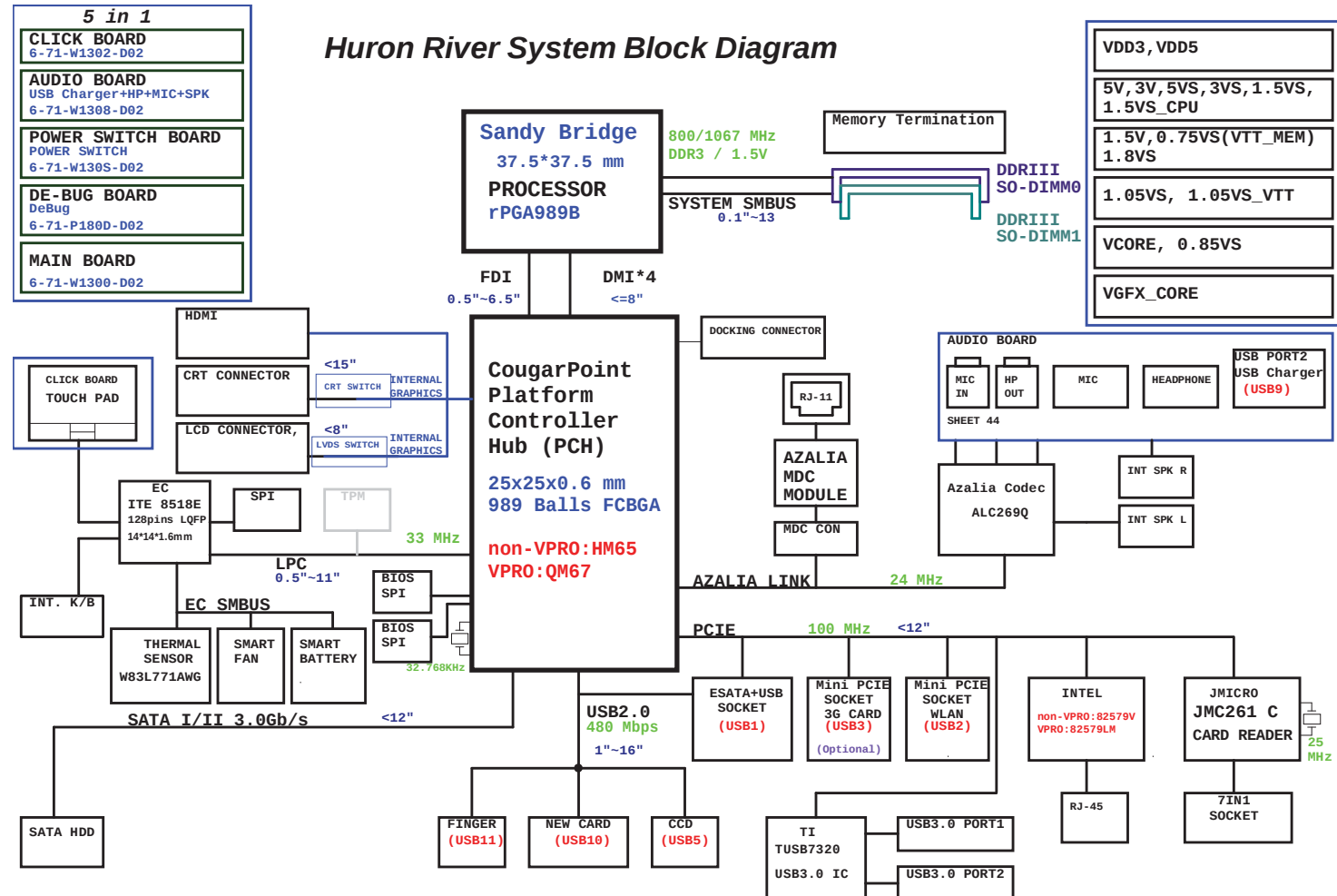
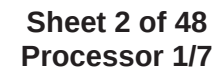


System Block Diagram



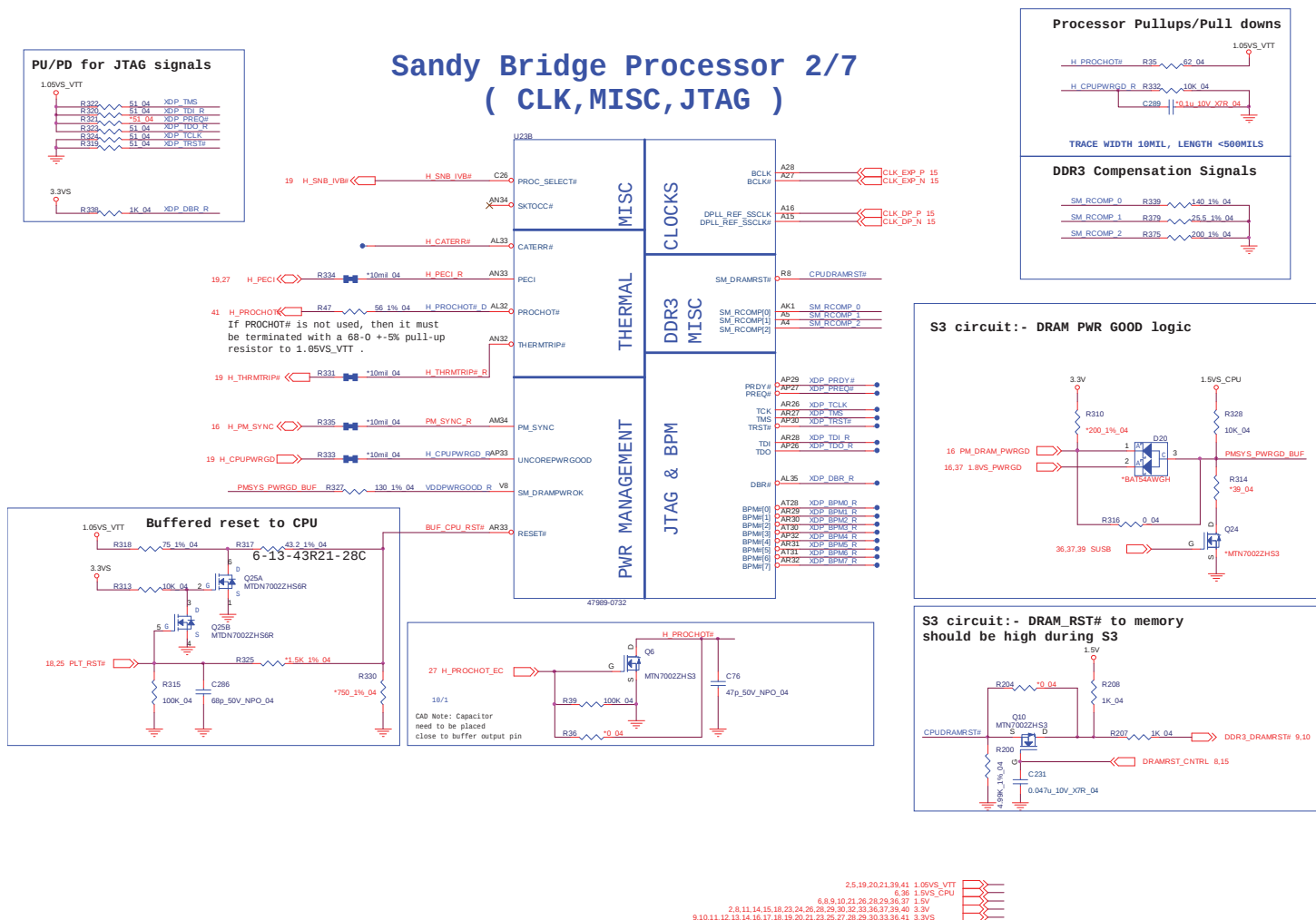
Sheet 1 of 48
System Block
Diagram

Sandy Bridge Processor 1/7 (DMI,PEG,FDI)



