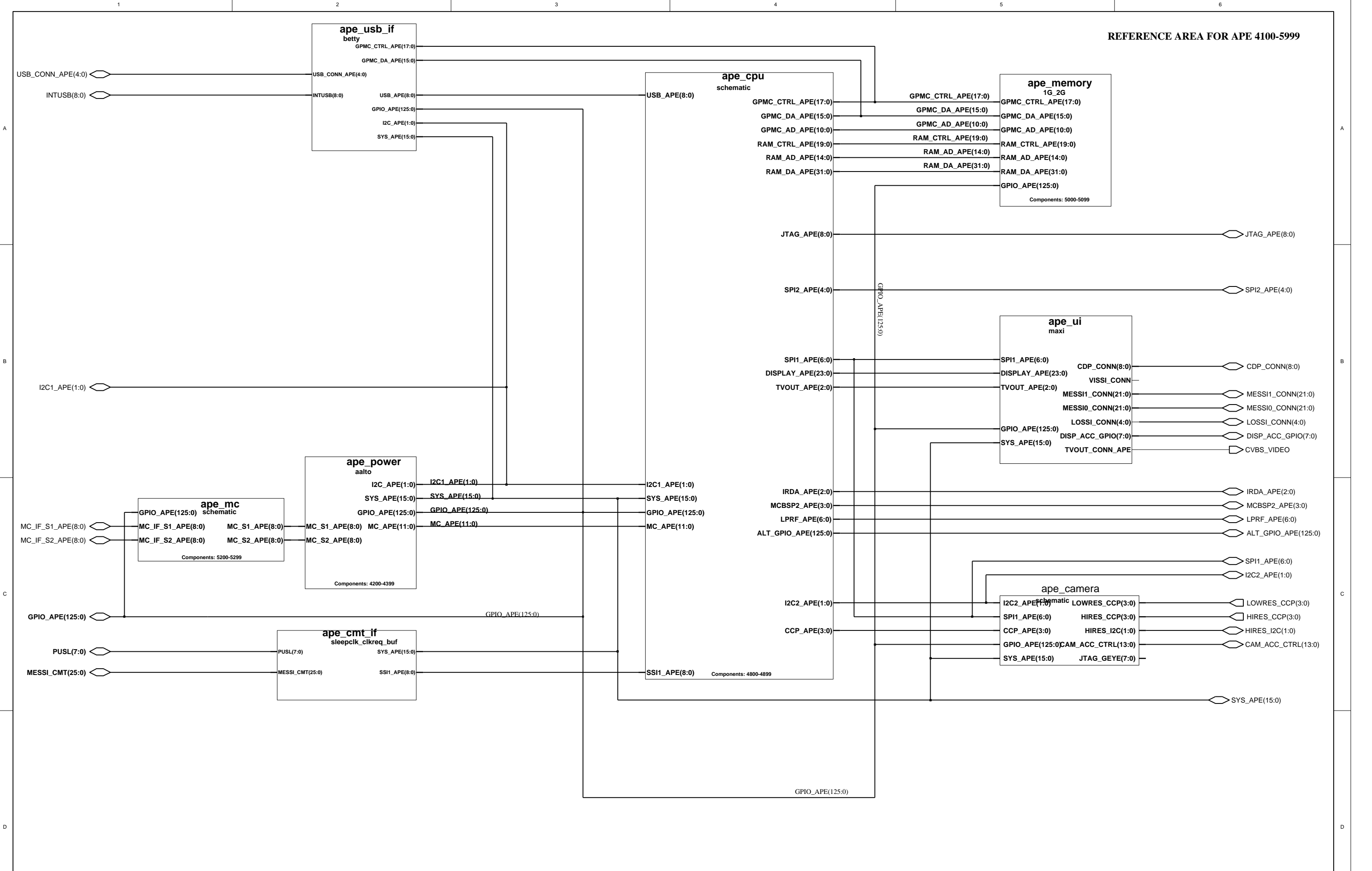
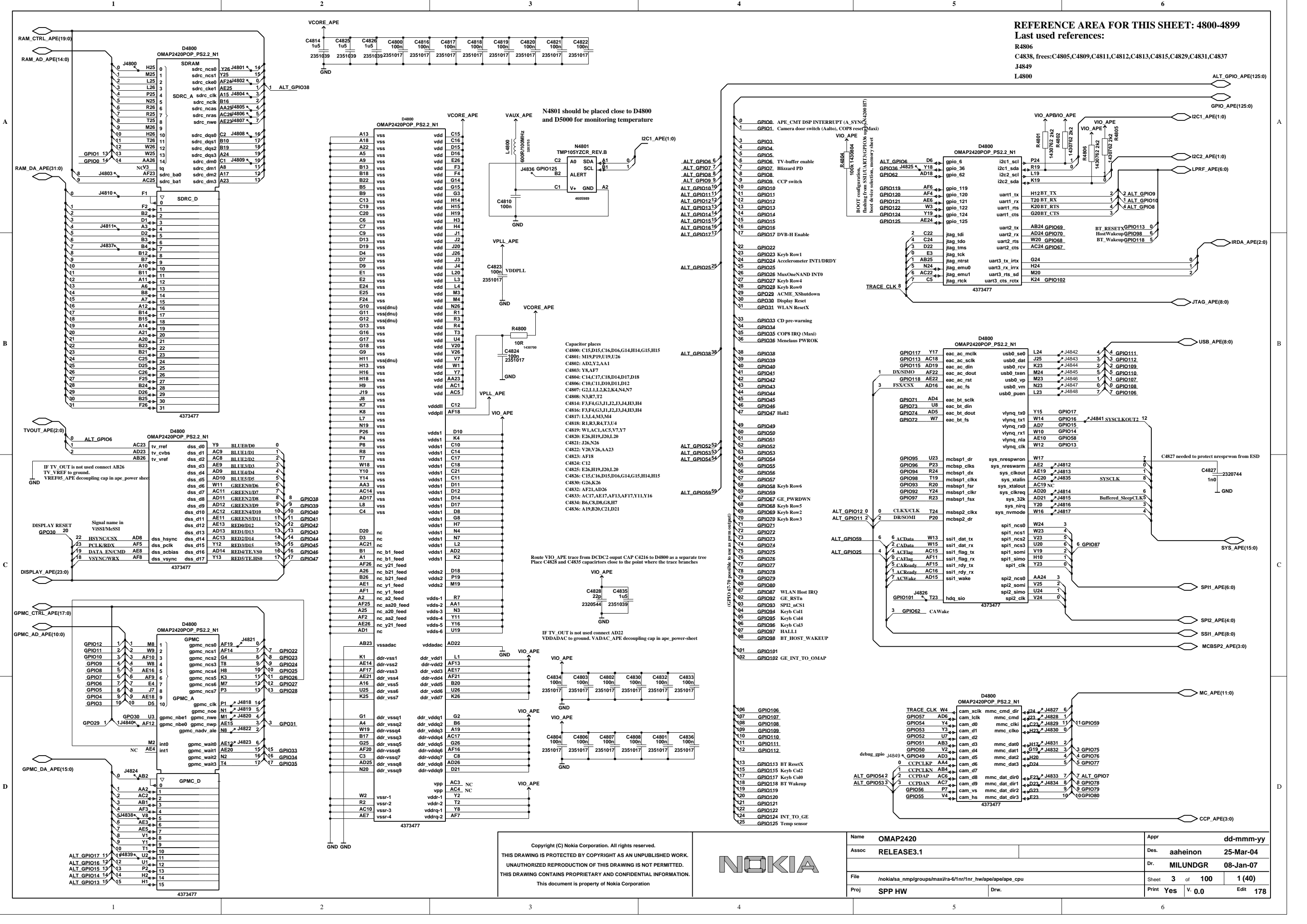


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Name	TOP LEVEL	Appr	dd-mmm-yy
RELEASE3.1		Des.	aaheinon 20-Sep-05
		Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/testr17_hw	Sheet	1 of 100 0 (01)
Proj	SPP HW	Print	Yes V. 0.0 Edit 100





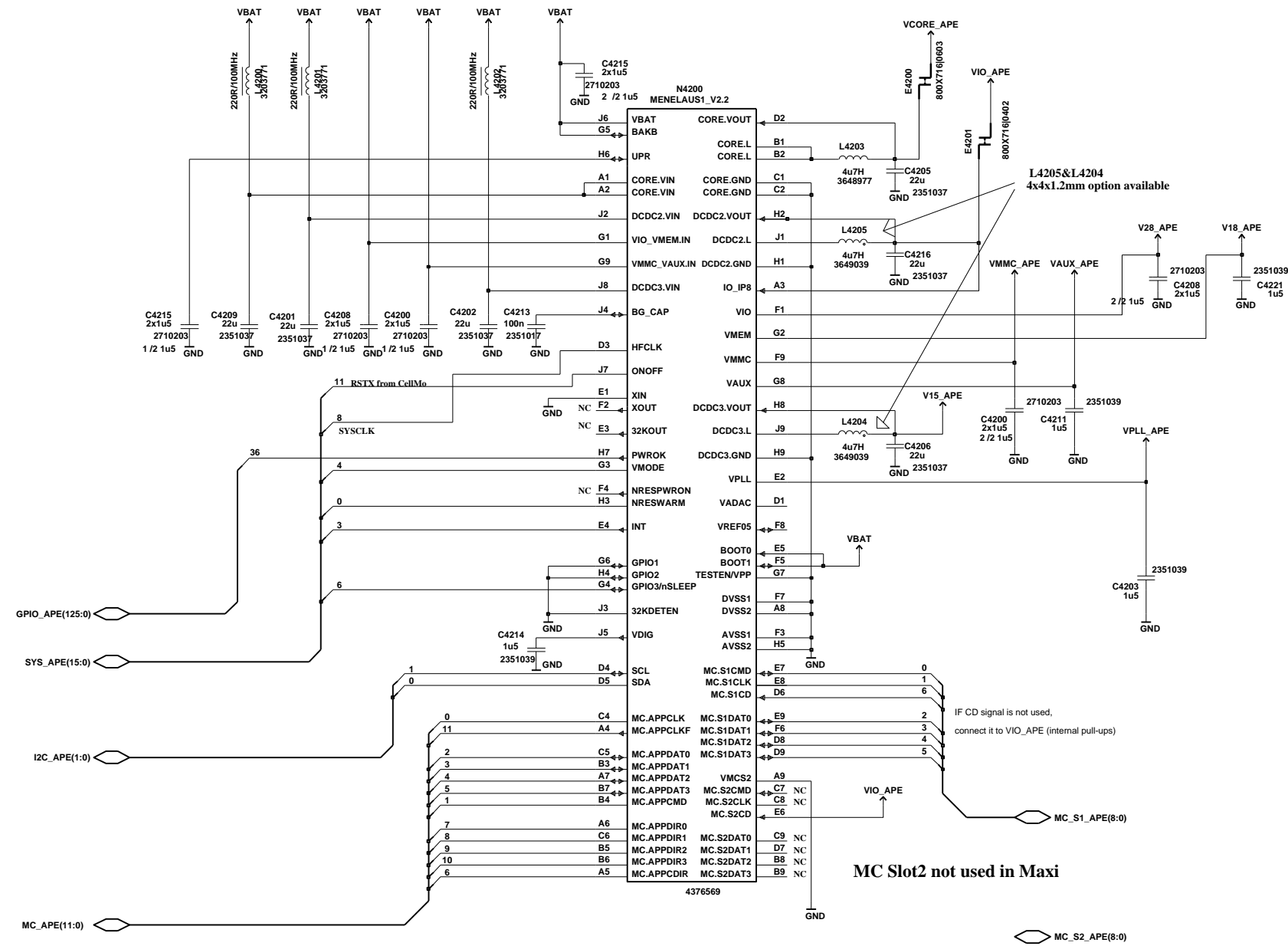
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Name	OMAP2420	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 25-Mar-04
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/ape/ape_cpu	Dr.	MILUNDGR 08-Jan-07
Proj	SPP HW	Sheet	3 of 100 1 (40)
Draw.		Print	Yes v. 0.0 Edit 178

REFERENCE AREA FOR THIS SHEET: 4200-4399

Last used references:
 C4221, frees: C4210, C4218, C4220
 L4205



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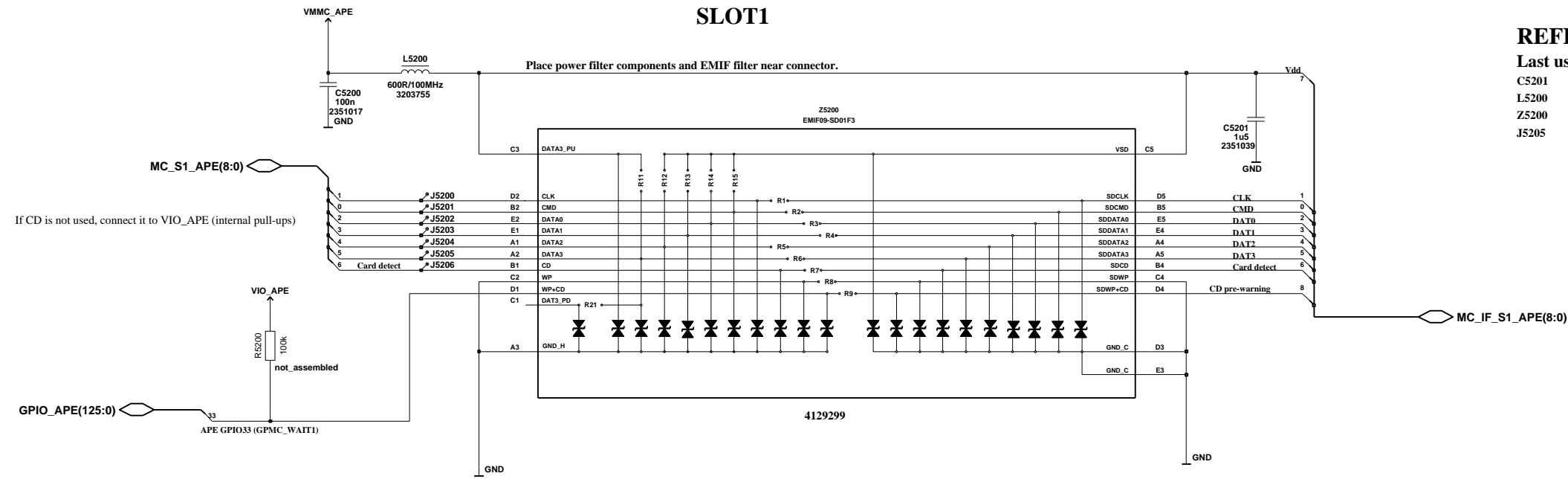
Name	APE POWER, AALTO	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	MASALLIN 05-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/ape/ape_power	Dr.	HUHTAMAA 29-Nov-06
Proj	SPP HW	Sheet	4 of 100 240
		Print	Yes V. 0.0 Edit 32

SLOT1

REFERENCE AREA FOR THIS SHEET: 5200-5249

Last used references:

- C5201
- L5200
- Z5200
- J5205



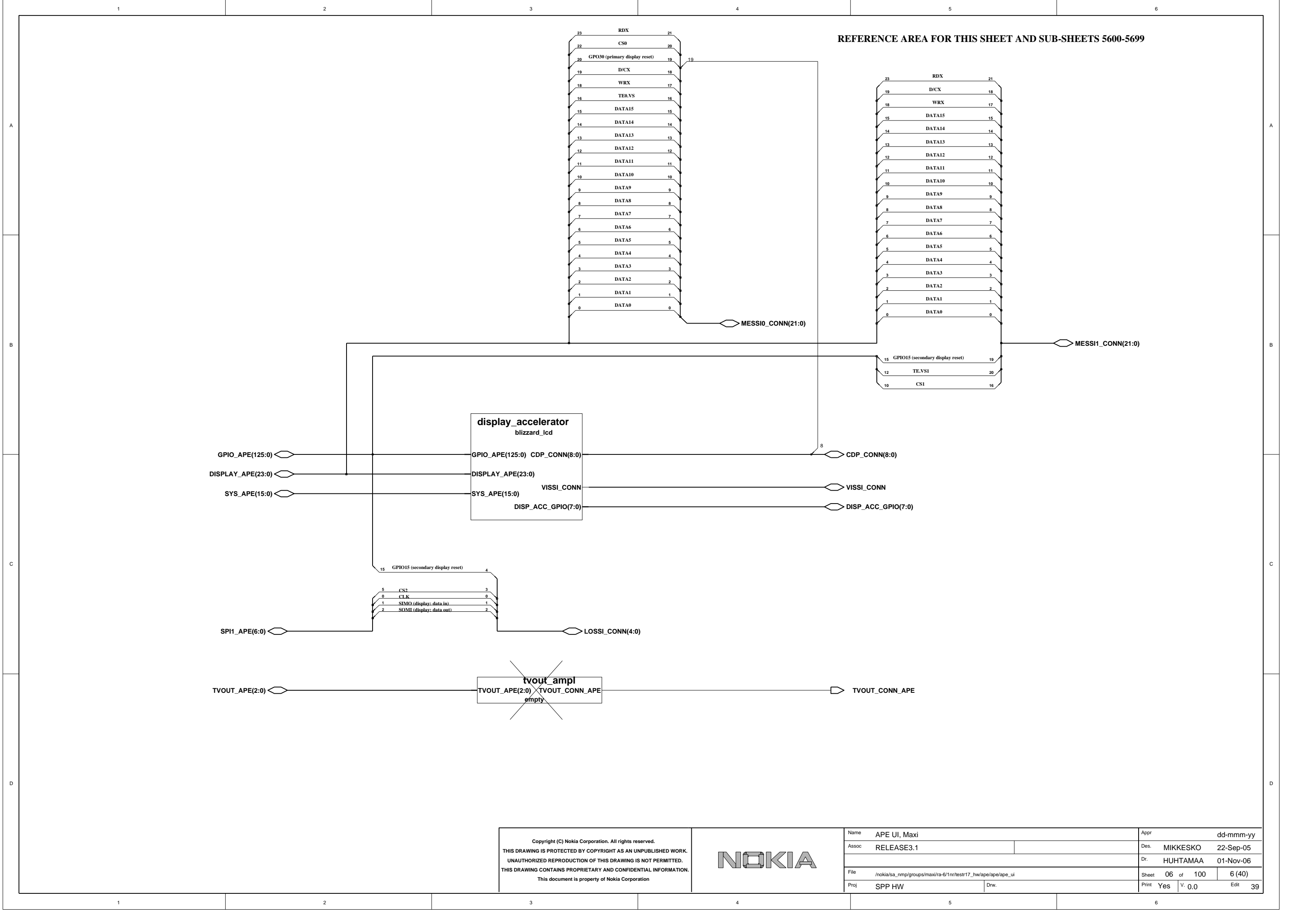
MC_IF_S2_APE(8:0)

MC_S2_APE(8:0)

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Name	APE MEMORY CARD, 1SLOT	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 25-Mar-04
		Dr.	HUHTAMAA 29-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/ape/ape_mc		Sheet 5 of 100 3 (40)
Proj	SPP HW	Draw.	Print Yes V. 0.0 Edit 66



REFERENCE AREA FOR THIS SHEET AND SUB-SHEETS 5600-5699

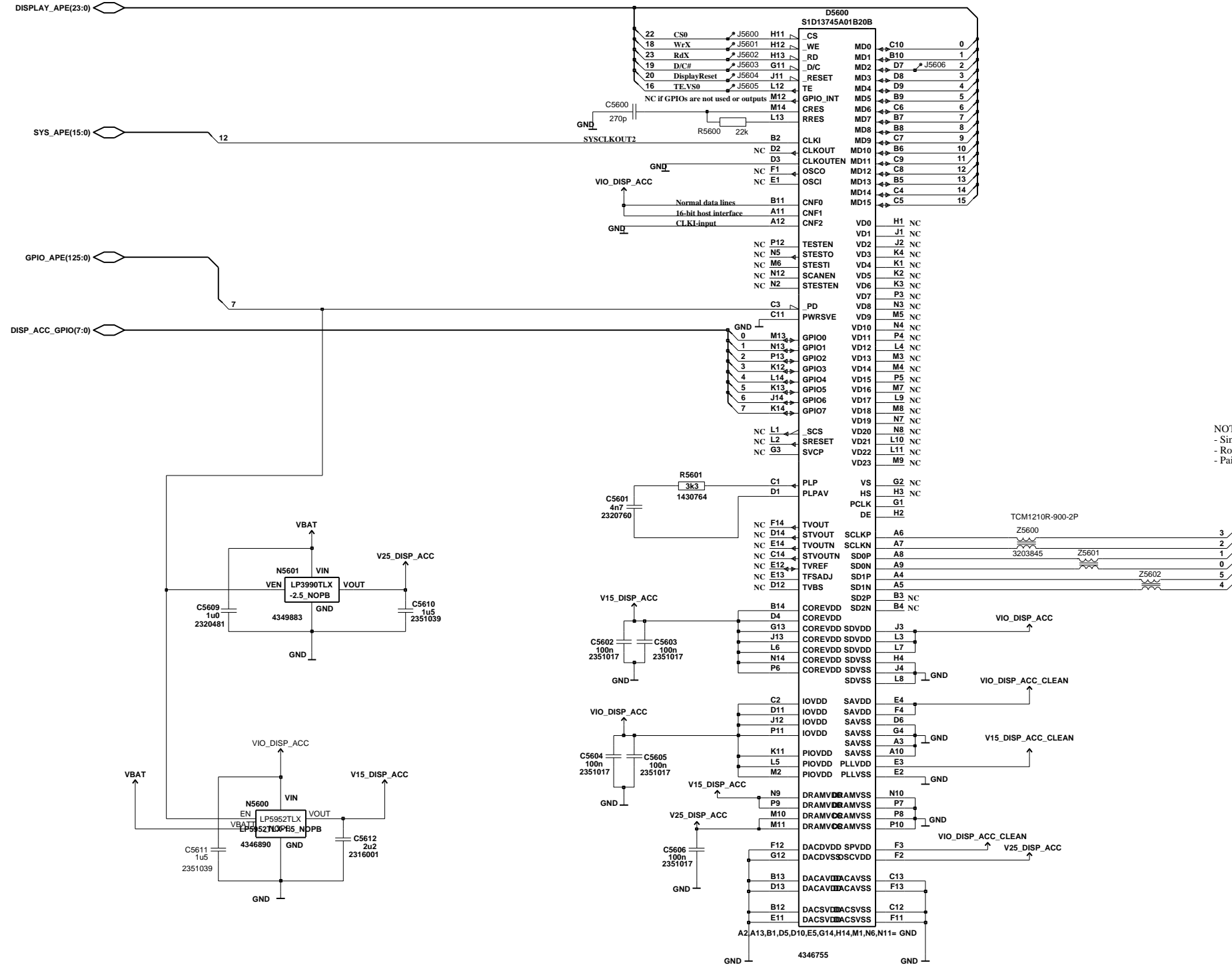
display_accelerator
blizzard_lcd

~~tvout_ampl~~
TVOUT_APE(2:0) TVOUT_CONN_APE
empty

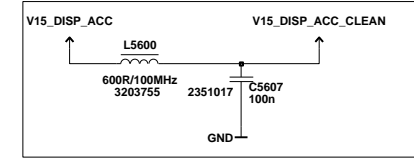
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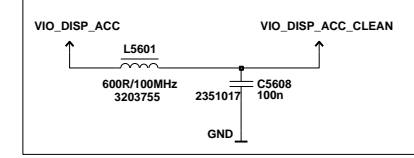
Name	APE UI, Maxi	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	MIKKESKO 22-Sep-05
		Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ape/ape/ape_ui		
Proj	SPP HW	Sheet	06 of 100 6 (40)
		Print	Yes V. 0.0 Edit 39



NOTE: Differential transmission lines
 - Single-ended impedance 50ohms (100ohms differential)
 - Route as pairs, maintain same length, etc.
 - Pairs: SCLK[3:2], SD0[1:0] and SD1[5:4]



Filtering for "Clean" 1.5V



Filtering for "Clean" 1.8V



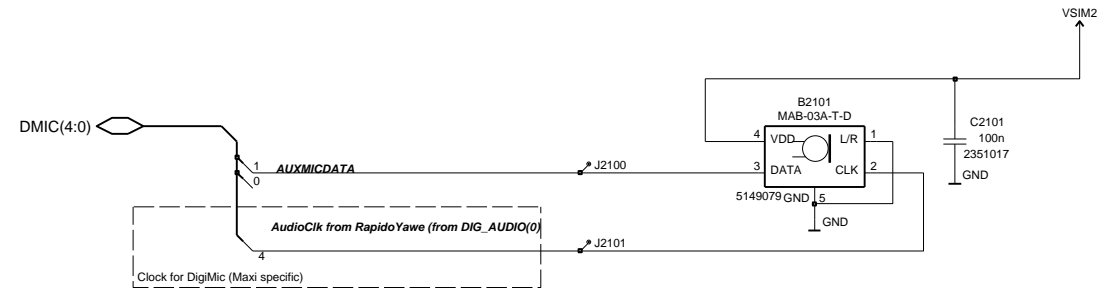
VISSI_CONN

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				Assoc: RELEASE3.1		Des: MIKKESKO 23-Sep-05	
				File: /nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/ape/ape_ui/display_accelerator		Dr: HUHTAMAA 02-Mar-07	
				Proj: SPP HW		Sheet 7 of 100 7 (40)	
				Draw:		Print Yes v. 0.0 Edit 54	

