

Nokia Customer Care

Service Manual

RM-343; RM-345; RM-420 (Nokia E66)

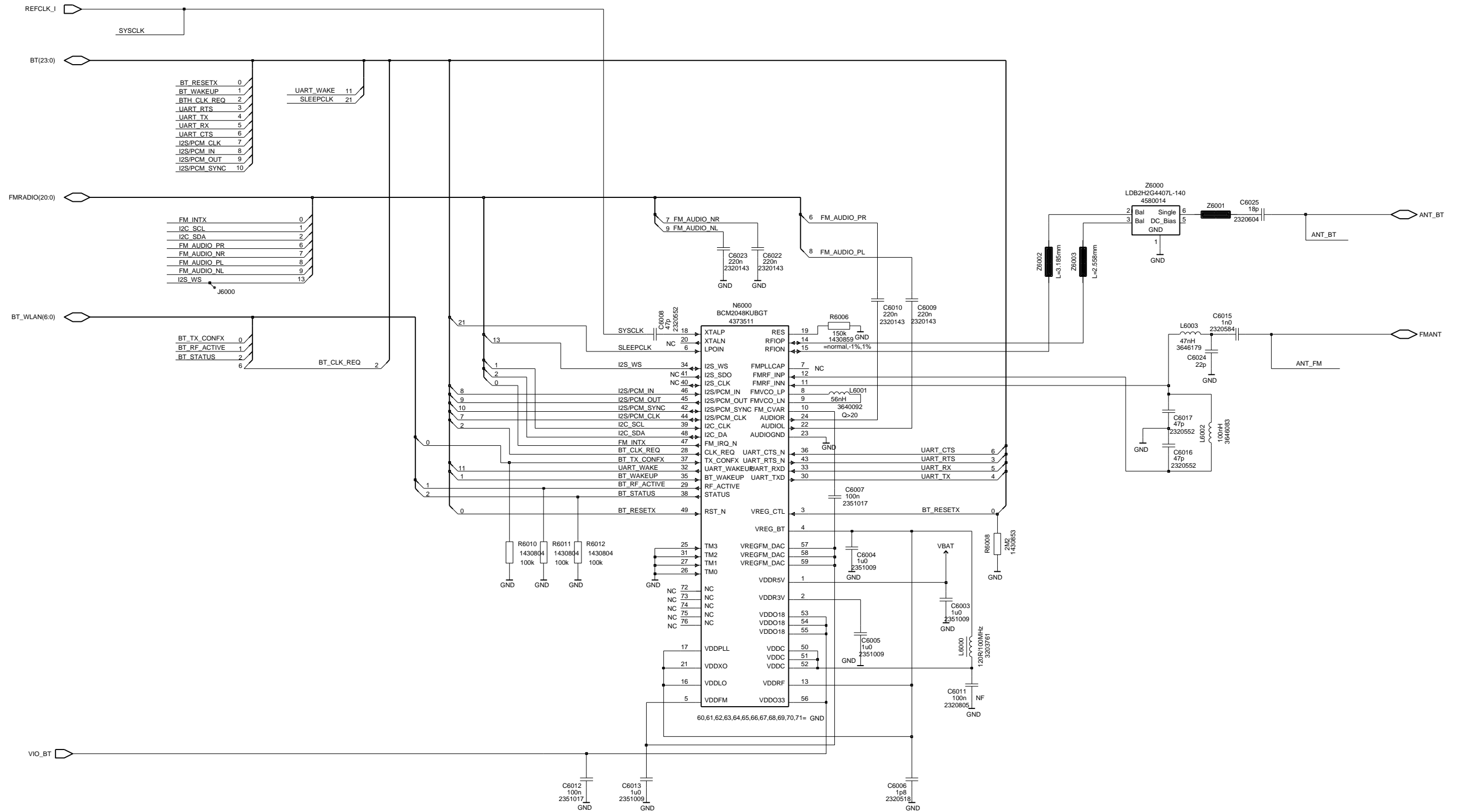
Schematics

Part No: (Issue 1)

COMPANY CONFIDENTIAL




BLUETOOTH & FM RADIO DISCRETE



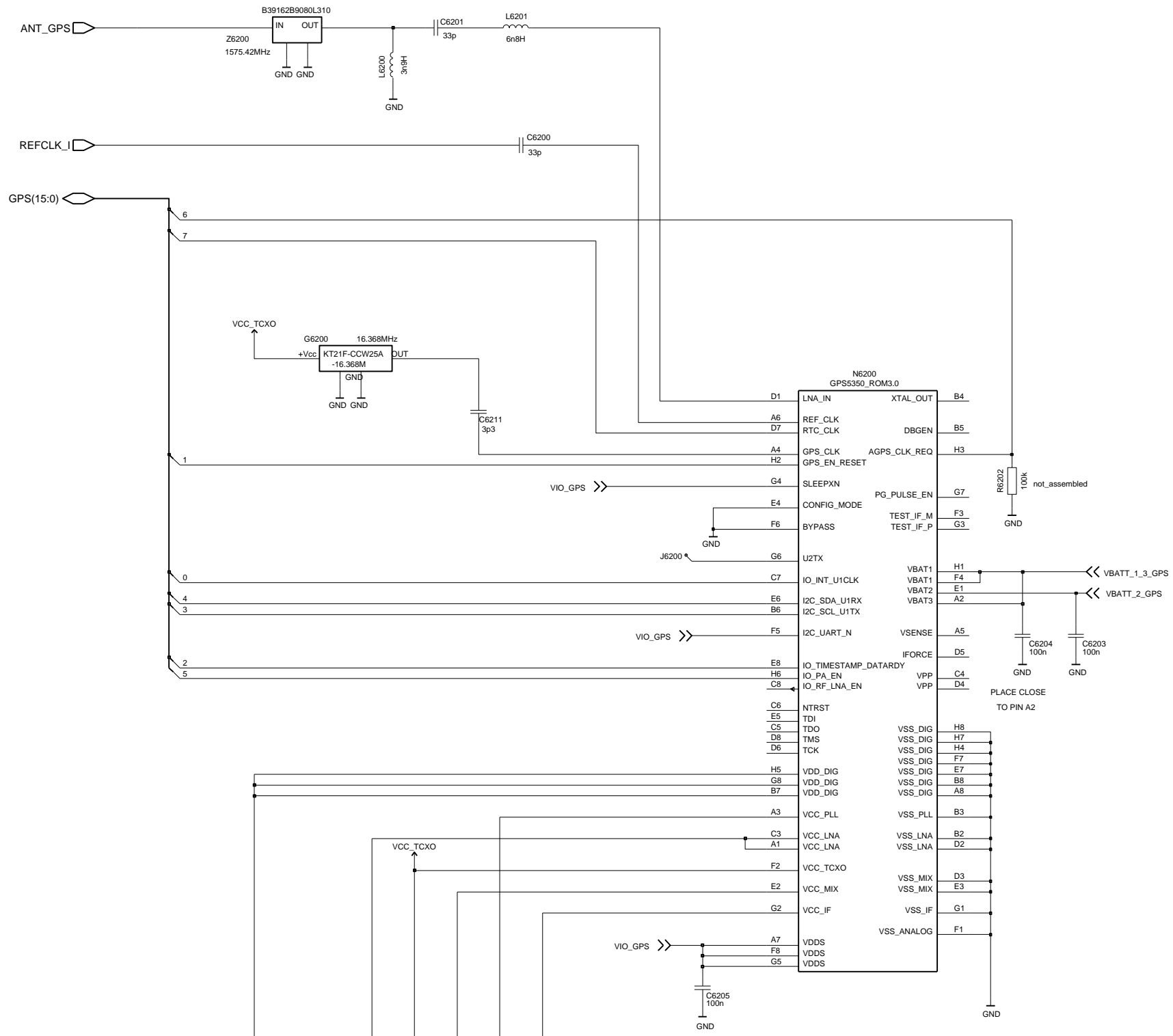
Notes.

- 1) 3k3 Pull-up Resistors are required on I2C_SCL & I2C_SDA
- 2) Additional test components fo phone wing boards are given in BTHfmrds2.0_Test Schematic
- 3) E6033 will be used in future release for 1.8V operation.
- 4) A pull down is required on the CLK_REQ signal (see release note).

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Name: BTFM RDS 2.0D (3+2+3) WLAN
 Appr: dd-mmm-yy



NOTES

- 1) TRACK INDUCTANCE FROM VDD_DIG, N6200-H5 TO C6212 MUST BE 1nH MAX.
- 2) TRACK INDUCTANCE FROM VDD_XXX, N6200 TO DECOUPLING CAPS MUST BE 1nH MAX.

MODE	CONNECT N6200 (PIN)	TO
CUSTOMERS NOT USING PA BLANKING	IO_PA_EN	GND (PREVENTS FLOATING INPUT)
MODE		

PLACE CLOSE TO PIN H5
SEE NOTE 1

SEE NOTE 2

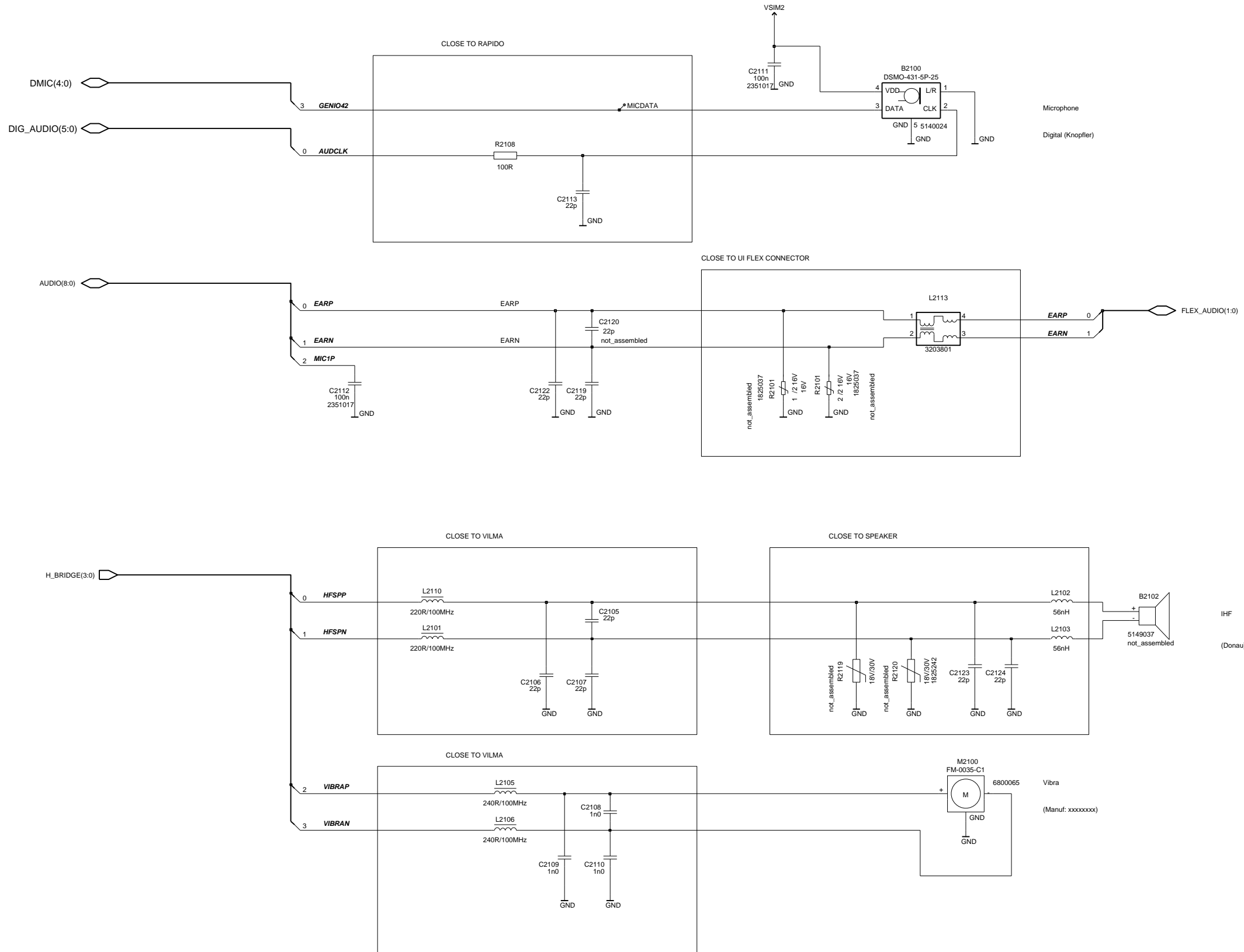
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Name SOLO COST 4.0 REFERENCE Appr dd-mmm-yy

2100-2199

- I2S_CMT_AUDIO(5:0)
- PUSL(7:0)
- FCL_CMT(3:0)
- AUDIOCTRL(5:0)
- I2C(1:0)
- XAUDIO(7:0)

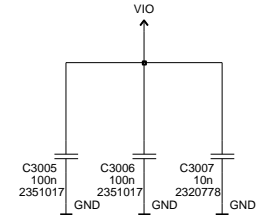
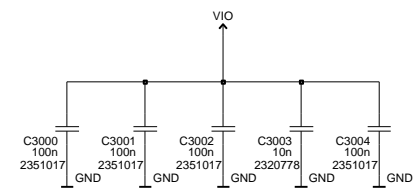


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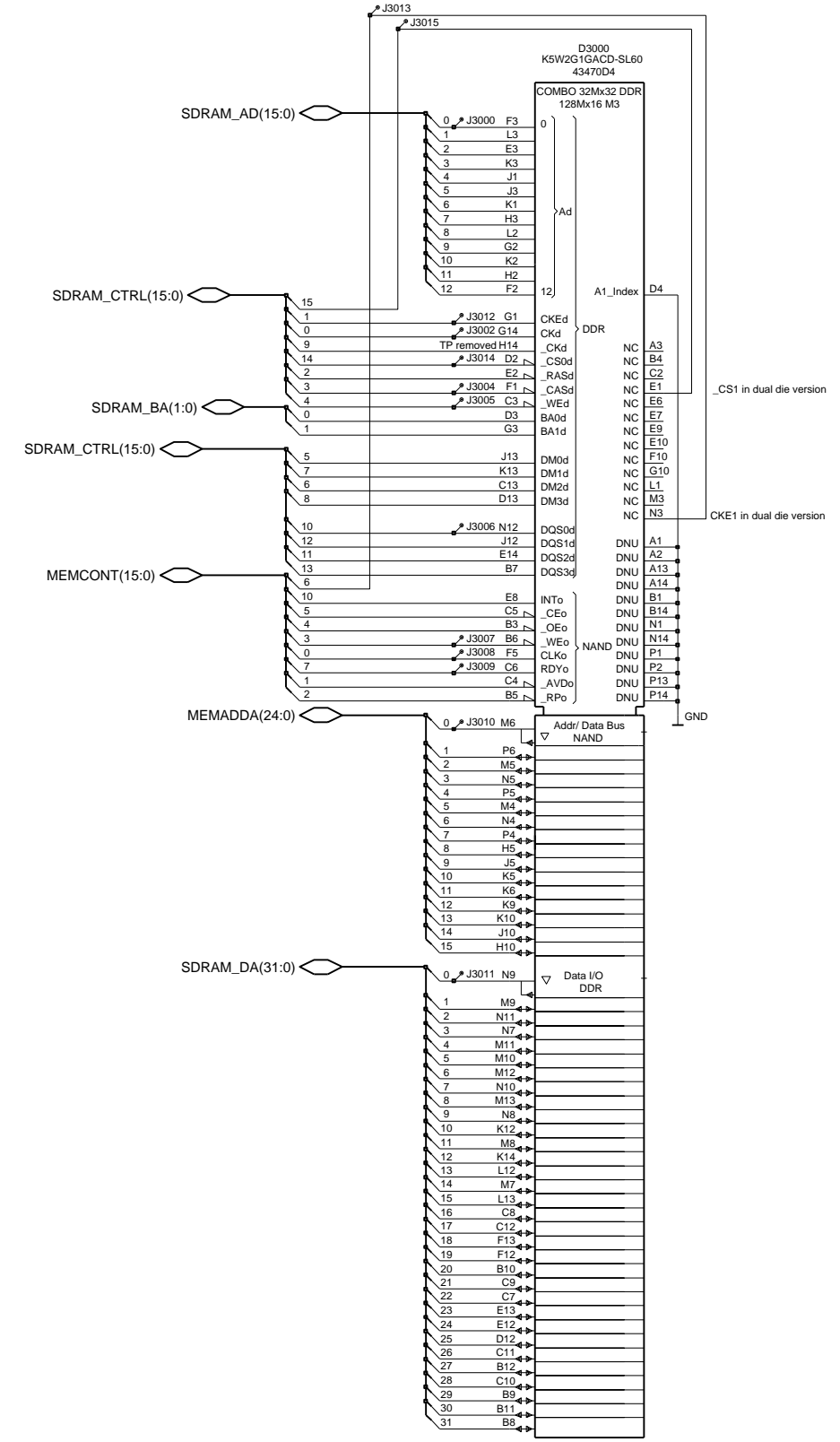