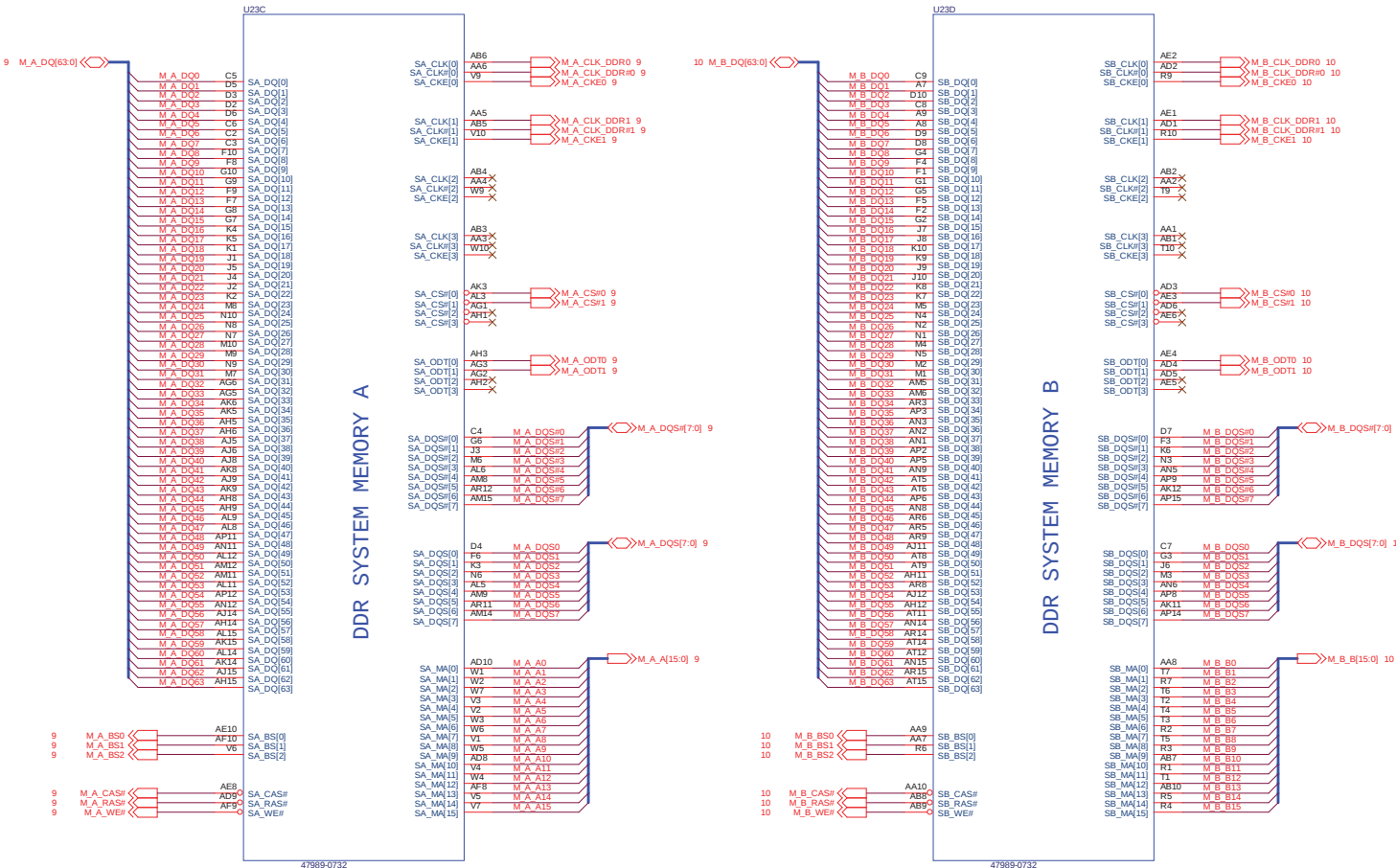
Processor 2/7

Sheet 3 of 48
Processor 2/7



Processor 3/7

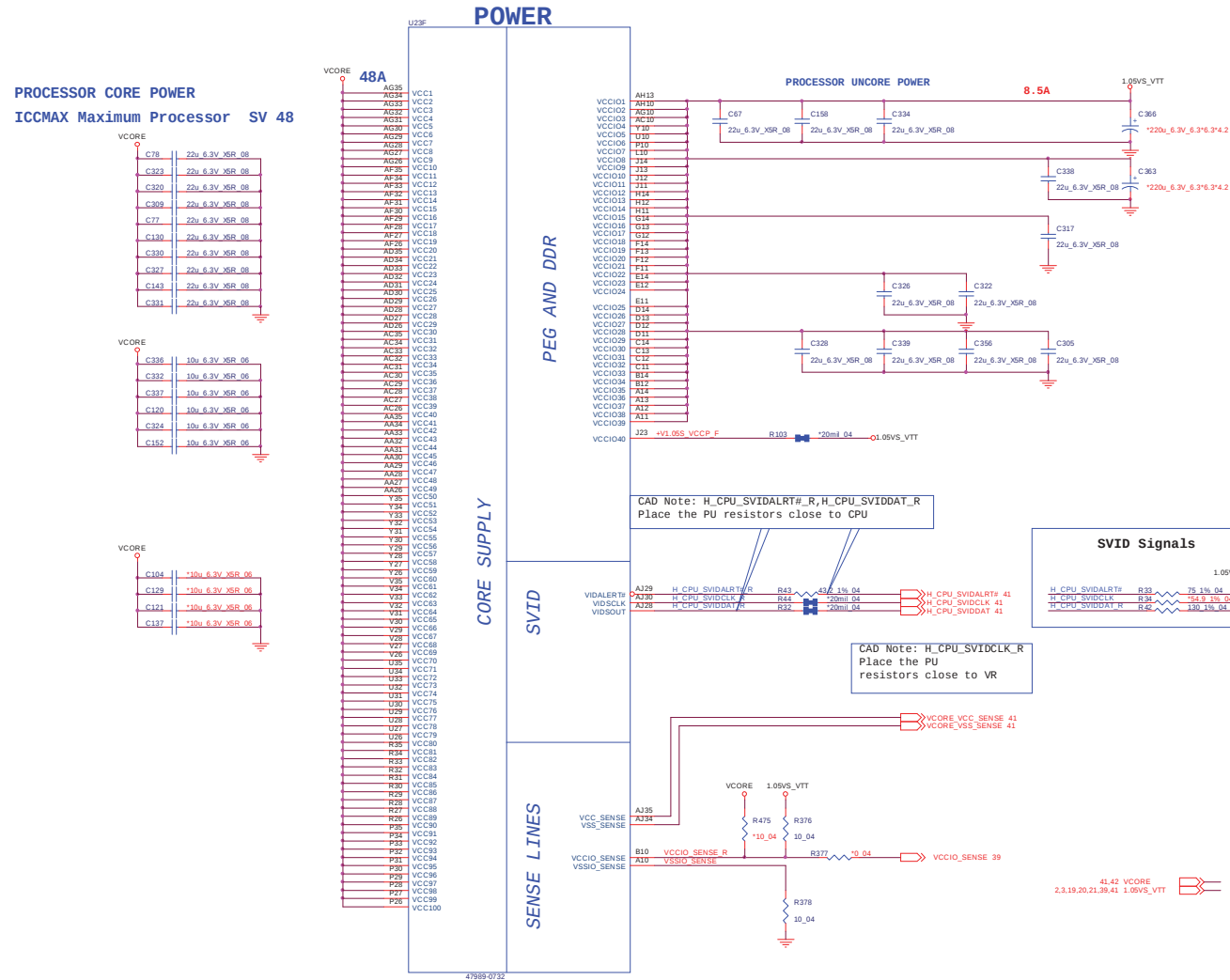
Sandy Bridge Processor 3/7 (DDR3)



Sheet 4 of 48
Processor 3/7

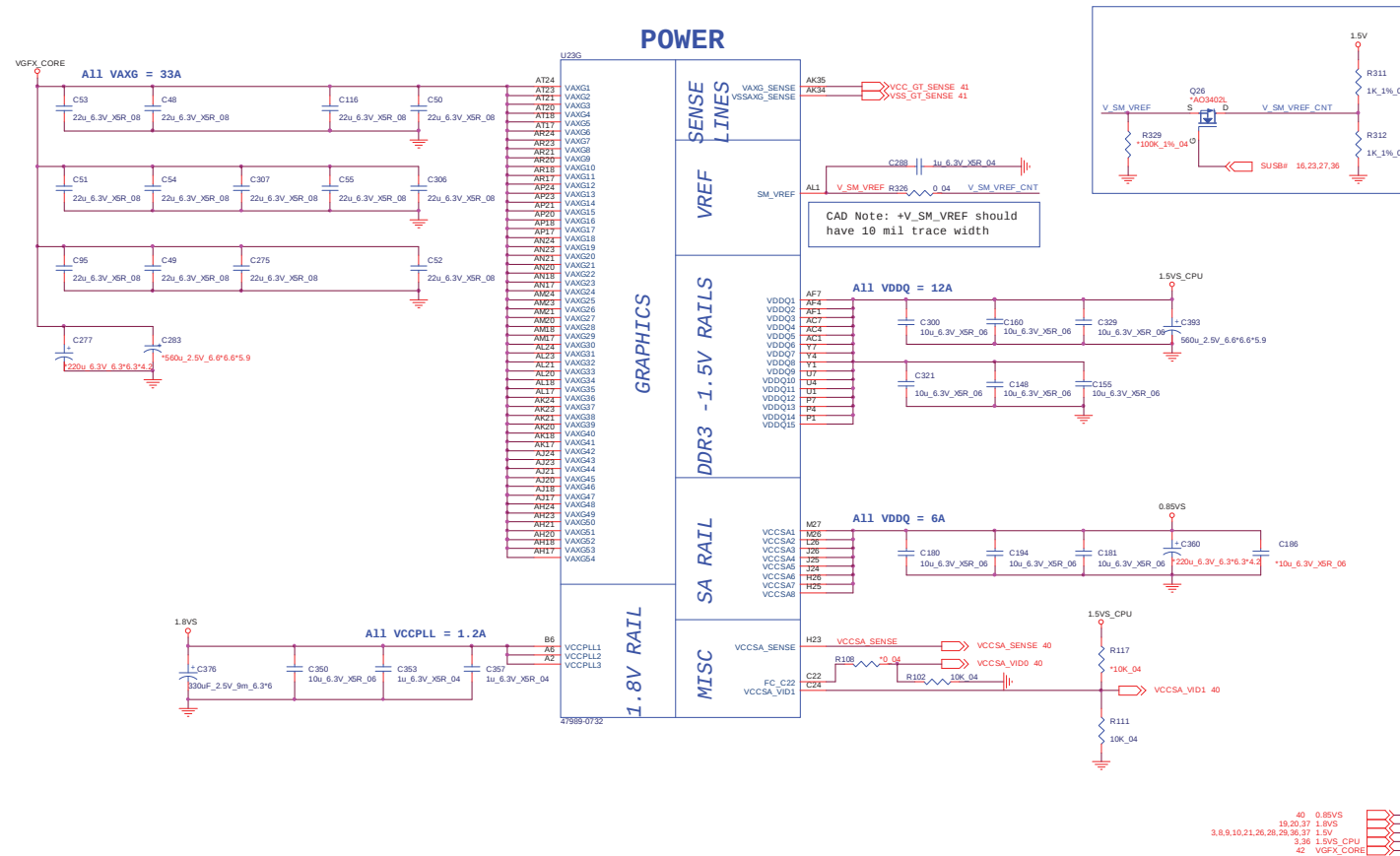
Processor 4/7

Sandy Bridge Processor 4/7



Processor 5/7

Sandy Bridge Processor 5/7 (GRAPHICS POWER)

Sheet 6 of 48
Processor 5/7

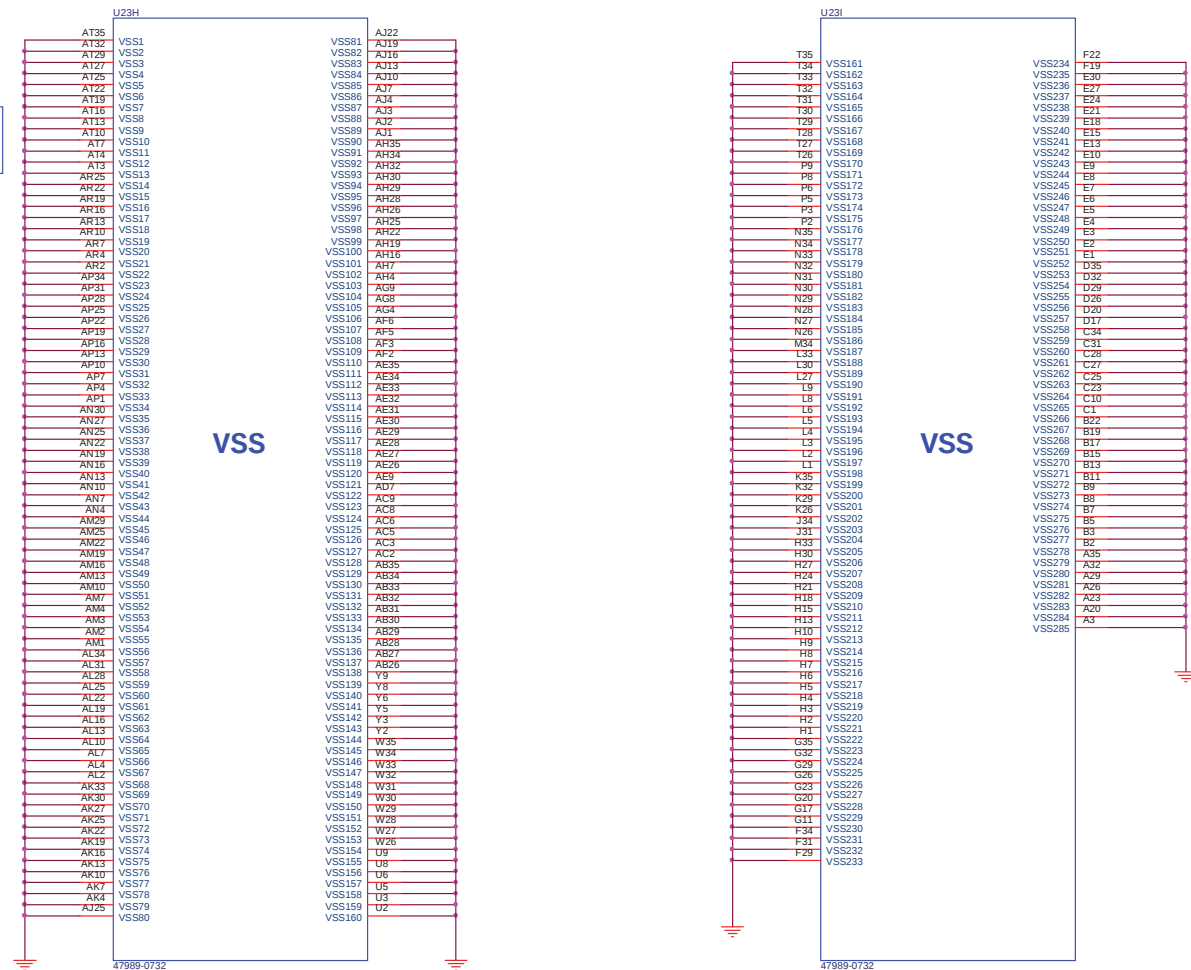
Processor 6/7

Sandy Bridge Processor 6/7 (GND)

