 Plug_det
18 genio18 Audio_PA_EN
19 genio19 Audio_data_CTRL
20 genio20 FM_Int
21 genio21 BT_Wake_up
22 genio22 FlashINT
23 genio23 Mail_LED_DR_EN
24 genio24 MMCDoor
25 genio25 (Not in use)
26 genio26 (Not in use)
27 genio27 LDO_STBY
28 genio28 CAM_VCTRL
29 genio29 WLAN_IRQ
30 genio30 I2C_SDA
31 genio31 I2C_SCL
32 genio32 KEYB ROW0
33 genio33 KEYB ROW1
34 genio34 KEYB ROW2
35 genio35 KEYB ROW3
36 genio36 KEYB ROW4
37 genio37 KEYB COL0
38 genio38 KEYB COL1
39 genio39 KEYB COL2
40 genio40 KEYB COL3
41 genio41 KEYB COL4
42 genio42 DMIC_Data
43 genio43 WLAN_SPI_DIN
44 genio44 RESX
45 genio45 MMCDet
46 genio46 MMCDaDir1
47 genio47 KEYB COL5
48 genio48 I2C_ISA_SDA
49 genio49 LDO_EN
50 genio50 BT_UART_Wake
51 genio51 I2C_ISA_SCL
52 genio52 (Not in use - not allowed to use)
53 genio53 (Not in use)
54 genio54 WLAN_RESETX
55 genio55 keyb_light_en
56 genio56 IRRX
57 genio57 IRTX
58 genio58 IRSD
59 genio59 BTDAIN
60 genio60 BTDAOUT
61 genio61 (Not in use)
62 genio62 (Not in use)
63 genio63 WLAN_SPI_DOUT
64 genio64 (Not in use)
65 genio65 BTRSTX
66 genio66 STV_PDN
67 genio67 (Not in use)
68 genio68 CAMCLK
69 genio69 BTCTS
70 genio70 BTRTS
71 genio71 MMCFbClk
72 genio72 WLAN_SPI_CLK
73 genio73 WLAN_SPI_CSX
SPECIAL_IO(7:0)
0 specialio0 CCPDaP
1 specialio1 CCPDaN
2 specialio2 CCPClkP
3 specialio3 CCPClkN
4 specialio4 SPI_CLK (Not in use)
5 specialio5 SPI_CS (Not in use)
6 specialio6 SPI_OUT (Not in use)
7 specialio7 SPI_IN (Not in use)
PUSL(7:0)
7 VILMA_SLEEPX
3 RAPIDO_SLEEPX
WLAN_CLK_REQ BTH_CLK_REQ
LPRF_CMT(7:0)
WLAN_CMT(7:0)
BTH_CLK_REQ
WLAN_CLK_REQ
D2850 74LVC1G32YZTR
D2851 74LVC1G32YZTR
SLEEPX
CLK_REQ
5= VIO
3= GND
4346305
R2854 100k
R2855 100k
R2856 100k
GND
SMART SLEEP


DMIC(4:0)
DMIC_AudioClk2 0
genio42 DMIC_Data 3
AUDIOCTRL(5:0)
genio18 AVPaEN 0
genio17 AVPlugDet 1
genio19 AVECICtrl 2
AVVideoCtrl 3
LPRF_CMT(7:0)
genio65 RTRSTX 0
genio59 BTDAIN 1
genio60 BTDAOUT 2
genio69 RTCTS 3
genio70 RTRTS 4
genio21 RTWAKE 5
genio50 UART_WAKE 6
MMC(14:0)
genio46 MMCDaDir1 7
MMCDaDir2 8
MMCDaDir3 9
genio45 MMCDet 12
genio71 MMCFbClk 13
genio24 MMCDoor 14
MESSI_CMT(25:0)
genio44 RESX 22
MEMCONT(15:0)
genio22 Flash_int 10
SPI_CMT(5:0)
specialio4 SPI_CLK 0
specialio5 SPI_CS 1
specialio7 SPI_IN 2
specialio6 SPI_OUT 3
CAM_CTRL_CMT(8:0)
genio28 CAM_VCTRL 3
genio66 STV_PDN 1
genio49 LDO_EN 2
genio68 CAM_CLK 0
genio27 LDOSTBY 4
R2861 100R
R2862 100R
CCP_CMT(3:0)
specialio2 CCPClkP 0
specialio3 CCPClkN 1
specialio0 CCPDaP 2
specialio1 CCPDaN 3