Name Audio Appr dd-mmm-yy

1Gb (DDR) + 2Gb (M3)



Filtering capacitors for VDRAM, pins D1, P11, A11, M2, G12, H1

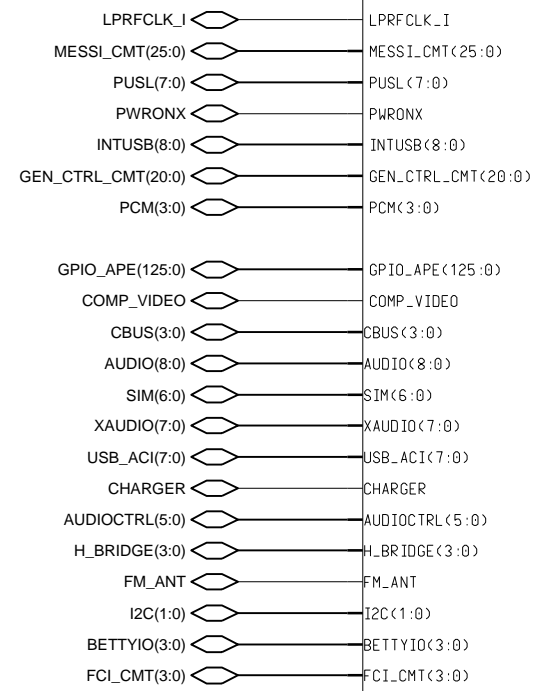


- A11,D1,G12,H1,M2,P11= VIO (VDRAM)
- A7,A8,B13,C14,G13,H13,M14,N13,P7,P8= VIO
- A5,E5= VIO
- K7,N2= VIO
- A6,A9,A12,D14,F14,J14,L14,N6,P9,P12= GND
- A10,C1,H12,J2,M1,P10= GND
- A4,B2,G5,K8,P3= GND

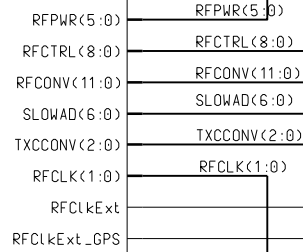
NAND(15:0)

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1000-1100



BB SYS schematic



4
5
6
7
9

RXIP
RXIN
RXOP
RXON

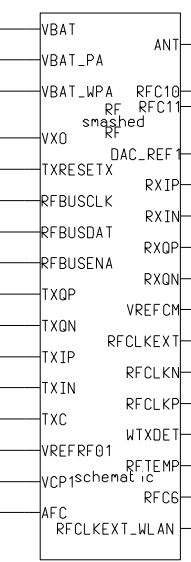
VBATRF
VCP1

0 TXresetX
6 RFBUSClk
7 RFBUSDe
8 RFBUSEn1X
2 TXOP
3 TXON
0 TXIP
1 TXIN

1 AUXDAC1
0 AFCCOUT

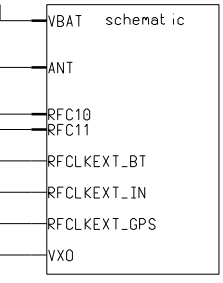
1 RFTMP
0 TXPWRDET

0 IREF1



RF

RF External RFDIY



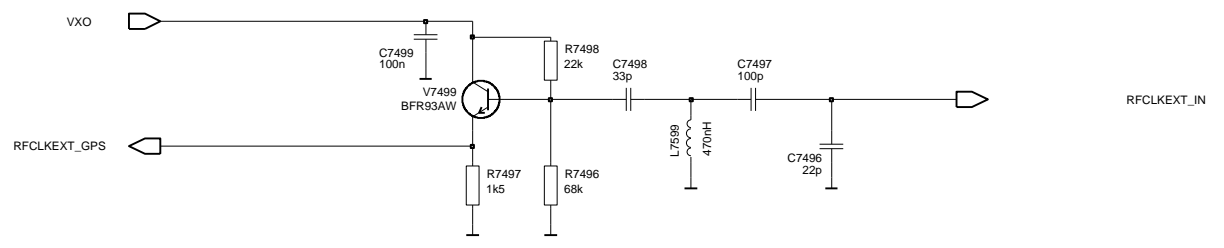
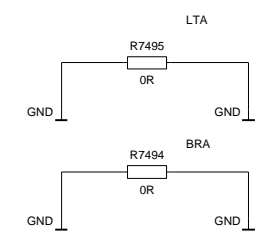
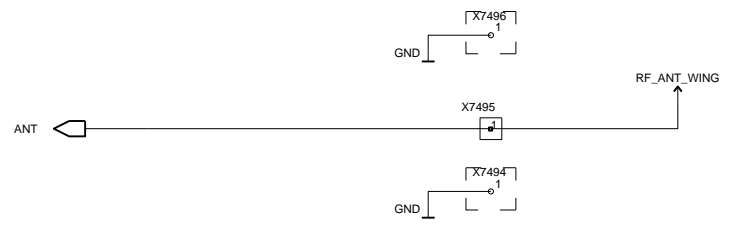
BB SHEET NAME	REF AREA
top level (2av)	1000-1100
cellular/cmt_if/camera	1500-1999
cellular/cmt_if/conn/sys_conn	2000-2059
cellular/cmt_if/conn/prod_test_pattern	2060-2069
cellular/cmt_if/conn/battery_conn	2070-2099
cellular/cmt_if/audio	2100-2199
cellular/cmt_engine/power/vilma	2200-2299
cellular/cmt_engine/power/betty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

1



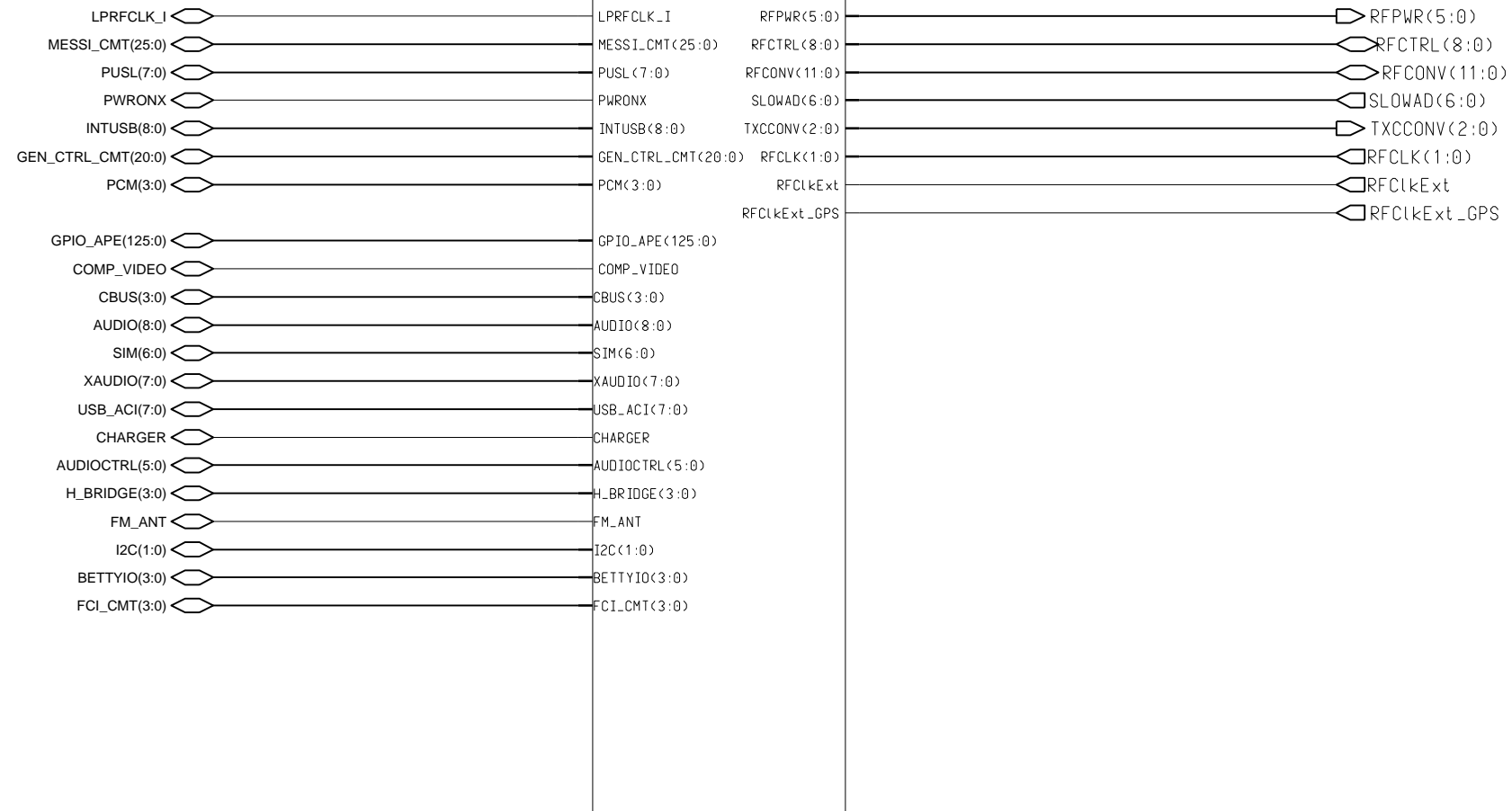
- RFCLKEXT_BT
- VBAT
- RFC10
- RFC11

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Name	RF Product Specific Sheet	Appr	dd-mmm-yy
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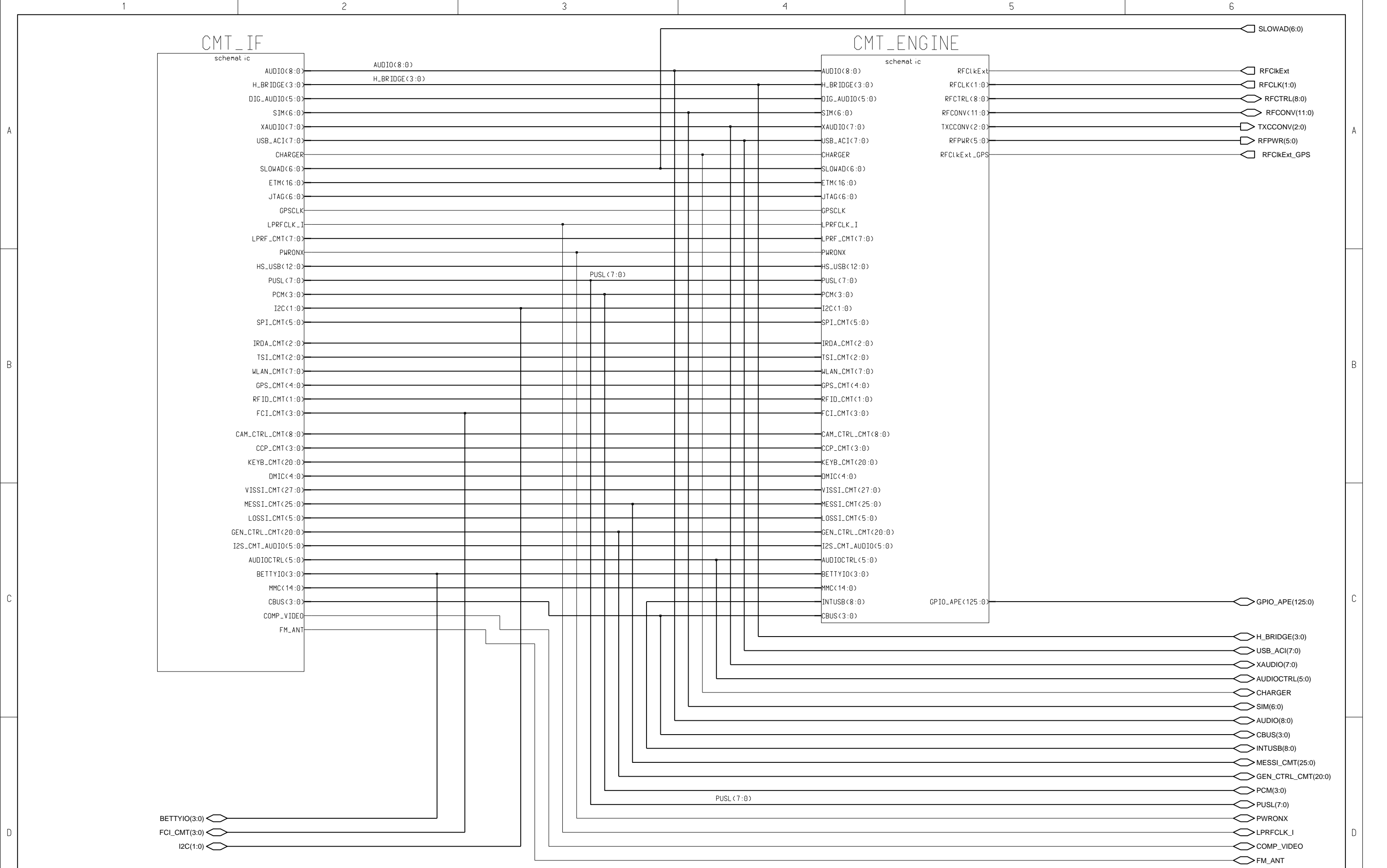
CELLULAR
schematic



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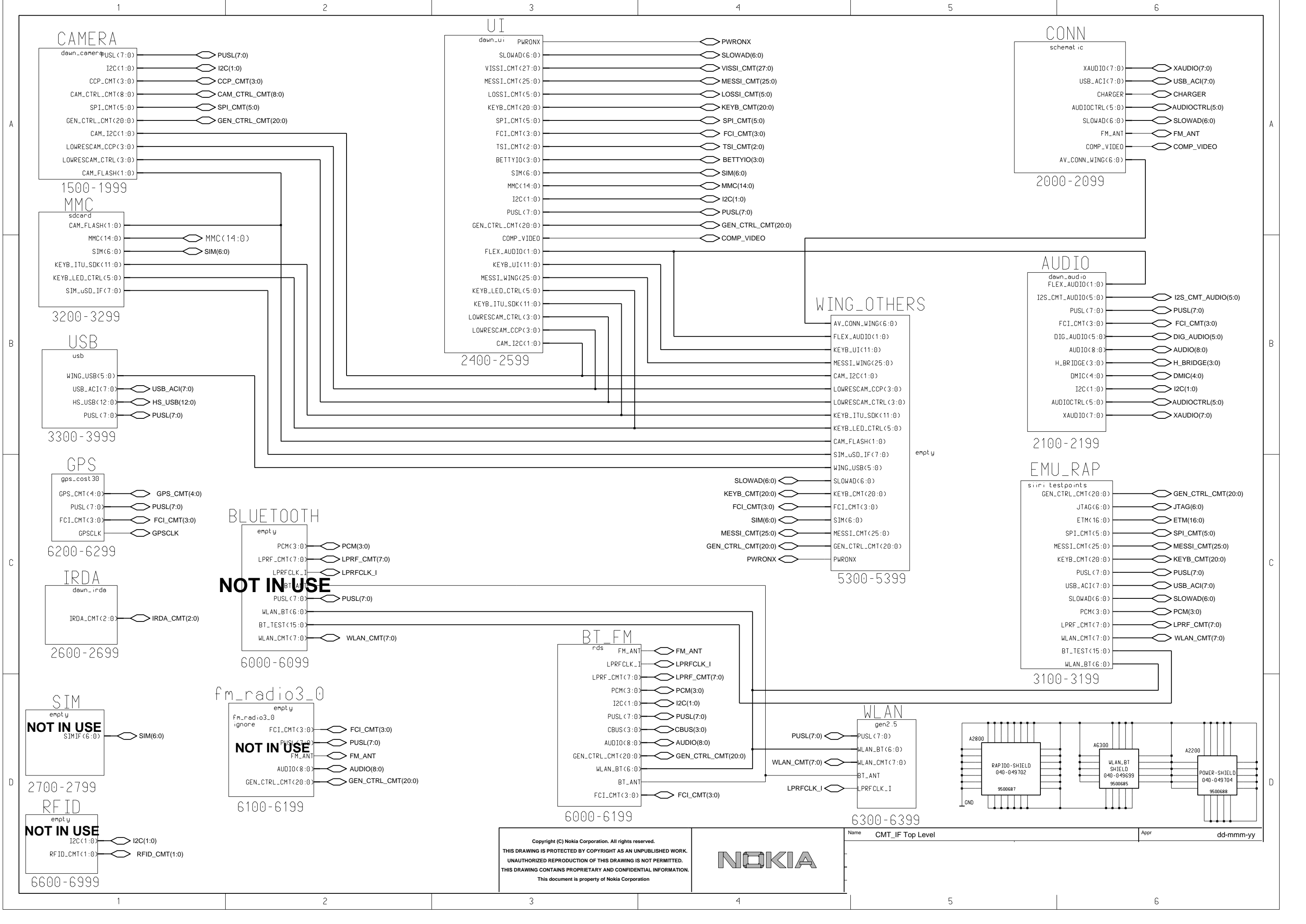
Name BB Top Level Appr dd-mmm-yy