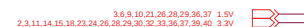
CAD Note: 0 ohm resistor
should be placed close
to CPU

Sheet 7 of 48
Processor 6/7

B.Schematic Diagrams



**Sandy Bridge Processor 7/7
(RESERVED)**



B.Schematic Diagrams

SO-DIMM A

Sheet 9 of 48
DDR3 SO-DIMM_0



SO-DIMM B

Layout Note:
SO-DIMM_1 is placed farther from the GMCH than SO-DIMM_0

DDR5K-20401-TR80 Pinout:

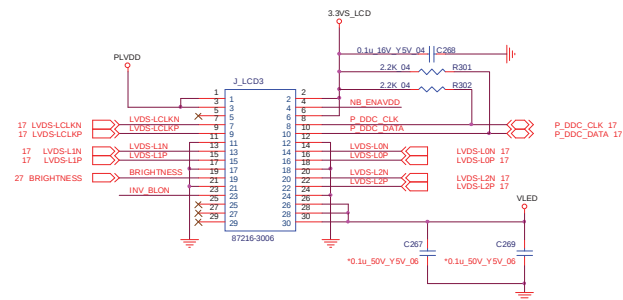
Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	M_B_B0	97	A0	193	M_B_DQ50	27	DQ50W
2	M_B_B1	98	A1	194	M_B_DQ51	28	DQ51W
3	M_B_B2	99	A2	195	M_B_DQ52	29	DQ52W
4	M_B_B3	100	A3	196	M_B_DQ53	30	DQ53W
5	M_B_B4	101	A4	197	M_B_DQ54	31	DQ54W
6	M_B_B5	102	A5	198	M_B_DQ55	32	DQ55W
7	M_B_B6	103	A6	199	M_B_DQ56	33	DQ56W
8	M_B_B7	104	A7	200	M_B_DQ57	34	DQ57W
9	M_B_B8	105	A8	201	M_B_DQ58	35	DQ58W
10	M_B_B9	106	A9	202	M_B_DQ59	36	DQ59W
11	M_B_B10	107	A10	203	M_B_DQ60	37	DQ60W
12	M_B_B11	108	A11	204	M_B_DQ61	38	DQ61W
13	M_B_B12	109	A12	205	M_B_DQ62	39	DQ62W
14	M_B_B13	110	A13	206	M_B_DQ63	40	DQ63W
15	M_B_B14	111	A14	207	M_B_DQ64	41	DQ64W
16	M_B_B15	112	A15	208	M_B_DQ65	42	DQ65W
17	M_B_B16	113	A16	209	M_B_DQ66	43	DQ66W
18	M_B_B17	114	A17	210	M_B_DQ67	44	DQ67W
19	M_B_B18	115	A18	211	M_B_DQ68	45	DQ68W
20	M_B_B19	116	A19	212	M_B_DQ69	46	DQ69W
21	M_B_B20	117	A20	213	M_B_DQ70	47	DQ70W
22	M_B_B21	118	A21	214	M_B_DQ71	48	DQ71W
23	M_B_B22	119	A22	215	M_B_DQ72	49	DQ72W
24	M_B_B23	120	A23	216	M_B_DQ73	50	DQ73W
25	M_B_B24	121	A24	217	M_B_DQ74	51	DQ74W
26	M_B_B25	122	A25	218	M_B_DQ75	52	DQ75W
27	M_B_B26	123	A26	219	M_B_DQ76	53	DQ76W
28	M_B_B27	124	A27	220	M_B_DQ77	54	DQ77W
29	M_B_B28	125	A28	221	M_B_DQ78	55	DQ78W
30	M_B_B29	126	A29	222	M_B_DQ79	56	DQ79W
31	M_B_B30	127	A30	223	M_B_DQ80	57	DQ80W
32	M_B_B31	128	A31	224	M_B_DQ81	58	DQ81W
33	M_B_B32	129	A32	225	M_B_DQ82	59	DQ82W
34	M_B_B33	130	A33	226	M_B_DQ83	60	DQ83W
35	M_B_B34	131	A34	227	M_B_DQ84	61	DQ84W
36	M_B_B35	132	A35	228	M_B_DQ85	62	DQ85W
37	M_B_B36	133	A36	229	M_B_DQ86	63	DQ86W
38	M_B_B37	134	A37	230	M_B_DQ87	64	DQ87W
39	M_B_B38	135	A38	231	M_B_DQ88	65	DQ88W
40	M_B_B39	136	A39	232	M_B_DQ89	66	DQ89W
41	M_B_B40	137	A40	233	M_B_DQ90	67	DQ90W
42	M_B_B41	138	A41	234	M_B_DQ91	68	DQ91W
43	M_B_B42	139	A42	235	M_B_DQ92	69	DQ92W
44	M_B_B43	140	A43	236	M_B_DQ93	70	DQ93W
45	M_B_B44	141	A44	237	M_B_DQ94	71	DQ94W
46	M_B_B45	142	A45	238	M_B_DQ95	72	DQ95W
47	M_B_B46	143	A46	239	M_B_DQ96	73	DQ96W
48	M_B_B47	144	A47	240	M_B_DQ97	74	DQ97W
49	M_B_B48	145	A48	241	M_B_DQ98	75	DQ98W
50	M_B_B49	146	A49	242	M_B_DQ99	76	DQ99W
51	M_B_B50	147	A50	243	M_B_DQ100	77	DQ100W
52	M_B_B51	148	A51	244	M_B_DQ101	78	DQ101W
53	M_B_B52	149	A52	245	M_B_DQ102	79	DQ102W
54	M_B_B53	150	A53	246	M_B_DQ103	80	DQ103W
55	M_B_B54	151	A54	247	M_B_DQ104	81	DQ104W
56	M_B_B55	152	A55</				

DDR3 SO-DIMM_1 B - 11

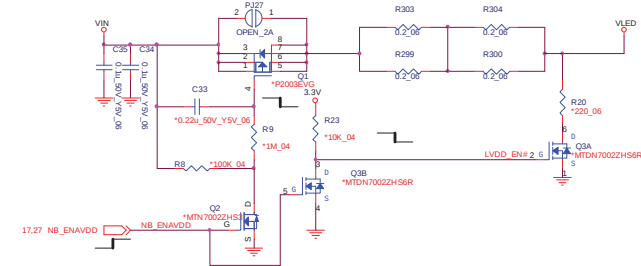
Schematic Diagrams

LVDS, INVERTER

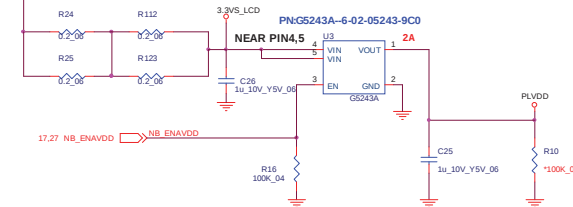
PANEL CONNECTOR



LED PANEL (LVDS Dual Channel).

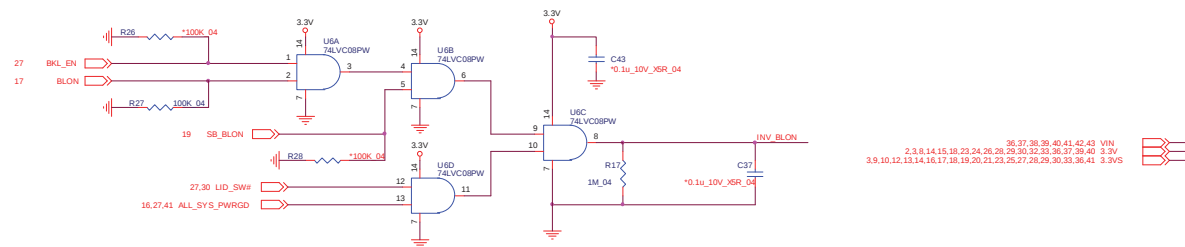


LCD Power Switch G5243A



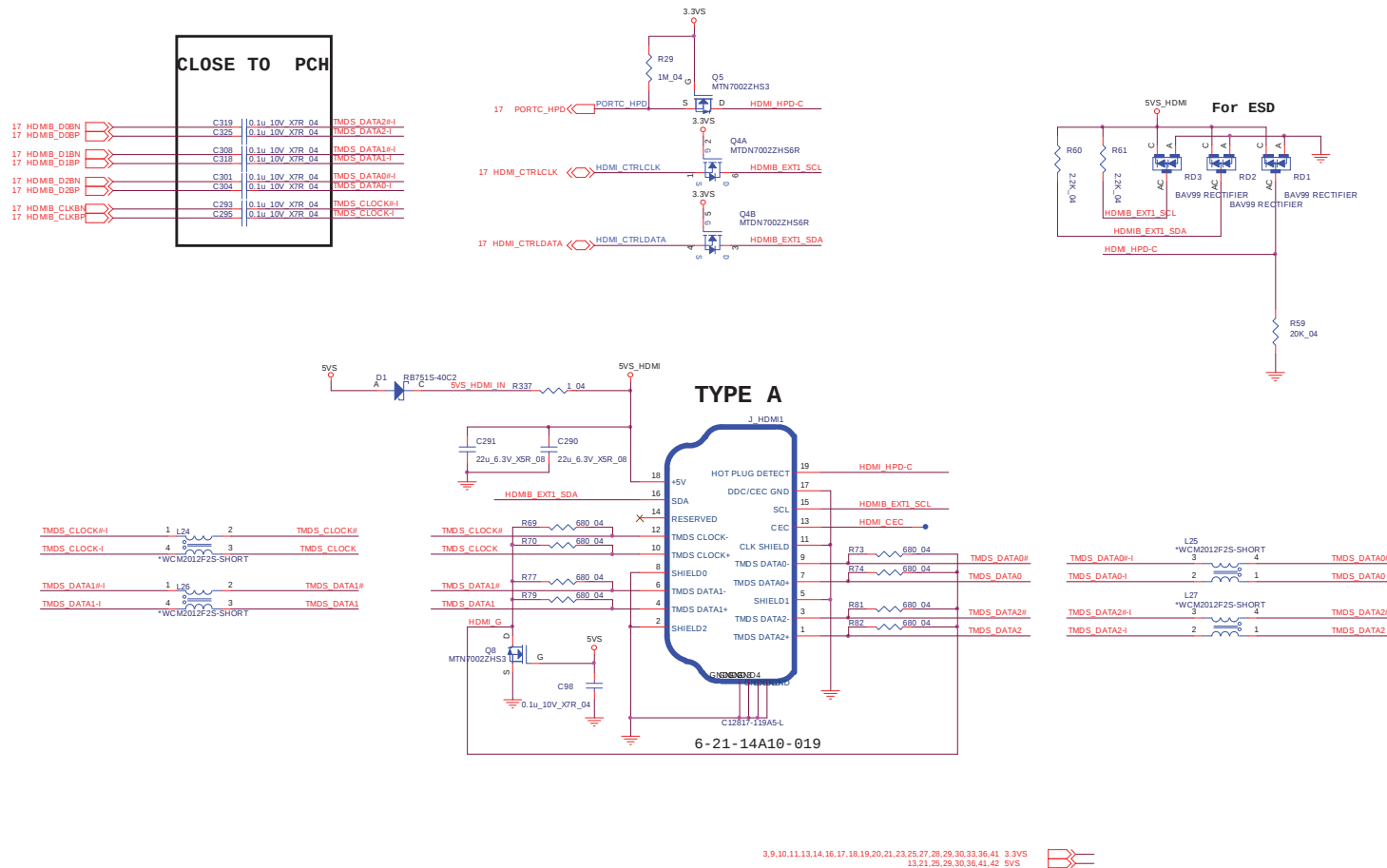
? 40pin connector? , ? ? 30pin connector? ? ? ? pin pad? ? ? ?