A

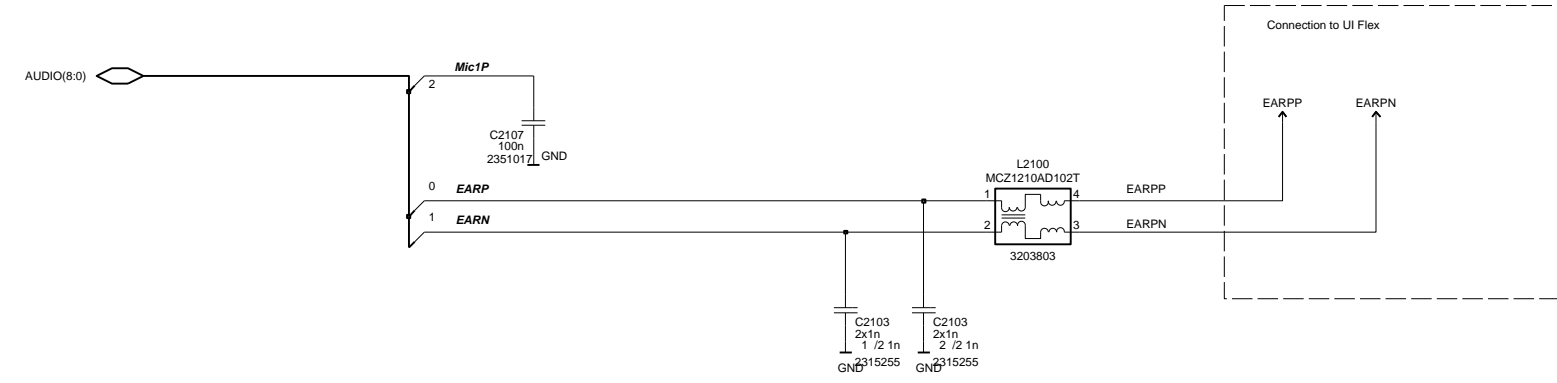
A

I2C(1:0)



B

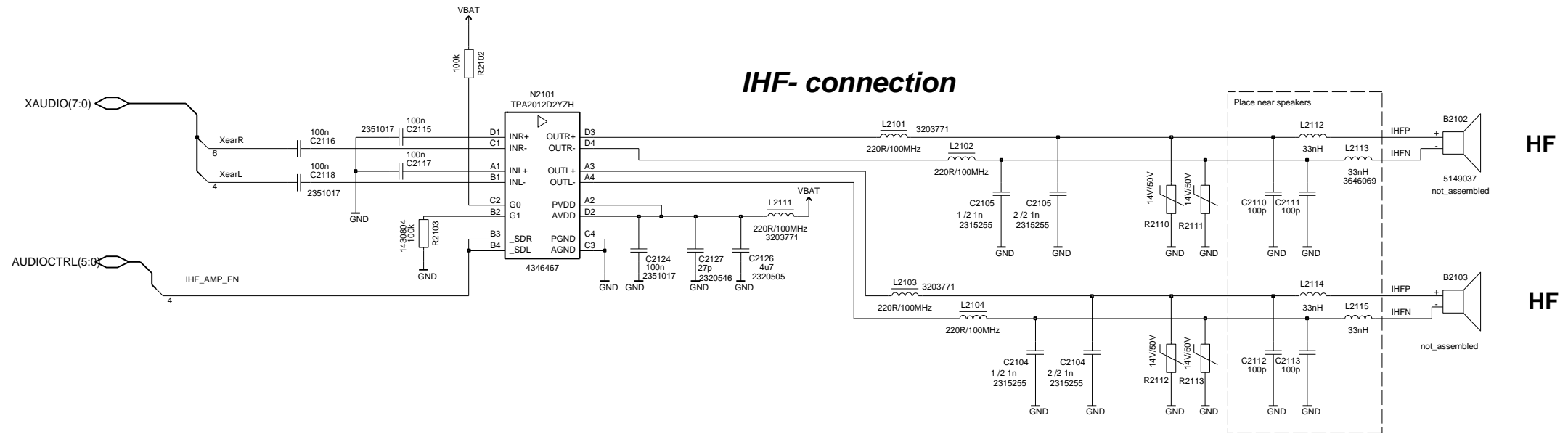
B



C

C

IHF- connection

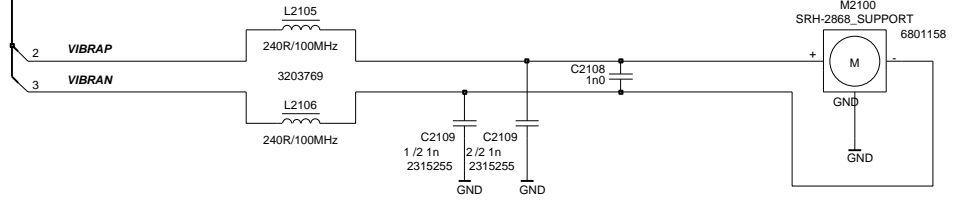


D

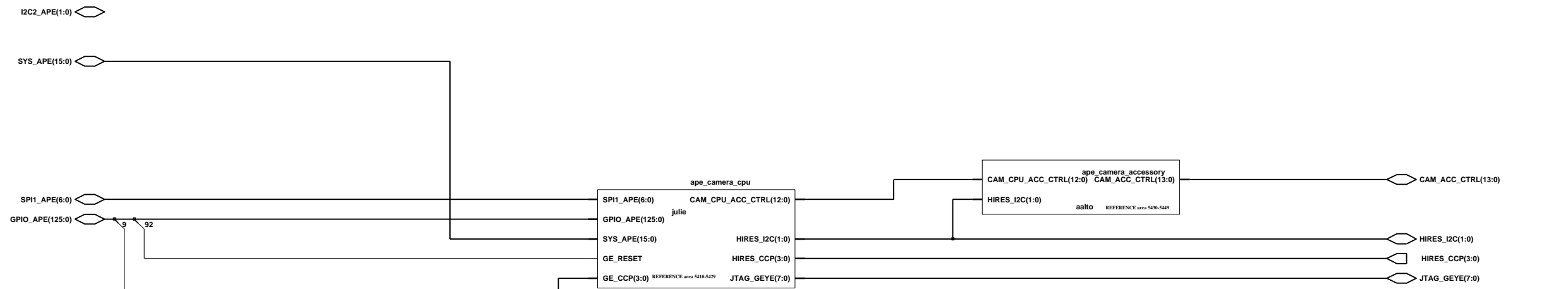
D

H_BRIDGE(3:0)

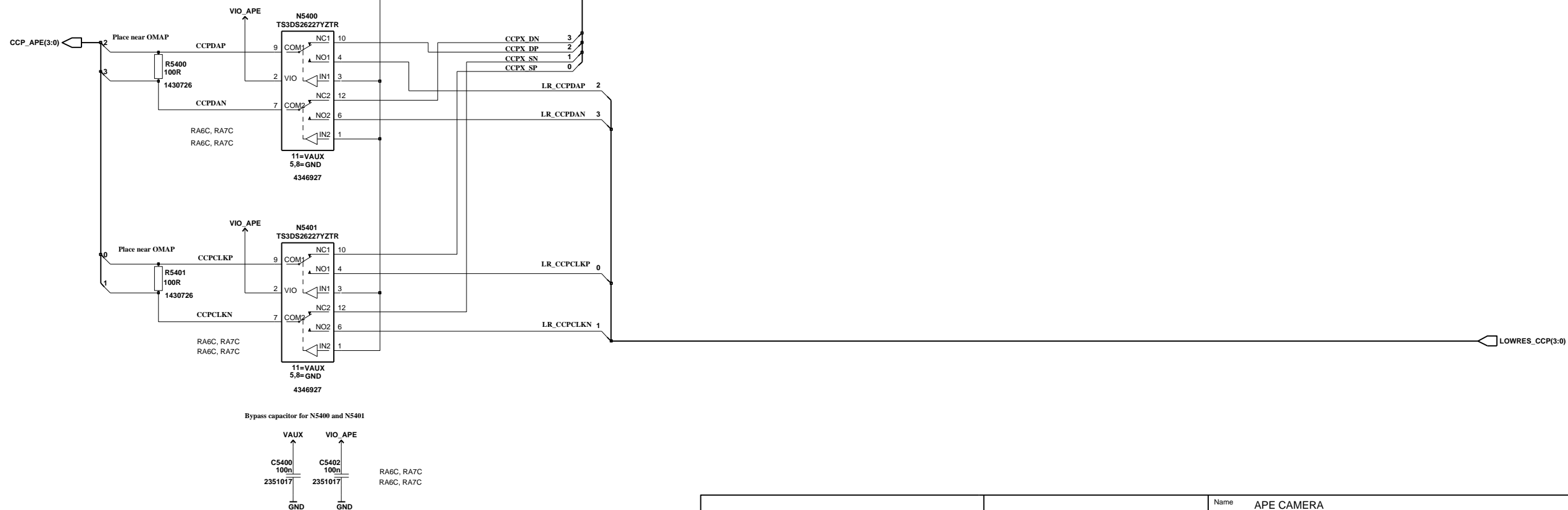
Vibra



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				Assoc	BB5.4x	Des.	JARIM 10-May-04
				File	/nokia/sa_nmp/groups/ra-6/1nr/1nr_knofler_test/bb54x_wk44/cellular/cmt_if/audio	Dr.	MILUNDGR 16-Aug-07
				Proj	BB5.4x	Print	Yes v. 1 Edit 5



NOTE:
LOWRES_CCP and CCP_APE both consists of two 100 ohm differential pairs.
Route those lines between two GND layers. Take care also that trace lengths are equal in each pair.



NOTE: This sheet includes multi_assy properties (RA6C, RA7C).
Please check multi_assy properties, when new component is added or updated !!

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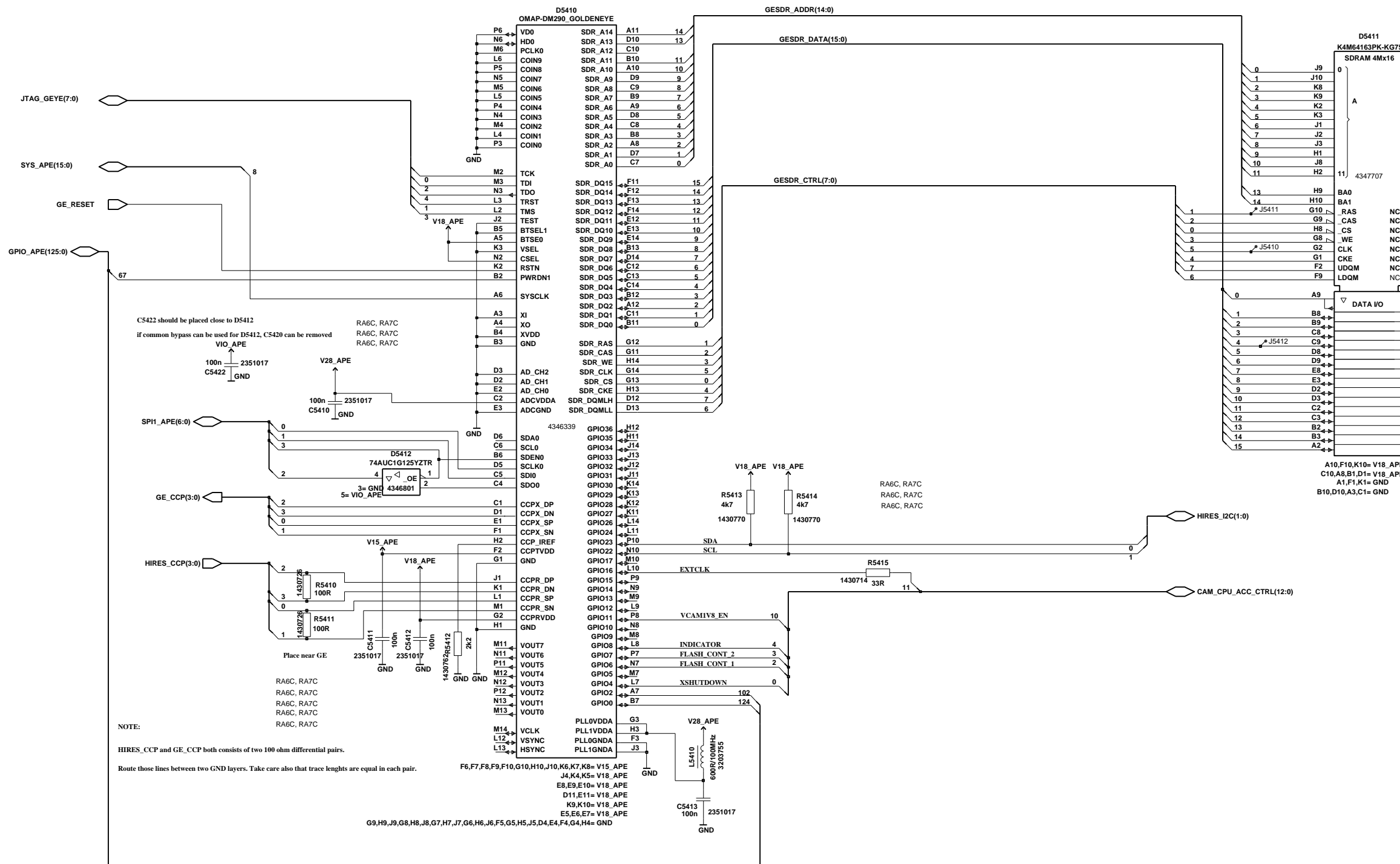


Name	APE CAMERA	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	MIKKESKO 03-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ape/ape_camera	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	09 of 100 0 40
Print	Yes	V.	0,0 Edit 58

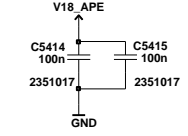
REFERENCE AREA FOR THIS SHEET 5410-5449

Last used references:

- R5415
- C5422
- L5410
- J5412

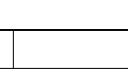
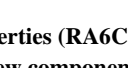
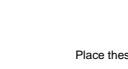
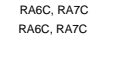
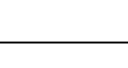
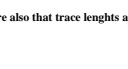
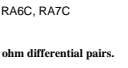
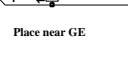
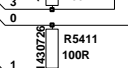
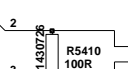
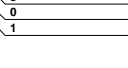
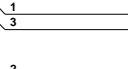
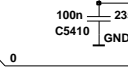


Place decoupling capacitors close to SDRAM power pins



A10,F10,K10= V18_APE
C10,A8,B1,D1= V18_APE
A1,F1,K1= GND
B10,D10,A3,C1= GND

C5422 should be placed close to D5412
if common bypass can be used for D5412, C5420 can be removed



NOTE: HIRES_CCP and GE_CCP both consists of two 100 ohm differential pairs.

Route those lines between two GND layers. Take care also that trace lengths are equal in each pair.

F6,F7,F8,F9,F10,G10,H10,J10,K6,K7,K8= V15_APE
J4,K4,K5= V18_APE
E8,E9,E10= V18_APE
D11,E11= V18_APE
K9,K10= V18_APE
E5,E6,E7= V18_APE
G9,H9,J9,G8,H8,J8,G7,H7,J7,G6,H6,J6,F5,G5,H5,J5,D4,E4,F4,G4,H4= GND

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

RA6C, RA7C
RA6C, RA7C
RA6C, RA7C

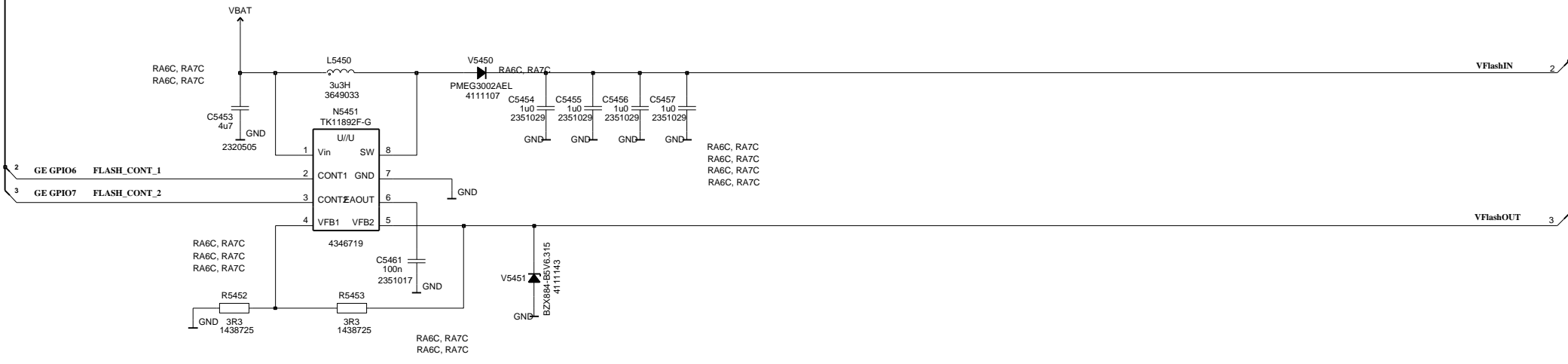
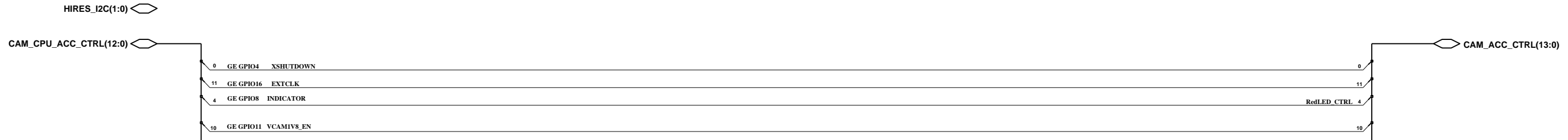
Place these capacitors close to GE power pins

NOTE: This sheet includes multi_assy properties (RA6C, RA7C).
Please check multi_assy properties, when new component is added or updated !!

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Name	APE CAMERA CPU, Golden Eye		Appr	dd-mmm-yy
Assoc	RELEASE3.1		Des.	MIKKESKO 03-Sep-05
			Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/testr17_hw/ape/ape/ape_camera/ape_camera_cpu	10 of 40		01
Proj	SPP HW	Draw.	Print Yes	V. 0.0 Edit 60



2 GE GPIO6 FLASH_CONT_1
3 GE GPIO7 FLASH_CONT_2

VFlashIN 2
VFlashOUT 3

**NOTE: This sheet includes multi_assy properties (RA6C, RA7C).
Please check multi_assy properties, when new component is added or updated !!**

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Name	APE CAMERA ACCESSORY		Appr	dd-mmm-yy	
Assoc	RELEASE3.1		Des.	MIKKESKO	03-Sep-05
			Dr.	HUHTAMAA	01-Nov-06
File	nokia/ta_rmp/groups/max/ta-611/tastr17_fw/ta/ta/ta_camera/aape_camera_accessory		Sheet	11 of 100	01
Proj	SPP HW	Drw.	Print	Yes	V. 0.0 Edit 35

REFERENCE AREA FOR THIS SHEET: 5000-5099

Last used references:
D5000
R5004, frees: R5000

GPMC_AD_APE(10:0)

RAM_AD_APE(14:0)

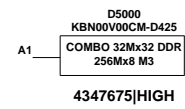
RAM_CTRL_APE(19:0)

GPMC_CTRL_APE(17:0)

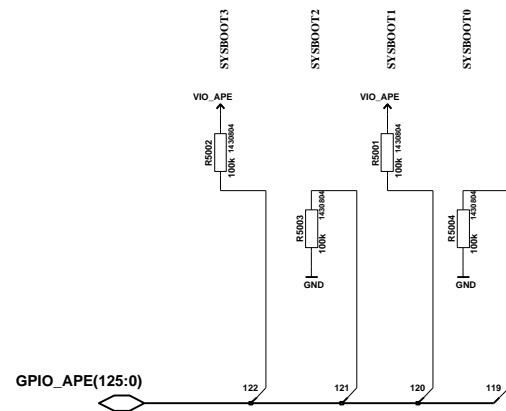
GPMC_DA_APE(15:0)

RAM_DA_APE(31:0)

**POP3 Memory Stacked on top of D4800 OMAP2420POP
NONET Geometry for partlists**









**BOOT configuration,
1010=boot from 16-bit MuxedOneNAND**

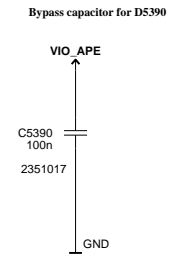
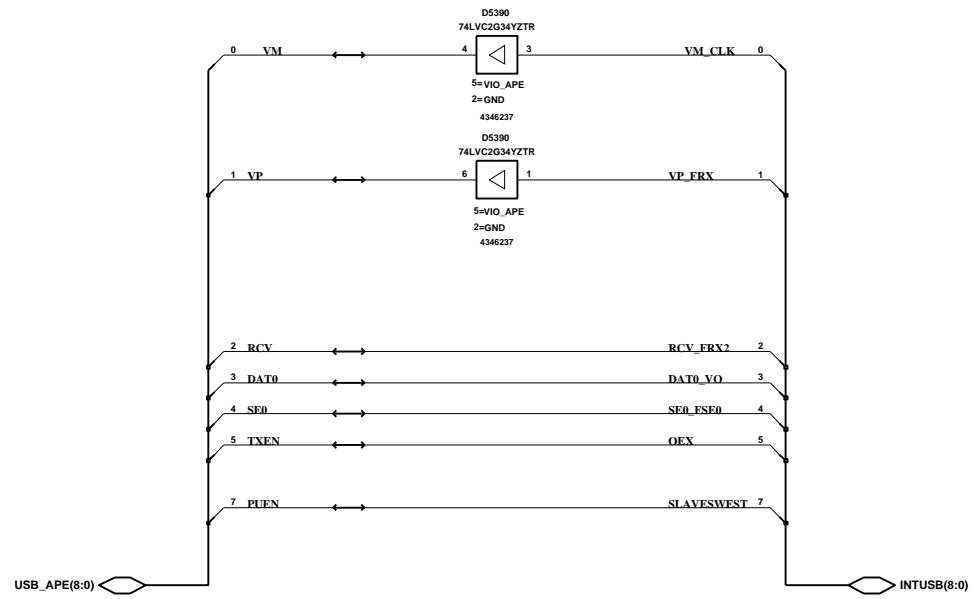


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Name	APE MEMORY, 1G DDR 2G M1N	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 25-Mar-04
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/teststr17_hw/ape/ape_memory	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Print	Yes
		V.	0.0
		Drw.	Edit 74
		Sheet	12 of 100
			4 (40)