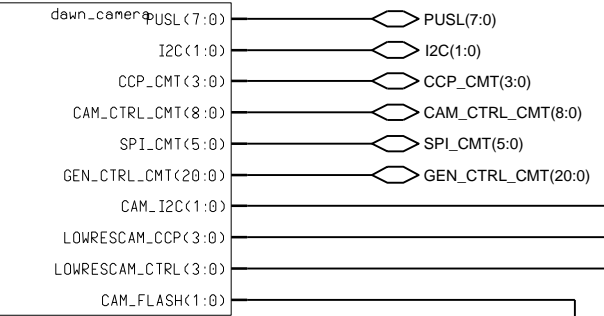
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Name Cellular Top Level Appr dd-mmm-yy

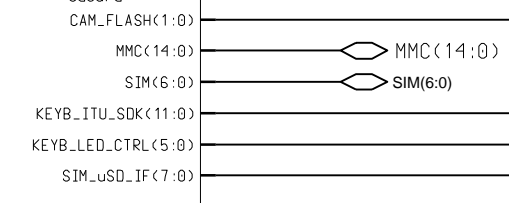


CAMERA



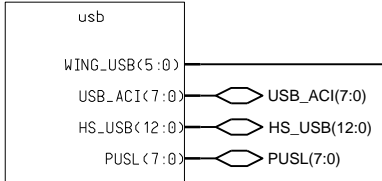
1500-1999

MMC



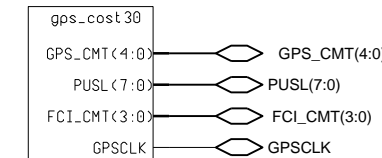
3200-3299

USB



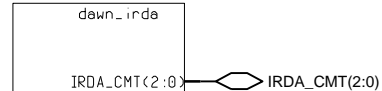
3300-3999

GPS



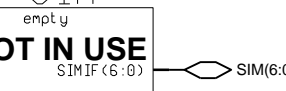
6200-6299

IRDA



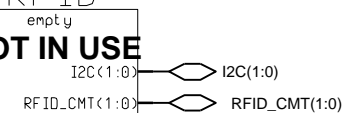
2600-2699

SIM



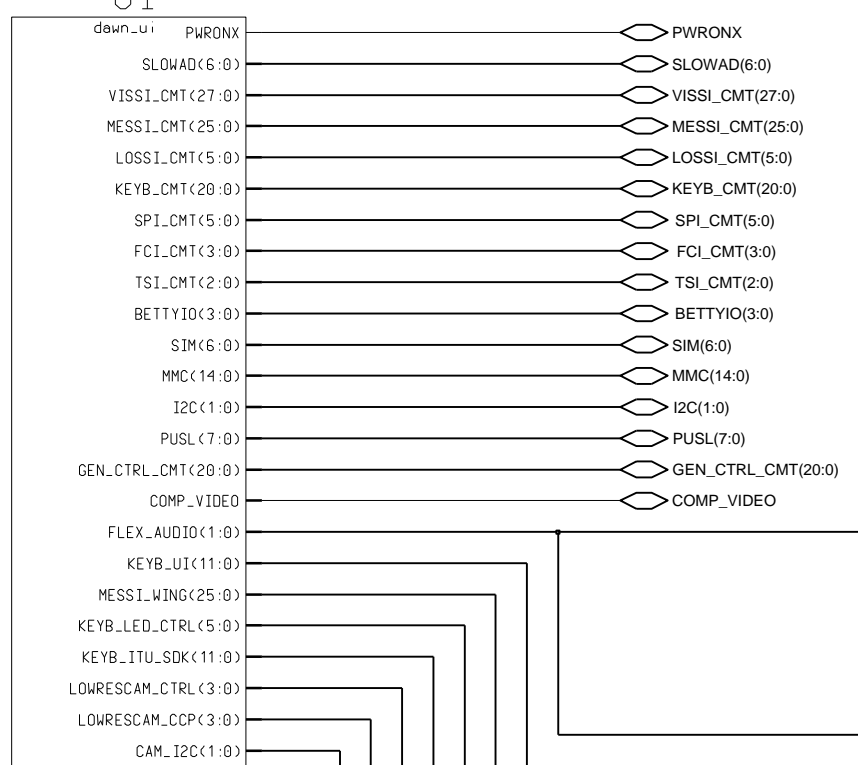
2700-2799

RFID



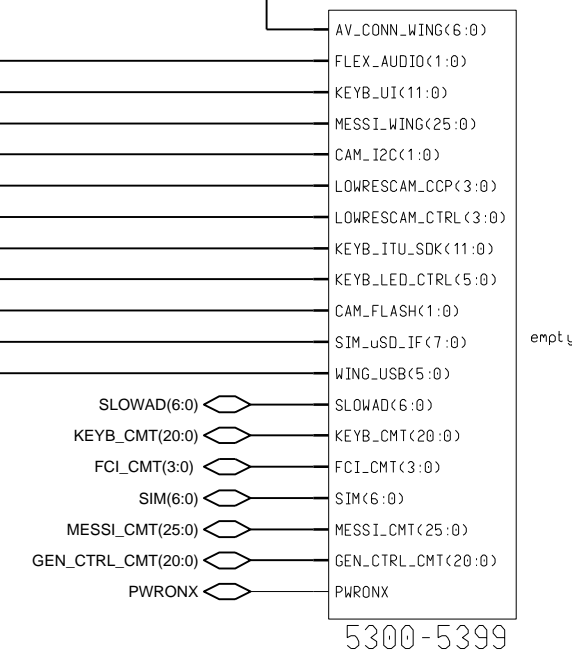
6600-6999

UI



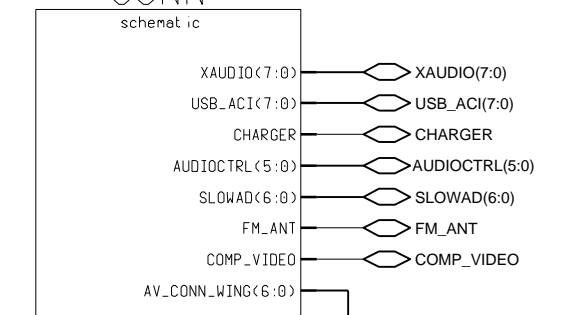
2400-2599

WING_OTHERS



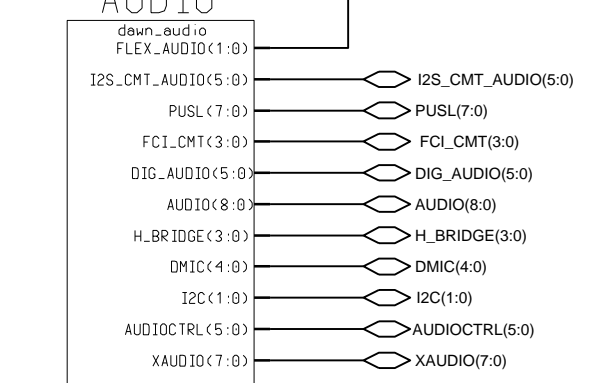
5300-5399

CONN



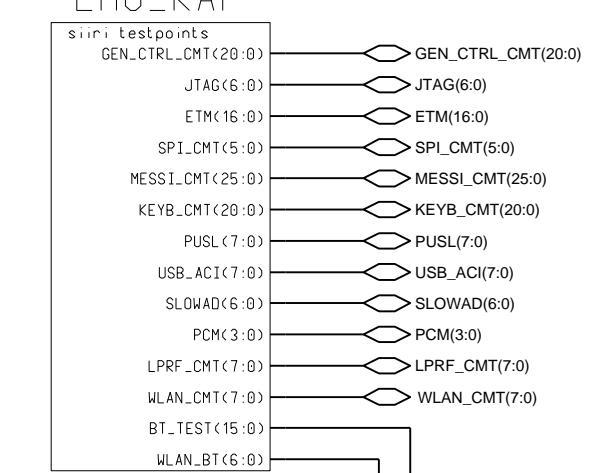
2000-2099

AUDIO



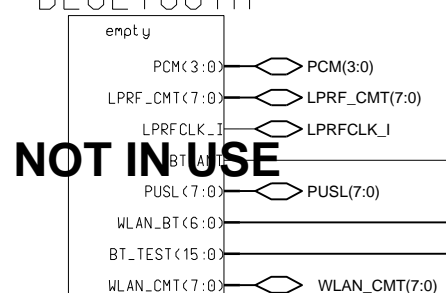
2100-2199

EMU_RAP



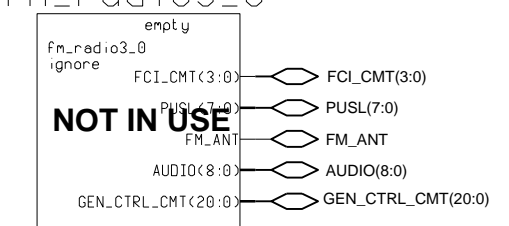
3100-3199

BLUETOOTH



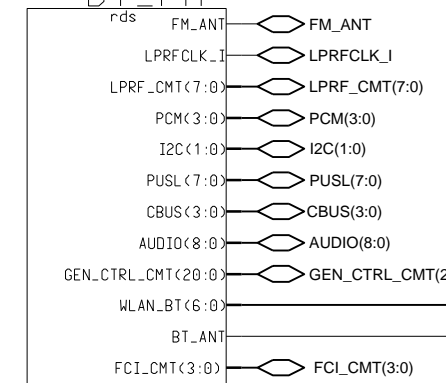
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fm_radio3_0



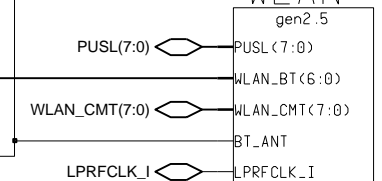
6100-6199

BT_FM

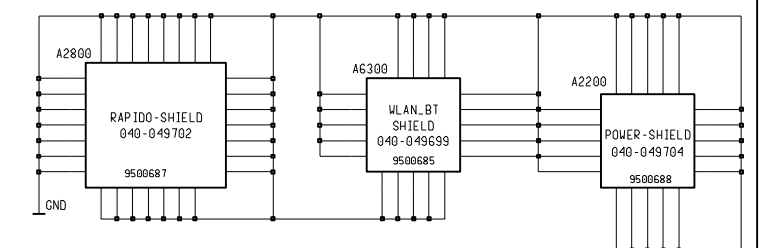


6000-6199

WLAN



6300-6399



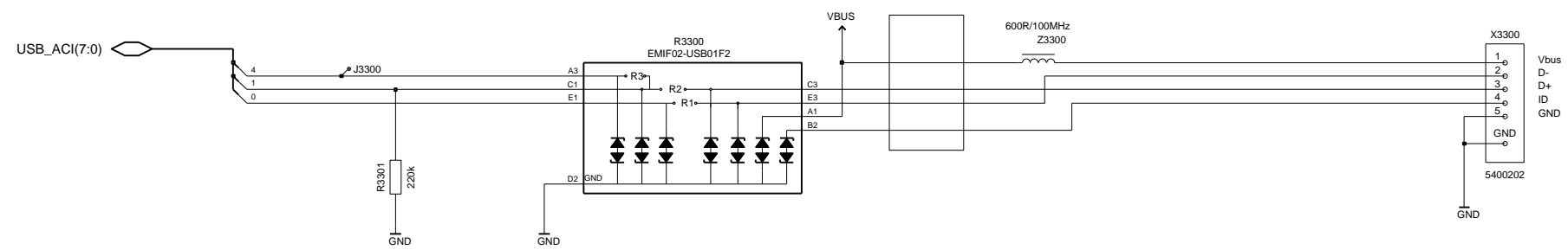
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Name CMT_IF Top Level Appr dd-mmm-yy

3300-3999

- HS_USB(12:0)
- PUSL(7:0)
- WING_USB(5:0)

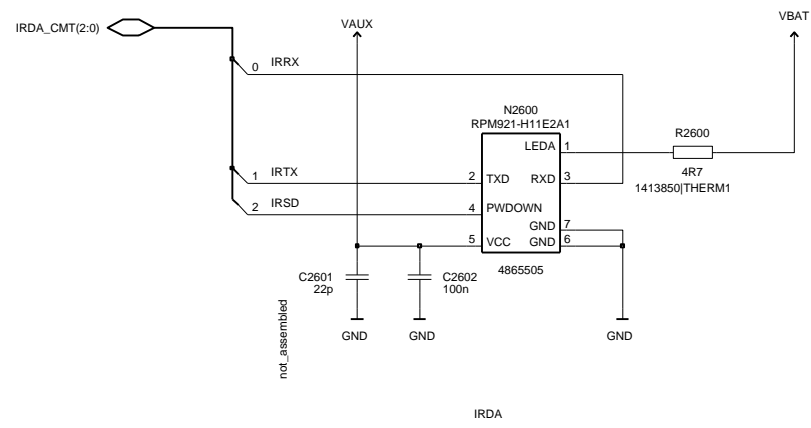


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Name Standard USB Appr dd-mmm-yy

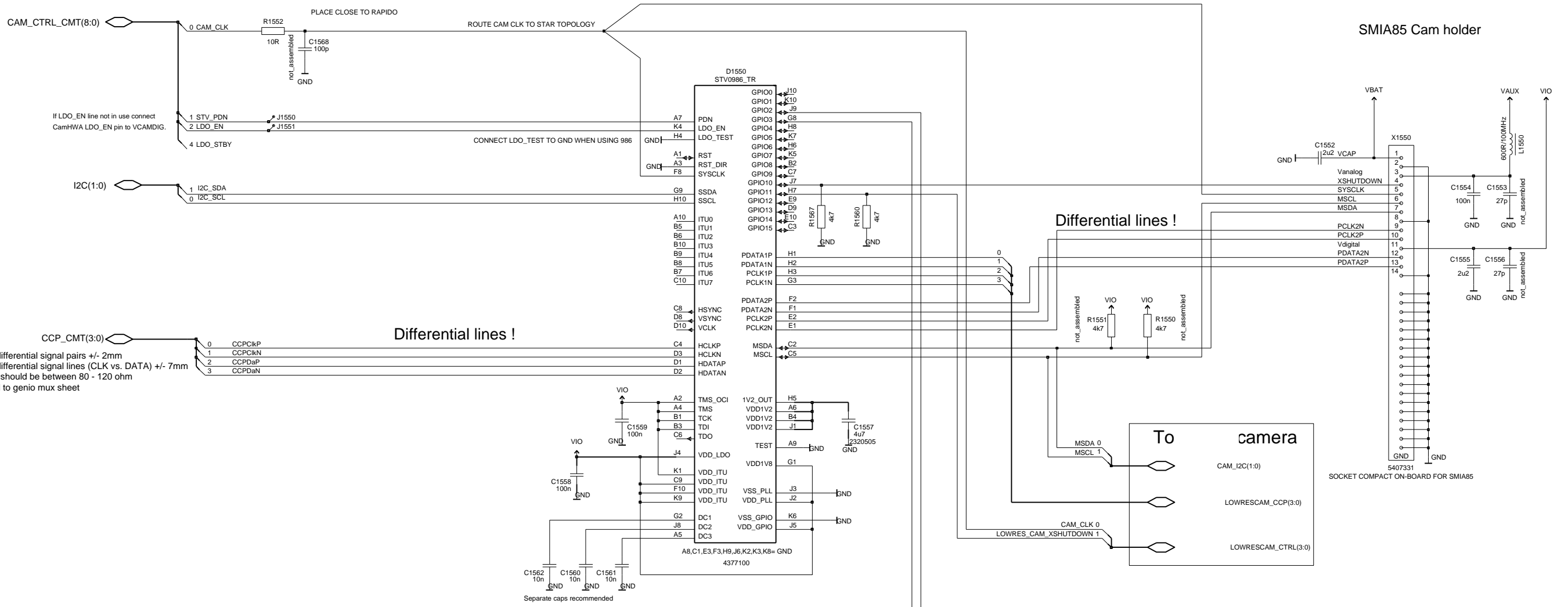
2600-2699



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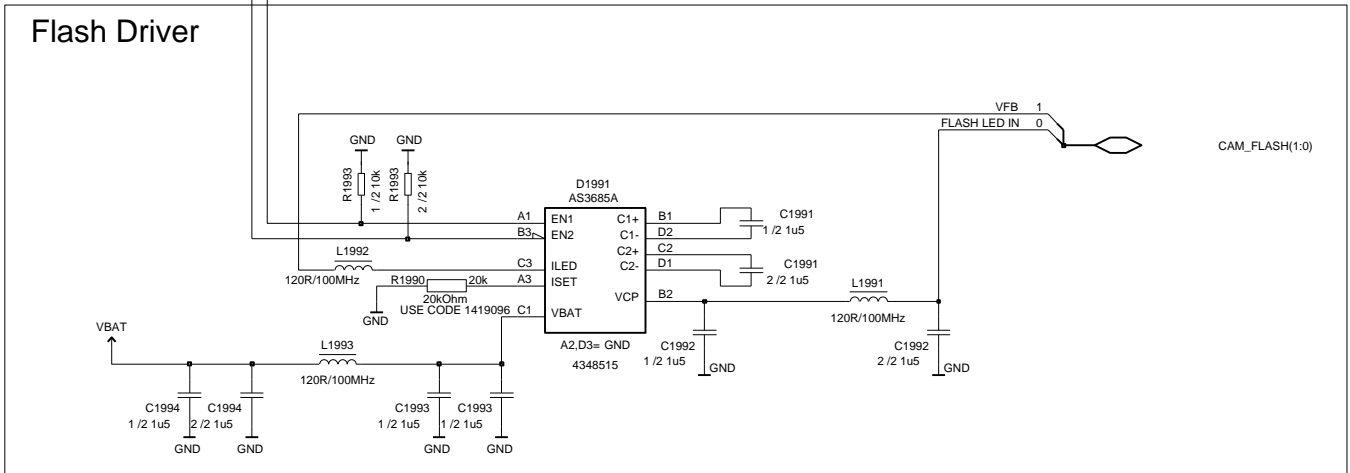