INVERTER CONNECTOR



HDMI

HDMI PORT

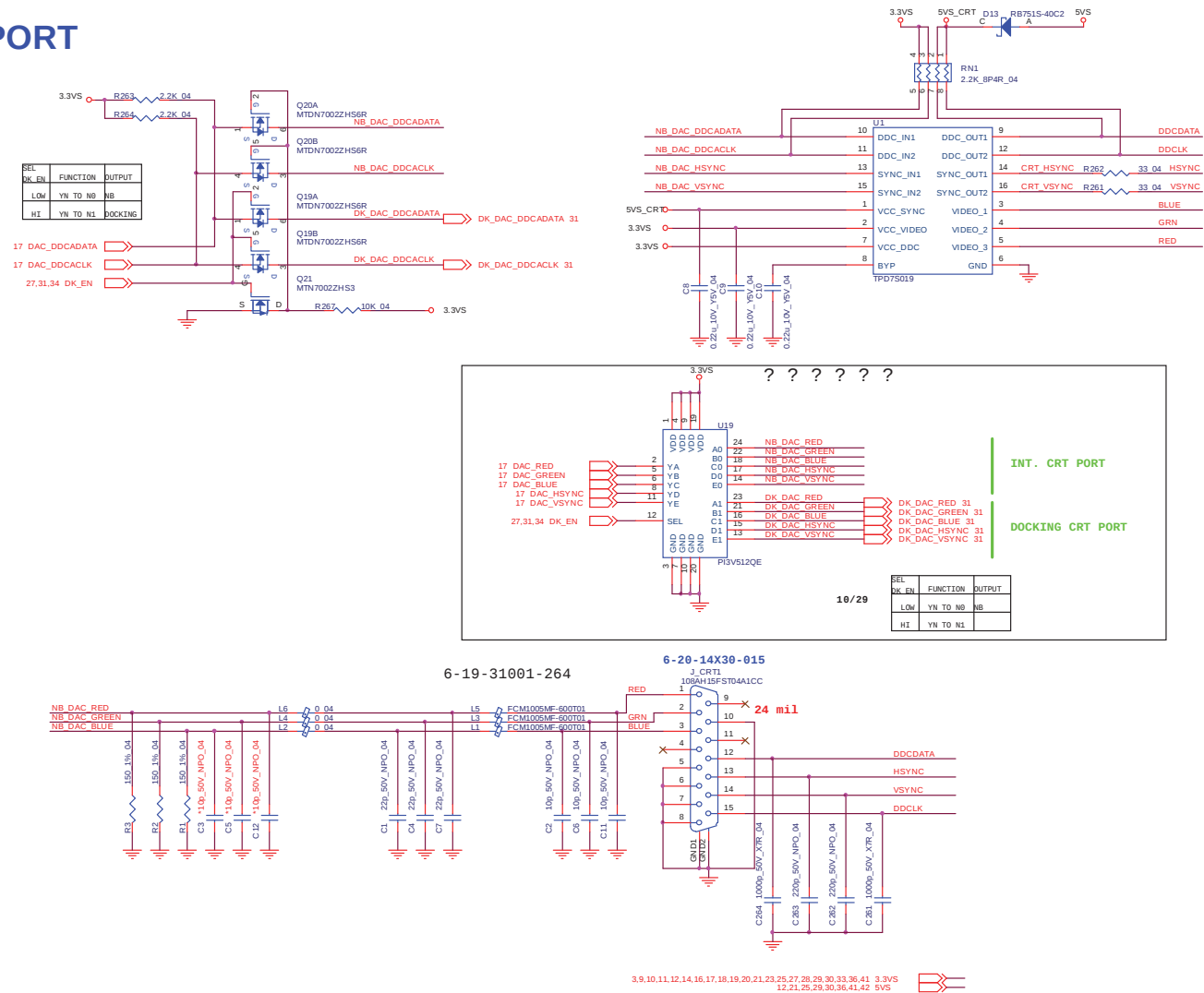


Sheet 12 of 48
HDMI

Schematic Diagrams

CRT

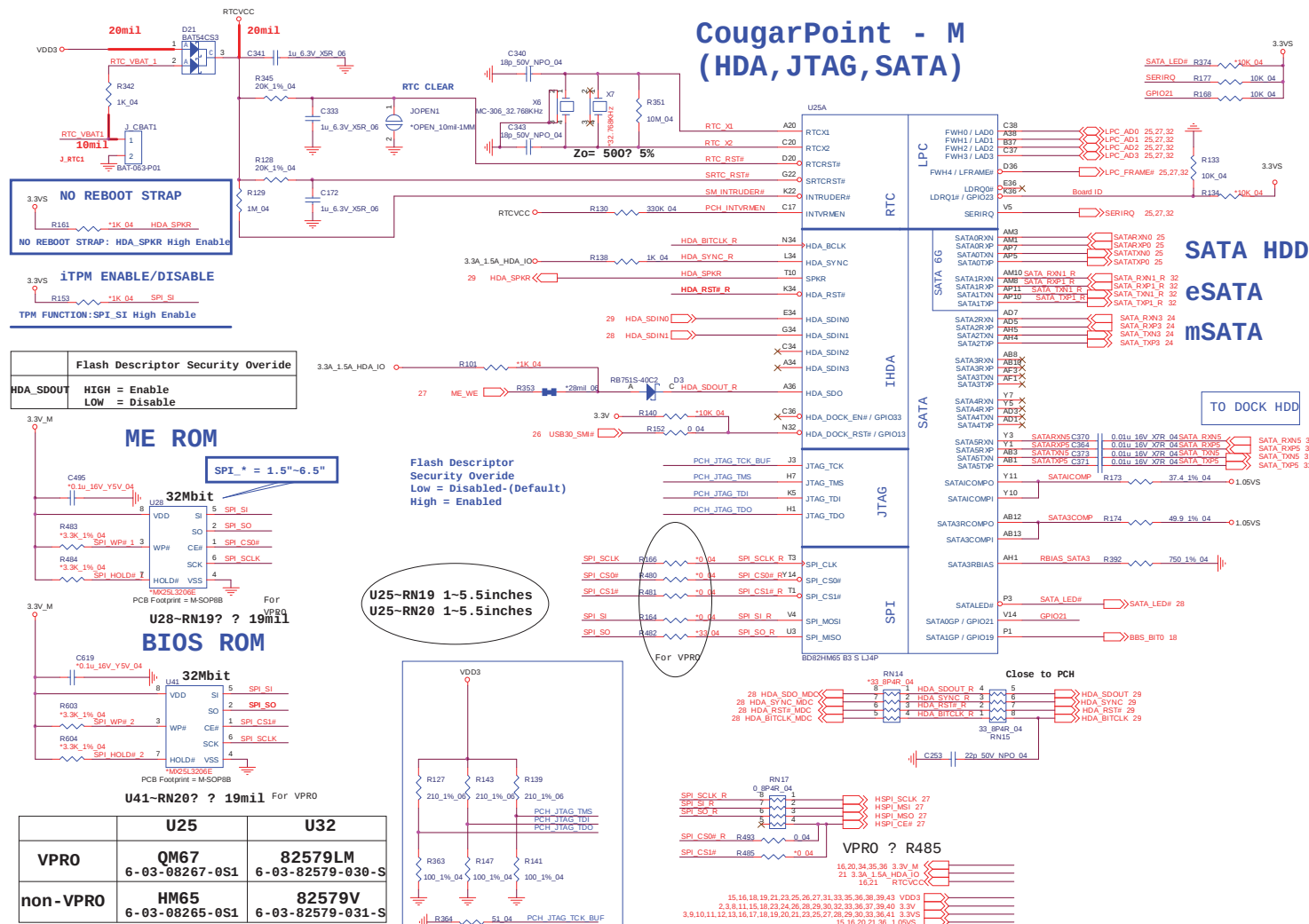
CRT PORT



Sheet 13 of 48
CRT

B.Schematic Diagrams

CougarPoint - M (HDA, JTAG, SATA)



Cougar Point M 2/9

Sheet 15 of 48
Cougar Point M 2/9

PCI-E x1	Usage
Lane 1	X
Lane 2	USB3_0
Lane 3	WLAN
Lane 4	GLAN / CARD READER
Lane 5	NEW CARD
Lane 6	IGLAN
Lane 7	X
Lane 8	X

Only PCIECLKRQ[2:1]# on PCH are core well powered.
All other PCIECLKRQ# are suspend well powered.