MEMADDA(24:0)
genio0 MEMADDA0 0
genio1 MEMADDA1 1
genio2 MEMADDA2 2
genio3 MEMADDA3 3
genio4 MEMADDA4 4
genio5 MEMADDA5 5
genio6 MEMADDA6 6
genio7 MEMADDA7 7
genio8 MEMADDA8 8
genio9 MEMADDA9 9
genio10 MEMADDA10 10
genio11 MEMADDA11 11
genio12 MEMADDA12 12
genio13 MEMADDA13 13
genio14 MEMADDA14 14
genio15 MEMADDA15 15
KEYB_CMT(20:0)
genio32 ROW0 0
genio33 ROW1 1
genio34 ROW2 2
genio35 ROW3 3
genio36 ROW4 4
genio37 COL0 5
genio38 COL1 6
genio39 COL2 7
genio40 COL3 8
genio41 COL4 9
genio47 COL5 10
GEN_CTRL_CMT(20:0)
genio23 Mail_LED_DR_EN 1
genio20 FM_Int 5
IRDA_CMT(2:0)
genio56 IRRX 0
genio57 IRTX 1
genio58 IRSD 2
TSI_CMT(2:0)
genio55 keyb_light_en 1
VIO VIO
R2852 3k3
R2853 3k3
FCI_CMT(3:0)
genio51 FCISCL 0
genio48 FCISDA 1
FCINT 2
FCIPWREN 3
R2850 3k3
R2851 3k3
I2C(1:0)
genio30 I2CSDA 1
genio31 I2CSCL 0
WLAN_CMT(7:0)
genio29 WLAN_IRQ 4
genio43 WLAN_SPI_DIN (HOST) 1
genio63 WLAN_SPI_DOUT (HOST) 0
genio72 WLAN_SPI_CLK 3
genio73 WLAN_SPI_CSX 2
genio54 WLAN_ResetX 5


VILMA
avilma
DIG_AUDIO(5:0)
ACI(1:0)
INT_SIM(5:0)
TXC(2:0)
PWRONX
SLOWAD(6:0)
CBUS(3:0)
AUDIO(8:0)
XAUDIO(7:0)
H_BRIDGE(3:0)
EMINT(1:0)
SIM(6:0)
TXC_CONV(2:0)
USB_ACI(7:0)
PUSL(7:0)
CHSWSTAT
2200-2299
BETTY
betty
CHARGER
INTUSB(8:0)
BETTYIO(3:0)
2300-2389
COREPS
dc_dc
FCI_CMT(3:0)
2390-2399


A2200
9500486
WLAN_BT_CAN
040-042408
GND

External SMPS for VIO & VDRAM

PUSL(7:0)

VDRAM

VIO

VBAT

E2203

E2201

N2201
LM3677TLX-1.82_NOPB

U//U

C3 FB

RstX C1 EN

L2206 B2 SW

Vin A1

GND A3

C2218
4u7
2320505

C2219
10u
2351061

1uH
3649176

4348537

GND

GND

GND

AUDIO(8:0)

XAUDIO(7:0)

R2200
2k
1438761

N2200
AVILMA_1.05C

H_BRIDGE(3:0)

SLOWAD(6:0)

BSI

BTEMP

LS

LST

RFTEMP

VCHAR

WTXDET

C2205
1n0

B2200
32.768kHz

VBACK

PWRONX

WATCHDOG ENABLE

DIG_AUDIO(5:0)

CHSWSTAT

CBUS(3:0)

TXC(2:0)

INT_SIM(5:0)

ACI(1:0)

C2228 2x1u5

C2232 2x1u5

C2211 4u7

C2222 1u0

C2220 2x1u5

C2213 2x1u5

C2215 2x1u5

C2216 1u5

C2217 1u5

C2201 1u5

C2203 2u2

C2202 2u2

NOT IN USE

VIO_V VDRAM_V

VRCP1 VSIM2 VSIM1 VRFC VR1 VAUX VANA VREF_INT VREF

EMINT(1:0)

USB_ACI(7:0)

TXC_CONV(2:0)

SIM(6:0)

PUSL(7:0)

J2200 J2201 J2202 J2203 J2204 J2205 J2206 J2207 J2209 J2210 J2211 J2212 J2213 J2214 J2215 J2220 J2221

J2208 J2216 J2217 J2218 J2219

Note: With SleepClk line should be used Near-End Star Cluster topology,

which means that every conponent has own branch so they are not chained.