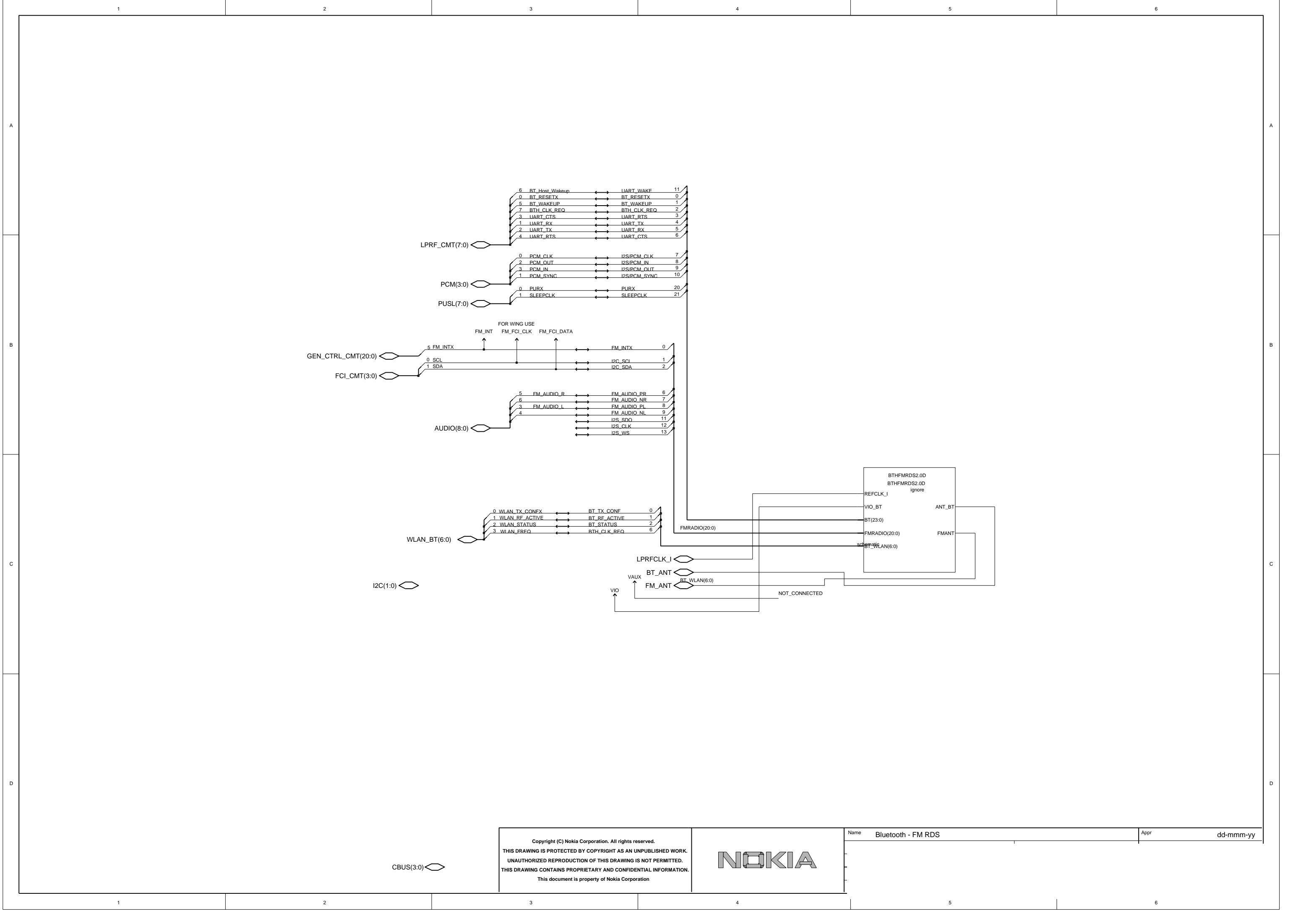
Name IRDA Appr dd-mmm-yy



Length difference between differential signal pairs +/- 2mm
 Length difference between differential signal lines (CLK vs. DATA) +/- 7mm
 Differential lines impedance should be between 80 - 120 ohm
 Termination resistors placed to genio mux sheet

- CAM_CTRL_CMT(8:0)
- PUSL(7:0)
- SPL_CMT(5:0)
- GEN_CTRL_CMT(20:0)





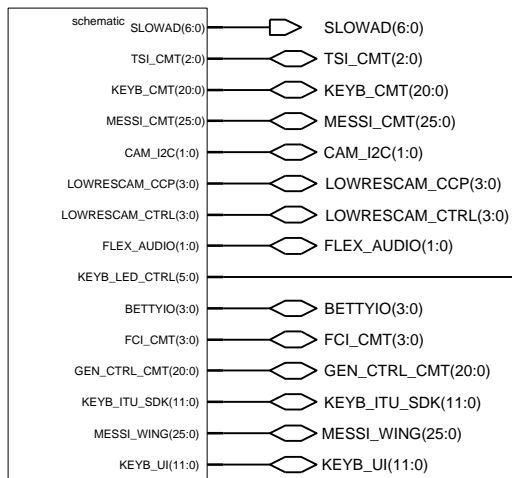
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Name Bluetooth - FM RDS Appr dd-mmm-yy

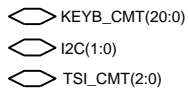
CBUS(3:0)

DISPLAY_KEYBOARD

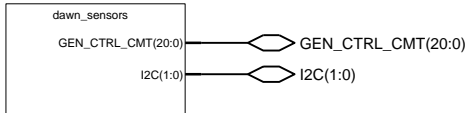


2400-2499

2450-2499

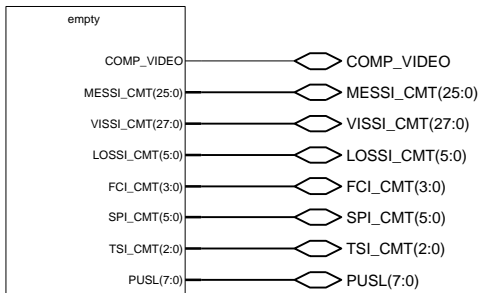


SENSORS



2550-2599

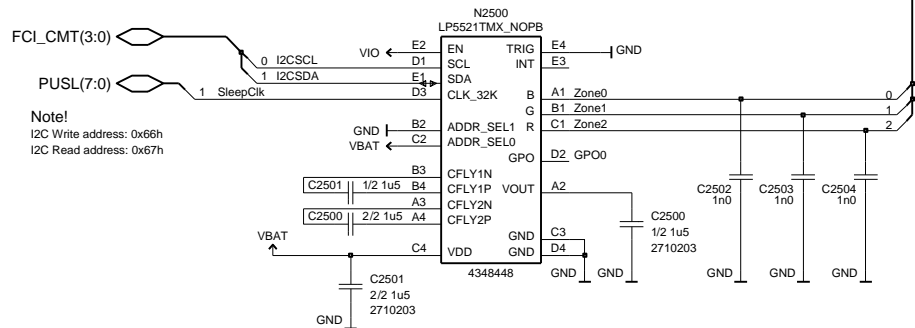
DISPLAY



2400-2449

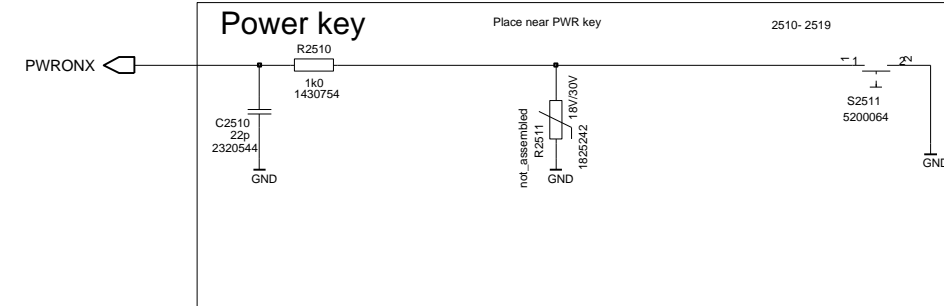
KEYB_LED_CTRL(5:0) KEYB_LED_CTRL(5:0)

Side and navi key backlight

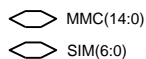
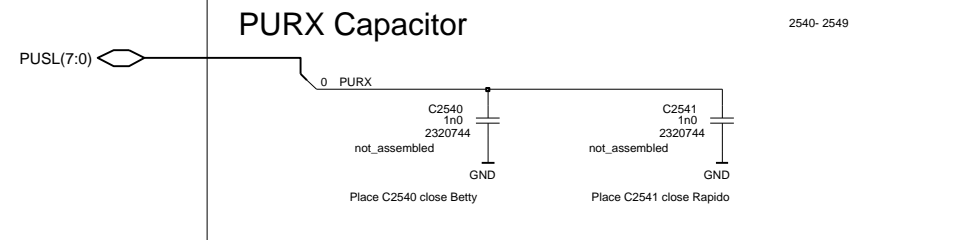


Note!
I2C Write address: 0x66h
I2C Read address: 0x67h

Power key



PURX Capacitor



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Name UI parts Appr dd-mmm-yy

2400-2449

A

A

B


B

C


C


D


D

MESSI_CMT(25:0) 


 PUSL(7:0)


 VISSL_CMT(27:0)

 LOSSI_CMT(5:0)

 SPI_CMT(5:0)

 FCI_CMT(3:0)

 TSI_CMT(2:0)

 COMP_VIDEO

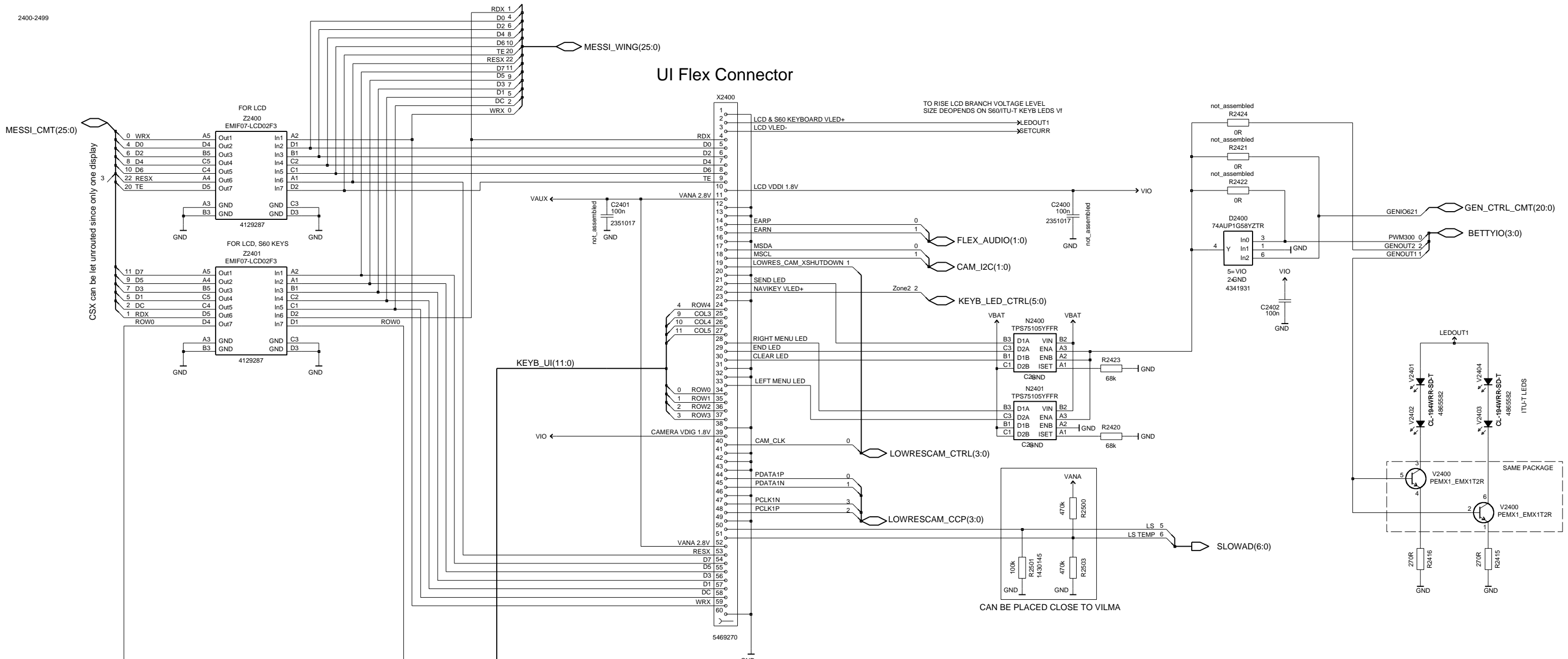
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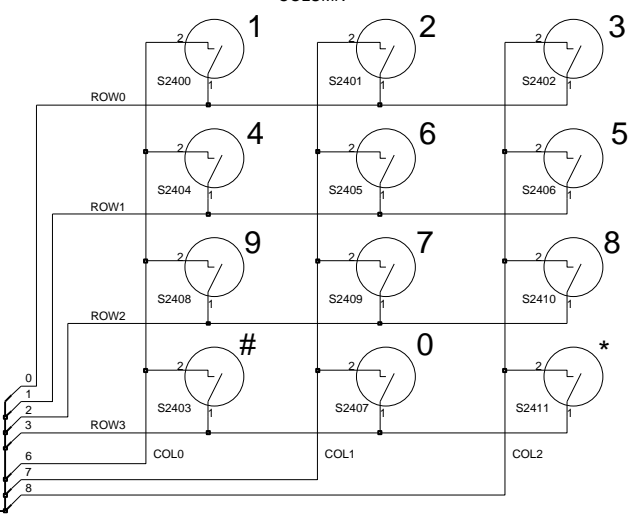
Name Display

Appr dd-mmm-yy

UI Flex Connector

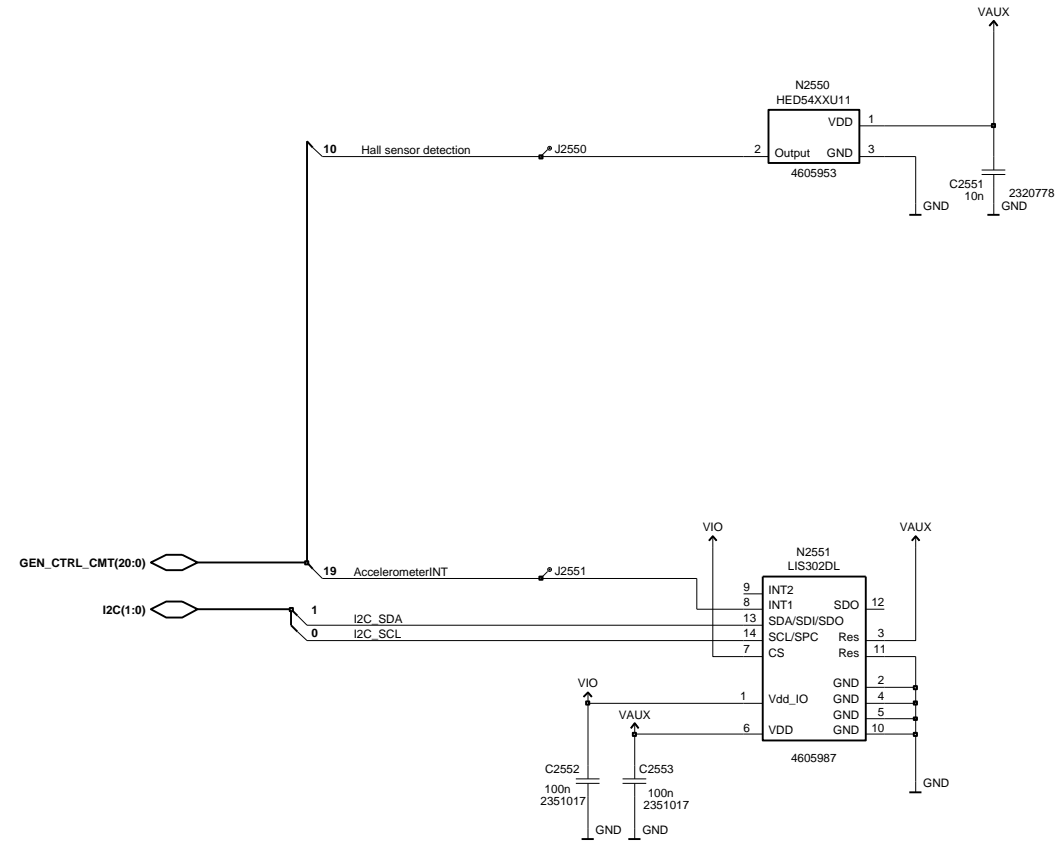


ROW
Row/column order must be as shown in figure to minimize interference from RF and other sources to keyboard