23 CLK_PCIE_NEW_CARD#

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

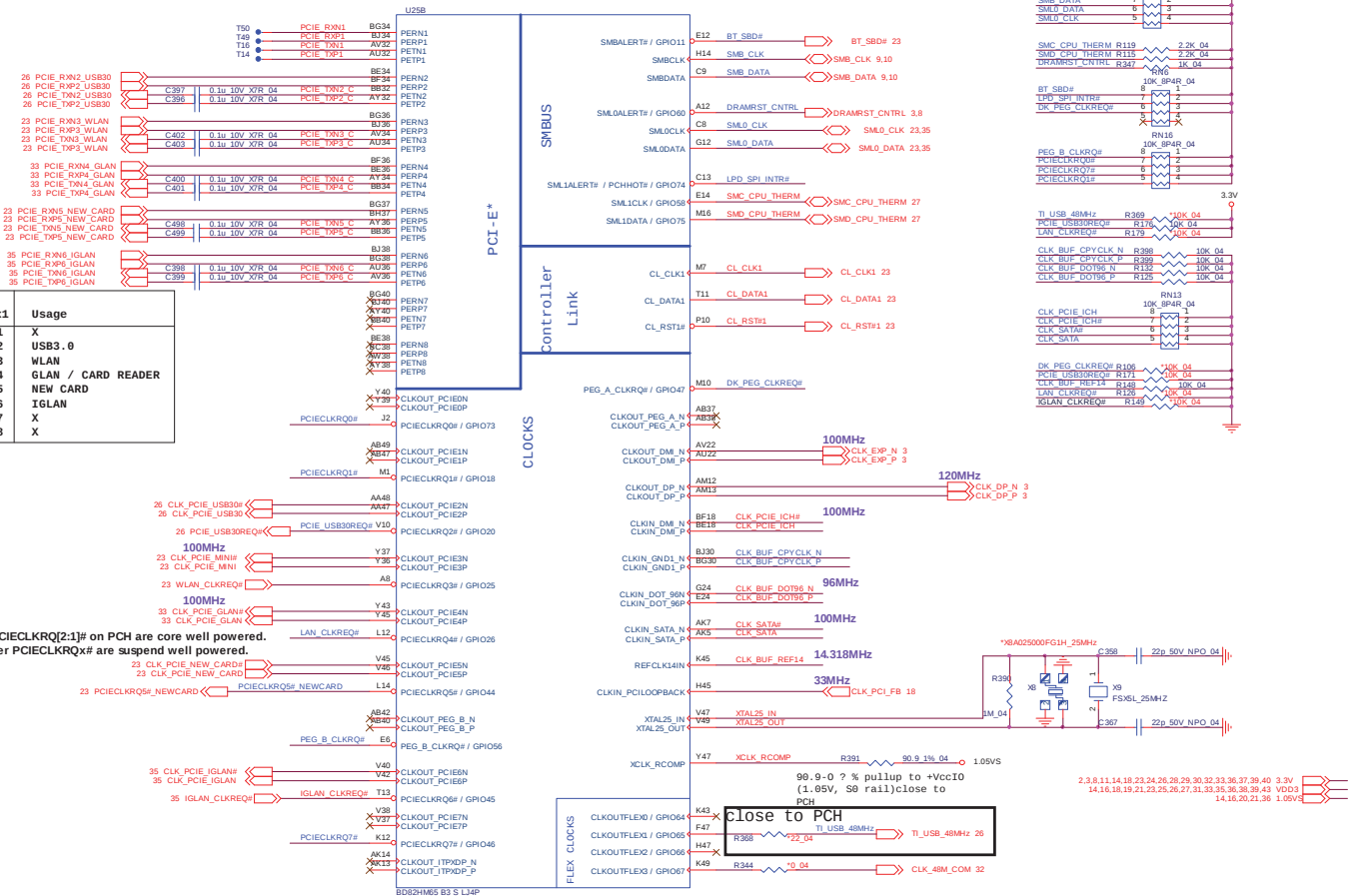
23 CLK_PCIE_NEW_CARD

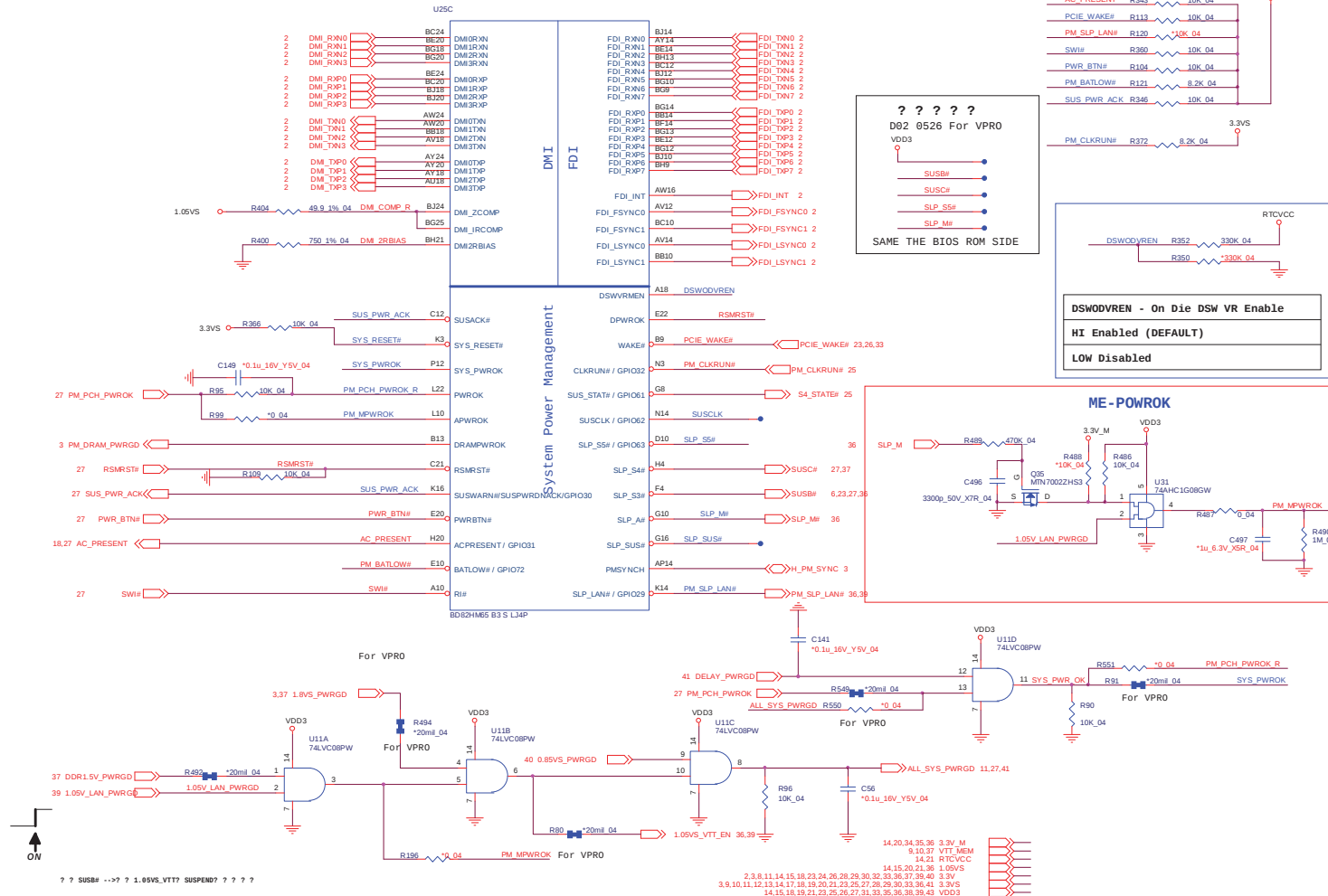
23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

23 CLK_PCIE_NEW_CARD

CougarPoint - M (PCI-E, SMBUS, CLK)





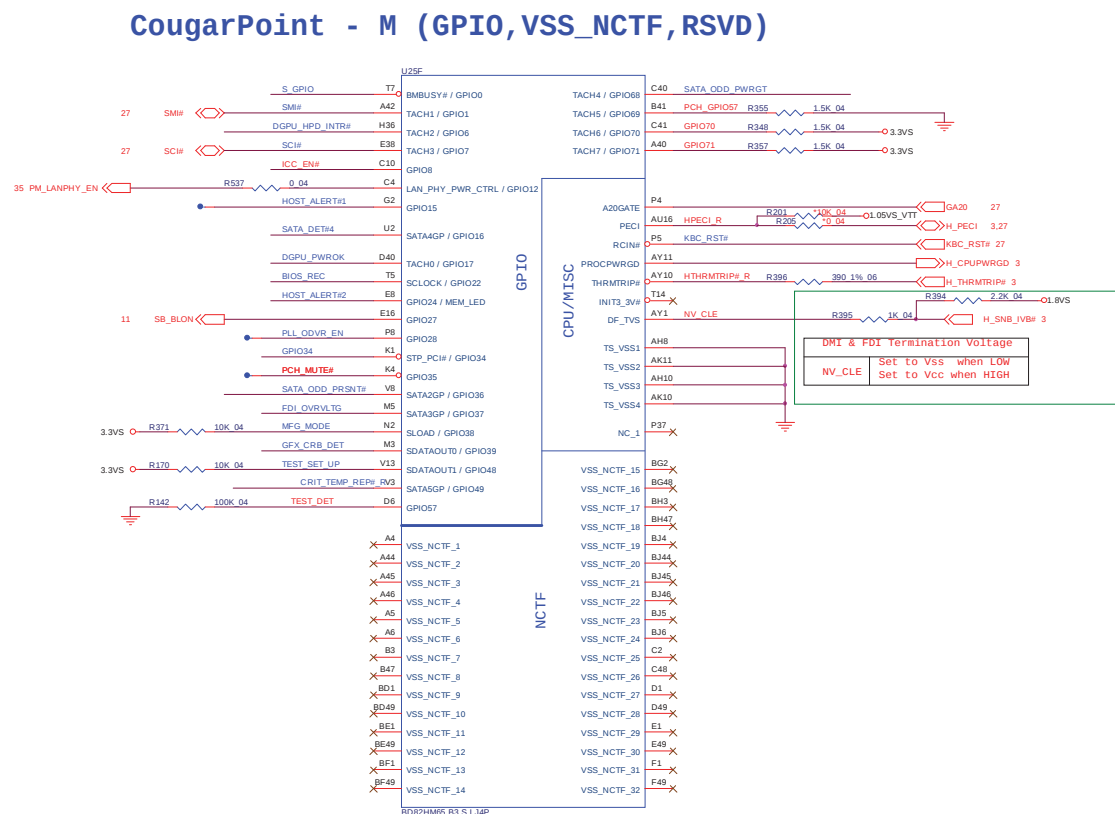
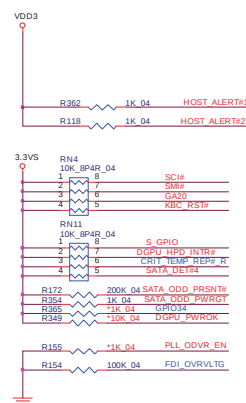
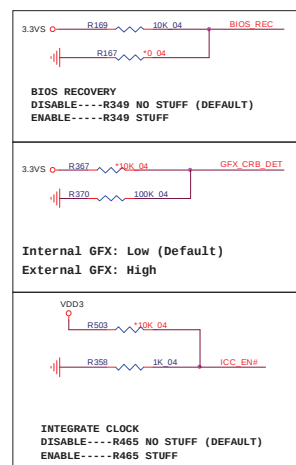
**CougarPoint -M
(LVDS, DDI, CRT)**