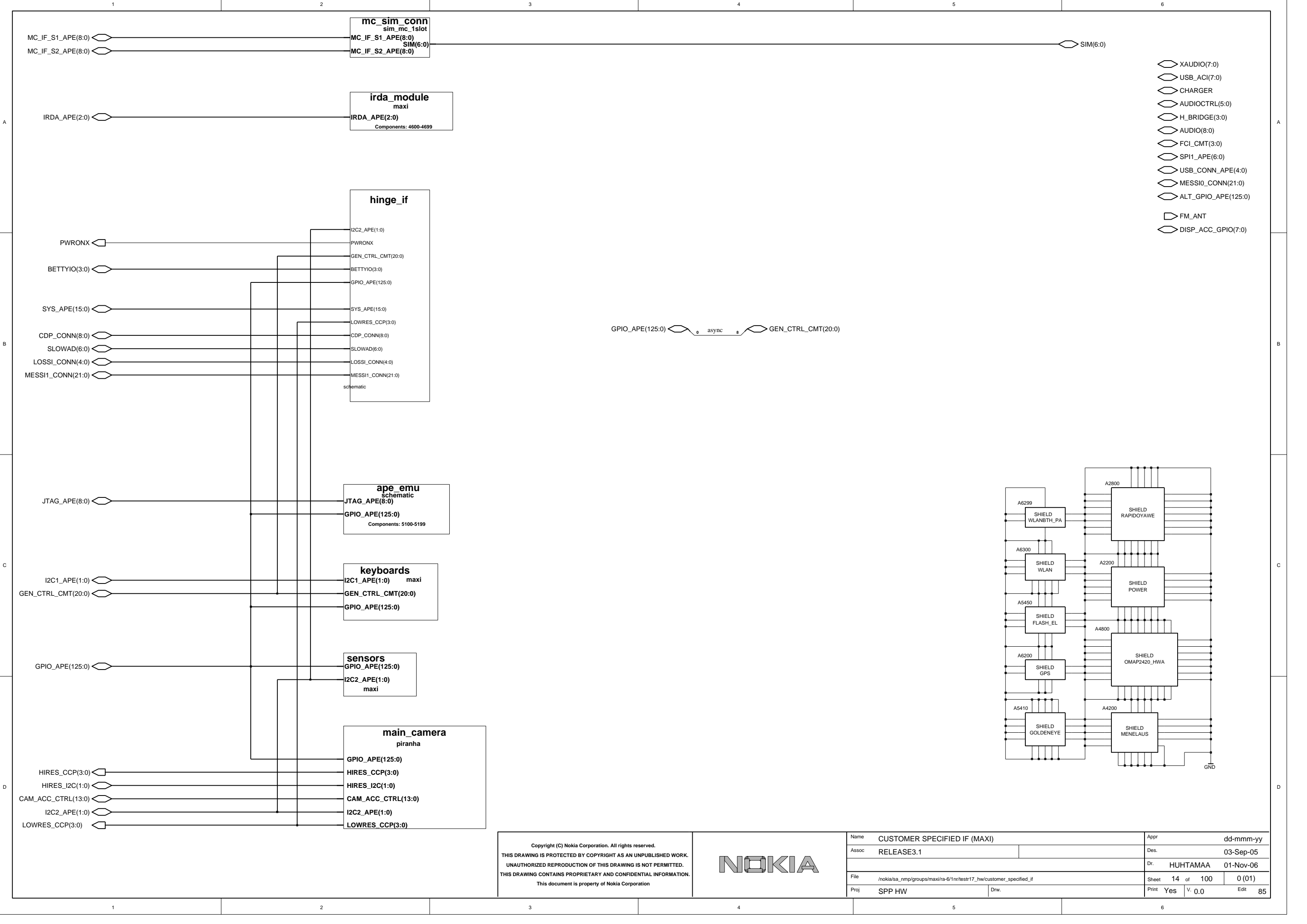
- A SYS_APE(15:0) 
- GPMC_CTRL_APE(17:0) 
- GPIO_APE(125:0) 
- GPMC_DA_APE(15:0) 
- I2C_APE(1:0) 
- USB_CONN_APE(4:0) 



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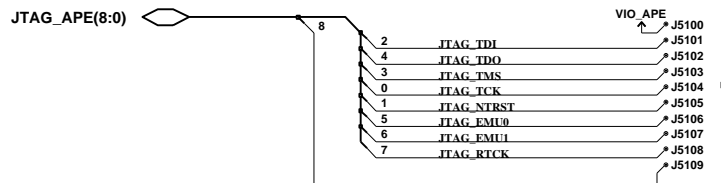
Name	APE USB , BETTY	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 21-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ape/ape_usb_if	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	13 of 100 0 (01)
		Print	Yes V. 0.0 Edit 21



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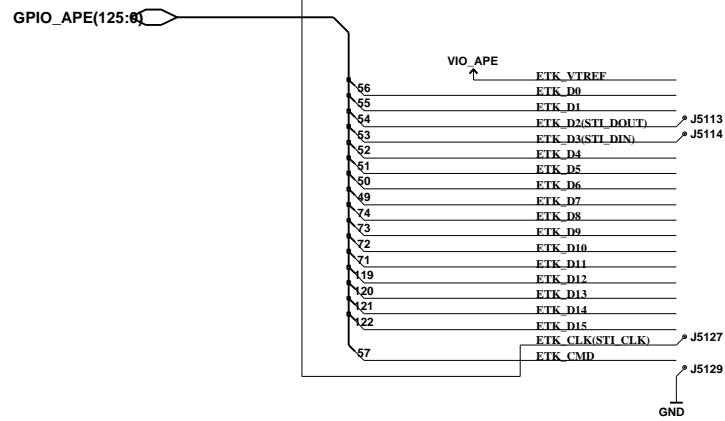


Name	CUSTOMER SPECIFIED IF (MAXI)	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	03-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/customer_specified_if	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	14 of 100
Draw.		Print	Yes
		V.	0.0
		Edit	85



The signals with testpoints need to be accessible in every prototype!!!

REFERENCE AREA FOR THIS SHEET: 5100-5199
Last used references:
J5129

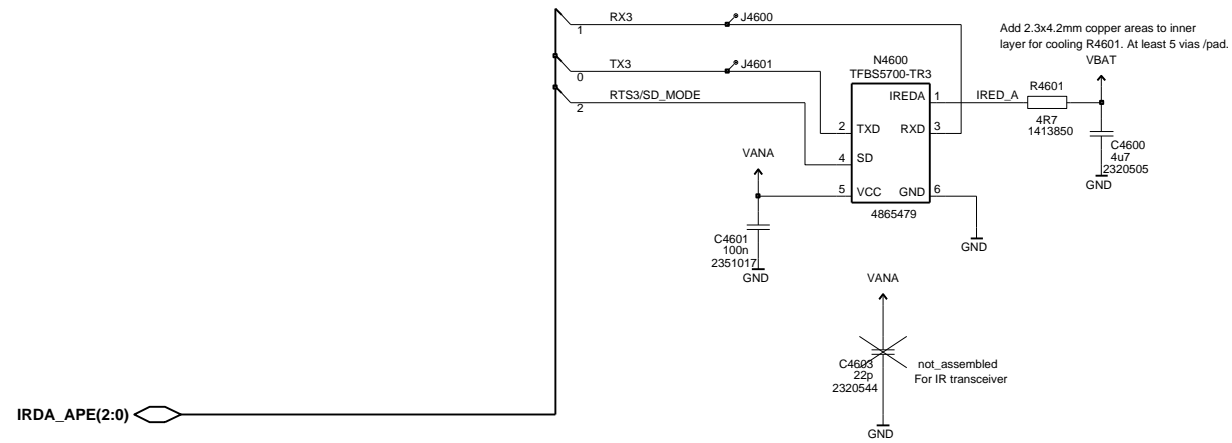


For STI connector (in wing) 546Y073|1 RAS012_0005_X could be used

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Name	APE EMU	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 25-Mar-04
		Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/customer_specified_ii/ape_wing		Sheet 15 of 100 5 (40)
Proj	SPP HW	Drw.	Print Yes V. 0.0 Edit 42



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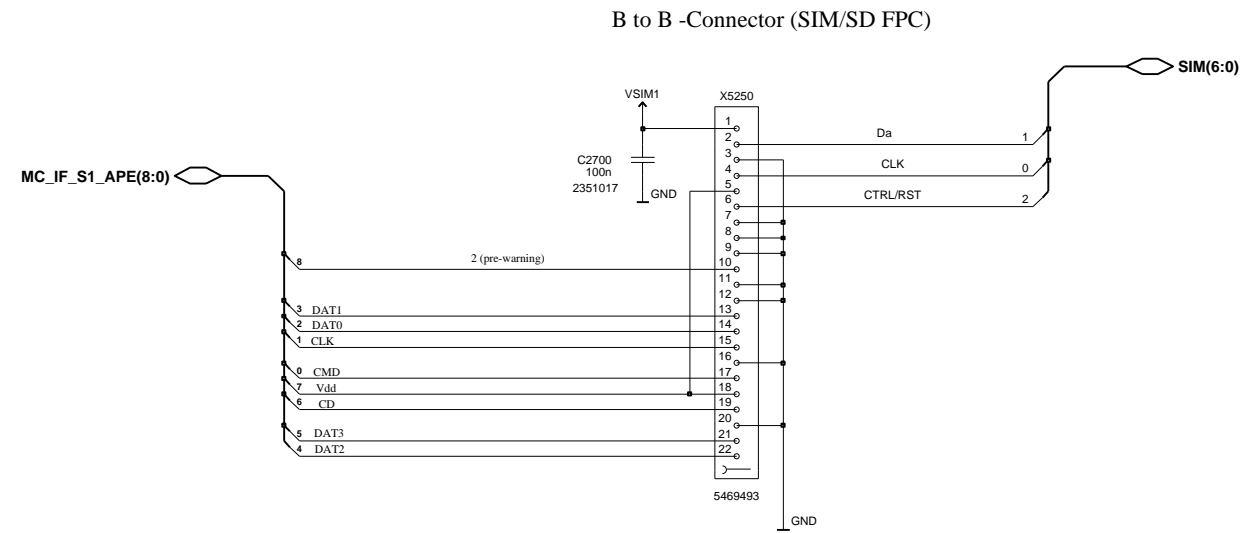


Name	IRDA_MODULE, Maxi	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	MIKKESKO 05-Sep-05
		Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/customer_specified_ii/irda_module		Sheet 16 of 100 0 (01)
Proj	SPP HW	Draw.	Print Yes V. 0.0 Edit 20

REFERENCE AREA FOR THIS SHEET: 5250-5299
AND 2700-2799

Last used references
X5250

SLOT1



IF CD is not used, connect it to VIO_APE in APE_POWER

MC_IF_S2_APE(8:0)

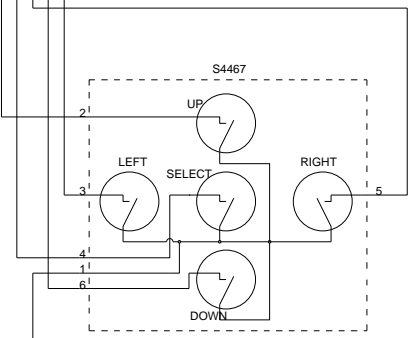
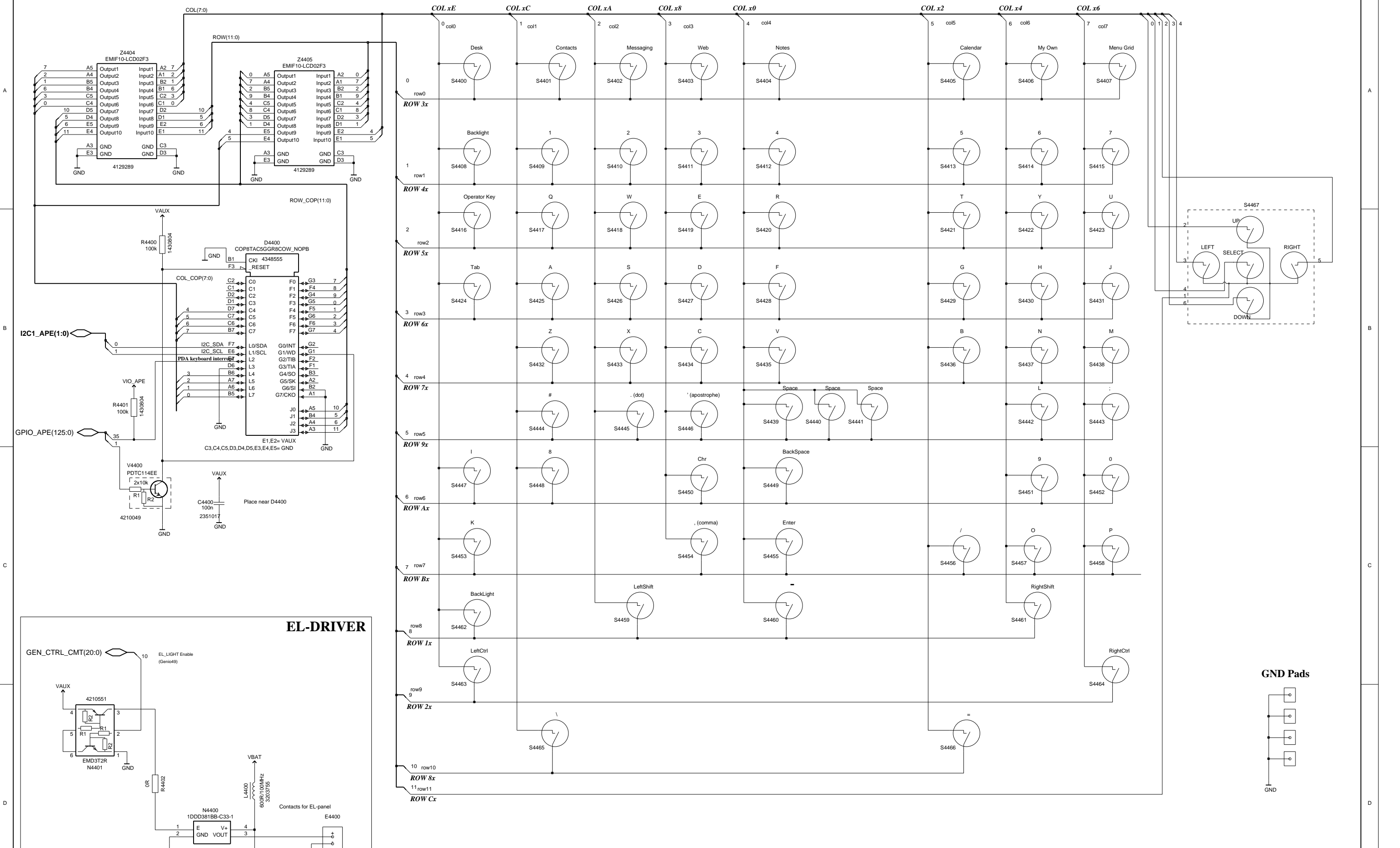
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NOKIA

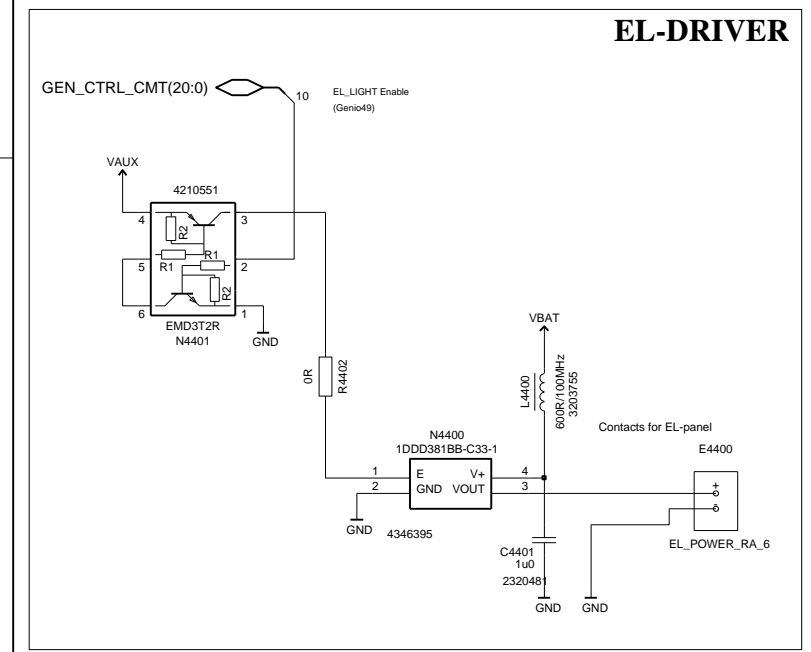
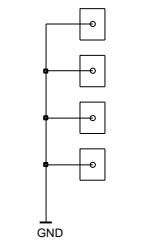
Name	Memorycard and SIM connectors, SIM and 1Slot Memorycard	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 30-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/customer_specified_1/mc_sim_conn	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	18 of 100 0 (01)
Draw.		Print	Yes V. 0.0 Edit 20

QWERTY-KEYBOARD MATRIX

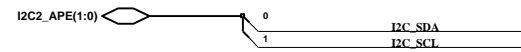
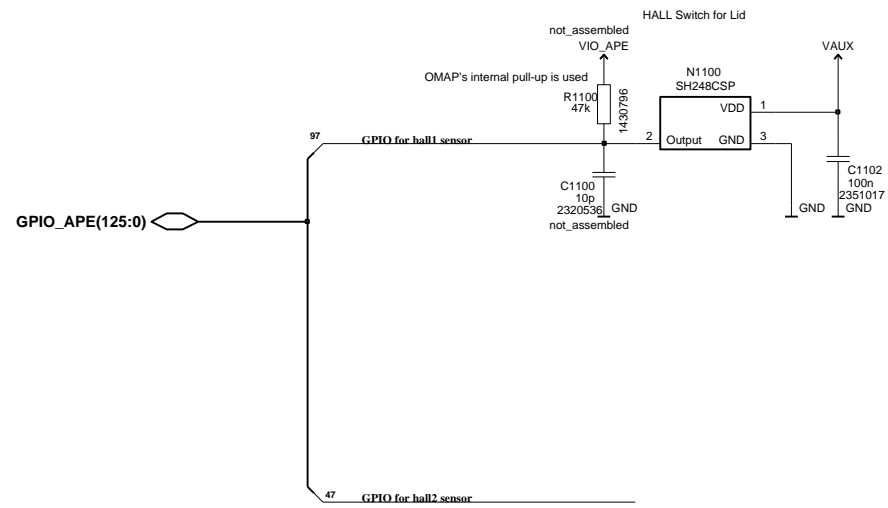
REFERENCE AREA FOR THIS SHEET 4400-4499



GND Pads



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--	--	--	---	---



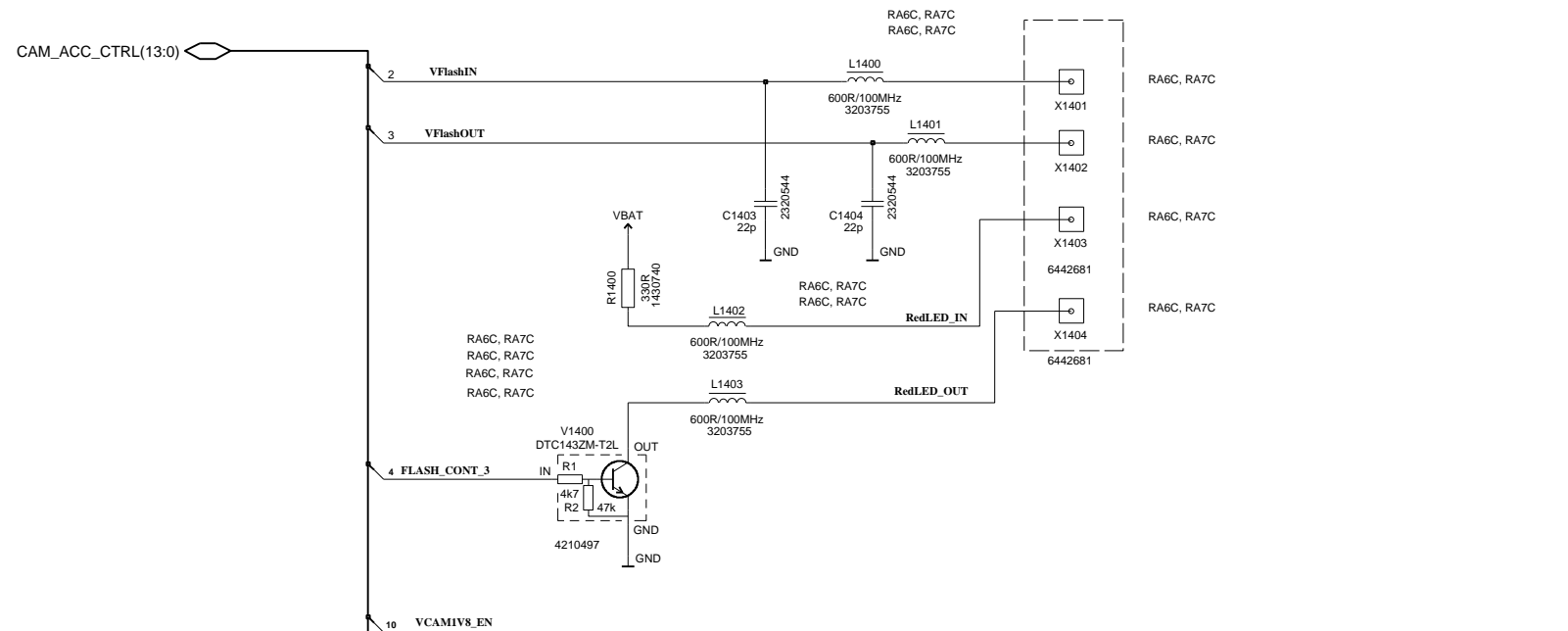
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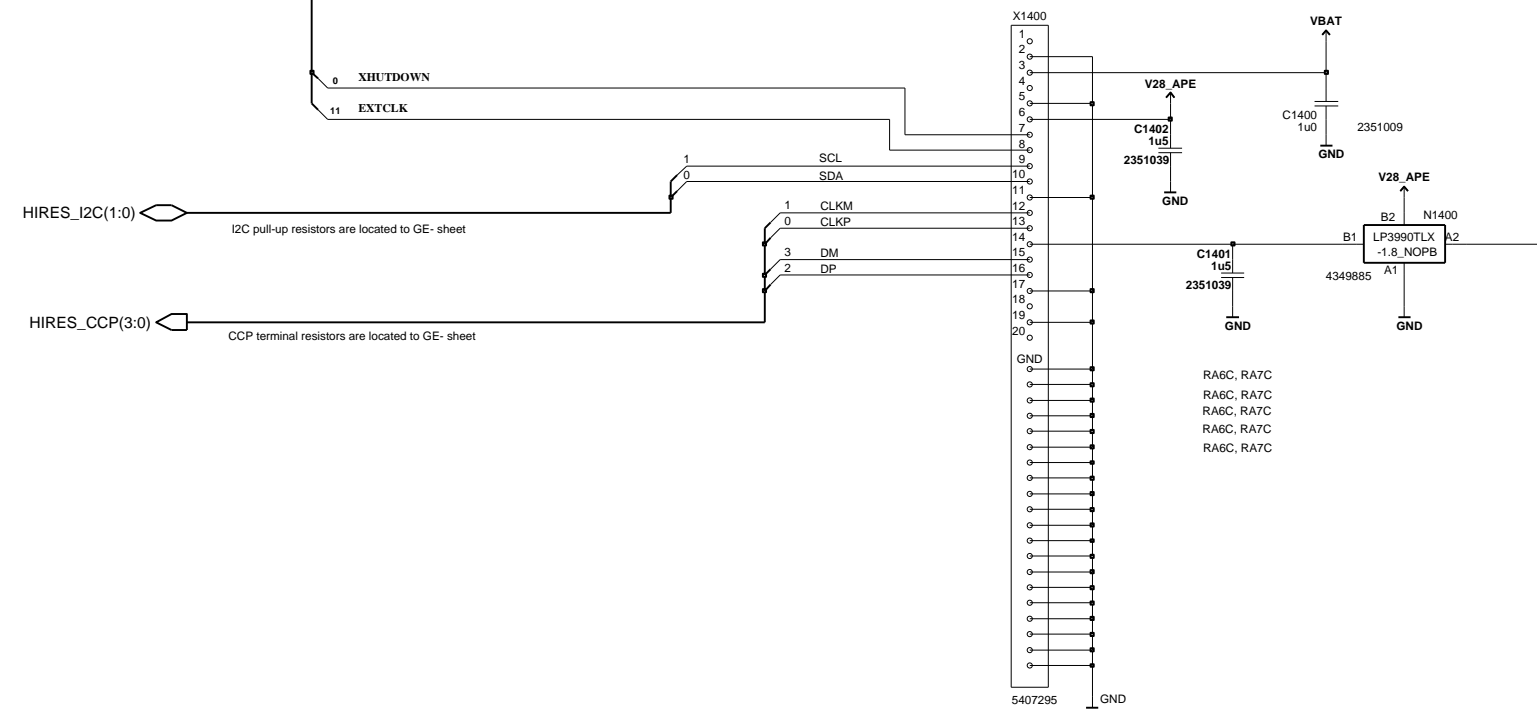
Name	SENSORS(MAXI)	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	MIKKESKO 27-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/customer_specified_ii/sensors	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	20 of 100 0 (01)
		Print	Yes V. 0.0 Edit 21

Contacts for CAMERA FLASH

Flash module is implemented to mechanics



CAMERA SOCKET



GPIO_APE(125:0)

I2C2_APE(1:0)

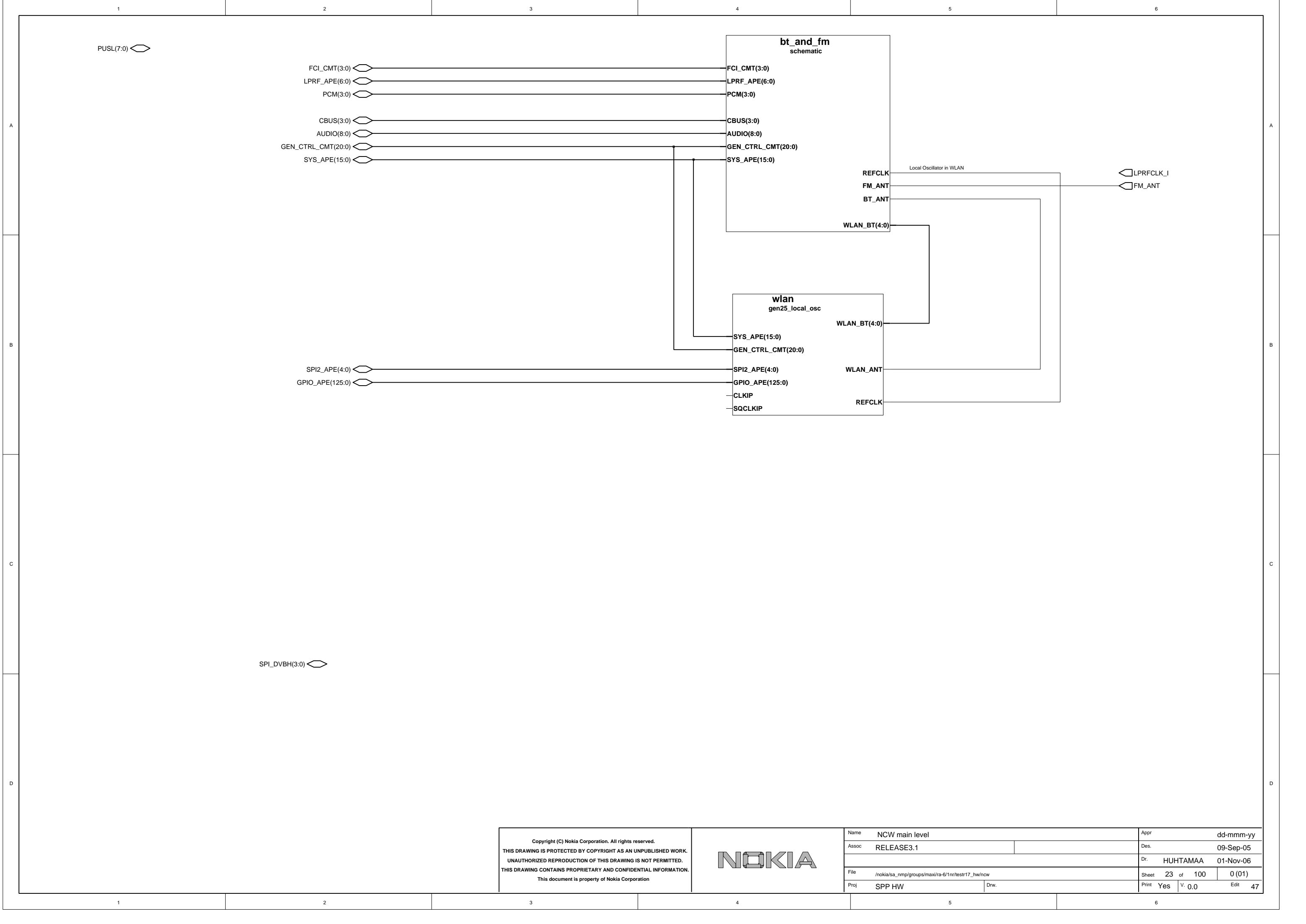
LOWRES_CCP(3:0)

HIRES_I2C(1:0) I2C pull-up resistors are located to GE- sheet

HIRES_CCP(3:0) CCP terminal resistors are located to GE- sheet

NOTE: This sheet includes multi_assy properties (RA6C, RA7C). Please check multi_assy properties, when new component is added or updated !!