It is very important these branches are equal lenght and the star point

(dividing point) is near Vilma

VBAT3 VBAT2 VBAT1 VBAT4

VBAT

L2202

220R/100MHz

C2225 1u0

C2226 1u0

C2227 2x1u5

C2227 2x1u5

VBAT5 VBATCP

C2228 2x1u5

C2232 2x1u5

VBATH

L2205

220R/100MHz

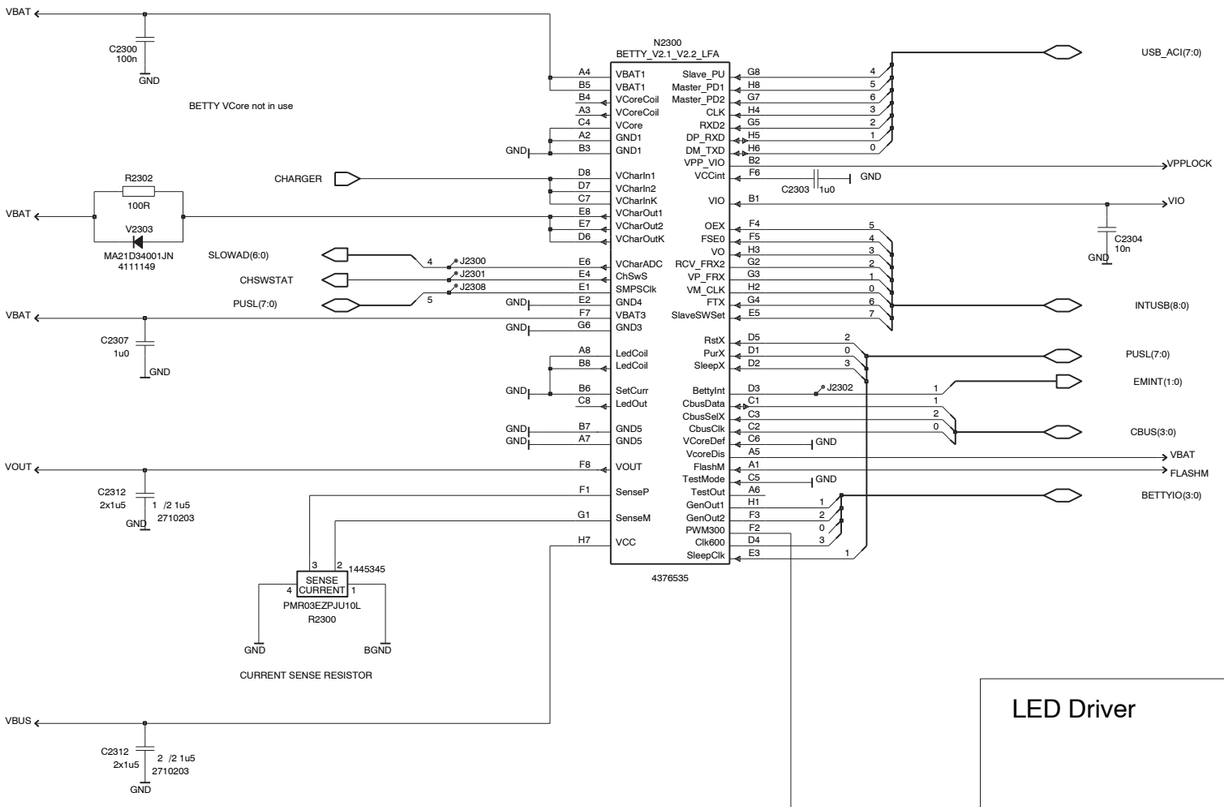
C2231
10U

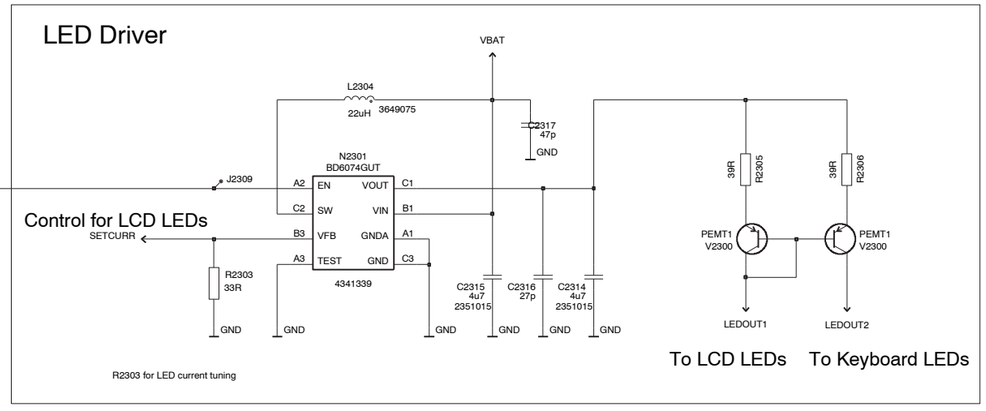
C2231 between pins VBATH and GNDH

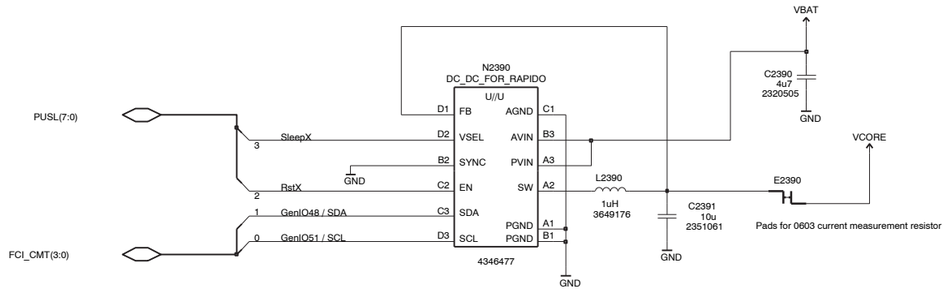
VBACK

G2200
4707575

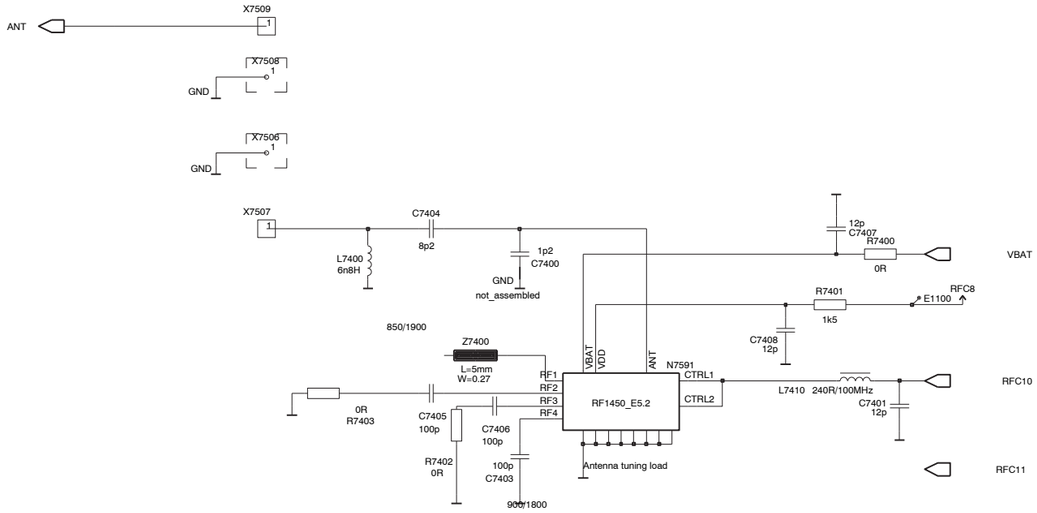
RTC BACUP CAPAC 311 SIZE FOR 2.6V 4UAH

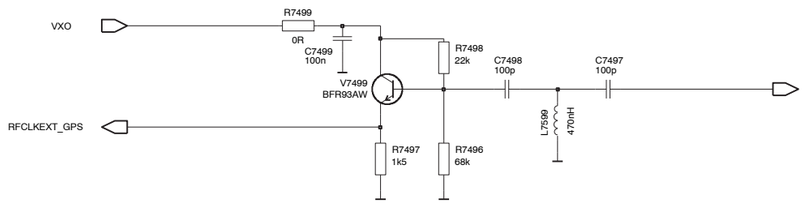

VBAT
C2300
100n
GND
BETTY VCore not in use
N2300
BETTY_V2.1_V2.2_LFA
VBAT1
VBAT1
VCoreCoil
VCoreCoil
VCore
GND1
GND1
VCharIn1
VCharIn2
VCharInK
VCharOut1
VCharOut2
VCharOutK
VCharADC
ChSwS
SMPSClk
GND4
VBAT3
GND3
LedCoil
LedCoil
SetCurr
LedOut
GND5
GND5
VOUT
SenseP
SenseM
VCC
Slave_PU
Master_PD1
Master_PD2
CLK
RXD2
DP_RXD