Sheet 18 of 48
Cougar Point M 5/9



Cougar Point M 6/9

Sheet 19 of 48
Cougar Point M 6/9

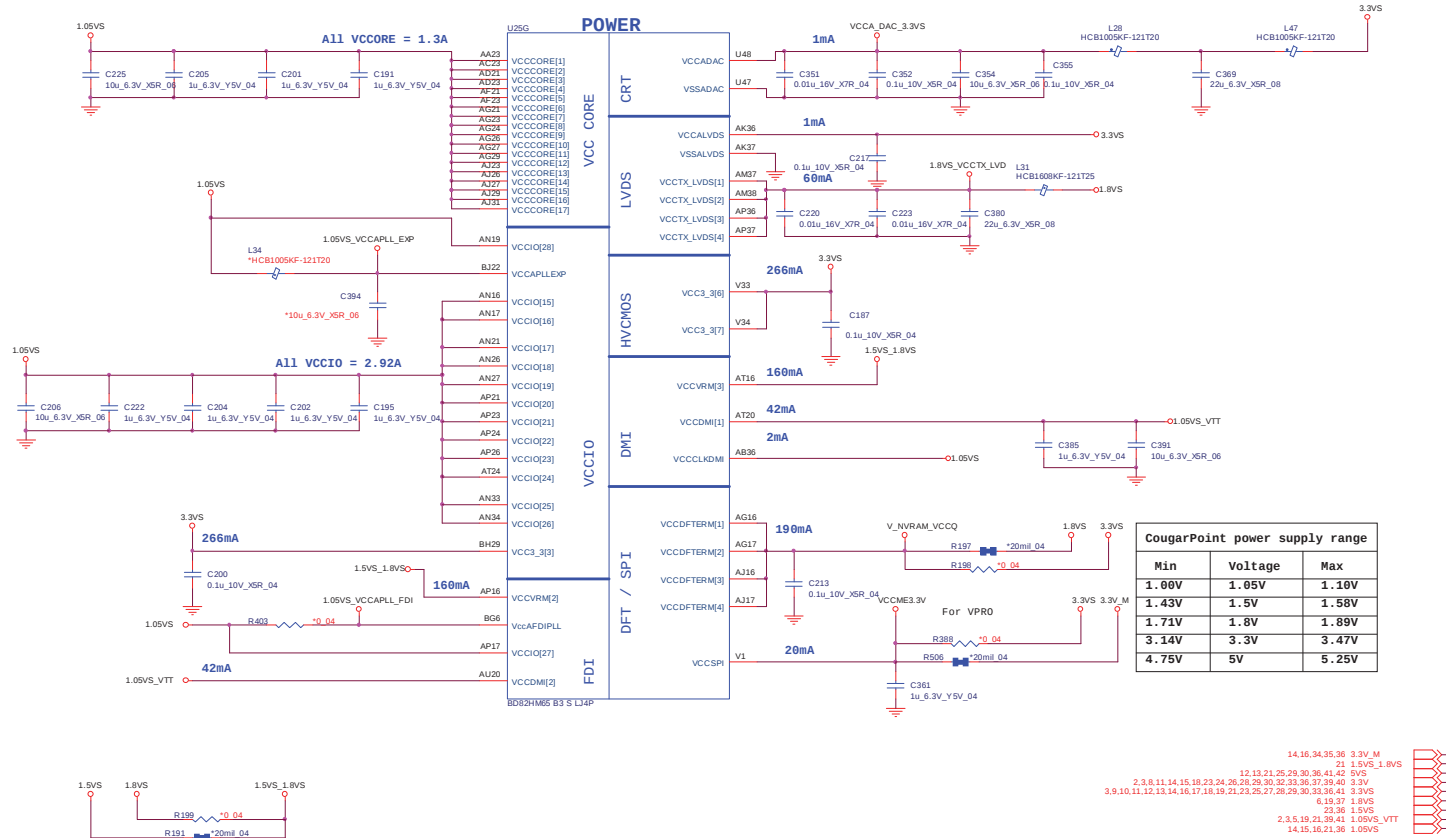


14,15,16,18,21,23,25,26,27,31,33,35,36,38,39,43 VDD3
2,3,5,20,21,39,41 1.05VS_VTT
6,20,37 1.8VS
2,3,8,11,14,15,18,23,24,26,28,29,30,32,33,36,37,39,40 3.3V
3,9,10,11,12,13,14,16,17,18,20,21,23,25,27,28,29,30,33,36,41 3.3VS



Cougar Point M 7/9

CougarPoint -M (POWER)



Sheet 20 of 48
Cougar Point M 7/9

Cougar Point M 8/9

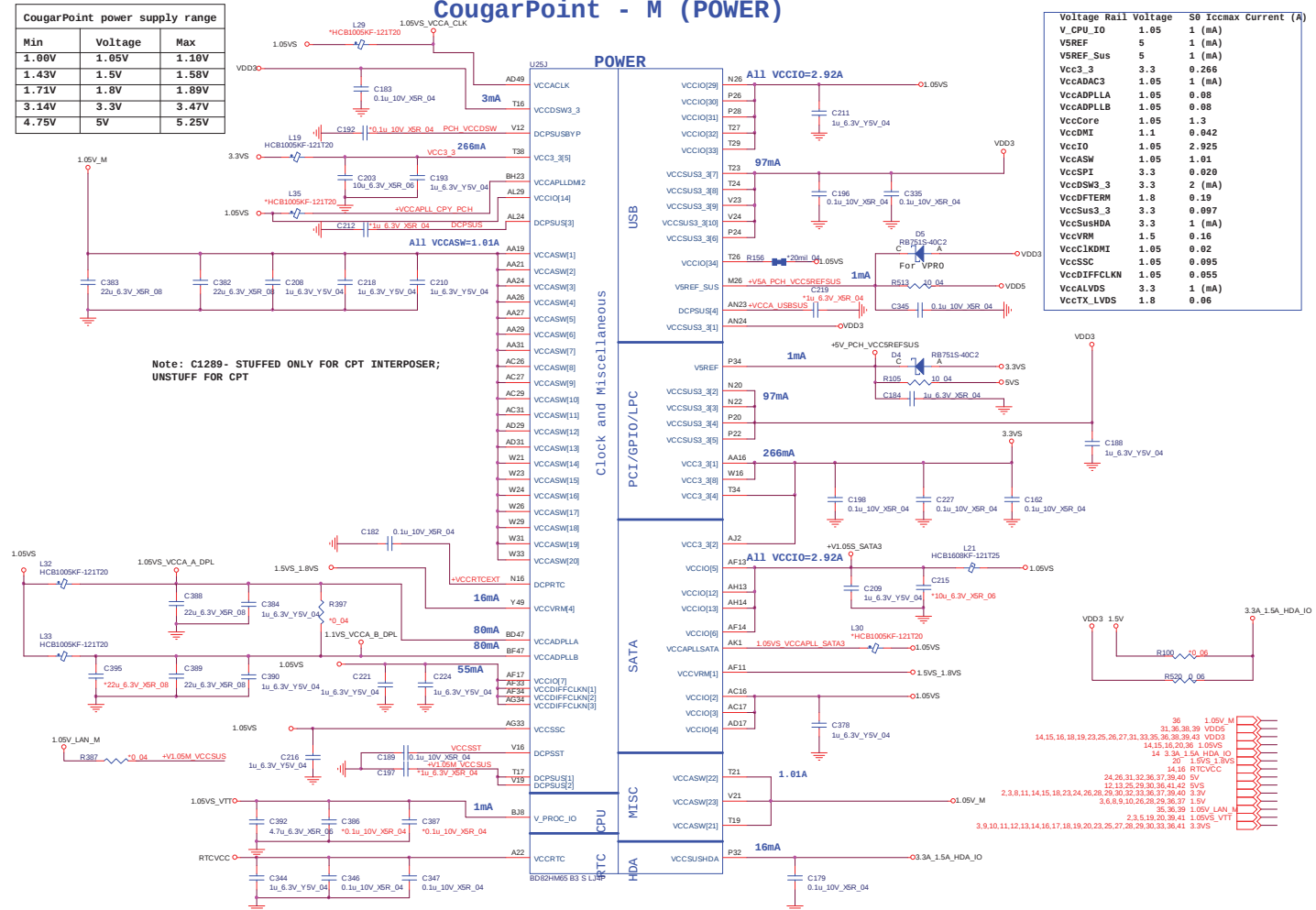
CougarPoint power supply range			
Min	Voltage	Max	
1.00V	1.05V	1.10V	
1.43V	1.5V	1.58V	
1.71V	1.8V	1.89V	
3.14V	3.3V	3.47V	
4.75V	5V	5.25V	

CougarPoint - M (POWER)

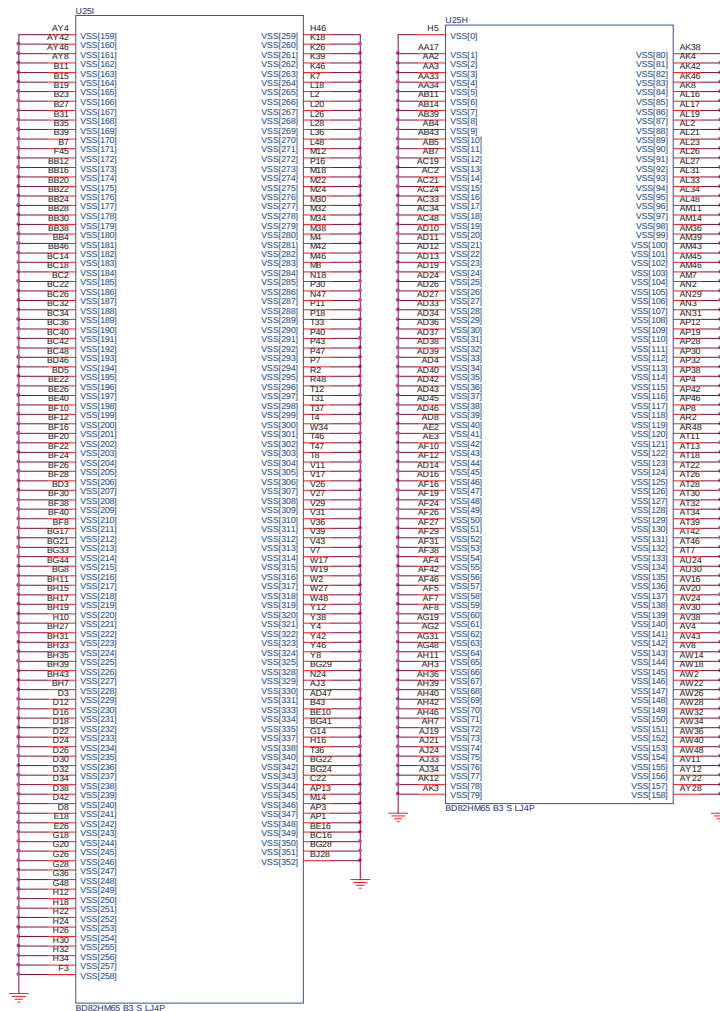
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_CPU_IO	1.05	1 (mA)
VSREF	5	1 (mA)
VSREF_Sus	5	1 (mA)
Vcc3_3	3.3	0.266
VccADAC3	1.05	1 (mA)
VccADPLLA	1.05	0.08
VccADPLL	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.1	0.042
VccIO	1.05	2.925
VccASW	1.05	1.01
VccSPT	3.3	0.020
VccDSW3_3	3.3	2 (mA)
VccDFTERM	1.8	0.19
VccSus3_3	3.3	0.097
VccSusHDA	3.3	1 (mA)
VccVRM	1.5	0.16
VccCLKDMI	1.05	0.02
VccSSC	1.05	0.095
VccDIFFCLKN	1.05	0.055
VccALVDS	2.3	1 (mA)
VccTX_LVDS	1.8	0.06

Sheet 21 of 48
Cougar Point M 8/9

B.Schematic Diagrams

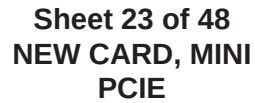


CougarPoint -M (GND)



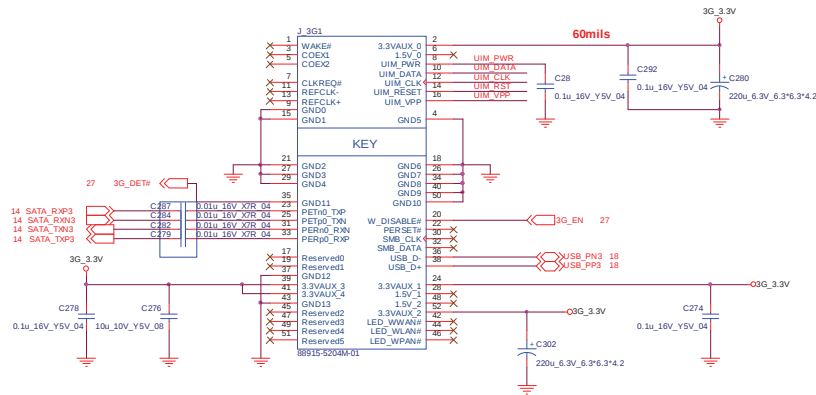
Cougar Point M 9/9 B - 23

NEW CARD(Port 3)