FCI_CMT(3:0)
TSL_CMT(2:0)

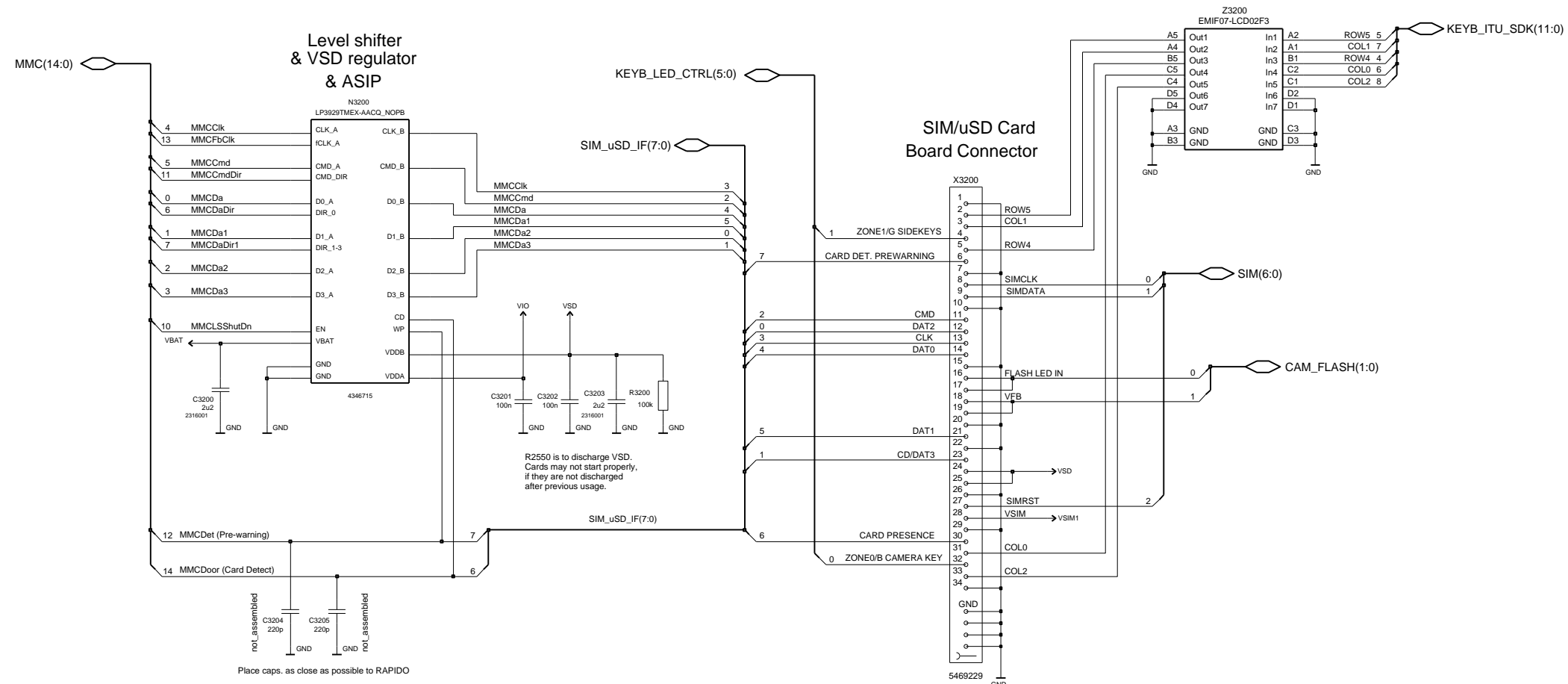
2550-2599



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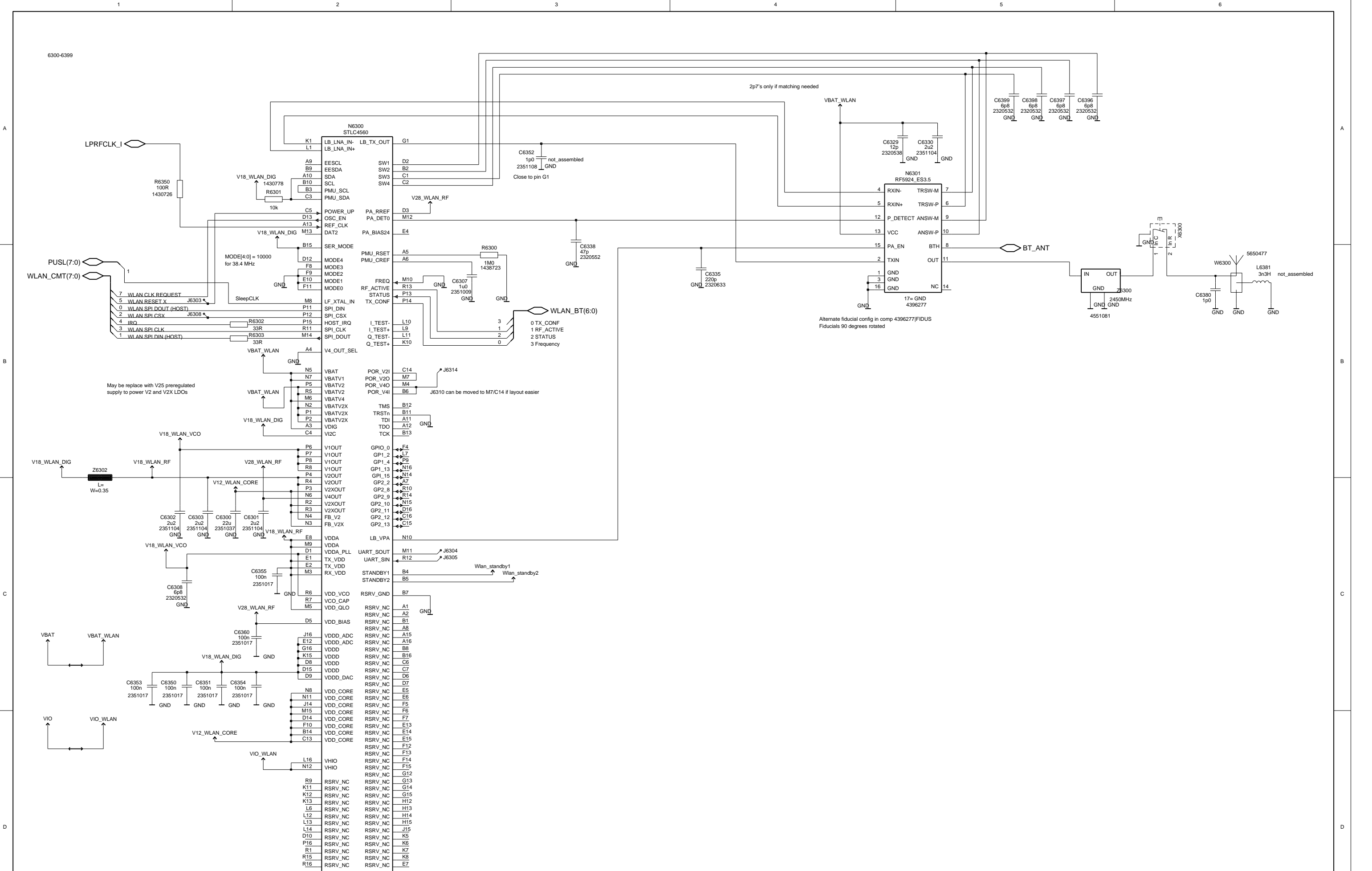
Name Sensors Appr dd-mmm-yy



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Name SD card Appr dd-mmm-yy



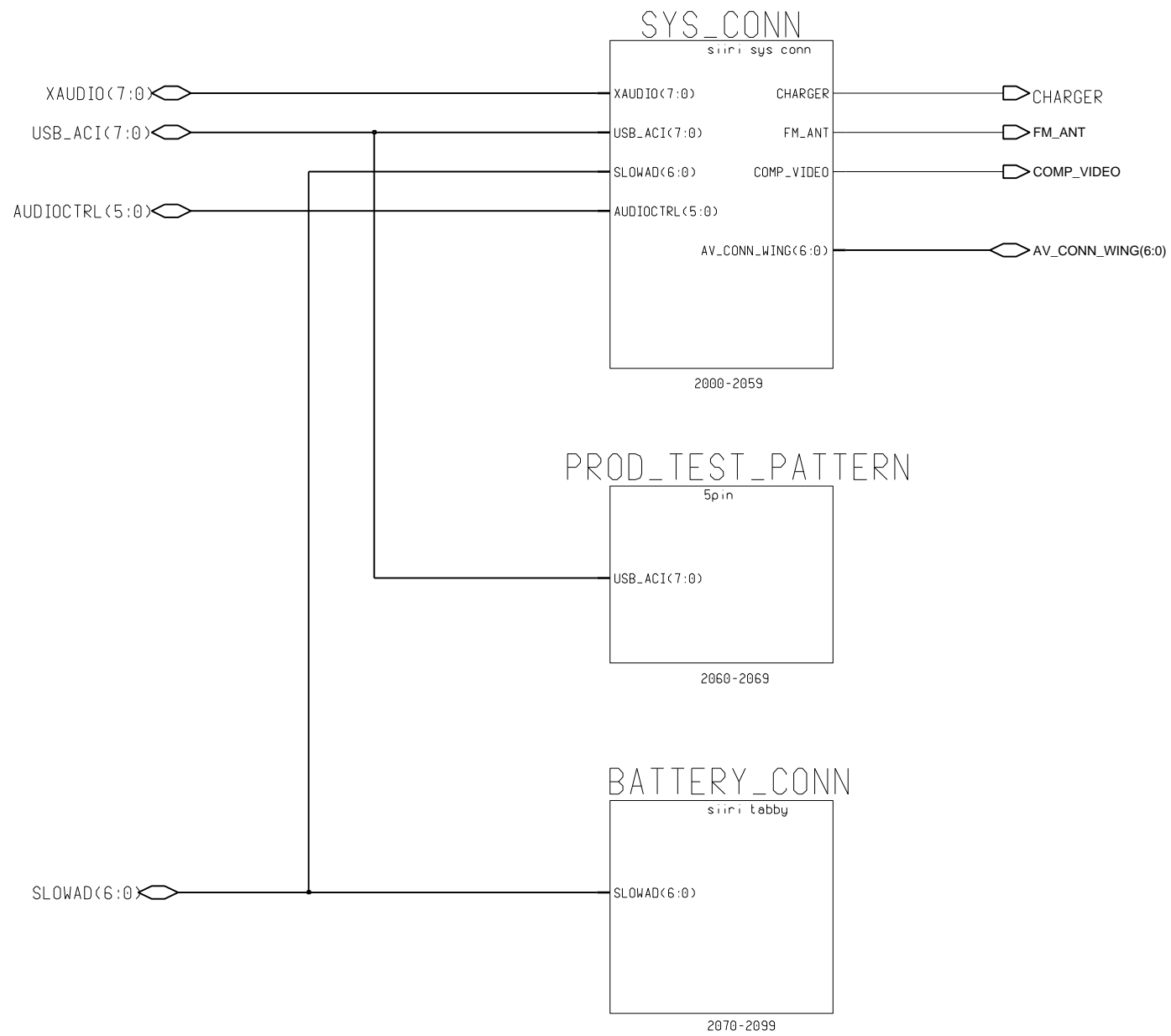
- BT_ANT
- WLAN_BT(6:0)
- PUSL(7:0)

GND PINS= GND
4390002

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Name WLAN Appr dd-mmm-yy



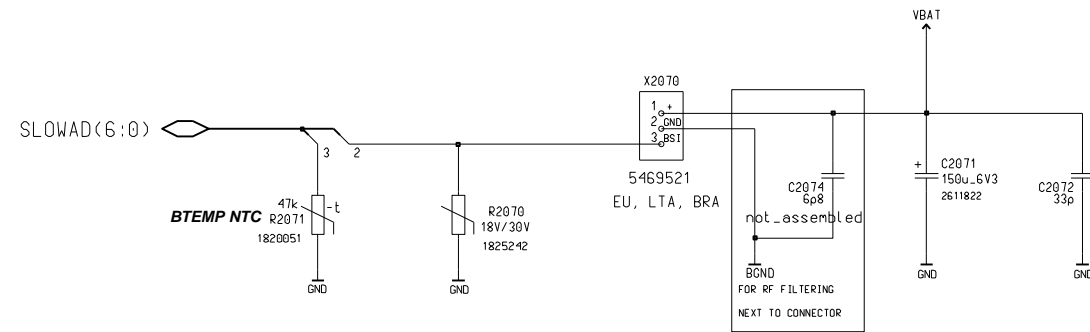
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Name System and battery connector

Appr 10-Aug-00

2070-2099



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NOKIA

Name Battery Connector

Appr 10-Aug-00

1

2

3

4

5

6

A

A

B

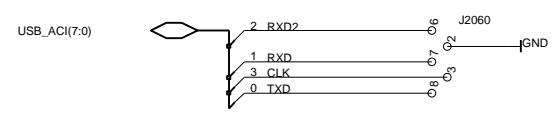
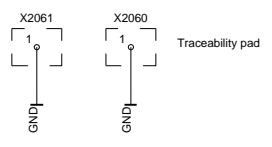
B

C

C

D

D



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Name	Production test pad	Appr	10-Aug-00
Assy			
File			
Proj			