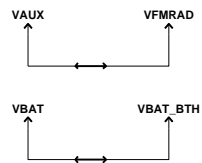
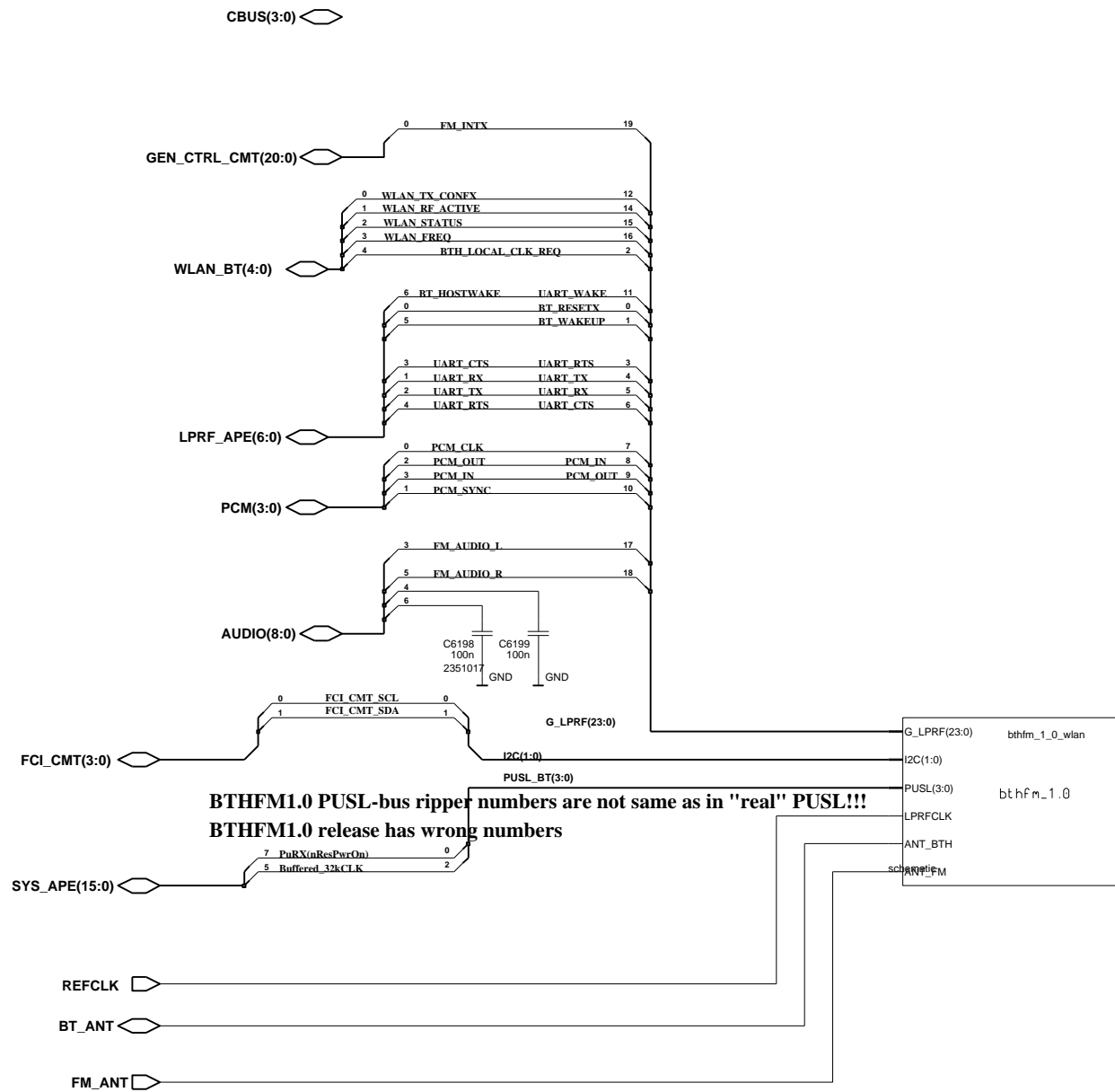
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				Assoc RELEASE3.1		Des. 03-Sep-05	
				File /nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/customer_specified_II/main_camera		Dr. VETU 10-Jan-07	
				Proj SPP HW		Sheet 22 of 100 0 (01)	
				Draw.		Print Yes V. 0.0 Edit 42	



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Name	NCW main level	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	09-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ncw	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	23 of 100
		Print	Yes
		V.	0.0
		Edit	47

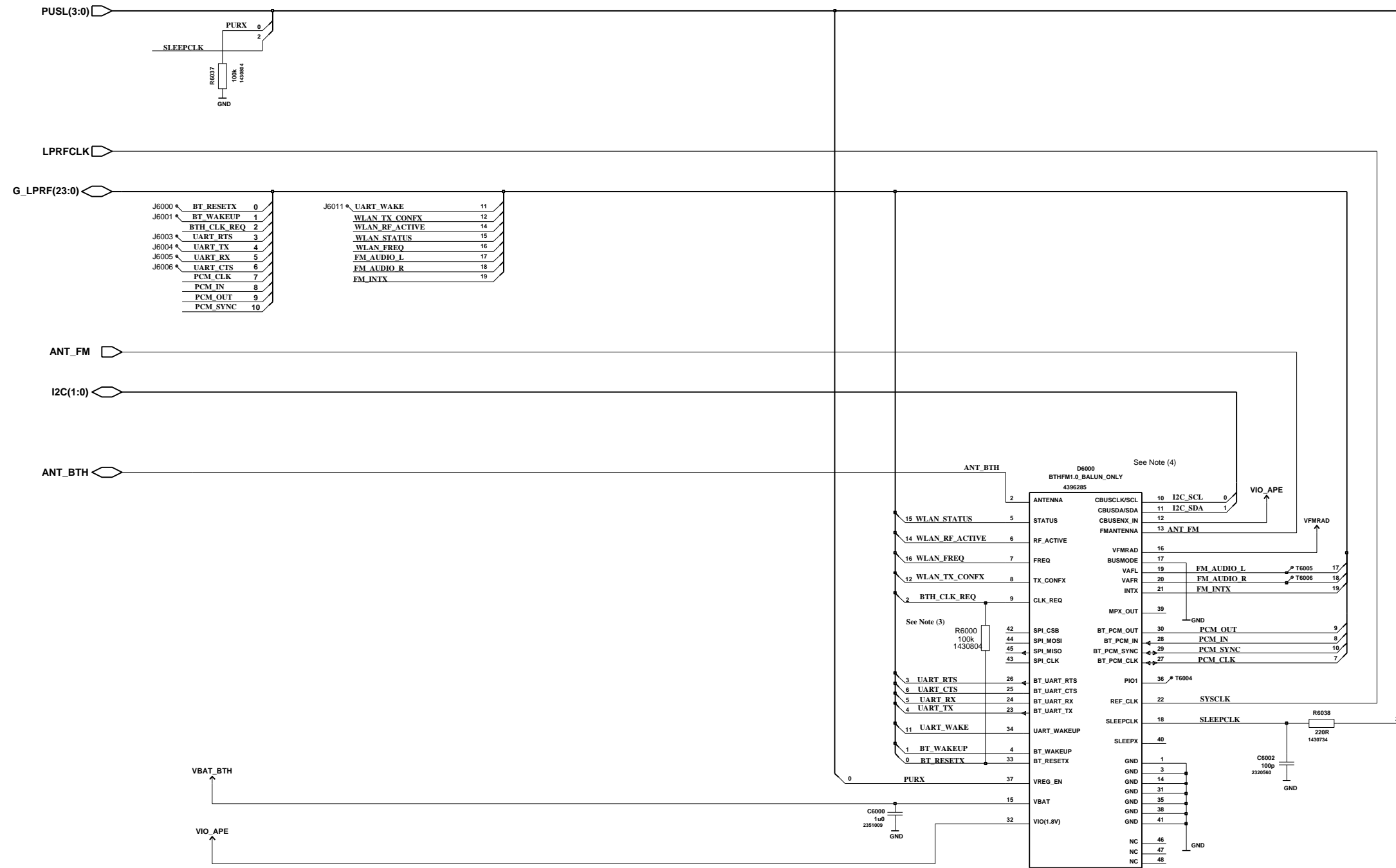


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Name	Bluetooth BTHFM1_0	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 23-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ncw/bt_and_fm	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	24 of 100 0 (01)
		Print	Yes V. 0.0 Edit 40

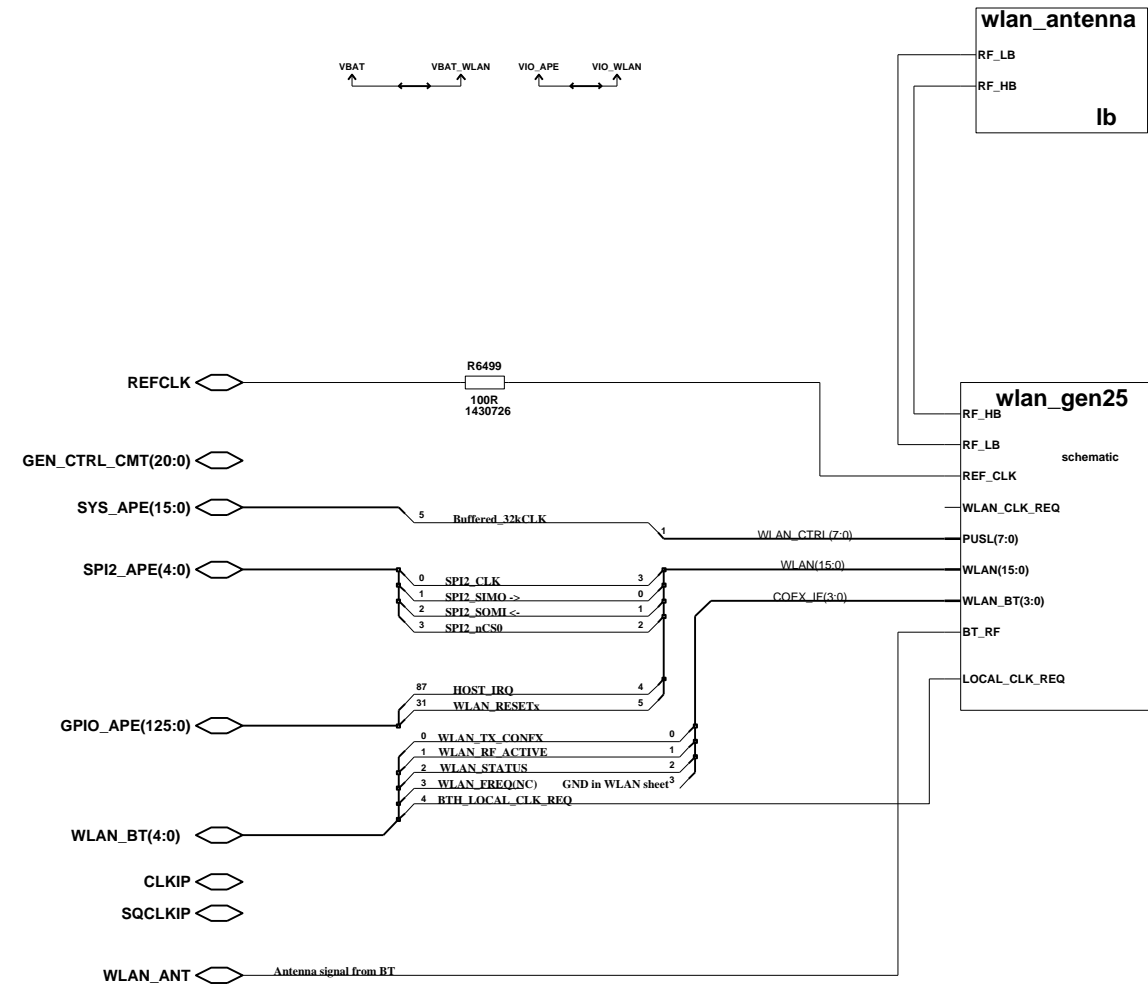
BLUETOOTH & FM RADIO MODULE WITH BALUN & I2C INTERFACE



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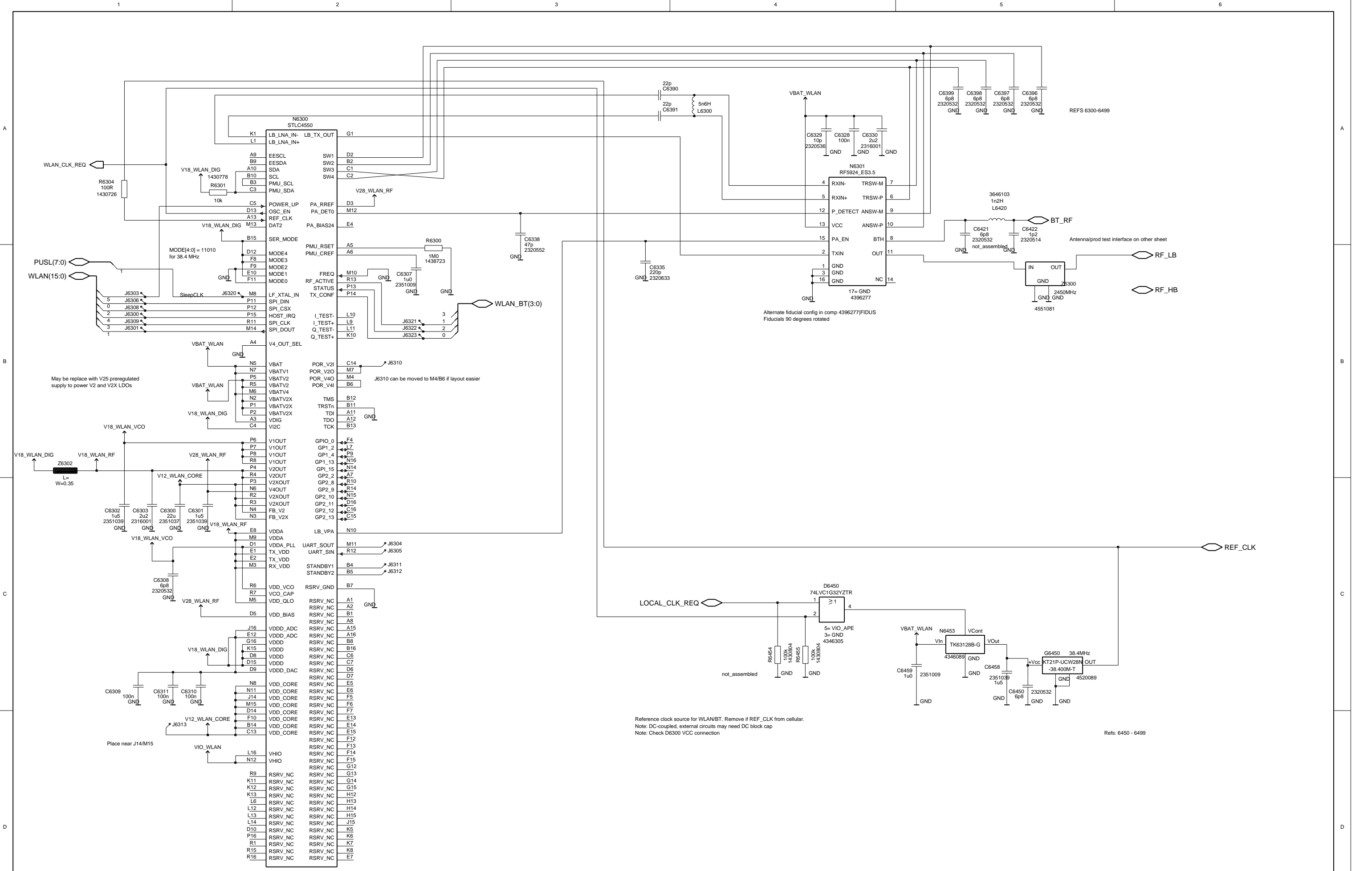
Name Bluetooth FM Module BTHFM1.0		Appr dd-mmm-yy	
Assoc	Ch. ANSCOMB 23-May-05	Des. FIELD	15-Nov-04
File	Dr. MILUNDGR		12-Dec-06
Proj P1501 Bluebird	Drw.	Sheet 25 of 100	0 (01)
		Print Yes	V. 0.0 Edit 47



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Name	WLAN, Gen 2.5 Local Oscillator	Appr	dd-mmm-yy
Assoc	RELEASE3.1	Des.	aaheinon 23-Sep-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/ncw/wlan	Dr.	HUHTAMAA 01-Nov-06
Proj	SPP HW	Sheet	27 of 100 0 (01)
Draw.		Print	Yes V. 0.0 Edit 42



GND PINS= GND
4396287

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Name	WLAN Gen 2.5 w45/05 release	Appr	dd-mmm-yy
Assoc		Des.	Makal 18-Dec-03
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_knifer_test/ncw/wlan_gen25_0545	Dr.	MILUNDGR 14-Aug-07
Proj	Gen2.5	Sheet	28 of 100 0 (01)
Draw.		Print	Yes V\$1.0 Edit 2

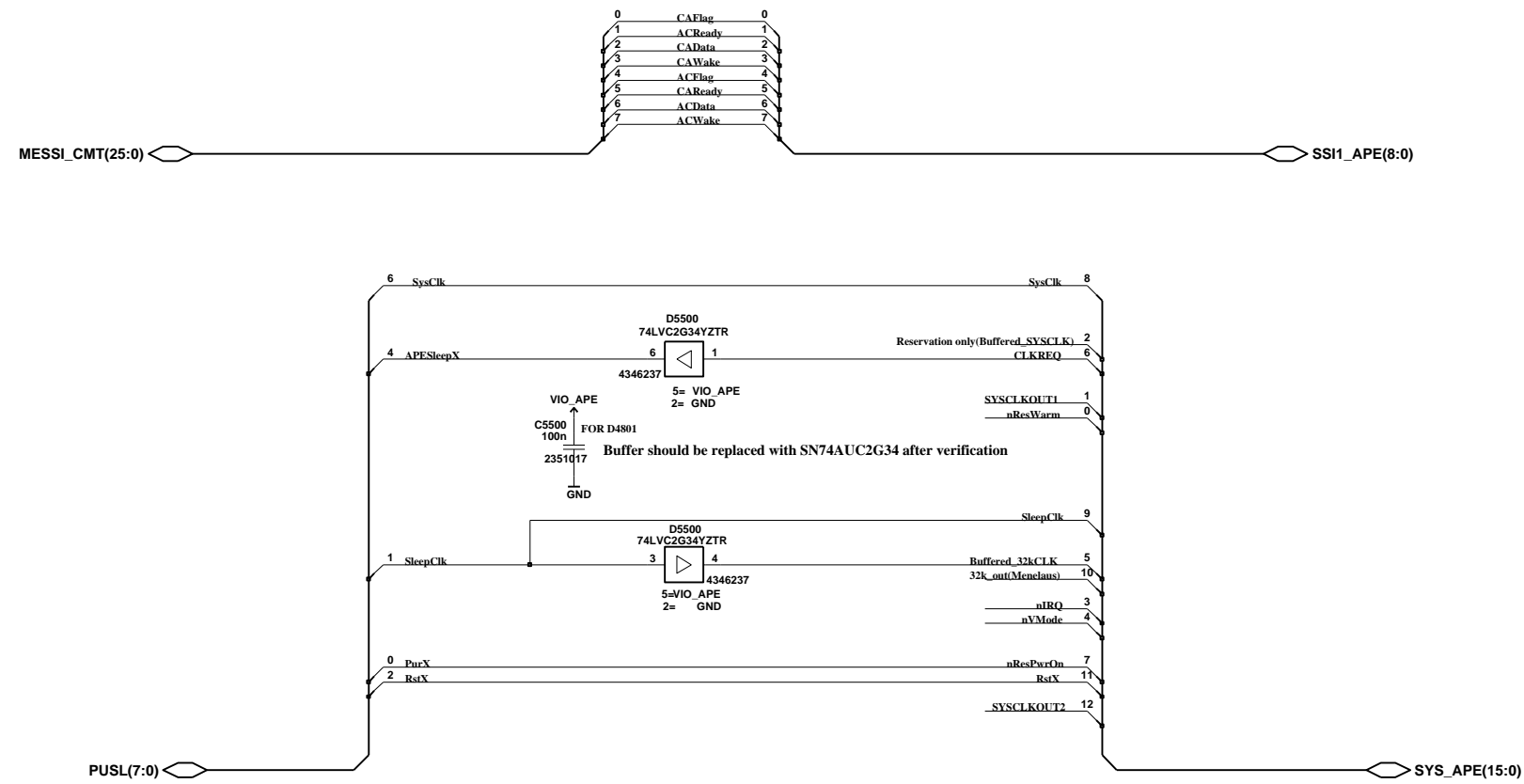
Check production test connector / antenna pad concept