DM_TXD
VPP_VIO
VCCint
VIO
OEX
FSE0
VO
RCV_FRX2
VP_FRX
VM_CLK
FTX
SlaveSWSet
RstX
PurX
SleepX
BettyInt
CbusData
CbusSelX
CbusClk
VCoreDef
VcoreDis
FlashM
TestMode
TestOut
GenOut1
GenOut2
PWM300
Clk600
SleepClk
4376535
USB_ACI(7:0)
VPPLOCK
VIO
INTUSB(8:0)
PUSL(7:0)
EMINT(1:0)
CBUS(3:0)
VBAT
FLASHM
BETTYIO(3:0)
R2302
100R
V2303
MA21D34001JN
4111149
CHARGER
SLOWAD(6:0)
CHSWSTAT
PUSL(7:0)
J2300
J2301
J2308
J2302
C2303
1u0
C2304
10n
C2307
1u0
C2312
2x1u5
1 /2 1u5
2710203
VOUT
SENSE
CURRENT
PMR03EZPJU10L
R2300
1445345
BGND
CURRENT SENSE RESISTOR
VBUS
2 /2 1u5

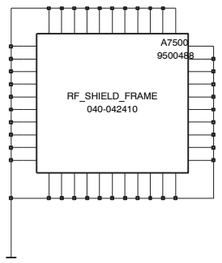

LED Driver
VBAT
L2304
22uH
3649075
C2317
47p
N2301
BD6074GUT
EN
SW
VFB
TEST
VOUT
VIN
GNDA
GND
J2309
Control for LCD LEDs
SETCURR
R2303
33R
4341339
C2315
4u7
2351015
C2316
27p
C2314
4u7
2351015
39R
R2305
39R
R2306
PEMT1
V2300
PEMT1
V2300
LEDOUT1
LEDOUT2
To LCD LEDs
To Keyboard LEDs
R2303 for LED current tuning