1

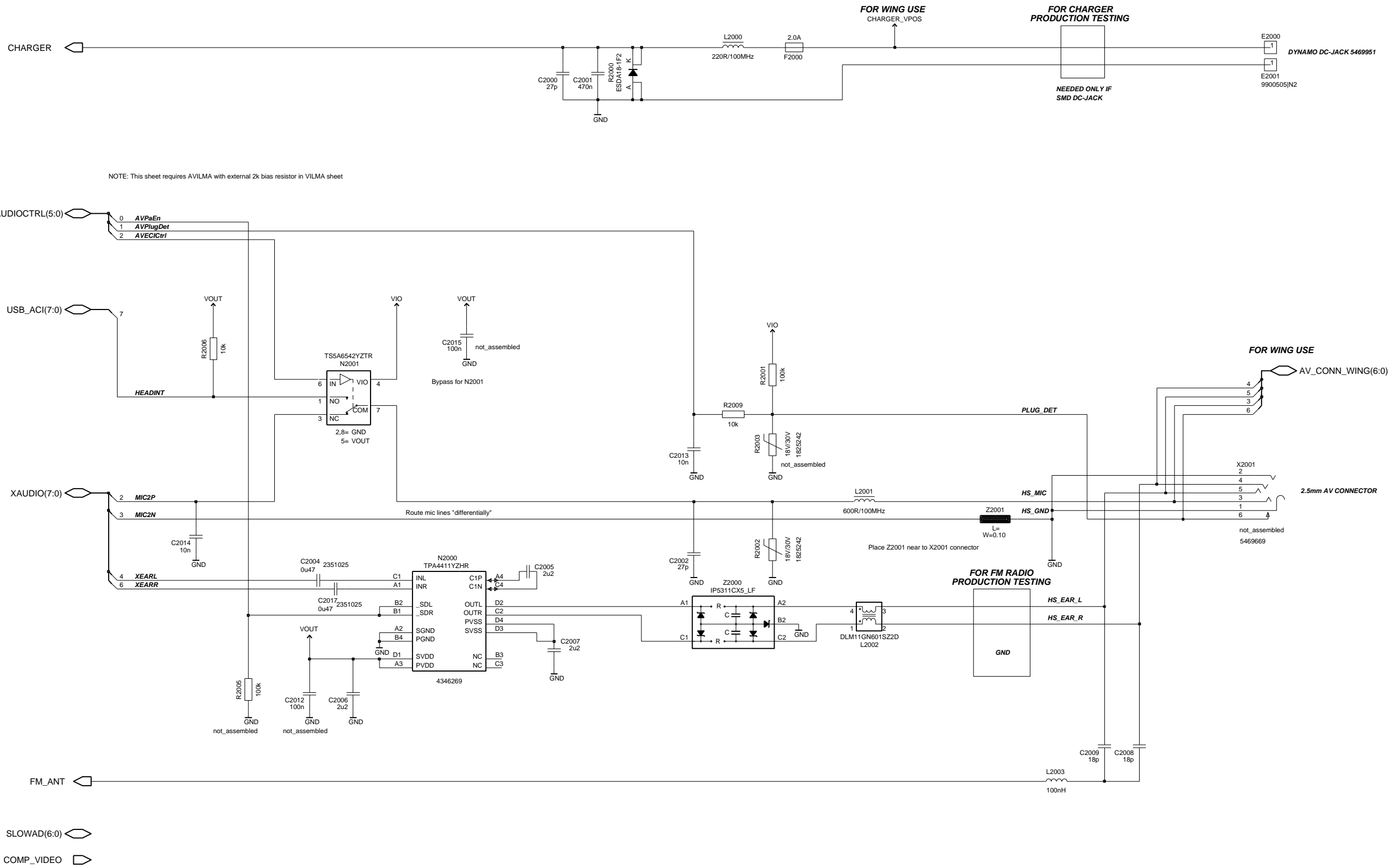
2

3

4

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6

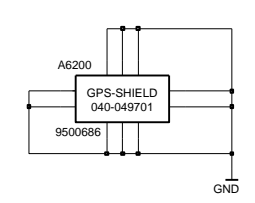
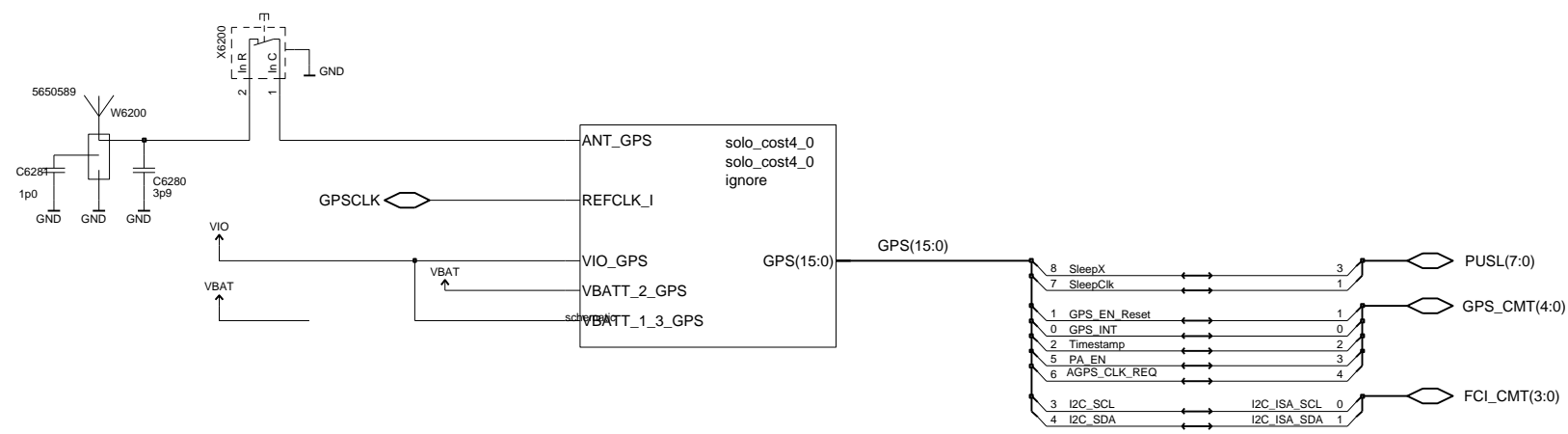


NOTE: This sheet requires AVILMA with external 2k bias resistor in VILMA sheet

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Name AV connector Appr dd-mmm-yy



1

2

3

4

5

6

A

A

B

B

C

C

D

D

AV_CONN_WING(6:0) ◁

FLEX_AUDIO(1:0) ◁

KEYB_UI(11:0) ◁

MESSI_WING(25:0) ◁

CAM_I2C(1:0) ◁

LOWRESCAM_CCP(3:0) ◁

LOWRESCAM_CTRL(3:0) ◁

KEYB_ITU_SDK(11:0) ◁

KEYB_LED_CTRL(5:0) ◁

CAM_FLASH(1:0) ◁

SIM_uSD_IF(7:0) ◁

WING_USB(5:0) ◁

SLOWAD(6:0) ◁

KEYB_CMT(20:0) ◁


FCL_CMT(3:0) ◁

SIM(6:0) ◁

MESSI_CMT(25:0) ◁

GEN_CTRL_CMT(20:0) ◁

PWRONX ◁

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1

2

3

4

1

2

3

4

5

6

2700-2799

SIMIF(6.0)



A

A

B

B

C

C

D

D

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Name	SIM interface	Appr	10-Aug-00
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1












2

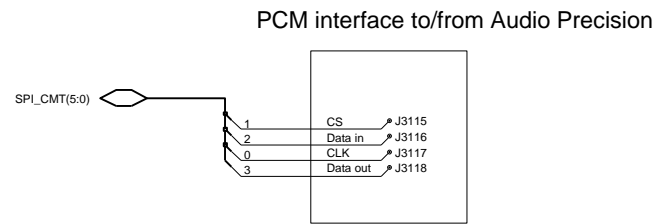
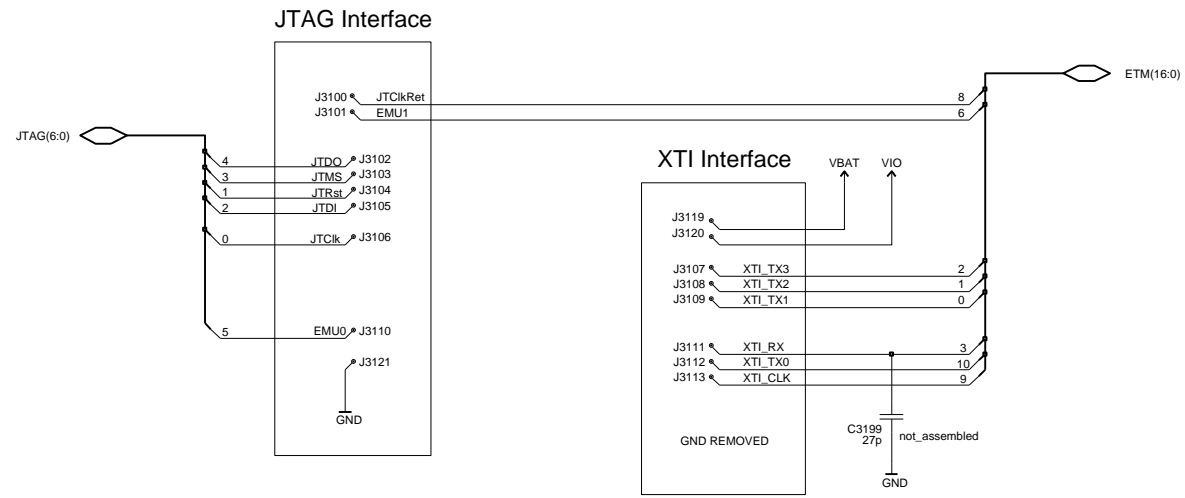
3

4

5

6

- GEN_CTRL_CMT(20:0) 
- MESSI_CMT(25:0) 
- KEYB_CMT(20:0) 
- PUSL(7:0) 
- USB_ACI(7:0) 
- SLOWAD(6:0) 
- PCM(3:0) 
- LPRF_CMT(7:0) 
- WLAN_CMT(7:0) 
- BT_TEST(15:0) 
- WLAN_BT(6:0) 

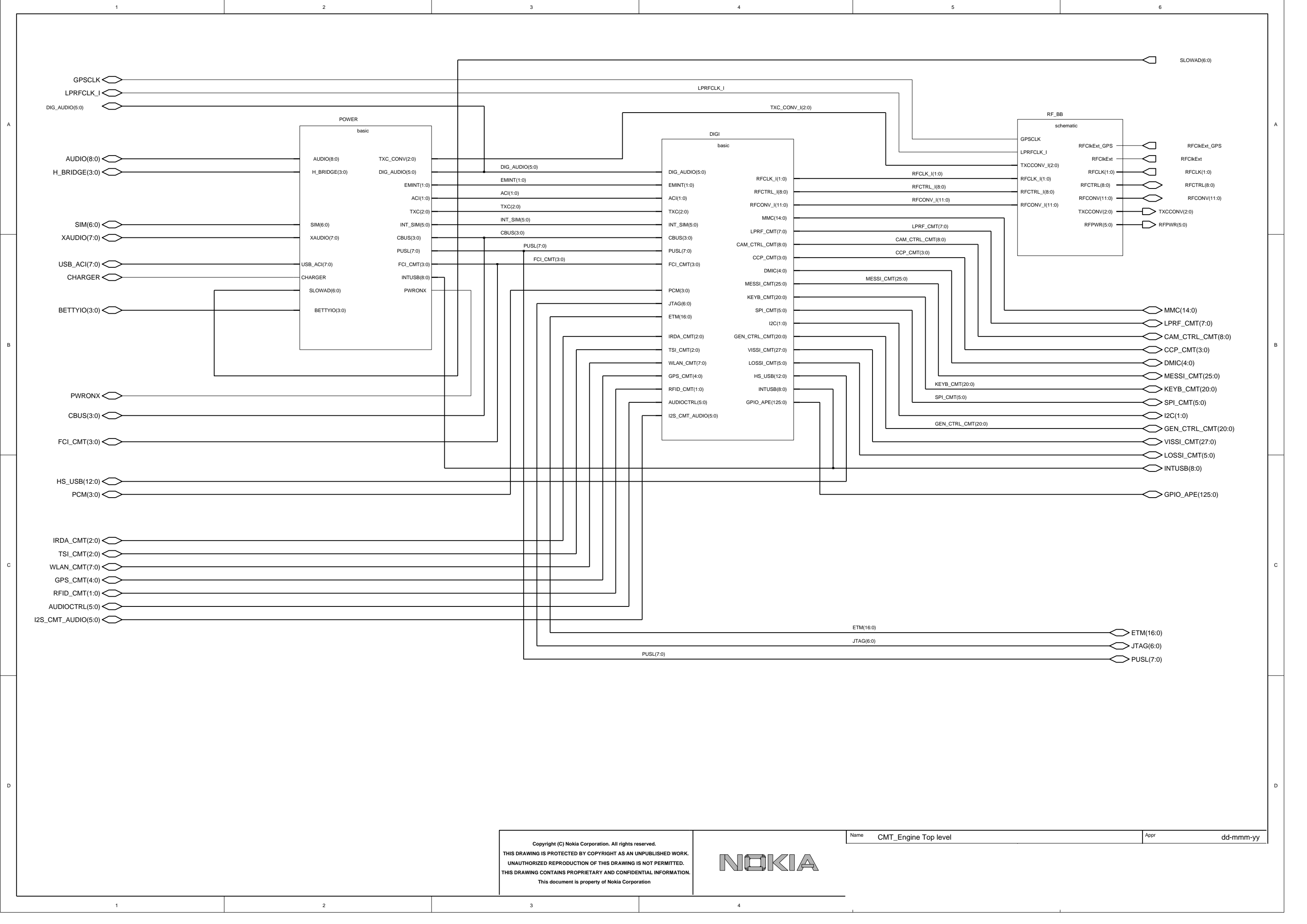


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Name EMU:RAP Test Interface

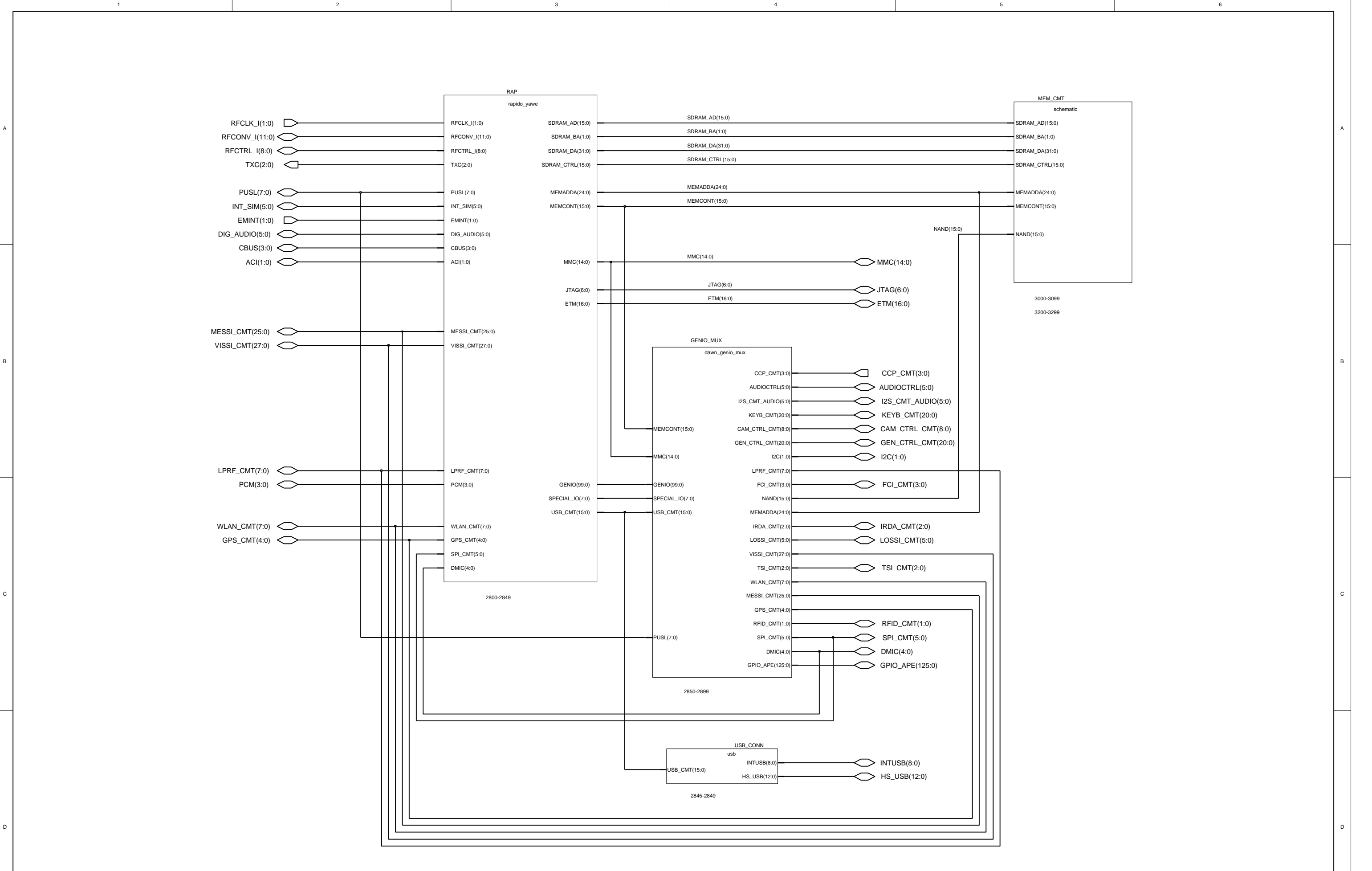
Appr dd-mmm-yy



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Name CMT_Engine Top level Appr dd-mmm-yy

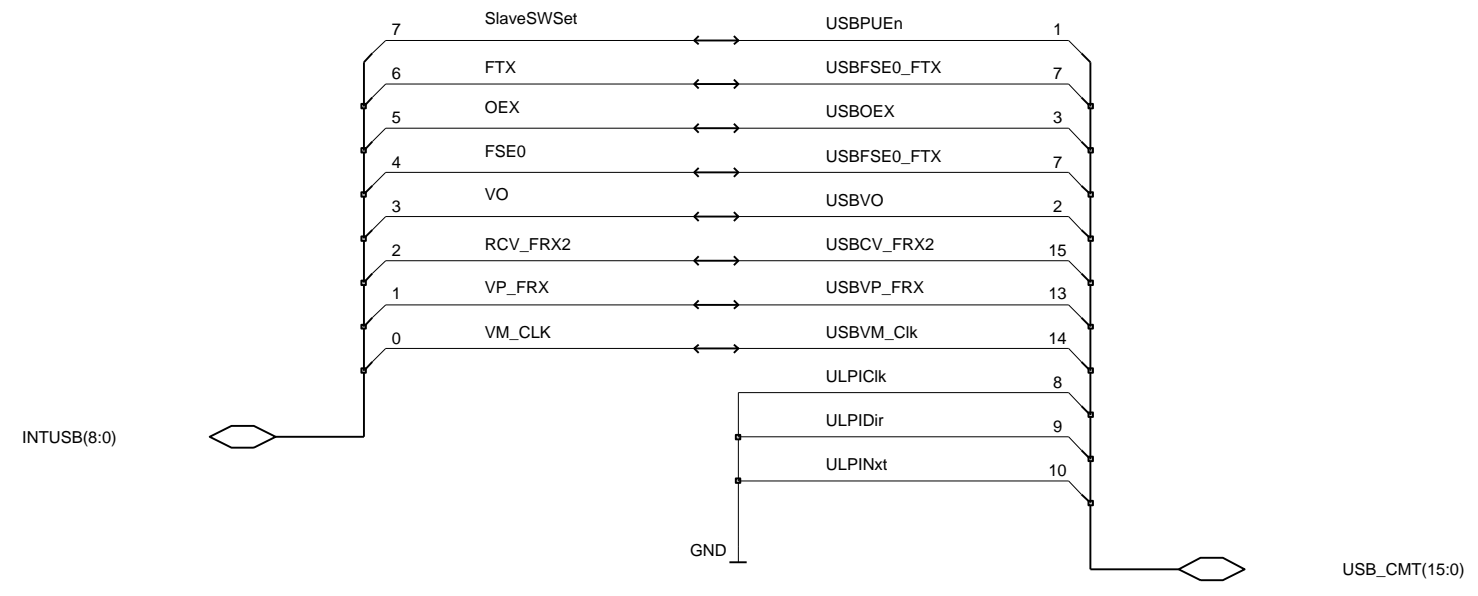


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2845-2849

HS_USB(12:0)