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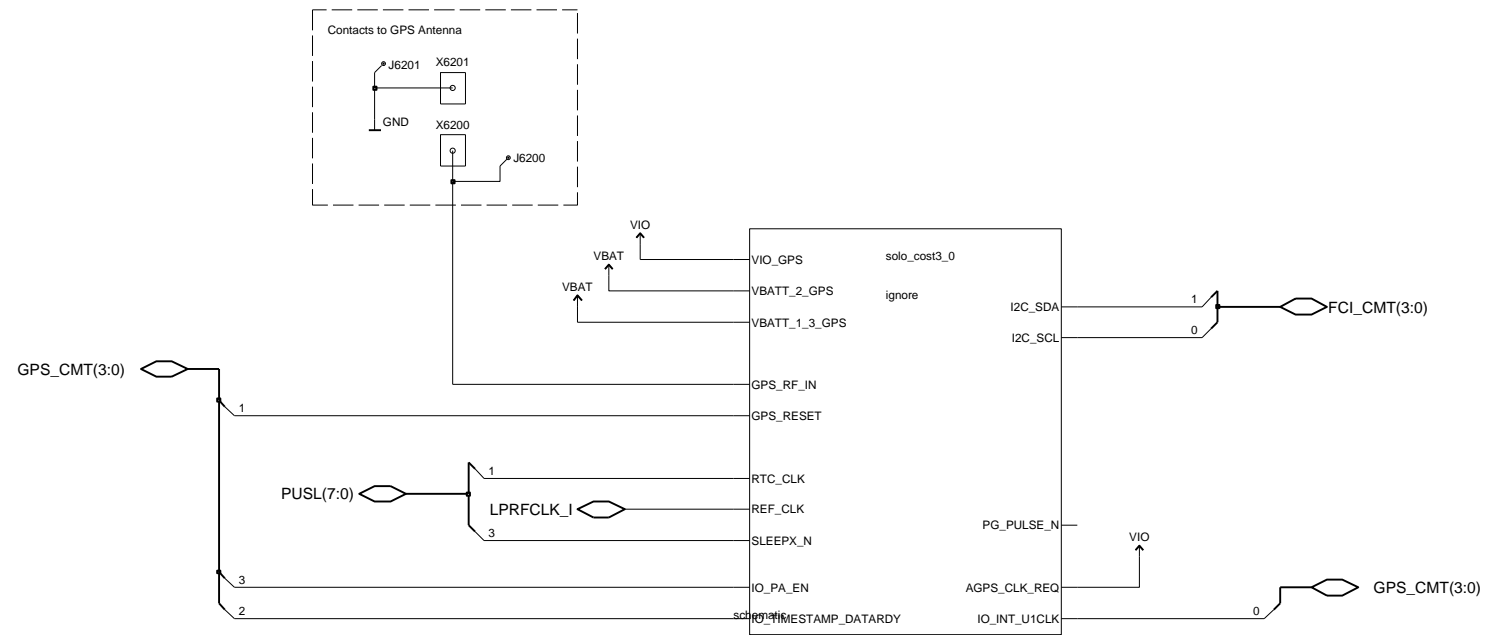
Name	WLAN/BT 2.4 GHz Antenna Interface	Appr	dd-mmm-yy
Assoc	Release3.1	Des.	Makal 10-Nov-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/ncw/wlan_antenna	Dr.	RHU 07-Nov-06
Proj	SPP HW	Sheet	29 of 100 0 (01)
		Print	Yes V. 0.0 Edit 13



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Name	APE-CMT INTERFACE, sleepclk_clkreq_buf		Appr	dd-mmm-yy
Assoc	RELEASE3.1		Des.	aaheinon 23-Sep-05
			Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/ma/ra-6/1nr/estr17_hw/ape/ape_cmt_if		Sheet	30 of 100 0 (01)
Proj	SPP HW	Drw.	Print	Yes V. 0.0 Edit 25

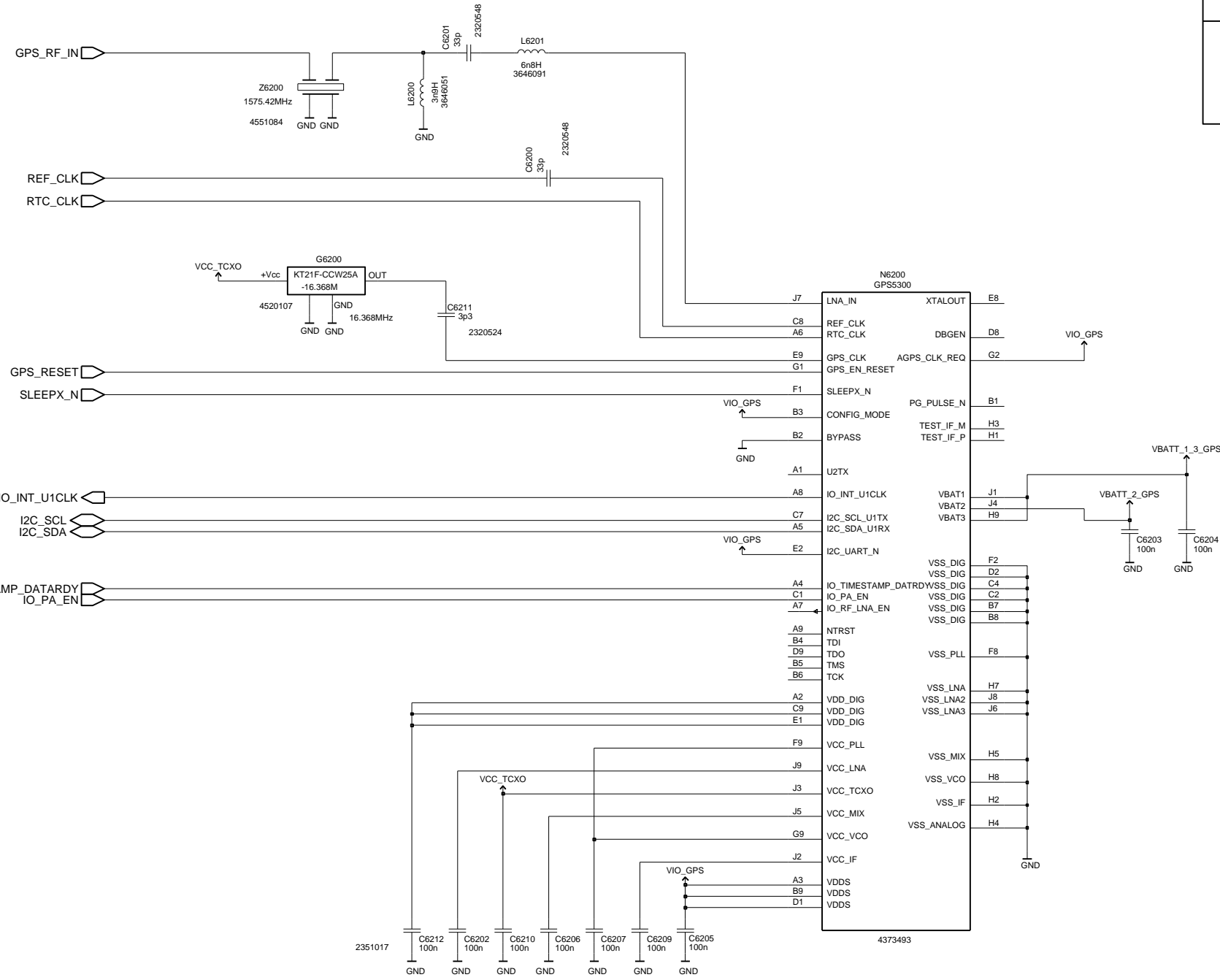


NOTE: This sheet includes multi_assy properties (RA6C, RA7C).
Please check multi_assy properties, when new component is added or updated !!

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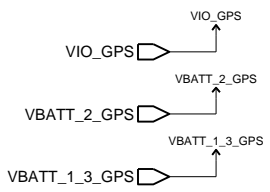


Name	GPS Cost 3.0	Appr	dd-mmm-yy
Assoc		Des.	ANMANNIS 08-Sep-05
		Dr.	RHU 07-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if/gps		Sheet 35 of 100 0 (01)
Proj	BB5.4x	Draw.	Print Yes V. 0.0 Edit 25



PIN	CONNECT TO	
	VIO_GPS	GND
I2C_UART_N	I2C MODE	UART MODE
BYPASS	CLOCK SLICER BYPASSED MODE [REF_CLK IS DIGITAL]	CLOCK SLICER ENABLED MODE [REF_CLK IS ANALOG]

AGPS_CLK_REQ
PG_PULSE_N



**NOTE: This sheet includes multi_assy properties (RA6C, RA7C).
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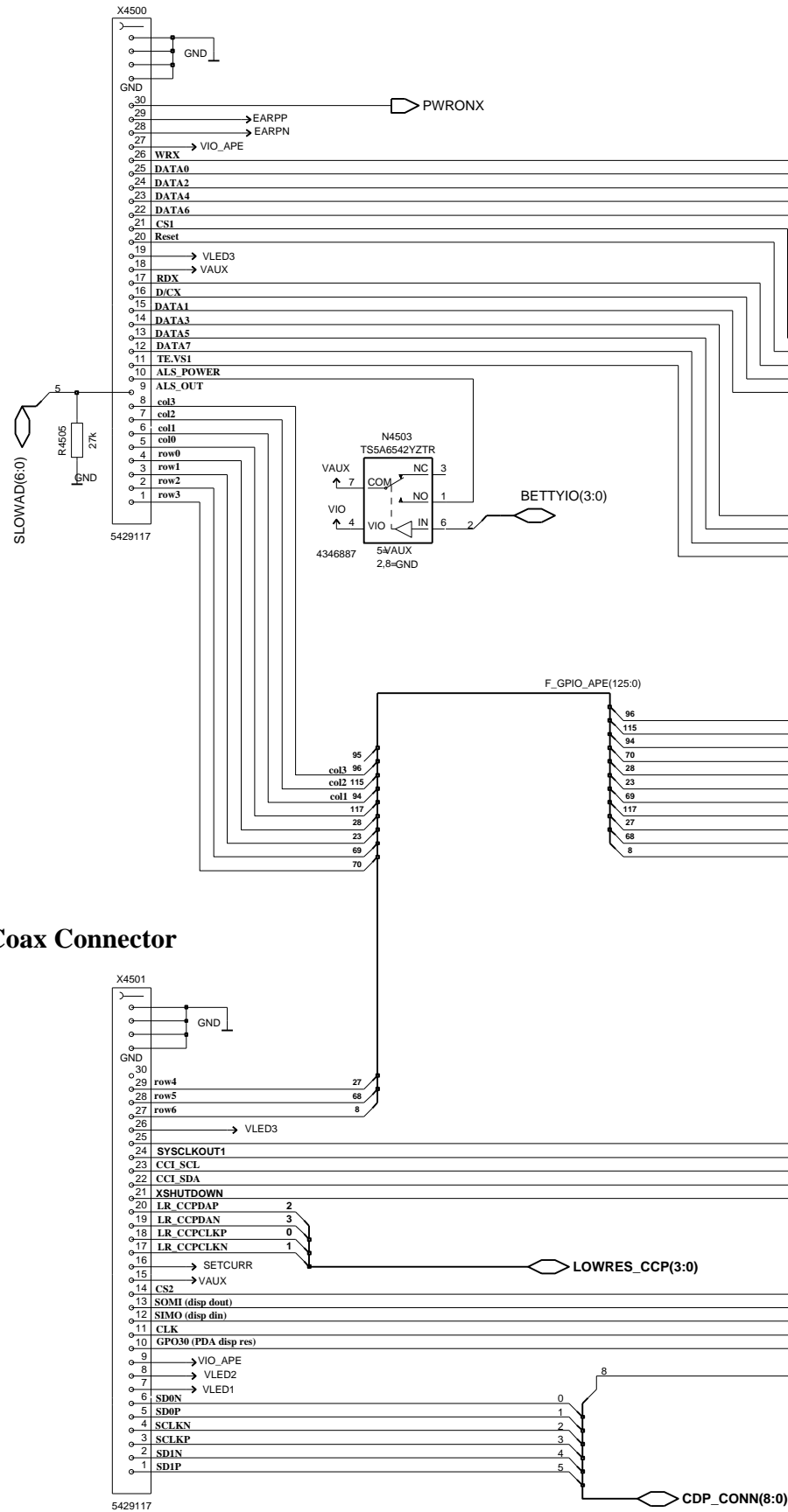


Name	SOLO COST 3.0 REFERENCE	Appr	dd-mmm-yy
Assoc		Des.	D Noonan 07-APR-04
File		Dr.	MILUNDGR 14-Aug-07
Proj	GOPHERS	Sheet	36 of 100 0 (01)
Draw.		Print	Yes V. 0.0 Edit 2

MAXI UI-Flex Connections (through HINGE)

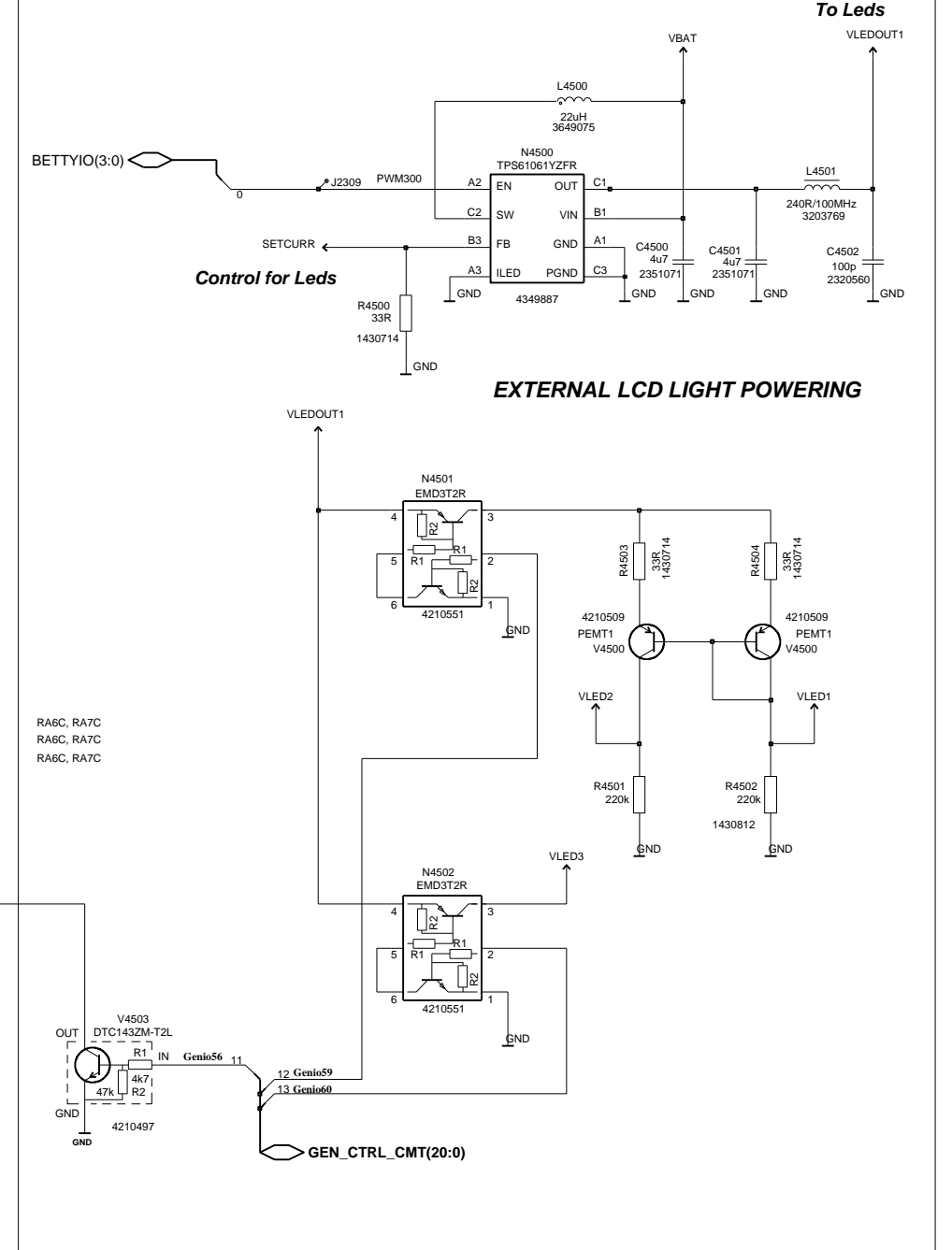
Ref number area: 4500-4599

Coax Connector



Project can also use 7-plus ASIP (4129287) instead of 10-lines.
 Unused ASIP lines must be connected to GND.
 If project has unconnected lines in other ASIP example display, they can be used.
 If ESD protection is needed in I2C, use 4129289 ASIP.
 Route I2C through only one ASIP.

Illumination (Cover / PDA Display, Cover Keyboard)

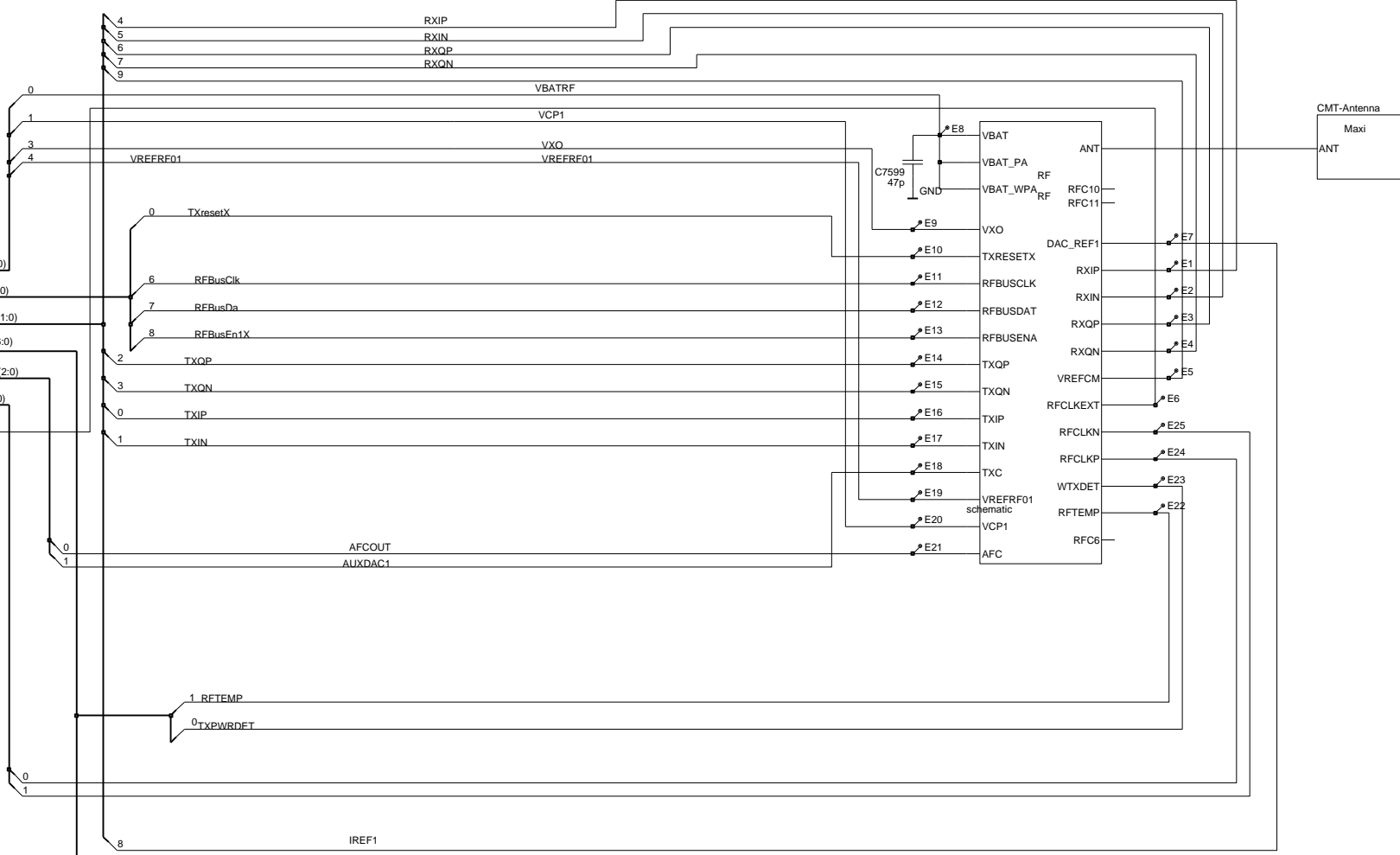
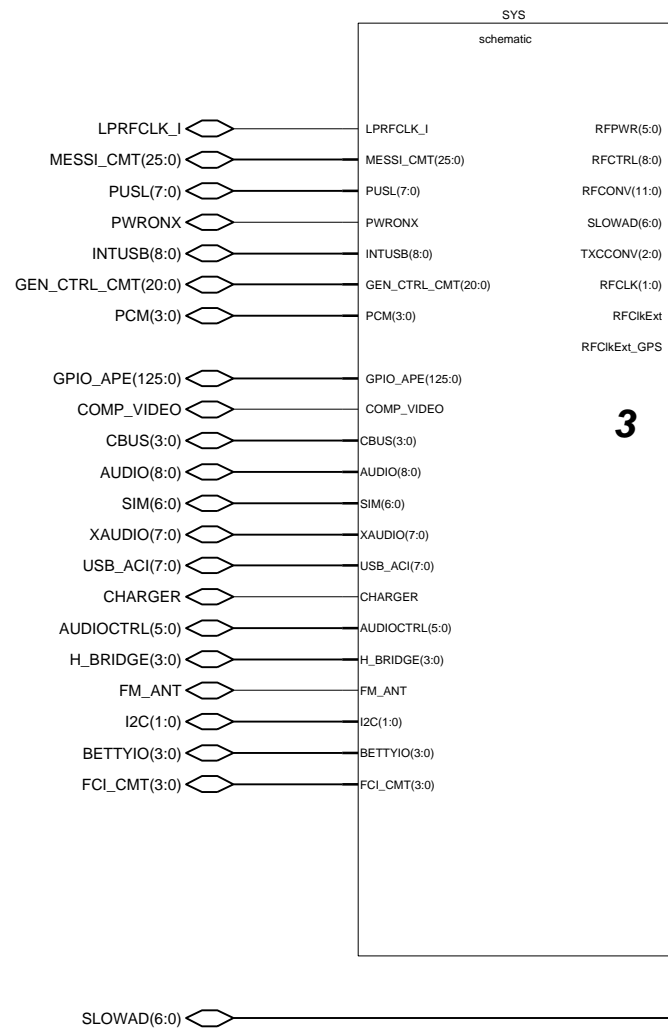


Coax Connector

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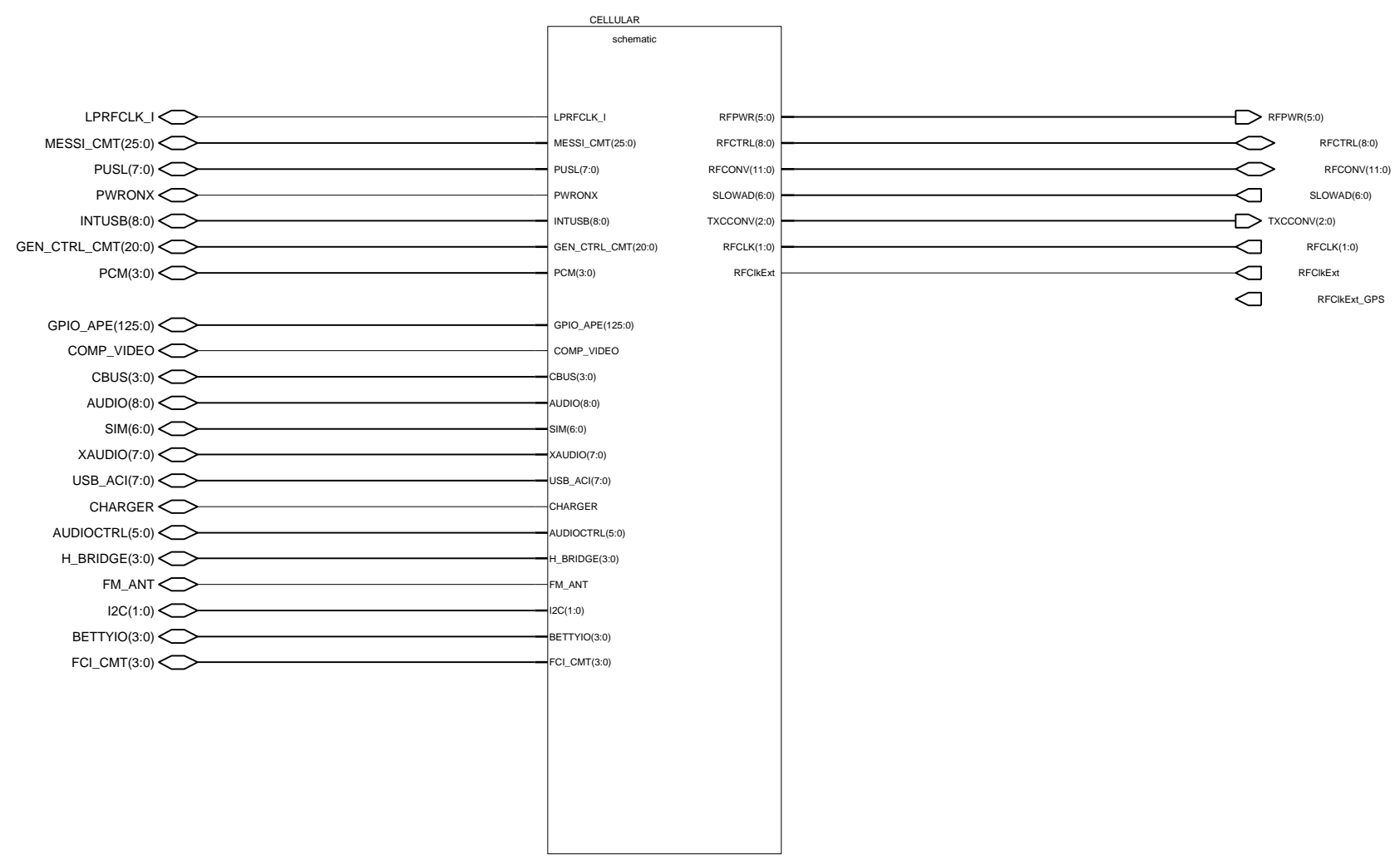
Name	Hinge interface	Appr	dd-mmm-yy
Assoc		Des.	02-Dec-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/customer_specified_if/hinge_if	Dr.	HUHTAMAA
Proj	Maxi	Sheet	xx of yy
		Print	Yes
		V.	0.0
		Edit	69