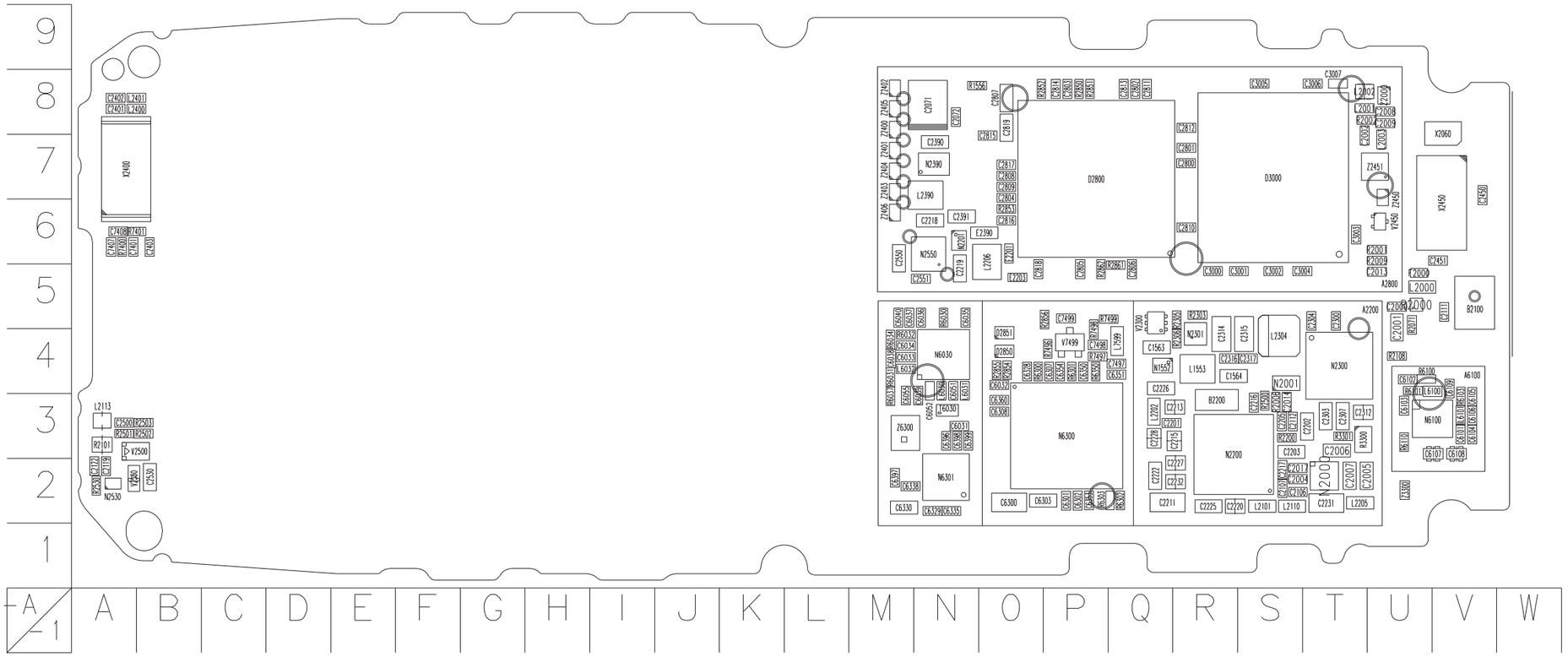

VBAT
N2390
DC_DC_FOR_RAPIDO
U//U
PUSL(7:0)
FCI_CMT(3:0)
D1 FB
D2 VSEL
B2 SYNC
C2 EN
C3 SDA
D3 SCL
AGND C1
AVIN B3
PVIN A3
SW A2
PGND A1
PGND B1
3 SleepX
GND
2 RstX
1 GenIO48 / SDA
0 GenIO51 / SCL
4346477
GND
C2390
4u7
2320505
GND
VCORE
L2390
1uH
3649176
E2390
C2391
10u
2351061
GND
Pads for 0603 current measurement resistor


RFCLK_I(1:0)
RFCLK(1:0)
LPRFCLK_I
BT/WLAN Clk from RF
RFClkExt_GPS
GPSCLK
RFClkExt
RFCONV_I(11:0)
RFCONV(11:0)
RFCTRL_I(8:0)
RFCTRL(8:0)
TXCCONV_I(2:0)
TXCCONV(2:0)
VBAT
VRCP1
VRCP2
VR1
VREF
0
1
2
3
4
RFPWR(5:0)