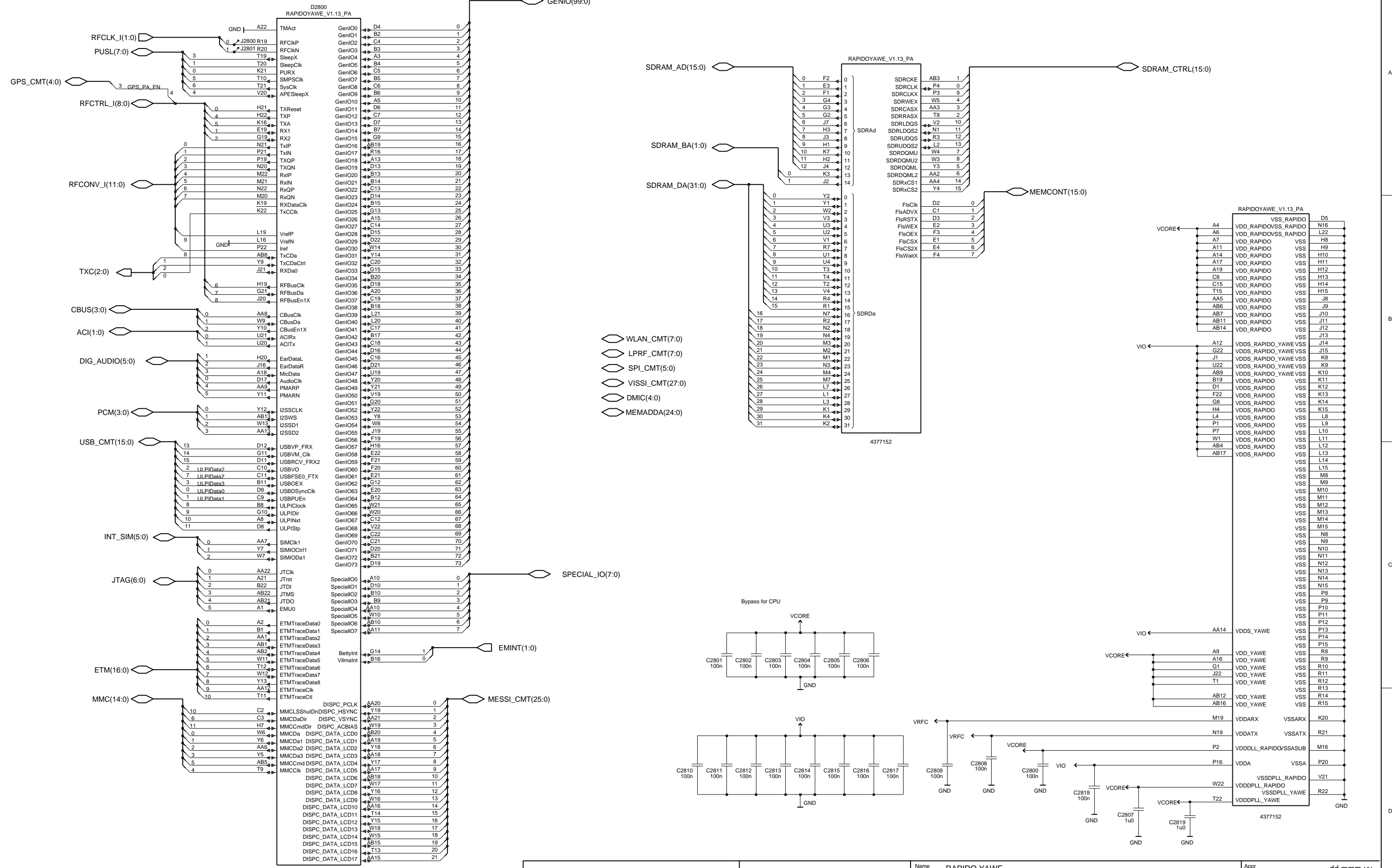


INTUSB(8:0)

GND

USB_CMT(15:0)

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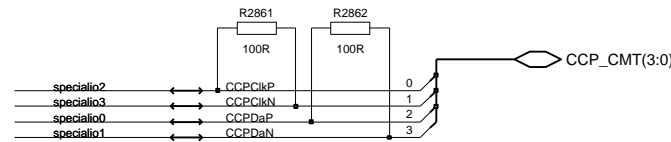
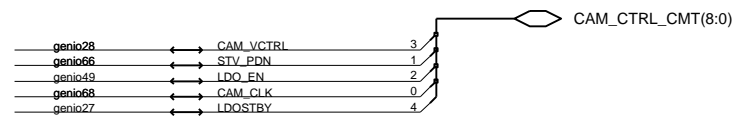
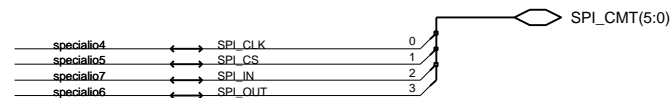
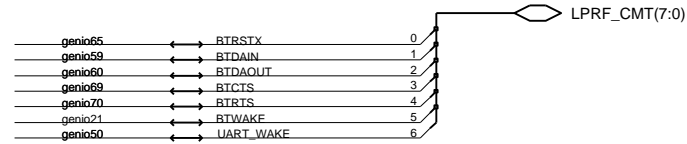
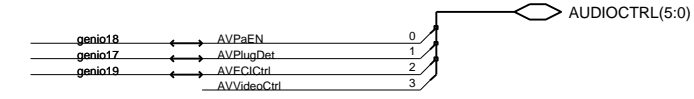
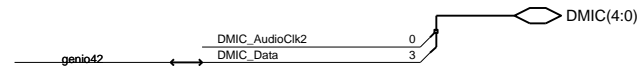
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Dawn

- I2S_CMT_AUDIO(5:0)
- LOSSI_CMT(5:0)
- VISSI_CMT(27:0)
- NAND(15:0)
- USB_CMT(15:0)
- RFID_CMT(1:0)
- GPIO_APE(125:0)
- SPECIAL_IO(7:0)

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	GPS_ENABLE
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	NOT CONNECTED
24	genio24	MMCDor
25	genio25	AGPS_CLK_REQ
26	genio26	KEYB COL0
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 ROW5
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	SLIDE_POSITION_DETECTION
54	genio54	WLAN_RESETX
55	genio55	ACCELEROMETER_INT
56	genio56	IRRX
57	genio57	IRTX
58	genio58	IRSD
59	genio59	BTDAIN
60	genio60	BTDOUT
61	genio61	GPS_TIMESTAMP
62	genio62	S60_LED_PWM_CTRL_DISABLE
63	genio63	WLAN_SPI_DOUT
64	genio64	NOT CONNECTED
65	genio65	BTRSTX
66	genio66	STV_PDN
67	genio67	NOT CONNECTED
68	genio68	CAMCLK
69	genio69	BTCTS
70	genio70	BTRTS
71	genio71	MMCFbClk
72	genio72	WLAN_SPI_CLK
73	genio73	WLAN_SPI_CSX

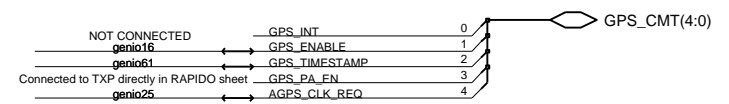
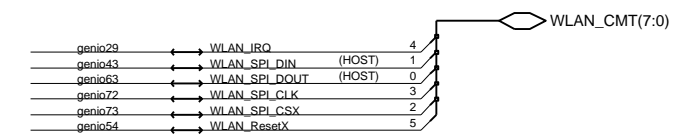
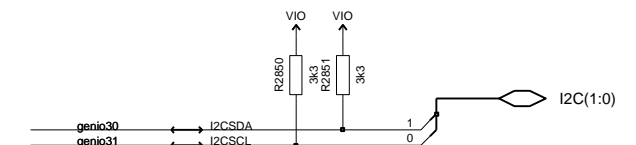
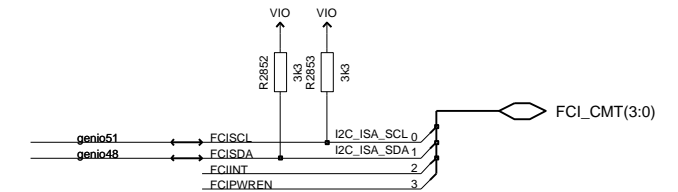
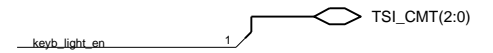
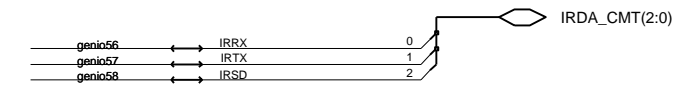
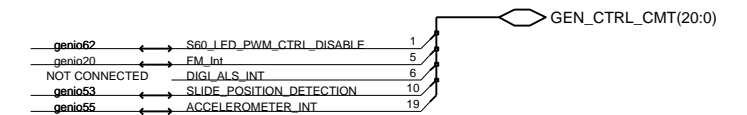
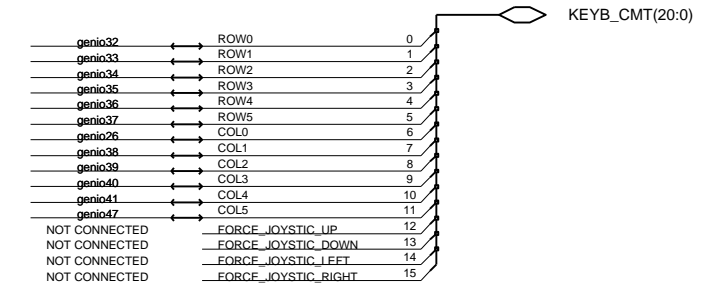
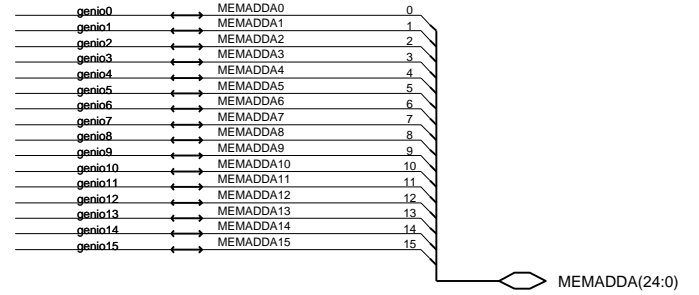
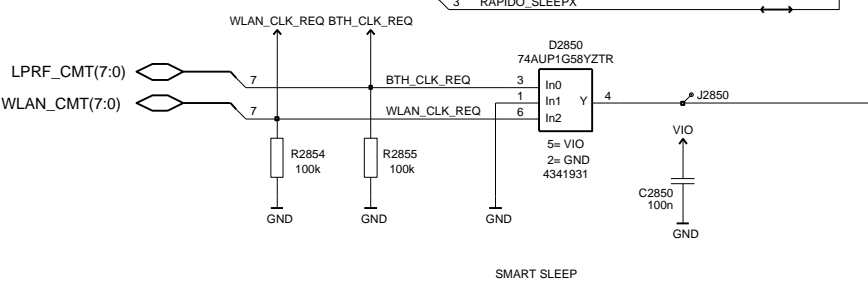


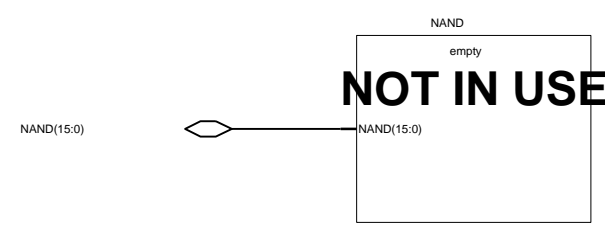
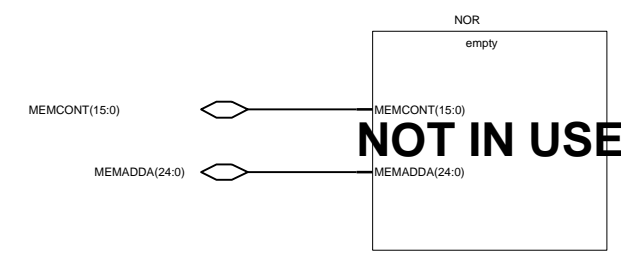
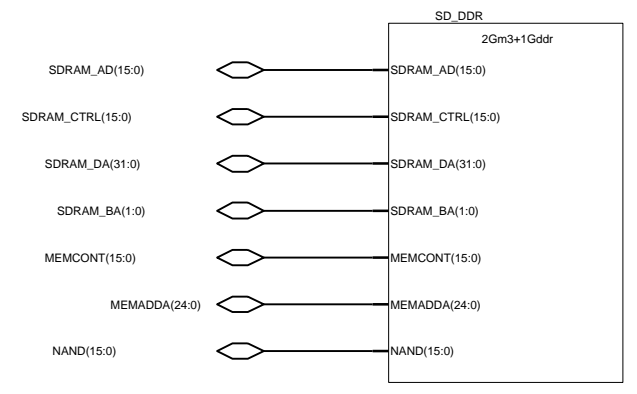
Place termination resistors R2861 and R2862 close Rapido

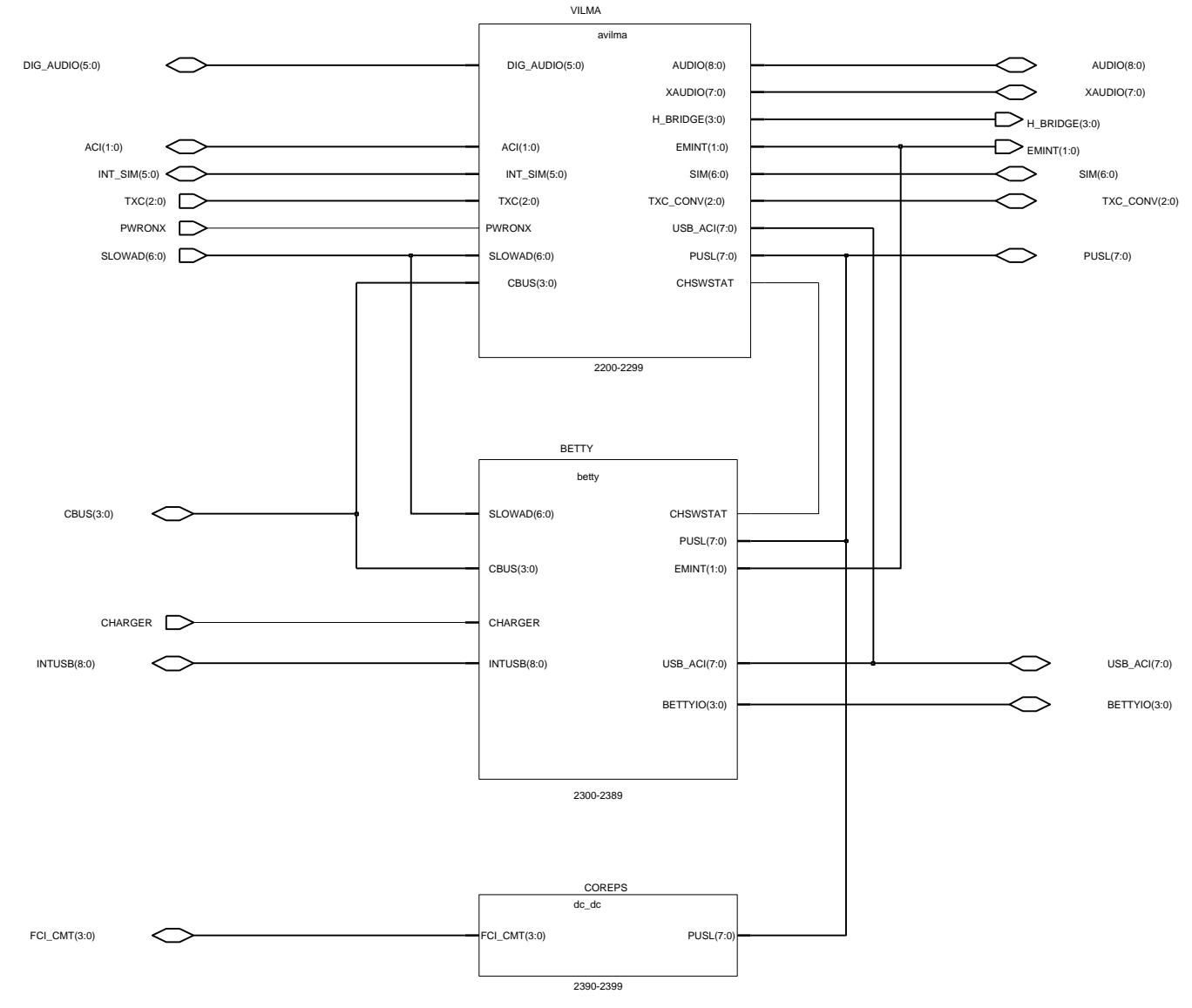
GENIO(99:0)