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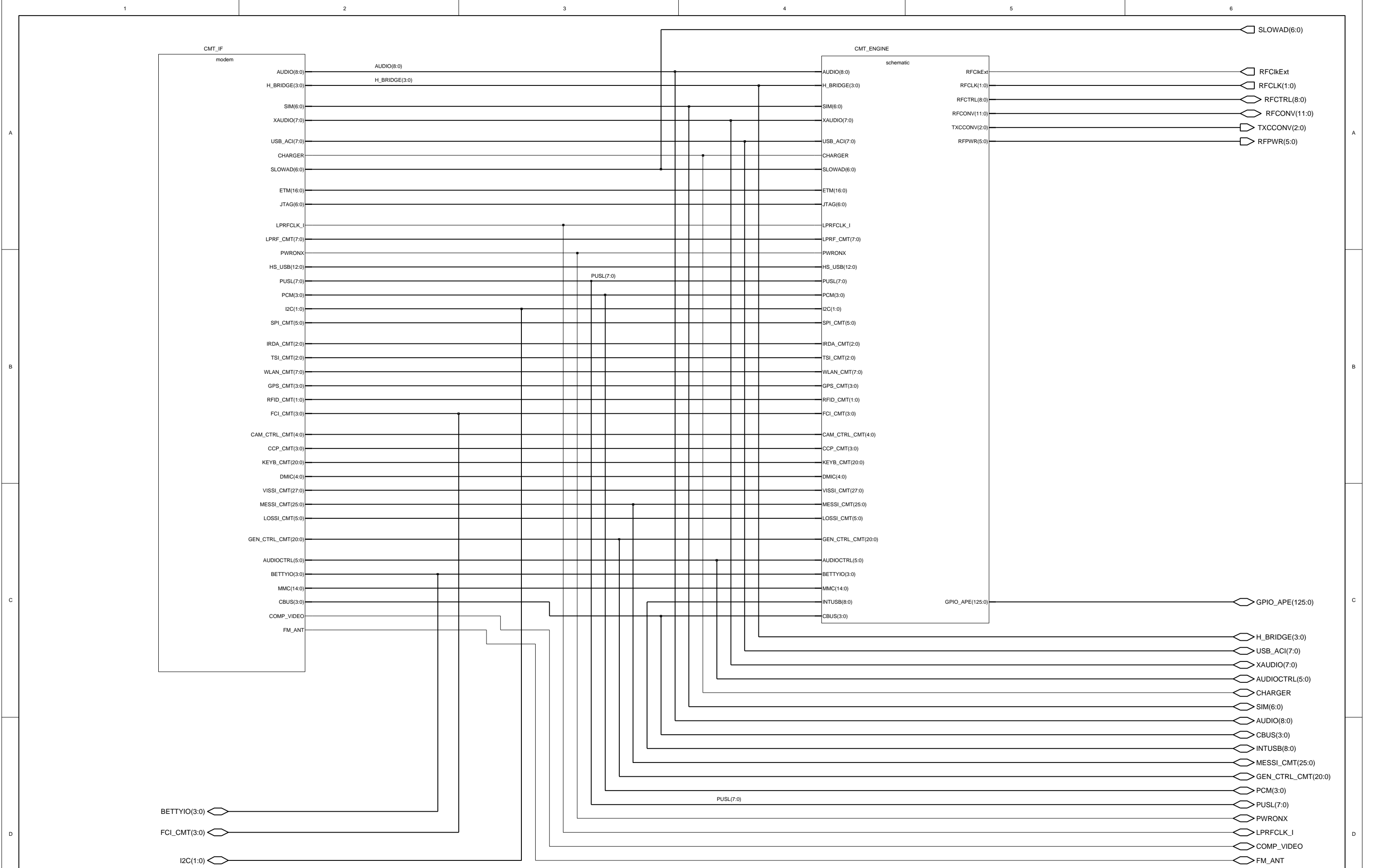
Name	BB & RF	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	ILJARVIN 18-Nov-03
		Dr.	MILUNDGR 12-Dec-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44		Sheet xx of yy 1(01)
Proj	BB5.4x	Draw.	Print Yes v. 0.0 Edit 201



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Name	BB Top Level	Appr	dd-mmm-yy
Assoc	BB5.4x	Build	B 1.0
Des.	KATJAKNU	24-Sep-04	
Dr.	HUHTAMAA	01-Nov-06	
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/bb54x_wk44/SYS		Sheet xx of yy
Proj	BB5.4x	Draw.	0 (01)
Print	Yes	v. 02	Edit 82



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Name	Cellular Top Level	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	KATJAKNU 24-Sep-04
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular		Sheet xx of yy 0 (01)
Proj	BB5.4x	Print Yes	v. 0 Edit 96

A

B

C

D

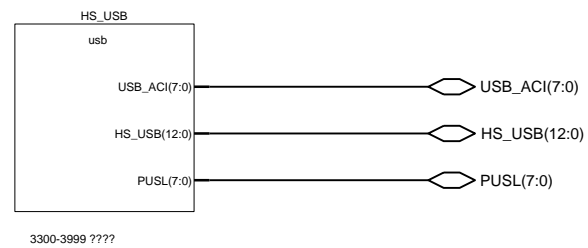
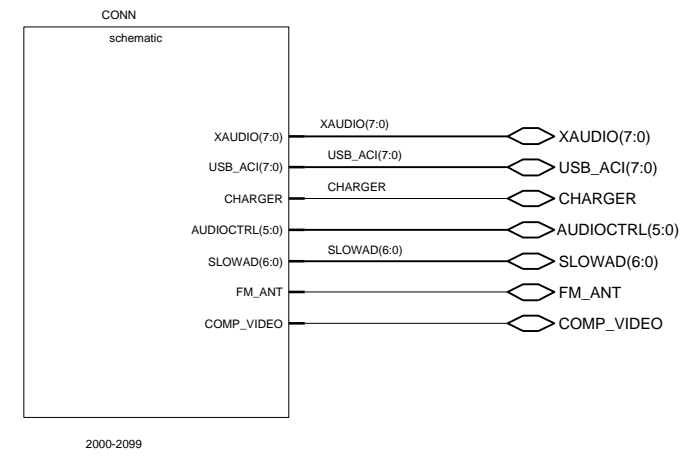
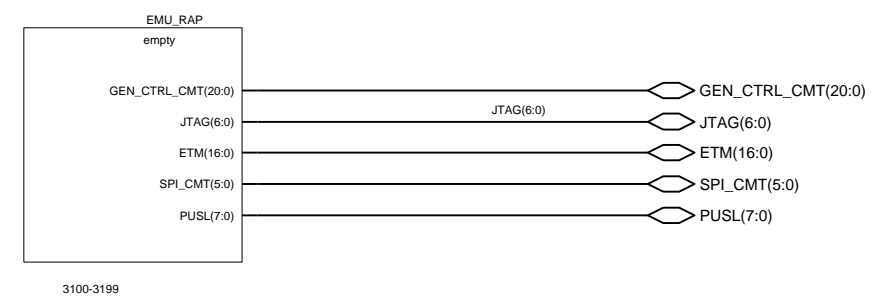
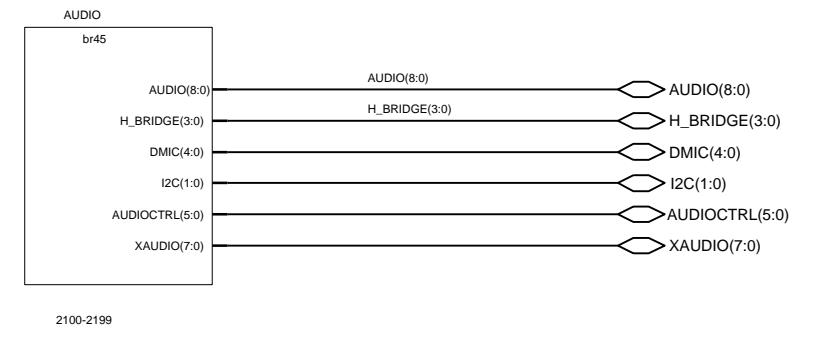
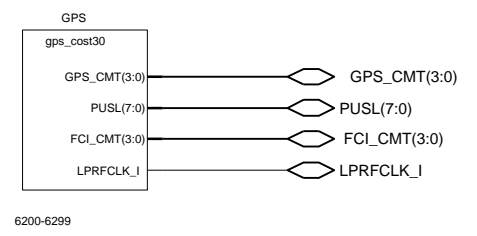
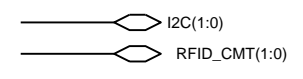
A

B

C

D

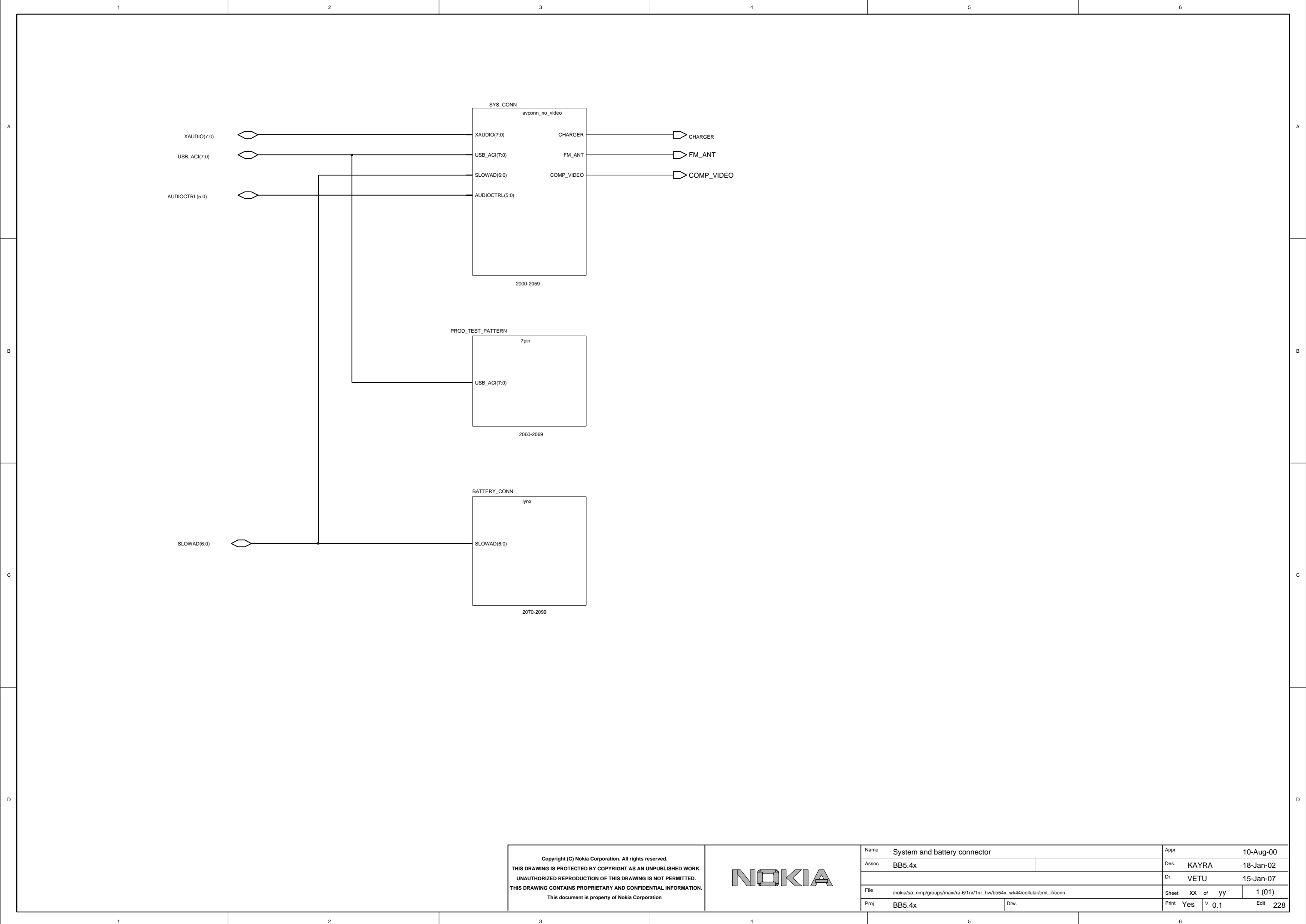
- PWRONX
- SLOWAD(6:0)
- VISSI_CMT(27:0)
- MESSI_CMT(25:0)
- LOSSI_CMT(5:0)
- KEYB_CMT(20:0)
- SPI_CMT(5:0)
- FCI_CMT(3:0)
- TSI_CMT(2:0)
- BETTYIO(3:0)
- SIM(6:0)
- MMC(14:0)
- I2C(1:0)
- PUSL(7:0)
- GEN_CTRL_CMT(20:0)
- COMP_VIDEO
- CCP_CMT(3:0)
- CAM_CTRL_CMT(4:0)
- USB_ACI(7:0)
- HS_USB(12:0)
- IRDA_CMT(2:0)
- FM_ANT
- AUDIO(8:0)
- PCM(3:0)
- LPRF_CMT(7:0)
- LPRFCLK_I
- WLAN_CMT(7:0)
- PCM(3:0)
- CBUS(3:0)



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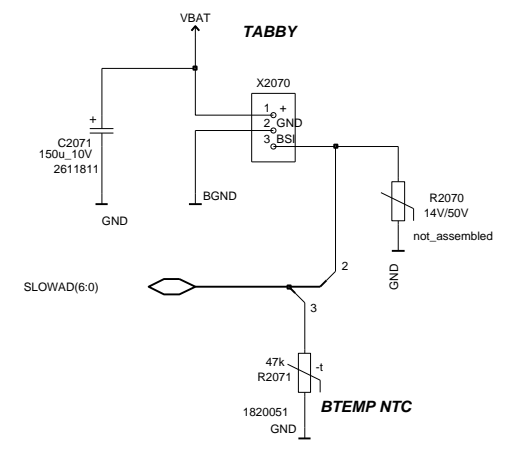
Name	CMT_IF Top Level	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	ArKa 27-May-03
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if		Sheet xx of yy 0 (01)
Proj	BB5.4x	Draw.	Print Yes V. 0,0 Edit 93



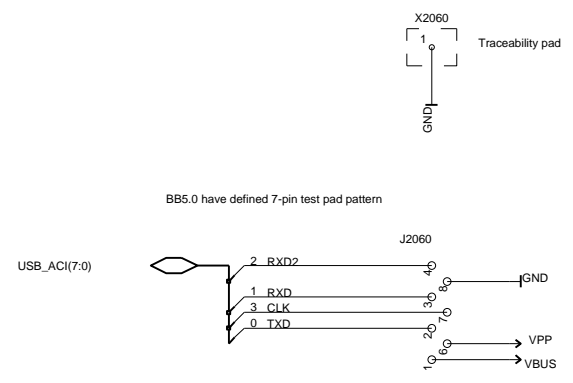
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Name	System and battery connector	Appr	10-Aug-00
Assoc	BB5.4x	Des.	KAYRA 18-Jan-02
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if/conn		Sheet xx of yy 1 (01)
Proj	BB5.4x	Drw.	Print Yes v. 0,1 Edit 228



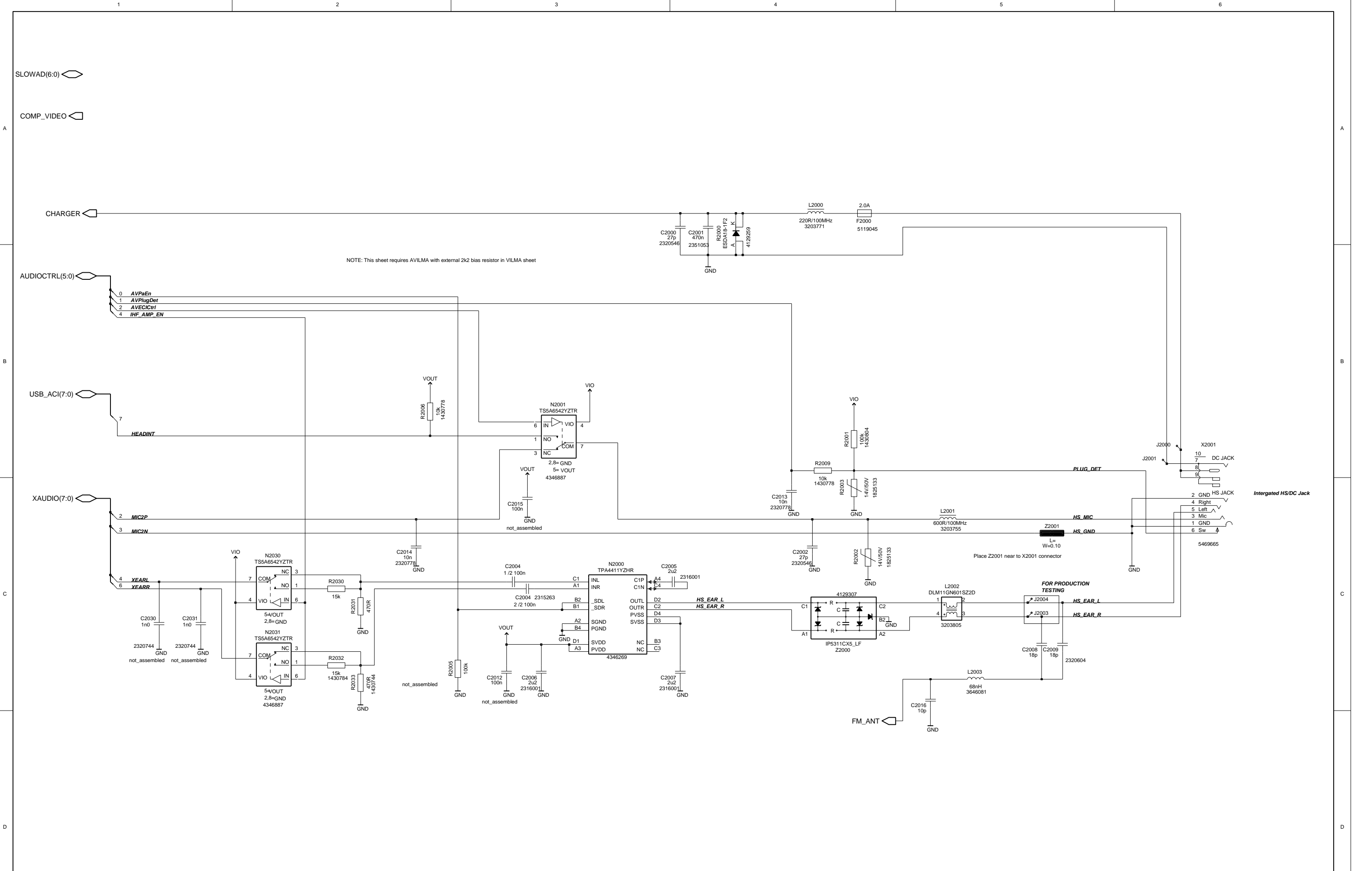
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				Assoc BB5.4x		Des. ILJARVIN 18-Aug-03	
				File /nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if/battery_conn		Dr. VETU 15-Jan-07	
				Proj BB5.4x		Sheet xx of yy 1 (01)	
				Draw.		Print Yes v. 02 Edit 257	



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Name	Production test pad	Appr	10-Aug-00
Assoc	BB5.4x	Des.	KAYRA 18-Jan-02
		Dr.	HUHTAMAA 01-Nov-06
File	nokia/ta_rmp/groups/max/ta-611/tastr17_hw/bb54x_wk44/cellular/oml_0prod_test_pattern		
Proj	BB5.4x	Draw.	
		Print	Yes
		V.	0,1
		Edit	225
		Sheet	xx of yy
			1 (01)



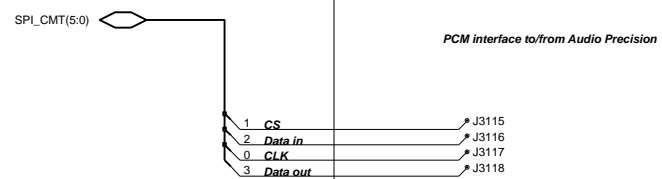
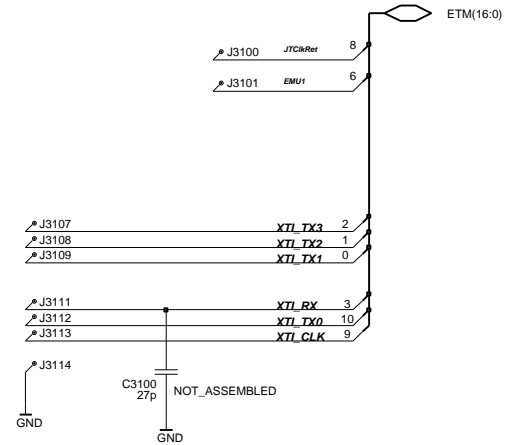
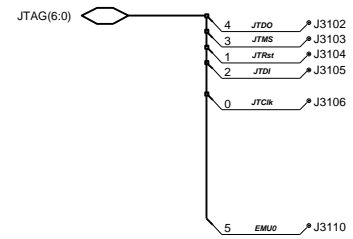
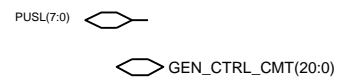
NOTE: This sheet requires AVILMA with external 2k2 bias resistor in VILMA sheet

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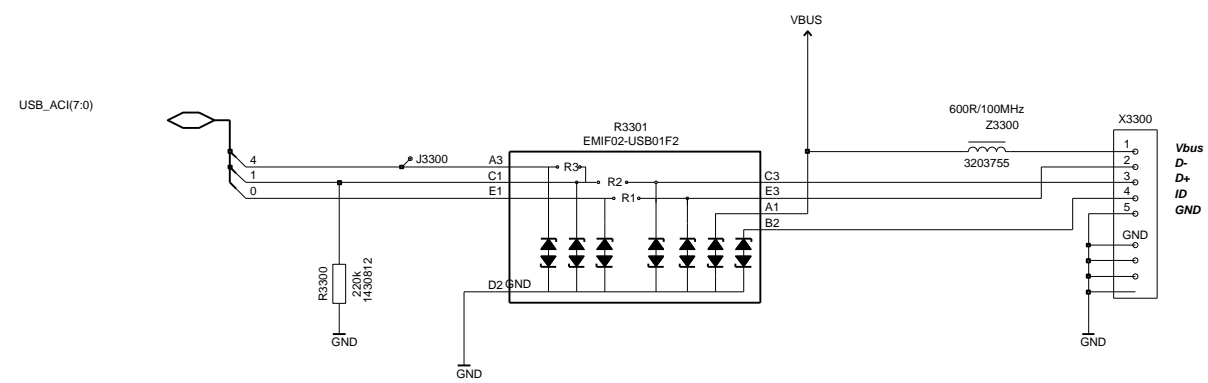
Name	AV connector	Appr	dd-mmm-yy
Assoc		Des.	ANMANNIS 07-Sep-05
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/mini/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if/sys_conn	Sheet	xx of yy 0 (01)
Proj	BB5.4x	Print	Yes v. 0.0 Edit 30



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Name	EMU:RAP Test Interface	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	KAYRA 04-Jun-98
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/bb54x_wk44/cellular/cmt_if/emu_rap	Dr.	HUHTAMAA 01-Nov-06
Proj	BB5.4x	Sheet	xx of yy 1 (01)
		Print	Yes v. 1.3 Edit 65



USB_ACI(7:0)