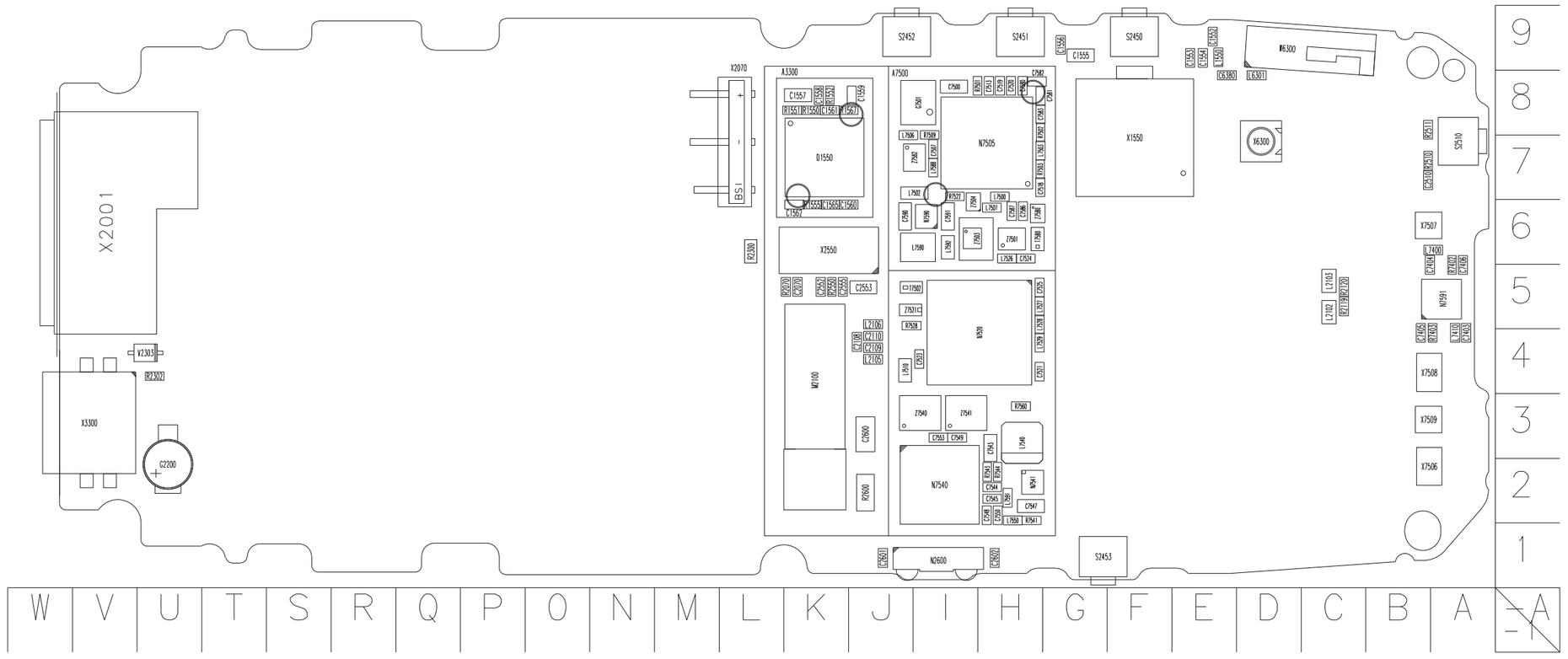

ANT
X7509
1
X7506
1
GND
X7506
1
GND
X7507
1
C7404
8p2
L7400
6n8H
1p2
C7400
GND
not_assembled
12p
C7407
R7400
0R
VBAT
R7401
1k5
E1100
RFC8
C7408
12p
850/1900
Z7400
L=5mm
W=0.27
VBAT
VDD
ANT
N7591
RF1
RF2
RF3
RF4
RF1450_E5.2
CTRL1
CTRL2
L7410
240R/100MHz
RFC10
C7401
12p
0R
R7403
C7405
100p
C7406
100p
R7402
0R
100p
C7403
Antenna tuning load
RFC11
900/1800


VXO
R7499
0R
C7499
100n
R7498
22k
C7498
100p
C7497
100p
V7499
BFR93AW
L7599
470nH
RFCLKEXT_GPS
R7497
1k5
R7496
68k
RFCLKEXT_IN