SPECIAL_IO(7:0)

PUSL(7:0)







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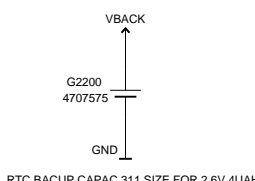
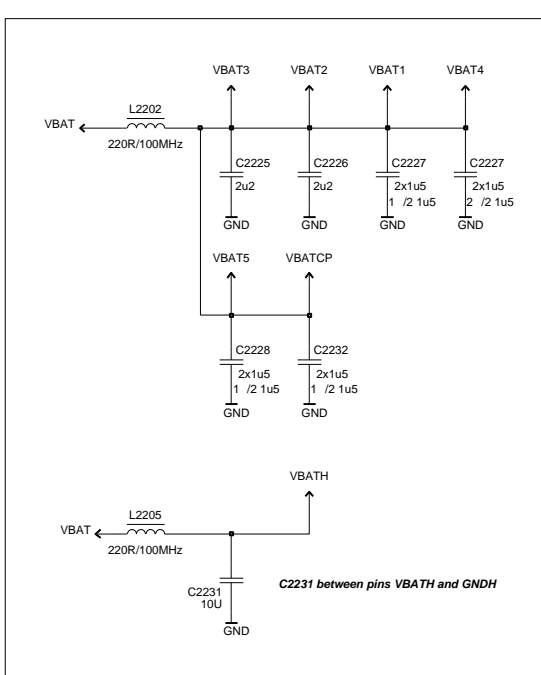
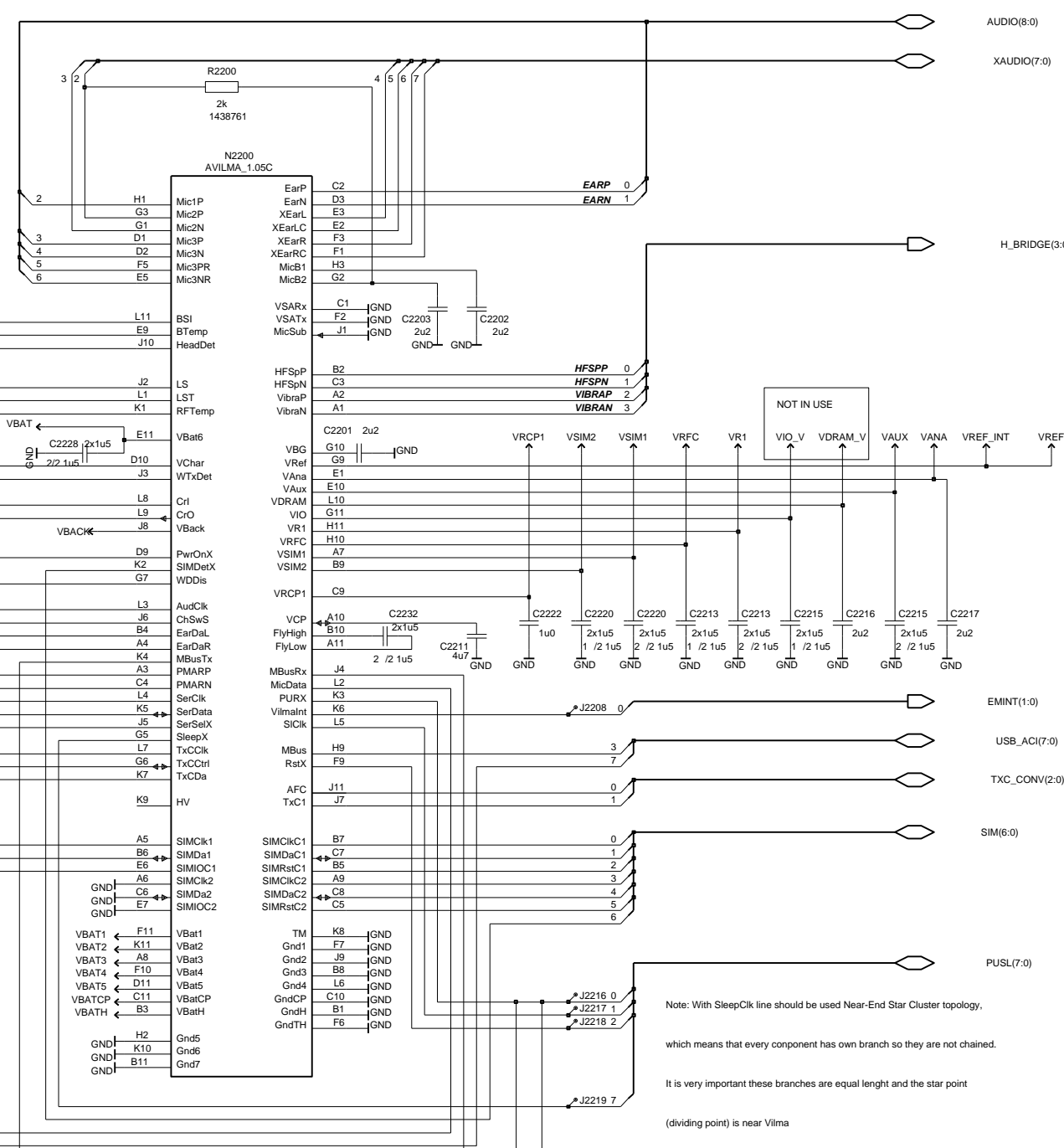
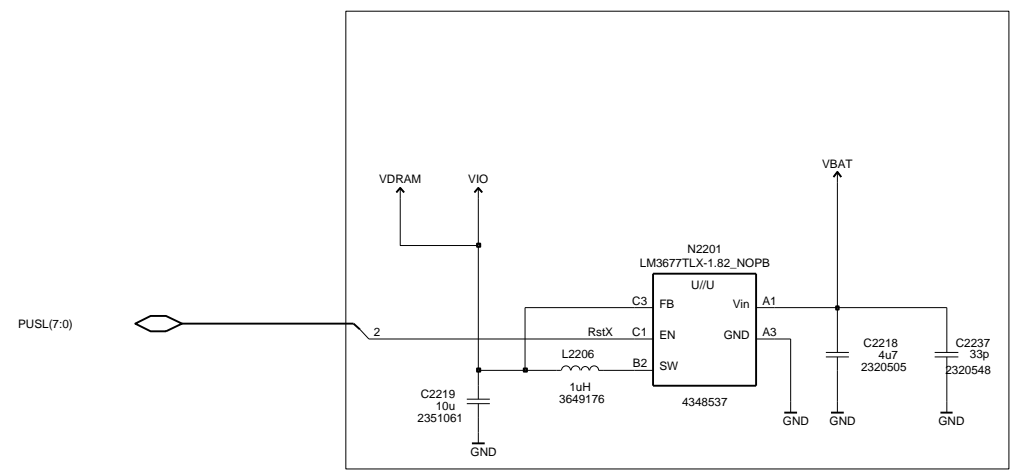


Name Energy management

Appr dd-mmm-yy

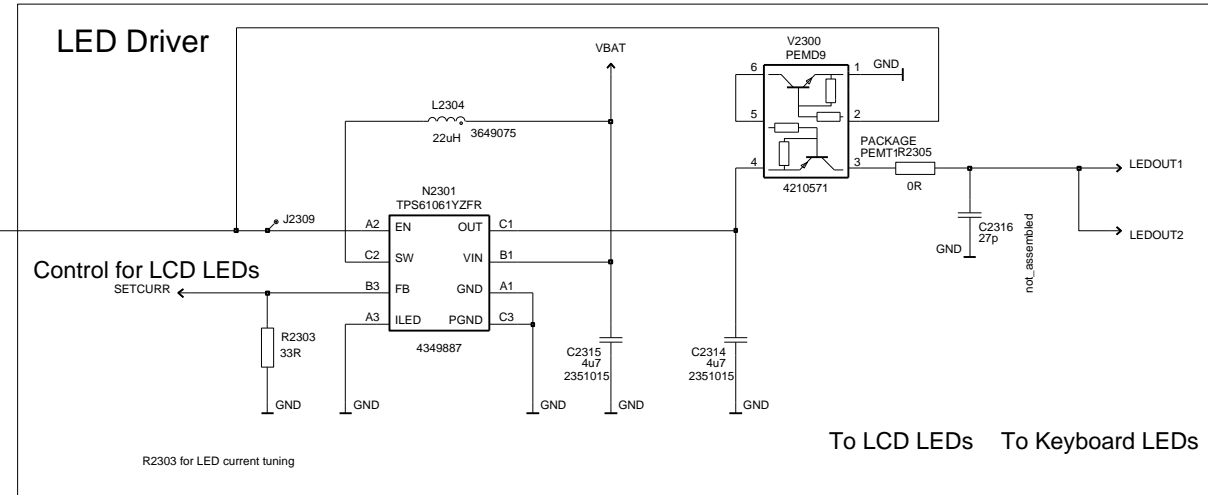
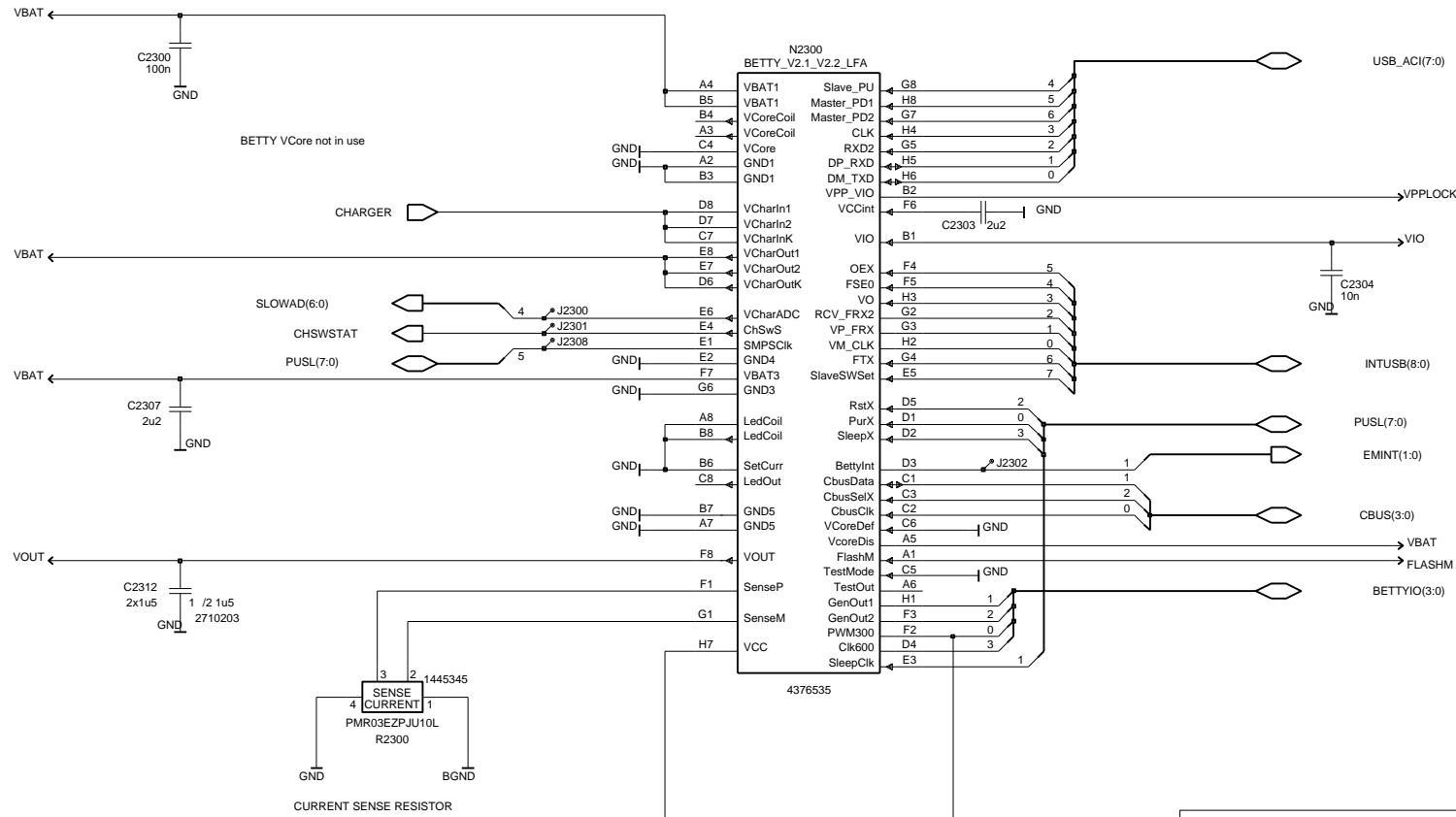
External SMPS for VIO & VDRAM

AVILMA



Note: With SleepClk 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

BETTY

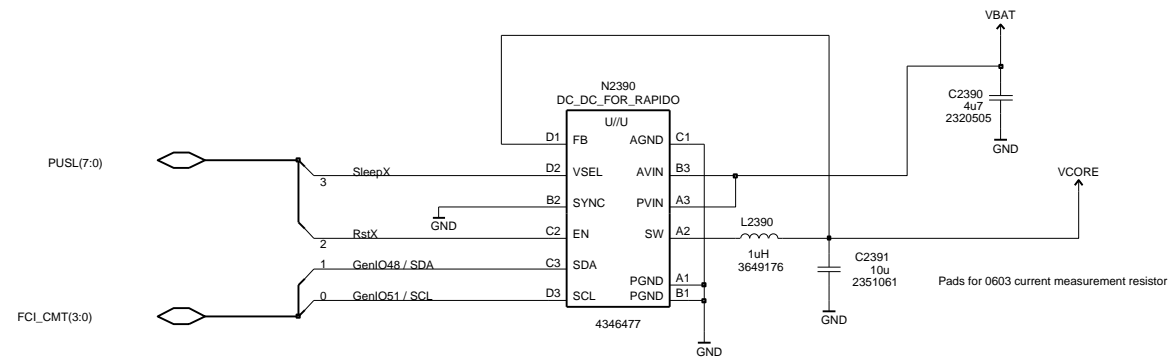


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Reference schematic

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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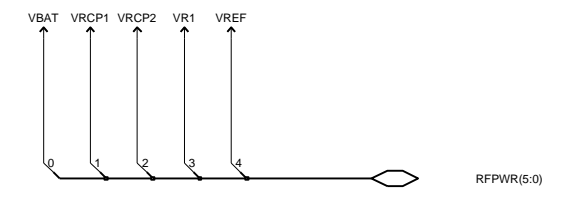
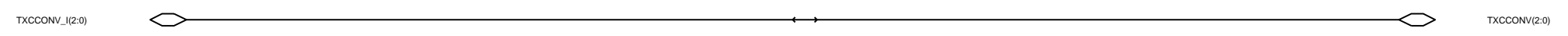
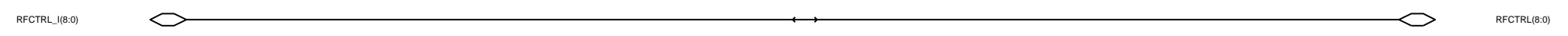
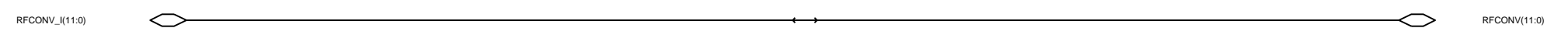
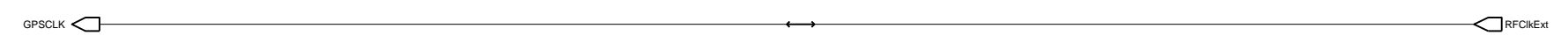
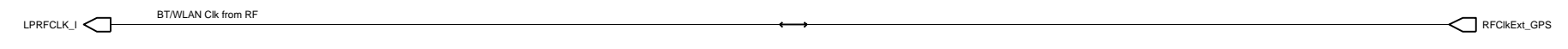
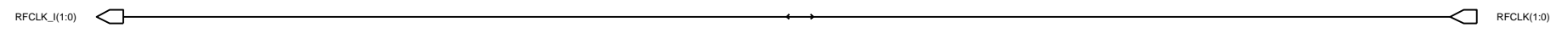


Name
 Reference schematic

Appr
 dd-mmm-yy

CBB5X

TOP SHEET



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Name RF IF

Appr dd-mmm-yy