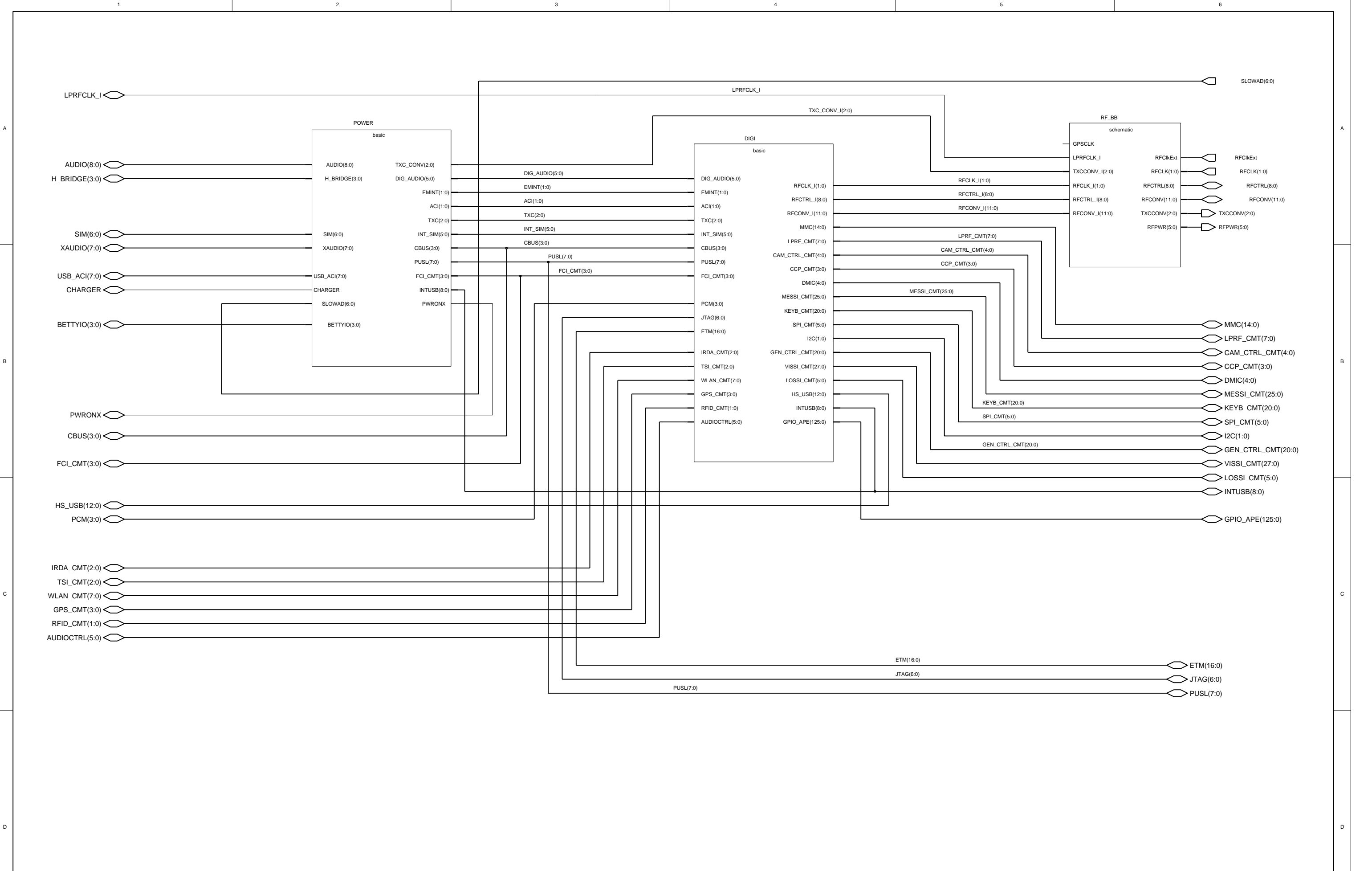
HS_USB(12:0)

PUSL(7:0)

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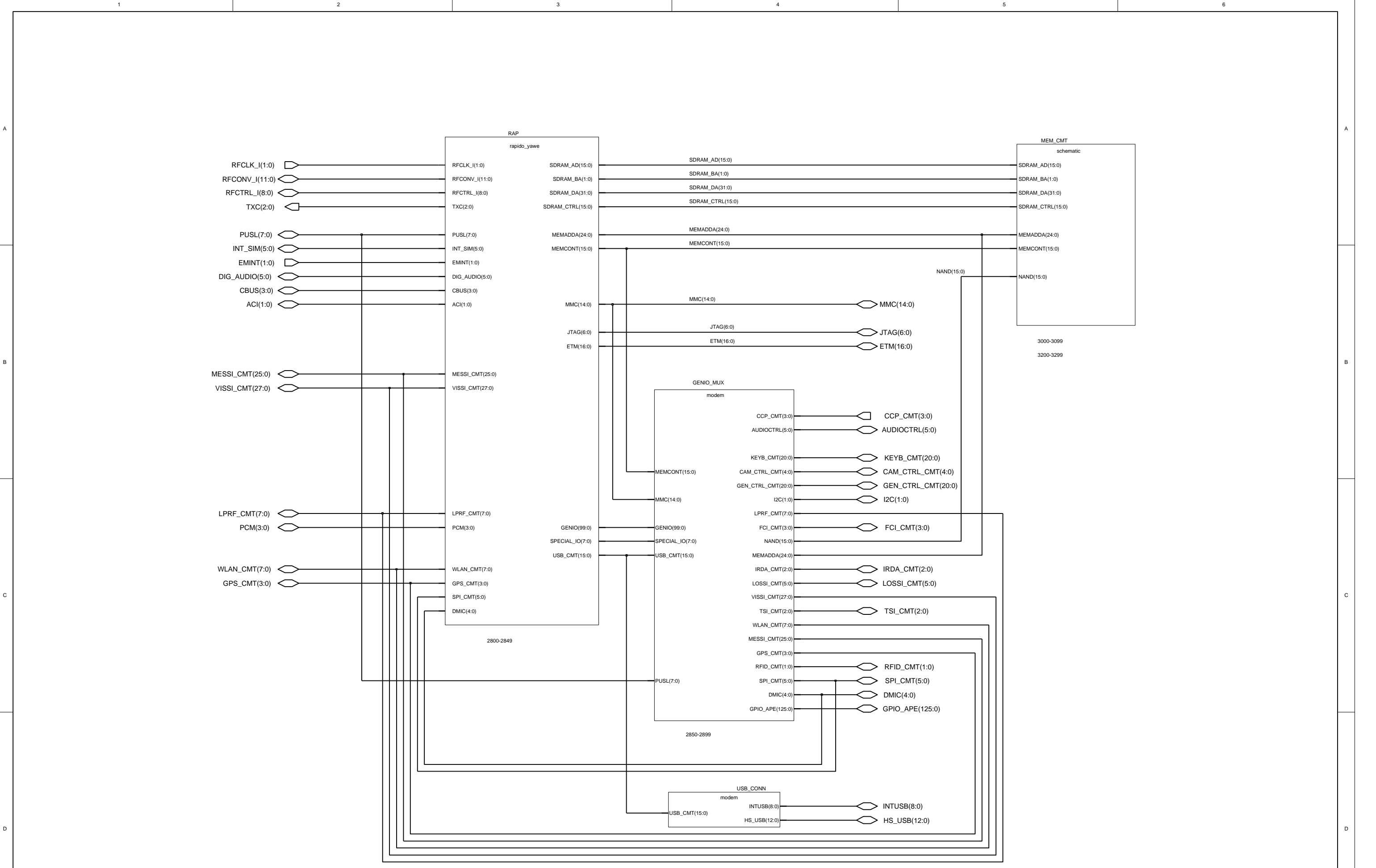
Name	Standard USB	Appr	dd-mmm-yy
Assoc		Des.	ANMANNIS 25-Oct-05
		Dr.	VETU 21-May-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_if/hs_usb		Sheet xx of yy 0 (01)
Proj	BB54x	Draw.	Print Yes V. 0.0 Edit 18



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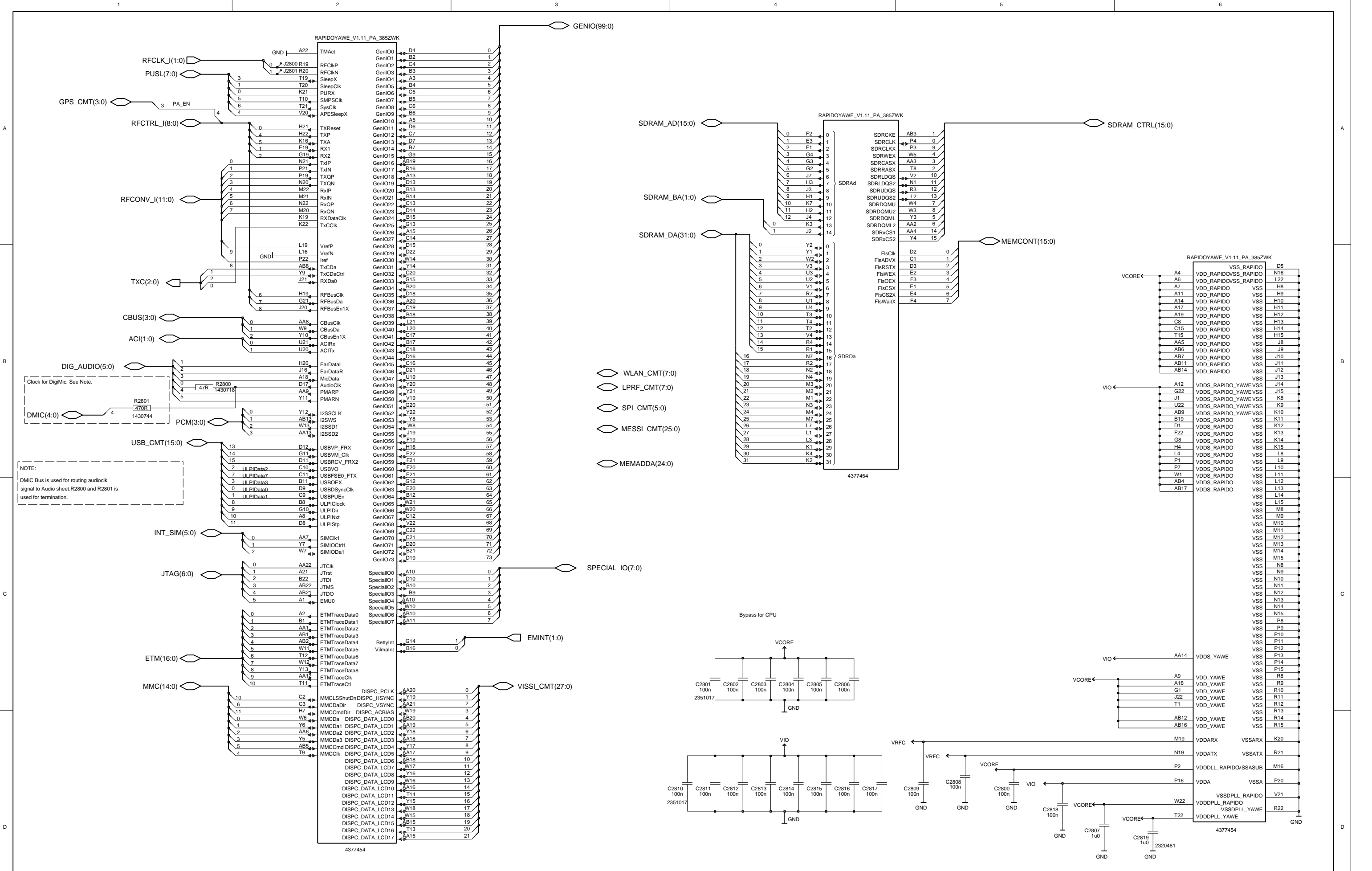
Name	CMT_Engine Top level	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	KATJAKNU 24-Sep-04
		Dr.	HUHTAMAA 01-Nov-06
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/estr17_hw/bb54x_wk44/cellular/cmt_engine		Sheet xx of yy 0 (01)
Proj	BB5.4x	Print Yes	v. 0.0 Edit 58



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Name	CMT SUBSYSTEM	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	KATJAKNU 22-Sep-03
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_engine/digi		Sheet xx of yy 0 (01)
Proj	BB5.4x	Print Yes	v. 0 Edit 80

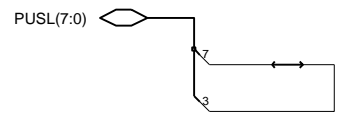
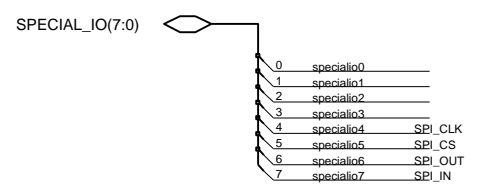
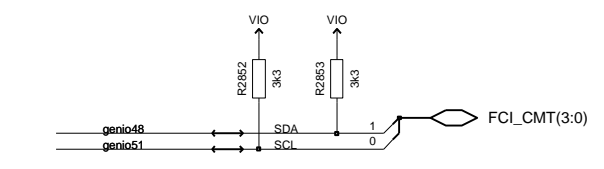
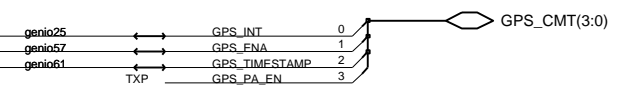
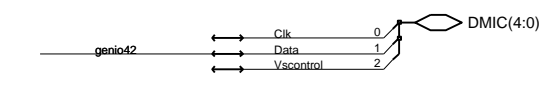
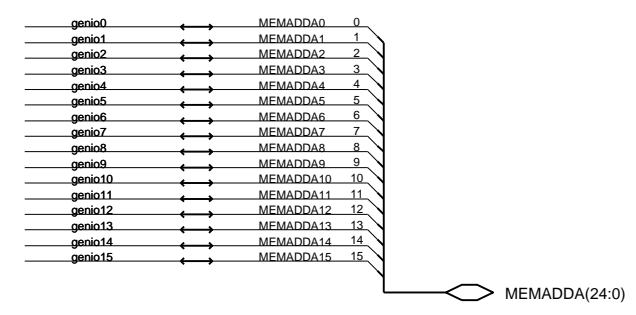
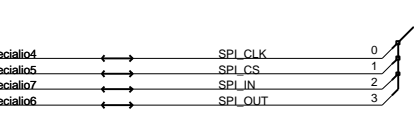
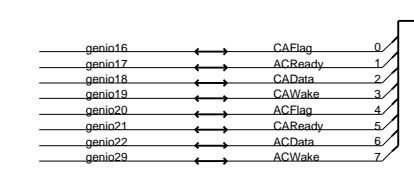
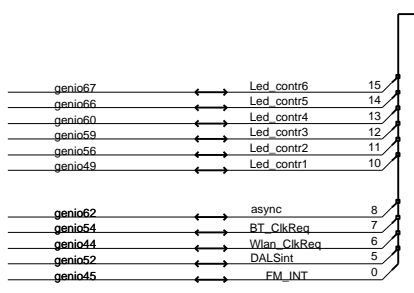
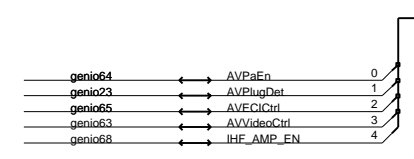
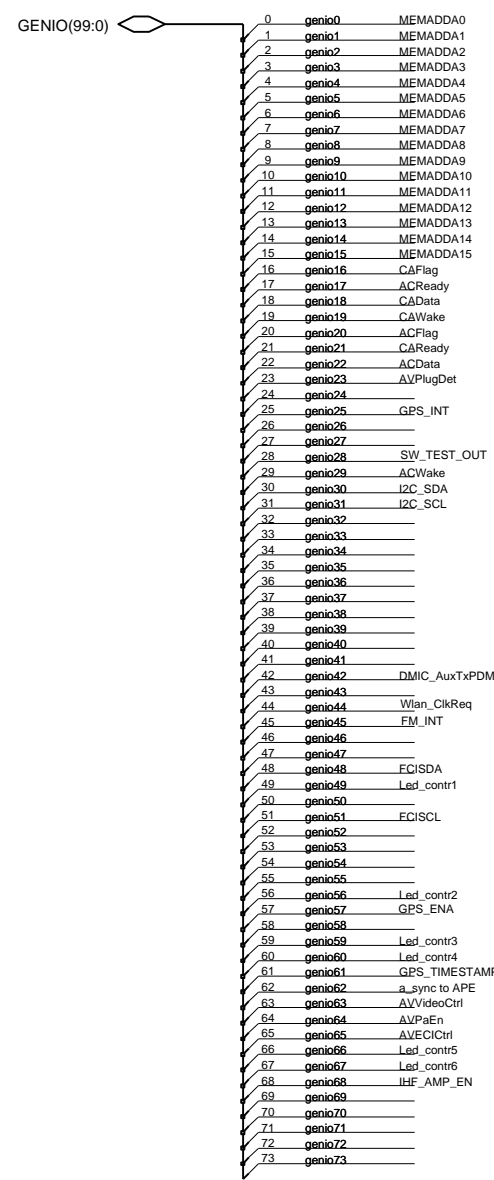


NOTE:
 DMIC Bus is used for routing audio clock signal to Audio sheet. R2800 and R2801 is used for termination.

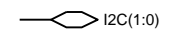
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Name	RAPIDO YAWE	Appr	dd-mmm-yy
Assoc		Des.	anmannis 26-Apr-05
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_engine/digi/rap	Dr.	VETU 15-Jan-07
Proj	BB5.4x	Sheet	XX of yy 0 (01)
Draw.		Print	Yes v. 0.0 Edit 31



IF EXTERNAL CLOCK REQUESTS ARE NOT USED
PUSL LINES 7 AND 3 MUST BE CONNECTED

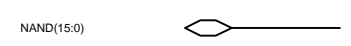
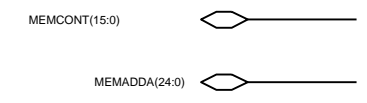
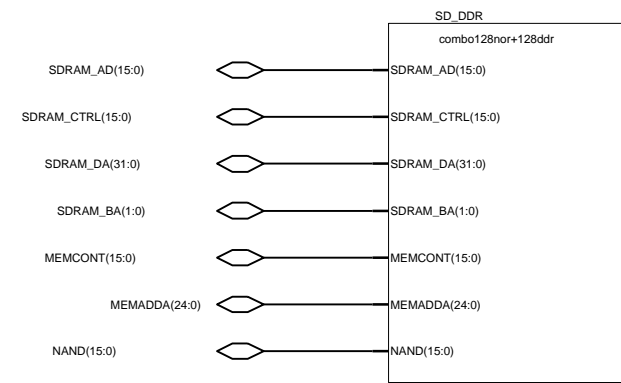


- GPIO_APE(125:0)
- FCI_CMT(3:0)
- SPL_CMT(5:0)
- RFID_CMT(1:0)
- USB_CMT(15:0)
- LPRF_CMT(7:0)
- TSL_CMT(2:0)
- KEYB_CMT(20:0)
- NAND(15:0)
- CAM_CTRL_CMT(4:0)
- MMC(14:0)
- LOSSI_CMT(5:0)
- WLAN_CMT(7:0)
- SPL_CMT(5:0)
- IRDA_CMT(2:0)
- VISSI_CMT(27:0)
- CCP_CMT(3:0)

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Name	GenIO muxing	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	ANMANNIS 07-Apr-05
File	nokia/ta_rmp/gnps/max/ta-617r1r1r_hmb54_wk44cellular/ctrl_engio/gio_mux	Dr.	VETU 15-Jan-07
Proj	BB5.4x	Sheet	xx of yy 0 (01)
		Print	Yes v. 0.0 Edit 59

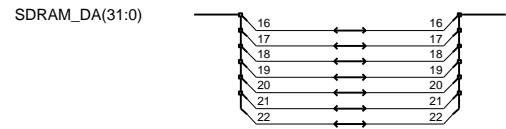
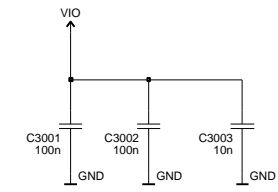
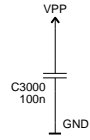


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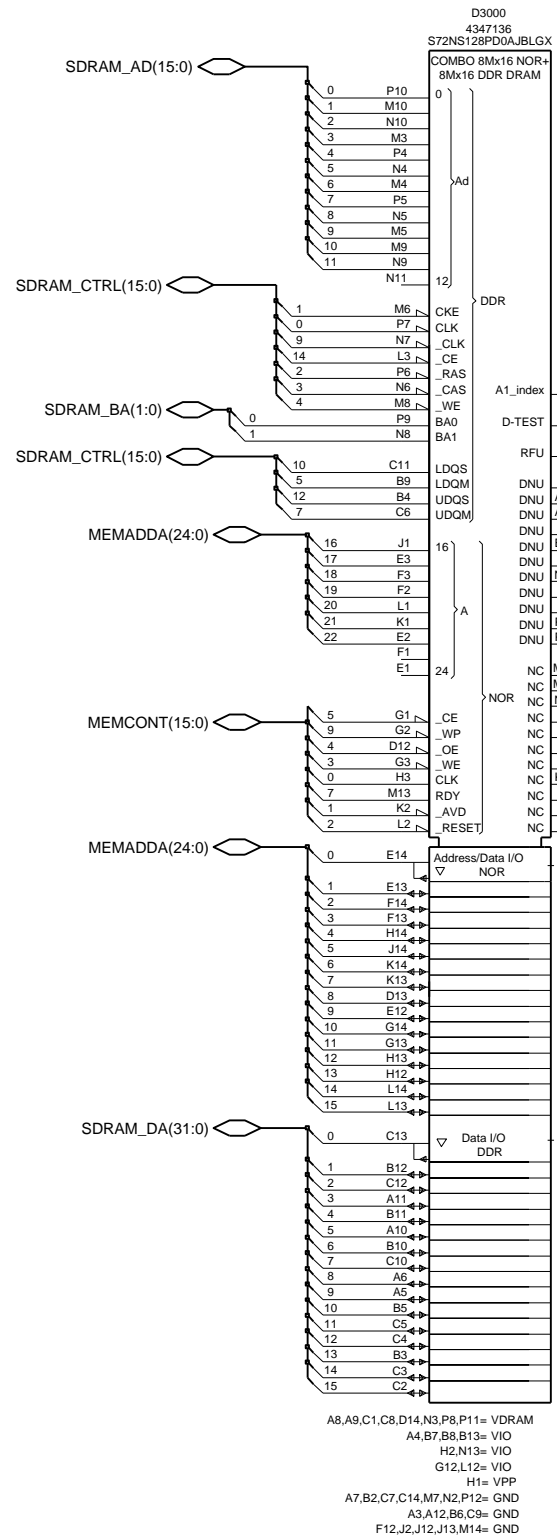
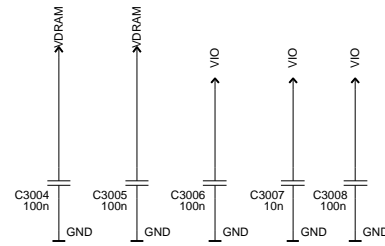
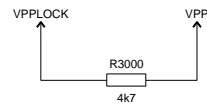


Name	CMT Memories	Appr	10-Aug-00
Assoc	BB5.4X	Des.	KATJAKNU 22-Dec-04
	Tech	BB5.4X	Dr. VETU 15-Jan-07
File	/nokia/sa_nmp/groups/ma/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_engine/digi/mem_cmt		Sheet xx of yy 1 (01)
Proj	BB5.4X	Drw.	Print Yes v. 02 Edit 79

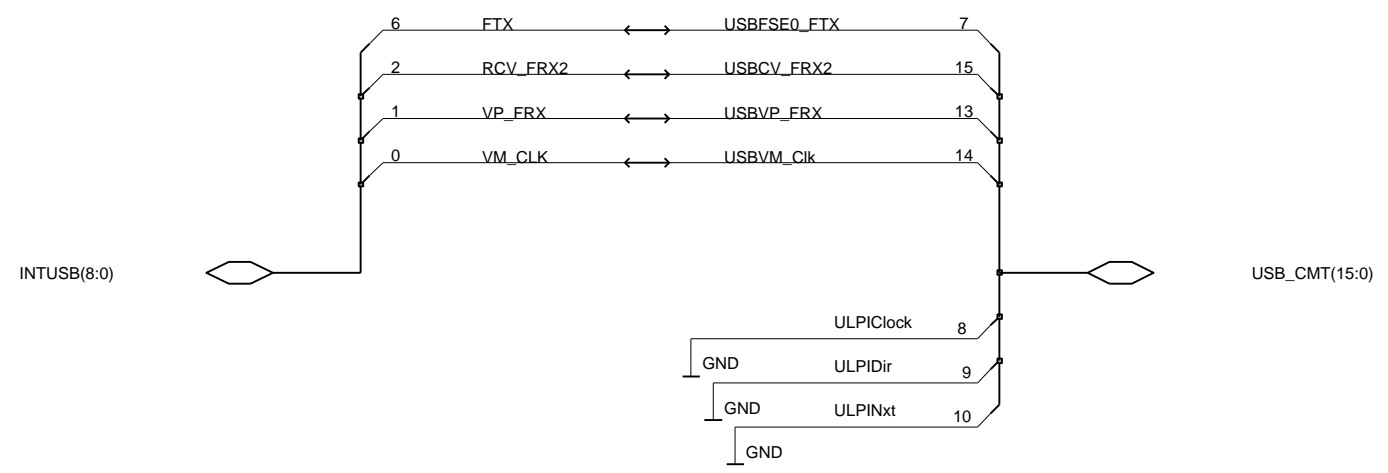
NAND(15:0)