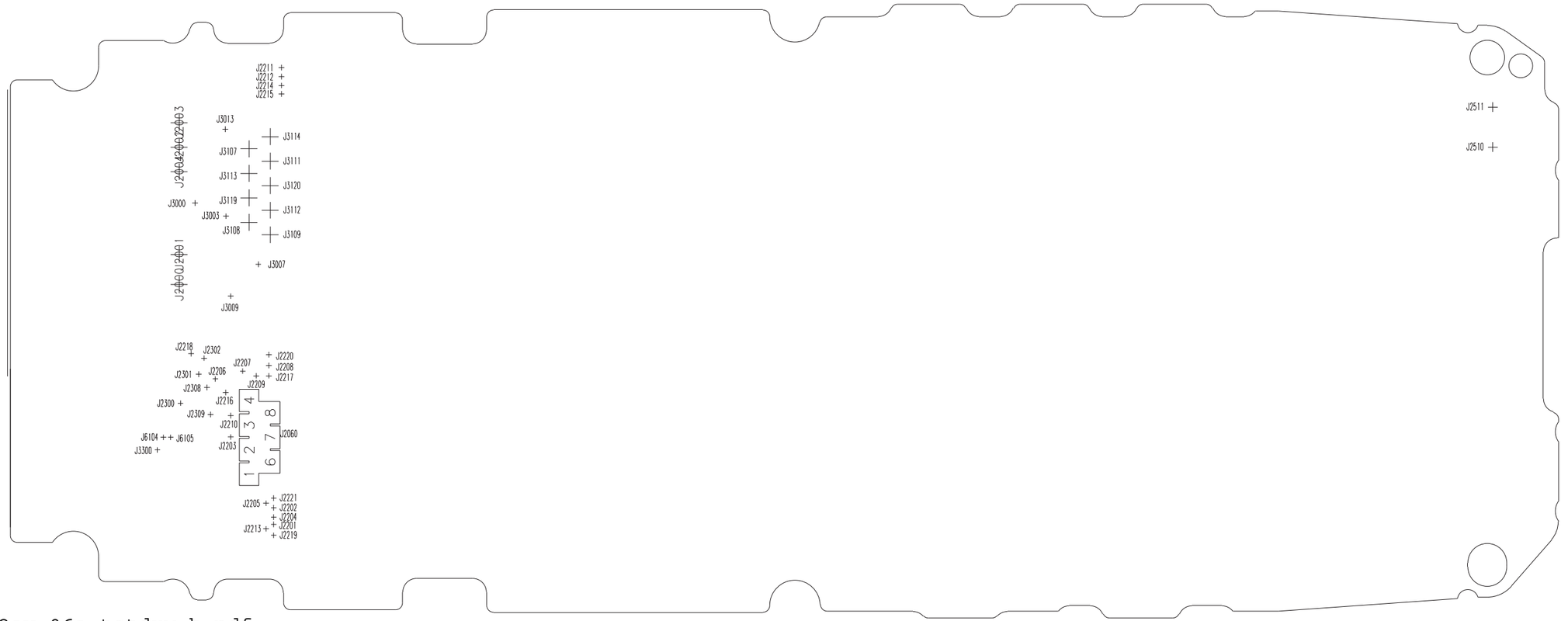

A7500
9500488
RF_SHIELD_FRAME
040-042410



2av_06a_asmdrw_t.pdf



2av_06a_asmdrw_b.pdf