NOTE: MEMADDA(24:16) IS MUXED TO SDRAM_DA(24:16) IN RAPIDOYAWE

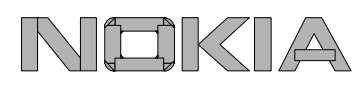


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				Assoc		Des. ANMANNIS 17-May-05	
				File		Dr. HUHTAMAA 22-May-07	
				Proj BB5.4x		Sheet xx of yy 0 (01)	
				Draw.		Print Yes v. 0.0 Edit 21	



HS_USB(12:0) 

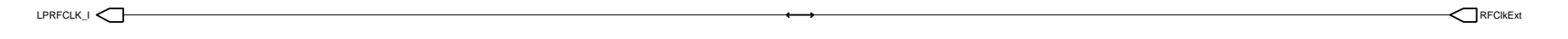
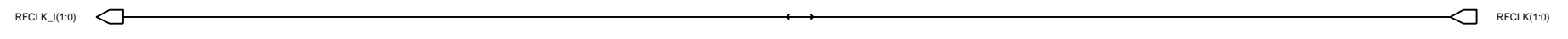
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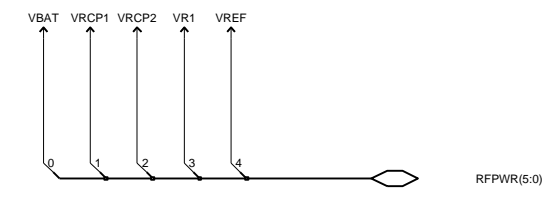
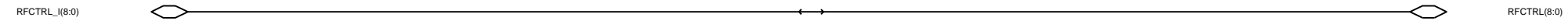
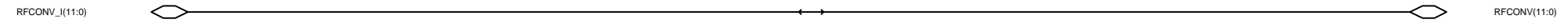
Name	USB	Appr	dd-mmm-yy
Assoc	BB5.4X	Des.	KATJAKNU 04-Jun-03
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_engine/digi/usb_conn		Sheet XX of yy 0 (01)
Proj	BB5.4X	Drw.	Print Yes V. 0.0 Edit 27

CBB5X

TOP SHEET



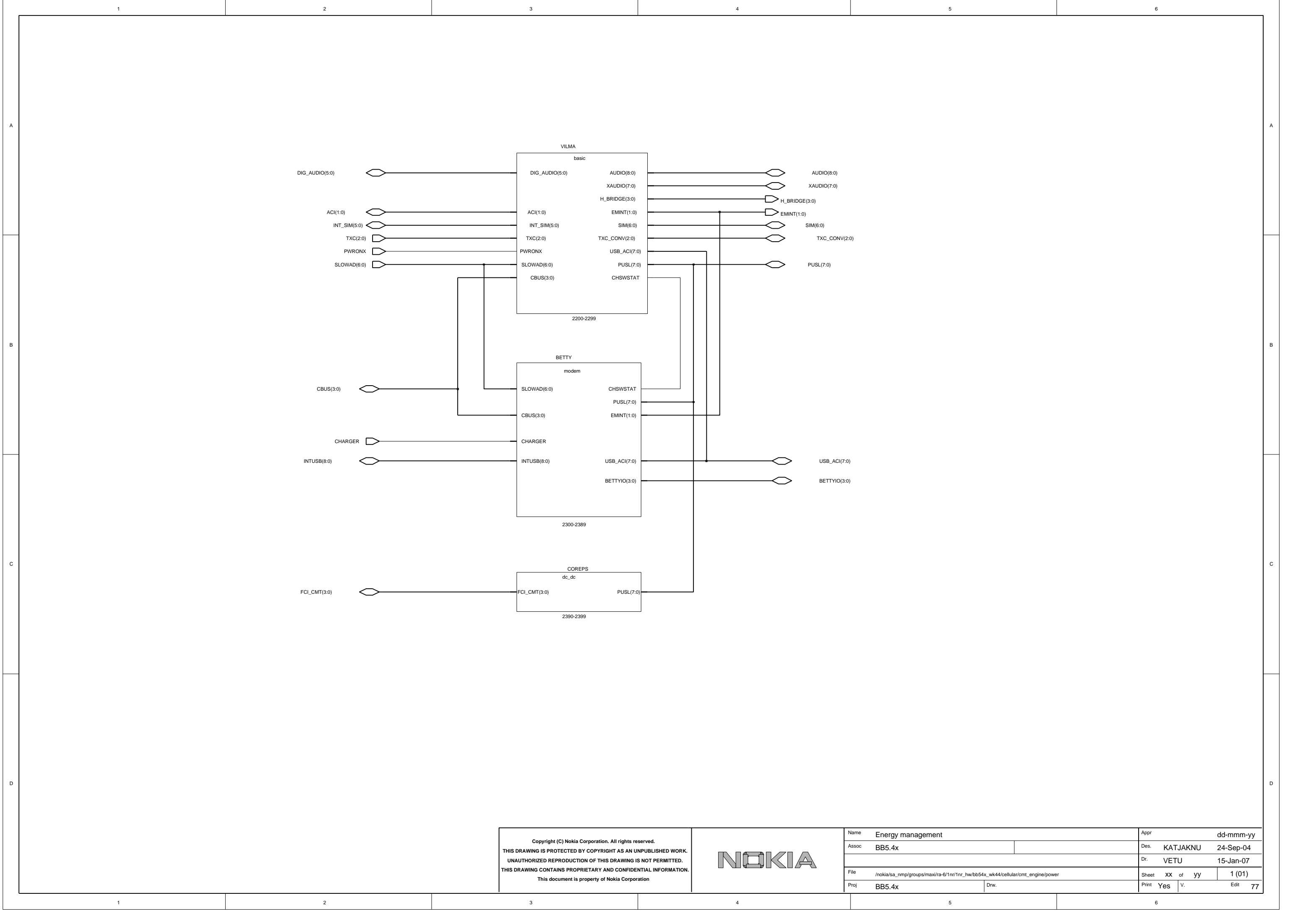
GPSCLK



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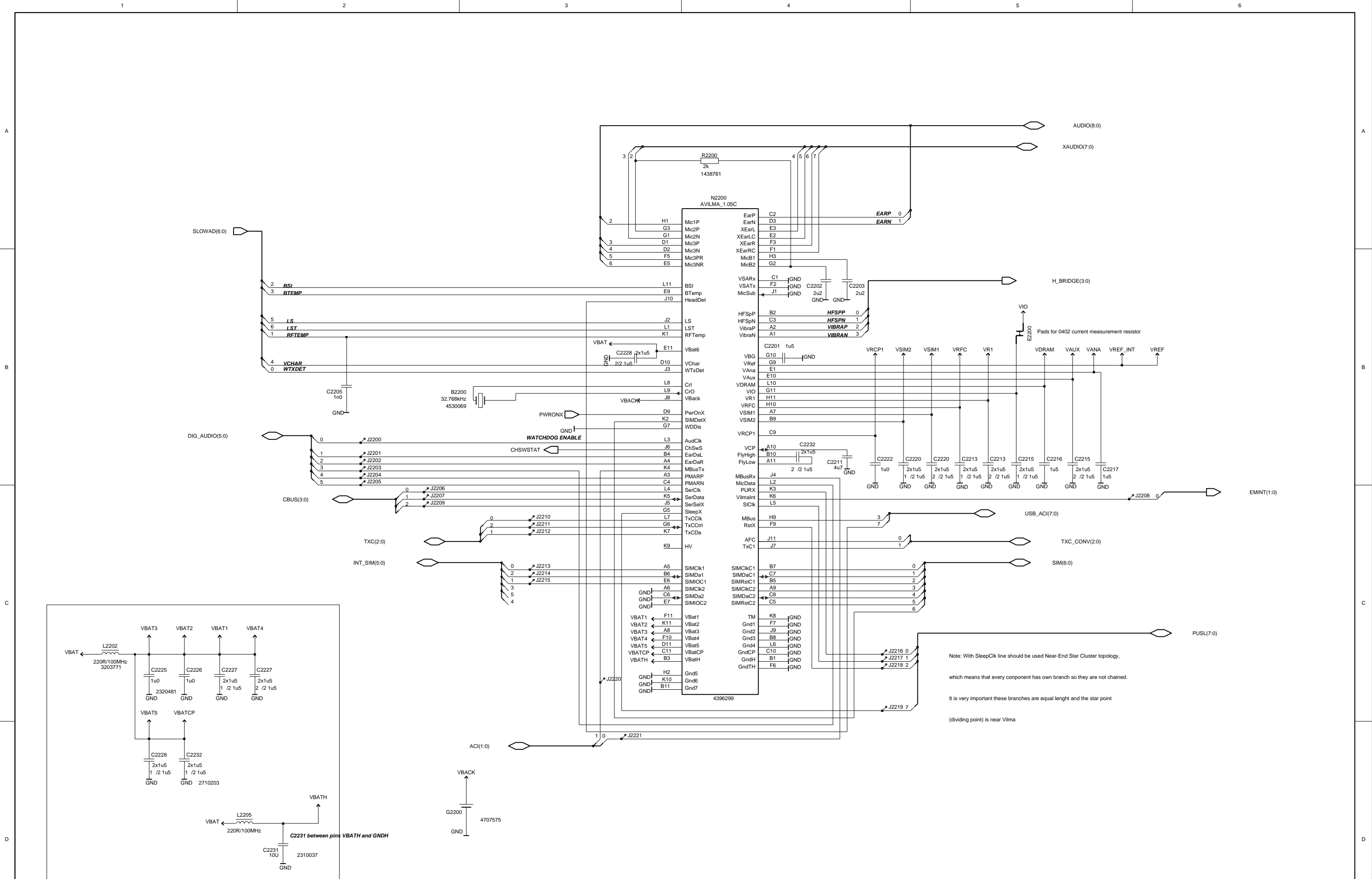
Name	RF IF	Appr	dd-mmm-yy
Assoc		Des.	15-Jan-03
File	nokia/ta_rmp/groups/max/ta-611/tastr17_hw5554_w44/cellular/mt_engine/1_3b	Dr.	HUHTAMAA 01-Nov-06
Proj	CBB5X	Sheet	xx of yy 0 (01)
		Print	Yes v. 0 Edit 20



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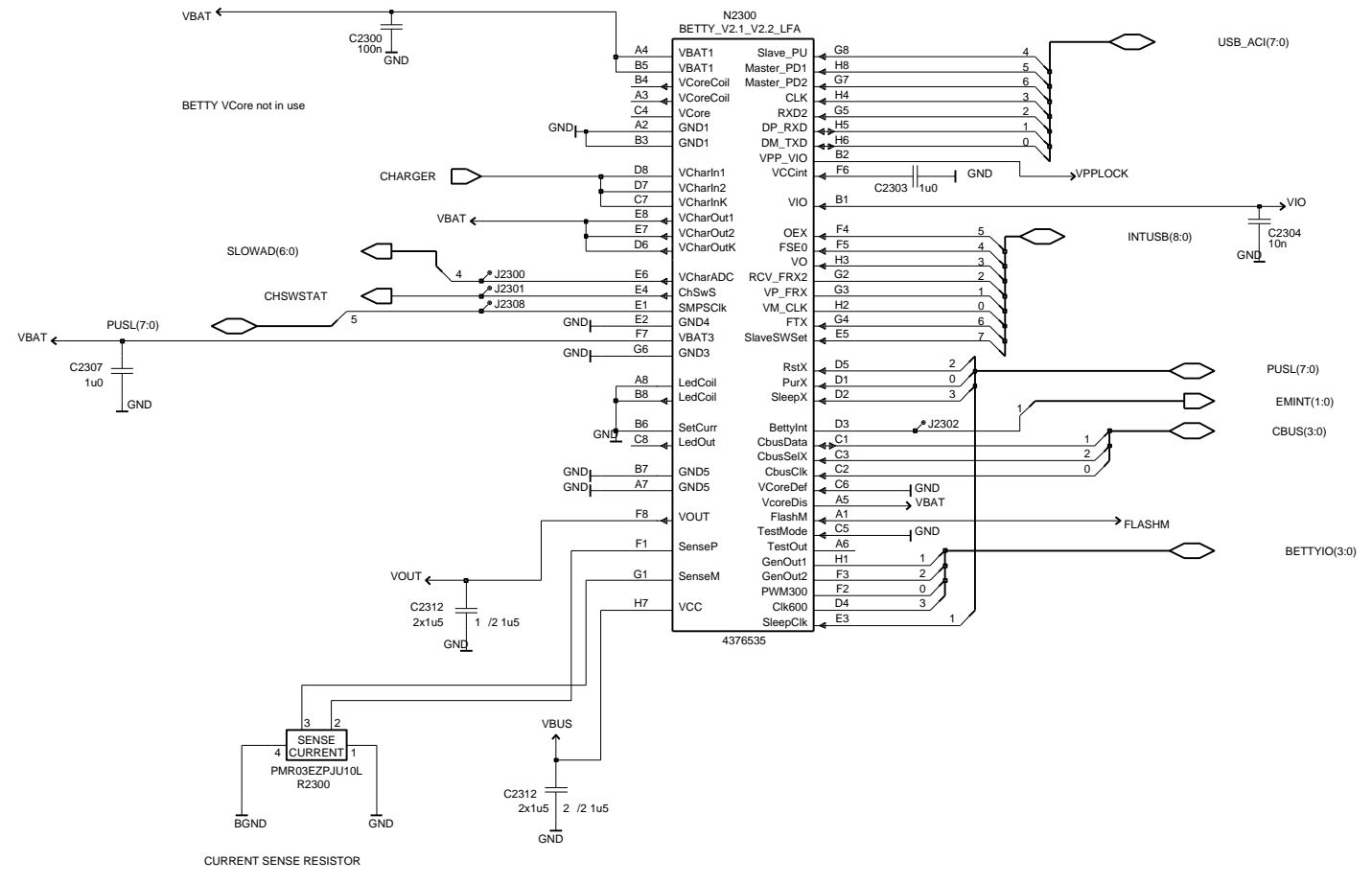


Name	Energy management	Appr	dd-mmm-yy
Assoc	BB5.4x	Des.	KATJAKNU 24-Sep-04
		Dr.	VETU 15-Jan-07
File	/nokia/sa_nmp/groups/maxi/ra-6/1nr/1nr_hw/bb54x_wk44/cellular/cmt_engine/power		Sheet xx of yy 1 (01)
Proj	BB5.4x	Draw.	Print Yes v. Edit 77



Note: With SleepCik line should be used Near-End Star Cluster topology,
 which means that every component has own branch so they are not chained.
 It is very important these branches are equal length and the star point
 (dividing point) is near Vilma

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				Assoc BB5.4x	Des. JARIM 05-Aug-04
				Tech CeBBo	Dr. VETU 15-Jan-07
				File nokia/ba_rmp/groups/max/ra-61/1r/1r_hbb54_xk44cellular/om_eng/power/vilma	Sheet xx of yy 1 (01)
				Proj BB5.4x	Print Yes v. Edit 293



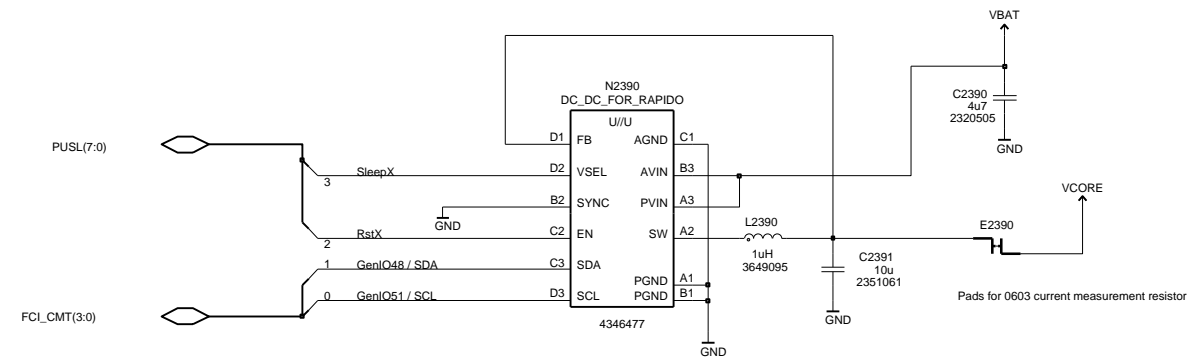
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Name	Betty	Appr	10-Aug-00
Assoc	BB5.4x	Des.	JARIM 06-May-04
		Dr.	VETU 15-Jan-07
File	nokia/ba_rmp/groups/max/ra-61/rtr/rtr_hab54x_wk44/cellular/omc_engine/power/betty		
Proj	BB5.4x	Sheet	xx of yy 1 (01)
		Print	Yes v. Edit 281

Reference schematic

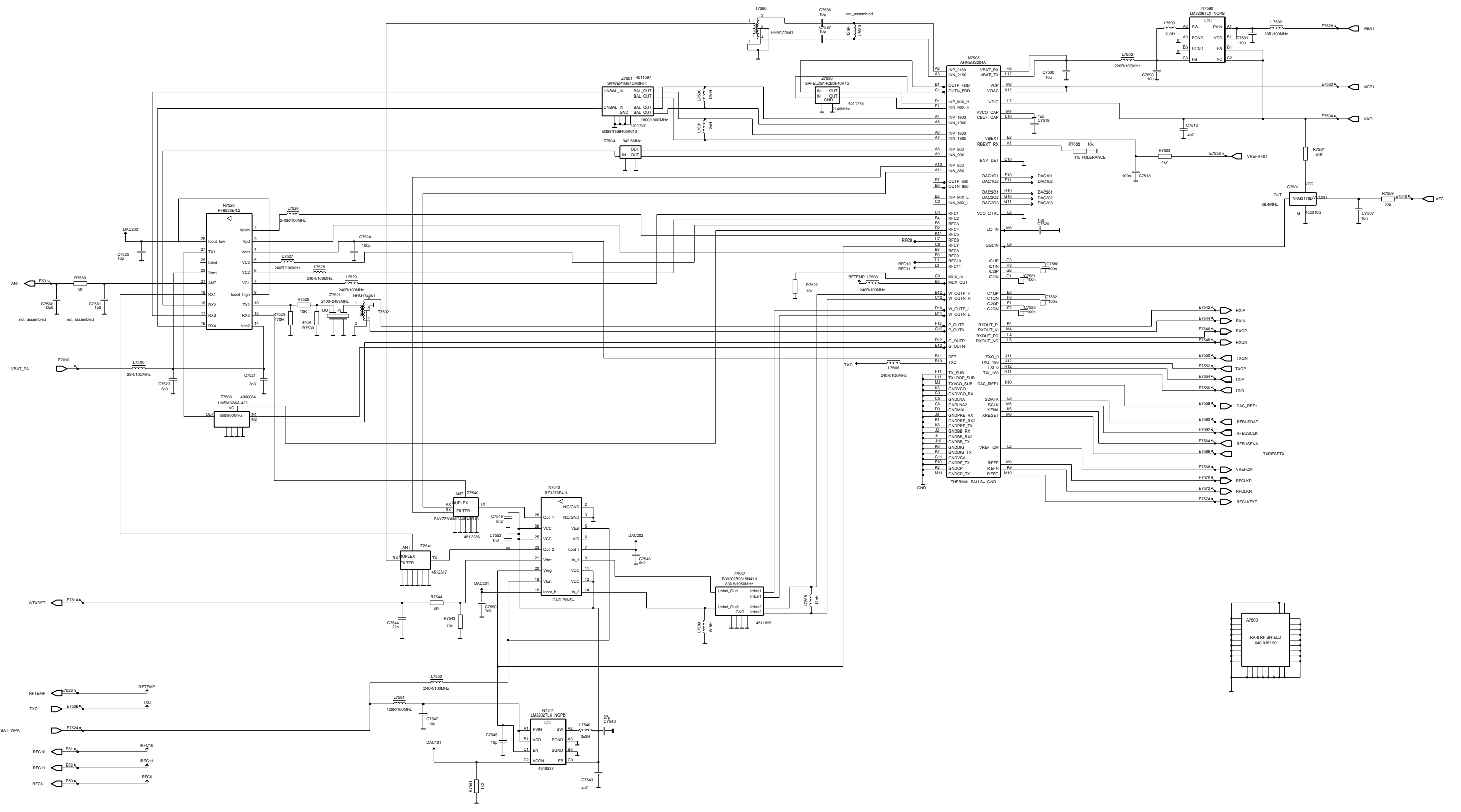
NOTE! SDA and SCL lines should include 10-47kOhm pull up resistors. Resistors value is dependent on number of I2C slaves



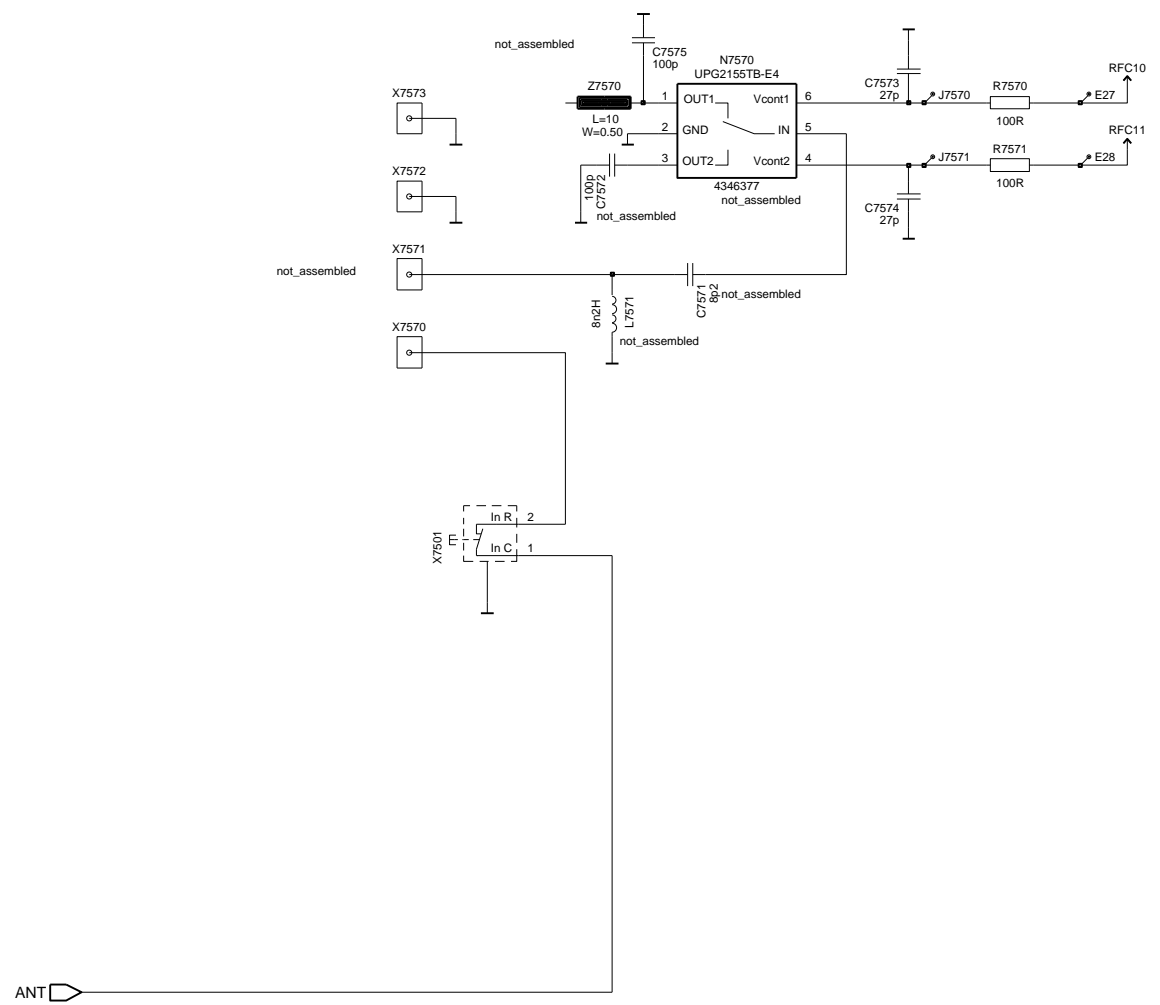
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Name	Reference schematic for barracuda		Appr	dd-mmm-yy
Assoc	BB5.4x		Des.	KATJAKNU 20-Sep-04
			Dr.	VETU 15-Jan-07
File	nokia/ba_rmp/groups/maxima-61/mr/mr_hmb54x_wk44cellular/cmt_engine/power/comp		Sheet	xx of yy 0 (01)
Proj	BB5.4x	Drw.	Print	Yes v. 0.0 Edit 23



MAXI CMT Antenna Connections



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Name	Maxi CMT Antenna Connections	Appr	dd-mmm-yy
Assoc		Des.	06-Apr-06
File	/nokia/sa_nmp/groups/mini/ra-6/1nr/1nr_hw/antenna	Dr.	RHU 18-Dec-06
Proj	Maxi	Sheet	xx of yy 0 (01)
		Print	Yes v. 0.0 Edit 15