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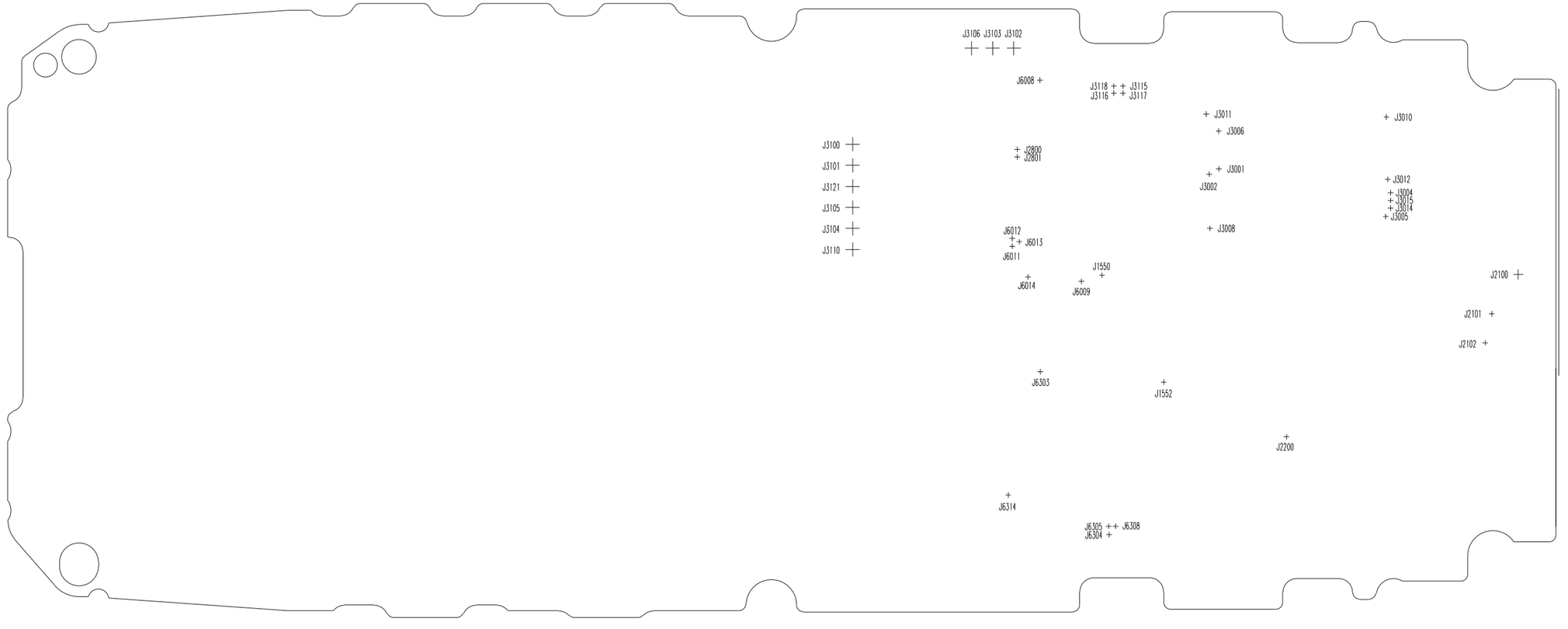

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