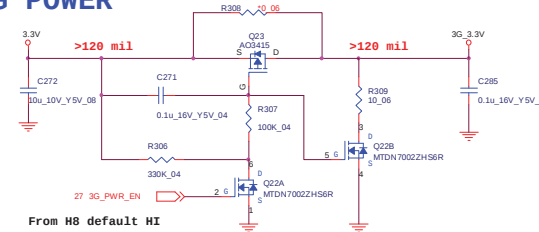


CCD, 3G

MINI CARD 3G(Port 6)

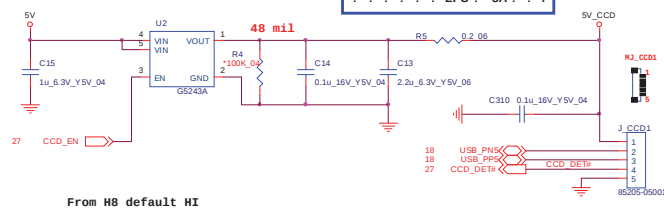


3G POWER



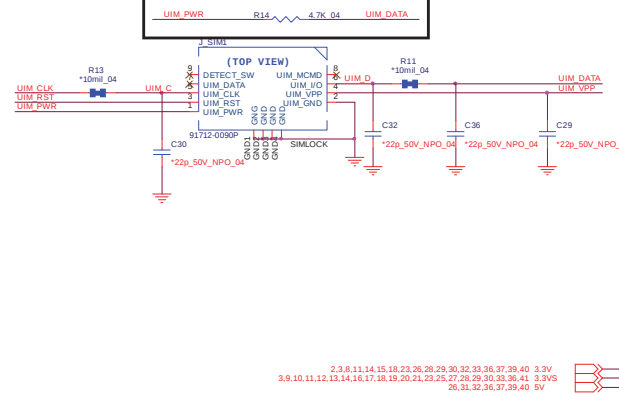
Sheet 24 of 48
CCD, 3G

CCD



SIM CONN

8mil



Schematic Diagrams

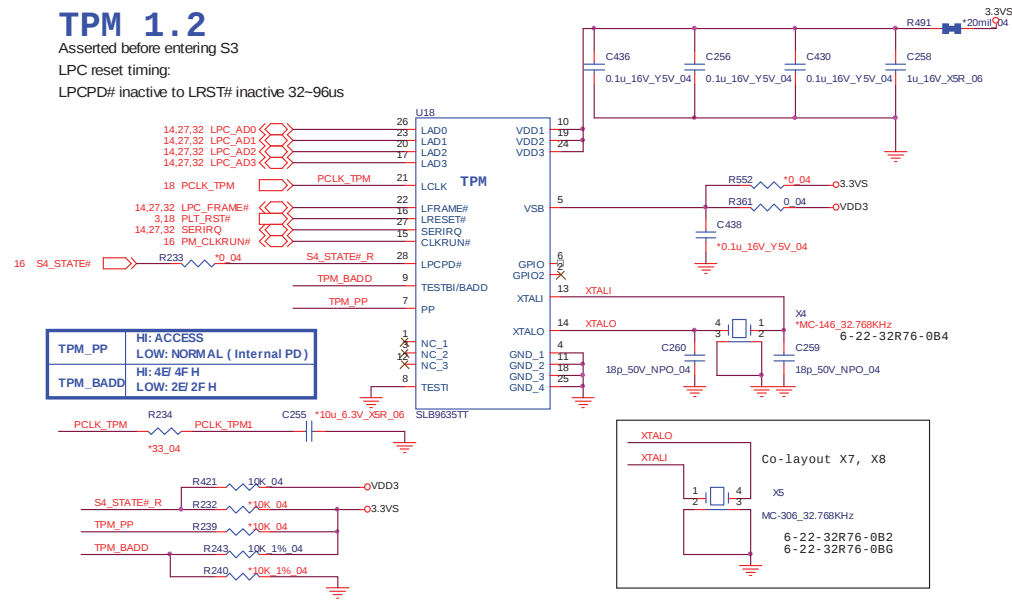
TPM, SATA HDD

TPM 1.2

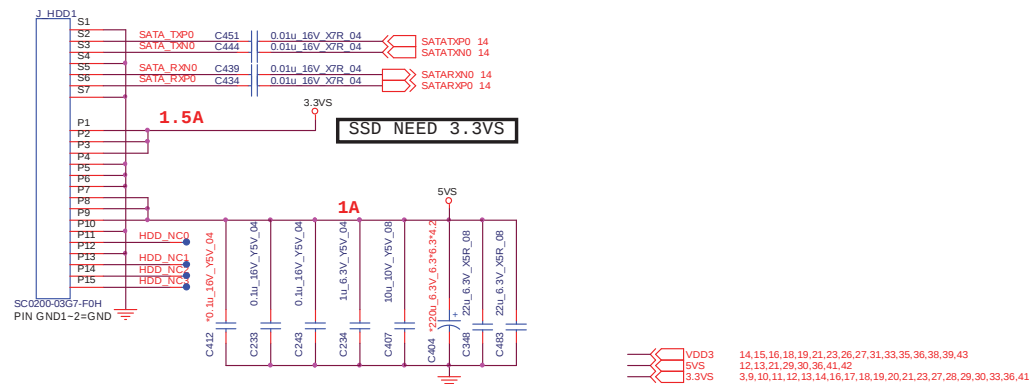
Asserted before entering S3

LPC reset timing:

LPCPD# inactive to LRST# inactive 32-96us



SATA HDD



The image shows a complex PCB layout for a USB3.0 interface. The layout is divided into several sections, including the USB3.0 PHY, USB3.0 Hub, and USB3.0 Connector. The USB3.0 PHY section includes a USB3.0 Hub and a USB3.0 Connector. The USB3.0 Hub section includes a USB3.0 Hub and a USB3.0 Connector. The USB3.0 Connector section includes a USB3.0 Hub and a USB3.0 Connector. The layout also includes various components like resistors, capacitors, and a USB3.0 Hub. It also includes a Bill of Materials (BOM) table and a USB3.0 Layout Guidelines section.

USB3.0 Layout Guidelines:

- USB3.0 Differential trace impedance: 90ohm
- Differential pairs The USB3.0 the total trace skew less than 5 mils.
- IC pad to USB Connector total length < 4"(Max)
- USB3.0 Capacitor 0.1u10V_X7R_04 Close to Connector.
- PCie Differential Impedance 85 ohm.
- PCie For transmitter and receiver the total trace length: 1"(Min)--6"(Max).
- PCie Number of vias 4via hole(Max).
- PCie clock Differential Impedance 90 ohm.
- PCie Differential pairs and pairs spacing 20mils, with Other trace spacing 25mils.
- Power Trace width=20mils, Spacing=80 mils.

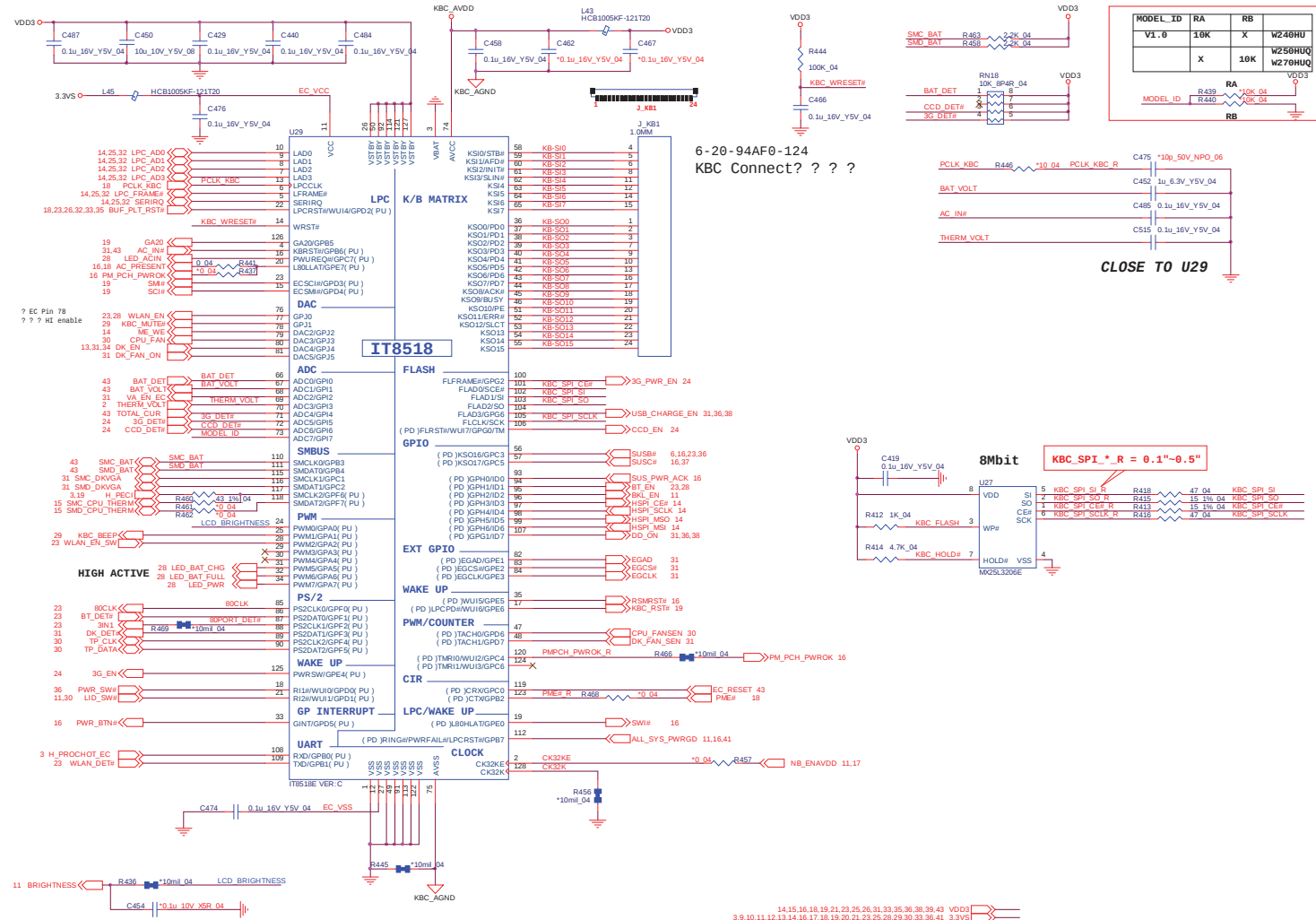
Bill of Materials (BOM) Table:

Part no	PartName	Quantity	Unit
U10	USB3.0 Hub	1	PCB
U11	USB3.0 Connector	1	PCB
U12	USB3.0 Hub	1	PCB
U13	USB3.0 Connector	1	PCB
U14	USB3.0 Hub	1	PCB
U15	USB3.0 Connector	1	PCB
U16	USB3.0 Hub	1	PCB
U17	USB3.0 Connector	1	PCB
U18	USB3.0 Hub	1	PCB
U19	USB3.0 Connector	1	PCB
U20	USB3.0 Hub	1	PCB
U21	USB3.0 Connector	1	PCB
U22	USB3.0 Hub	1	PCB
U23	USB3.0 Connector	1	PCB
U24	USB3.0 Hub	1	PCB
U25	USB3.0 Connector	1	PCB
U26	USB3.0 Hub	1	PCB
U27	USB3.0 Connector	1	PCB
U28	USB3.0 Hub	1	PCB
U29	USB3.0 Connector	1	PCB
U30	USB3.0 Hub	1	PCB
U31	USB3.0 Connector	1	PCB
U32	USB3.0 Hub	1	PCB
U33	USB3.0 Connector	1	PCB
U34	USB3.0 Hub	1	PCB
U35	USB3.0 Connector	1	PCB
U36	USB3.0 Hub	1	PCB
U37	USB3.0 Connector	1	PCB
U38	USB3.0 Hub	1	PCB
U39	USB3.0 Connector	1	PCB
U40	USB3.0 Hub	1	PCB
U41	USB3.0 Connector	1	PCB
U42	USB3.0 Hub	1	PCB
U43	USB3.0 Connector	1	PCB
U44	USB3.0 Hub	1	PCB
U45	USB3.0 Connector	1	PCB
U46	USB3.0 Hub	1	PCB
U47	USB3.0 Connector	1	PCB
U48	USB3.0 Hub	1	PCB
U49	USB3.0 Connector	1	PCB
U50	USB3.0 Hub	1	PCB
U51	USB3.0 Connector	1	PCB
U52	USB3.0 Hub	1	PCB
U53	USB3.0 Connector	1	PCB
U54	USB3.0 Hub	1	PCB
U55	USB3.0 Connector	1	PCB
U56	USB3.0 Hub	1	PCB
U57	USB3.0 Connector	1	PCB
U58	USB3.0 Hub	1	PCB
U59	USB3.0 Connector	1	PCB
U60	USB3.0 Hub	1	PCB
U61	USB3.0 Connector	1	PCB
U62	USB3.0 Hub	1	PCB
U63	USB3.0 Connector	1	PCB
U64	USB3.0 Hub	1	PCB
U65	USB3.0 Connector	1	PCB
U66	USB3.0 Hub	1	PCB
U67	USB3.0 Connector	1	PCB
U68	USB3.0 Hub	1	PCB
U69	USB3.0 Connector	1	PCB
U70	USB3.0 Hub	1	PCB
U71	USB3.0 Connector	1	PCB
U72	USB3.0 Hub	1	PCB
U73	USB3.0 Connector	1	PCB
U74	USB3.0 Hub	1	PCB
U75	USB3.0 Connector	1	PCB
U76	USB3.0 Hub	1	PCB
U77	USB3.0 Connector	1	PCB
U78	USB3.0 Hub	1	PCB
U79	USB3.0 Connector	1	PCB
U80	USB3.0 Hub	1	PCB
U81	USB3.0 Connector	1	PCB
U82	USB3.0 Hub	1	PCB
U83	USB3.0 Connector	1	PCB
U84	USB3.0 Hub	1	PCB
U85	USB3.0 Connector	1	PCB
U86	USB3.0 Hub	1	PCB
U87	USB3.0 Connector	1	PCB
U88	USB3.0 Hub	1	PCB
U89	USB3.0 Connector	1	PCB
U90	USB3.0 Hub	1	PCB
U91	USB3.0 Connector	1	PCB
U92	USB3.0 Hub	1	PCB
U93	USB3.0 Connector	1	PCB
U94	USB3.0		

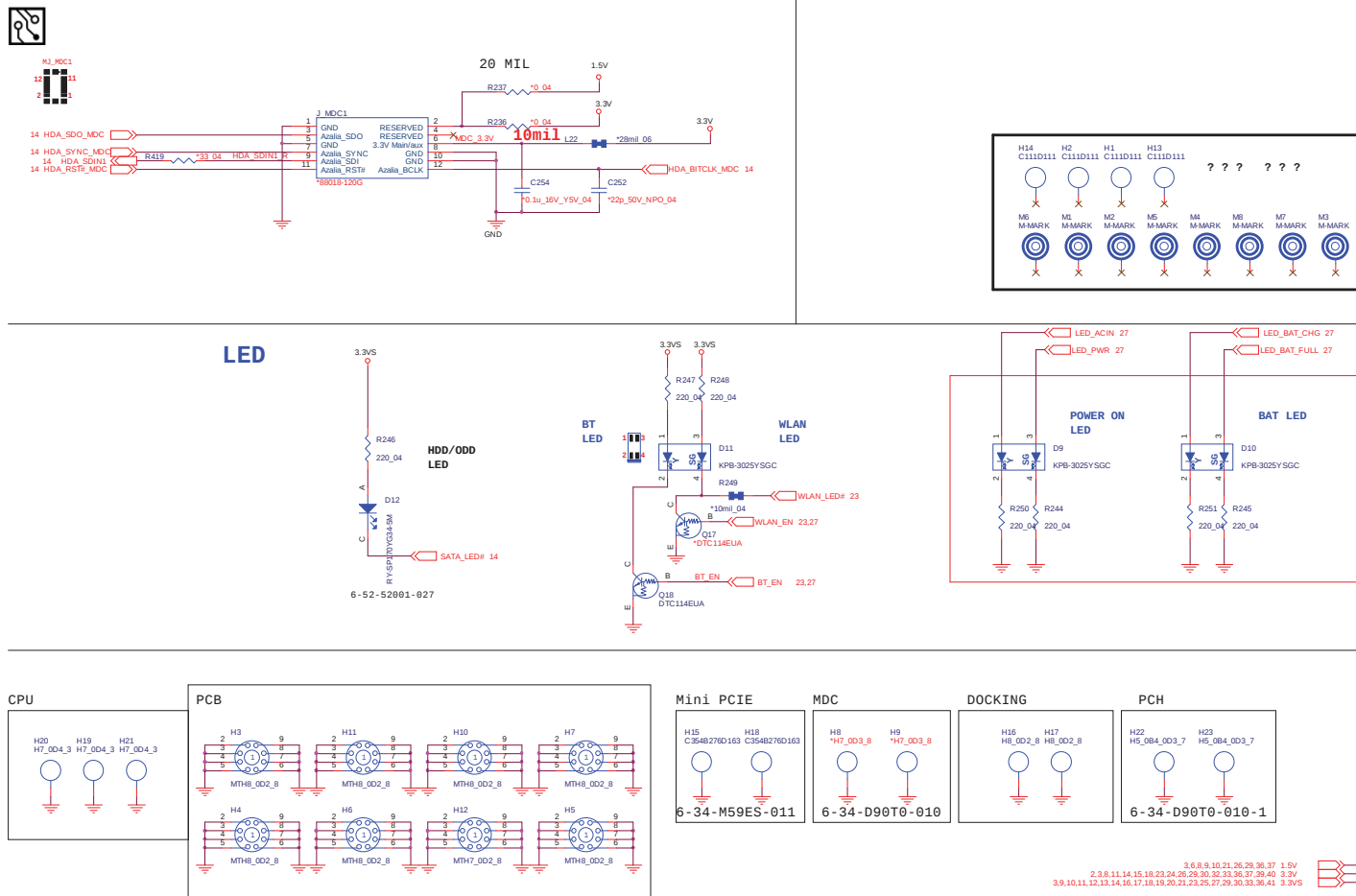
TI TUSB7320 USB3.0 B - 27

KBC-ITE IT8518

Sheet 27 of 48
KBC-ITE IT8518



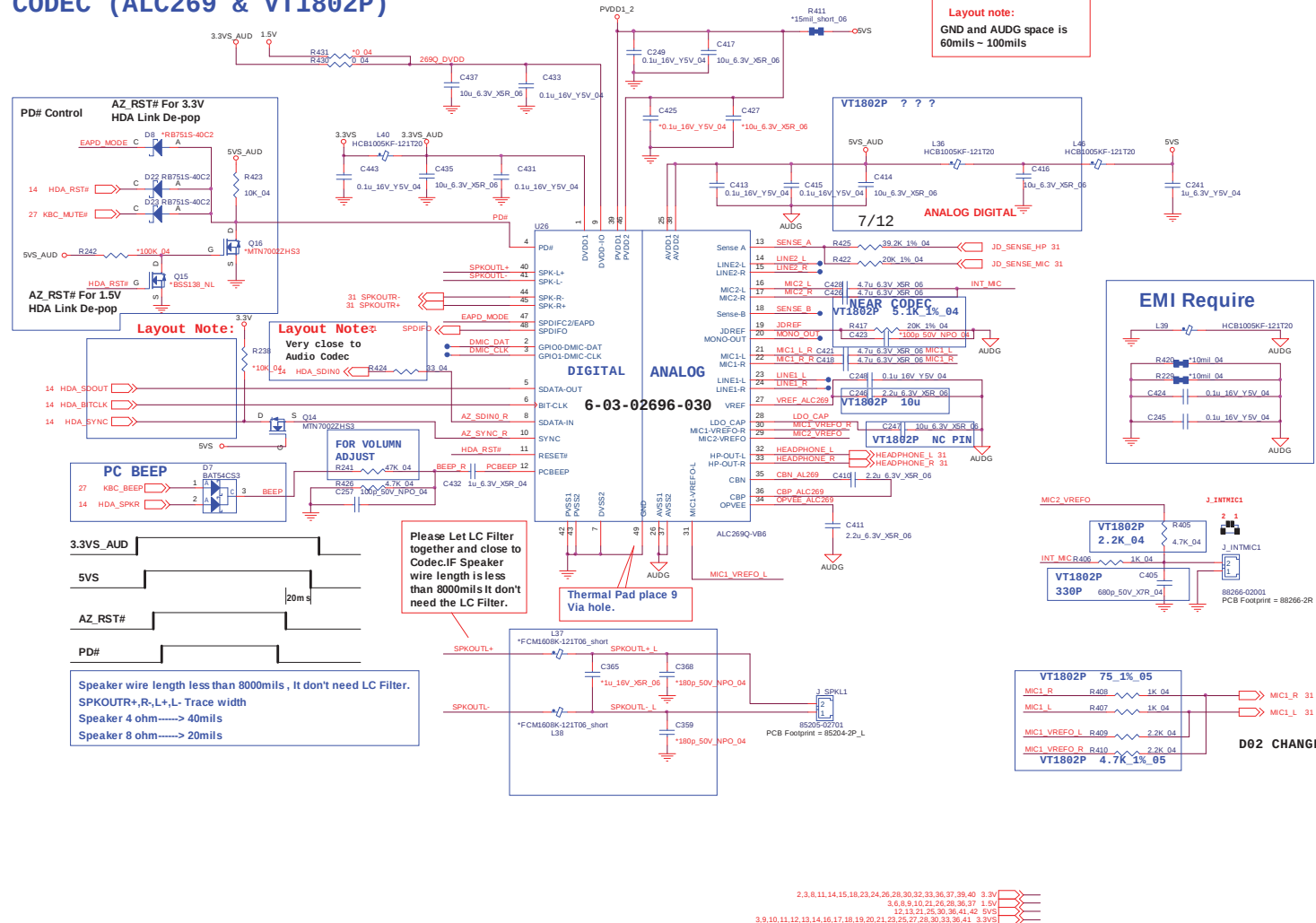
LED, MDC



Sheet 28 of 48
LED, MDC

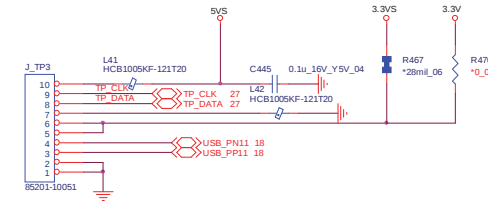
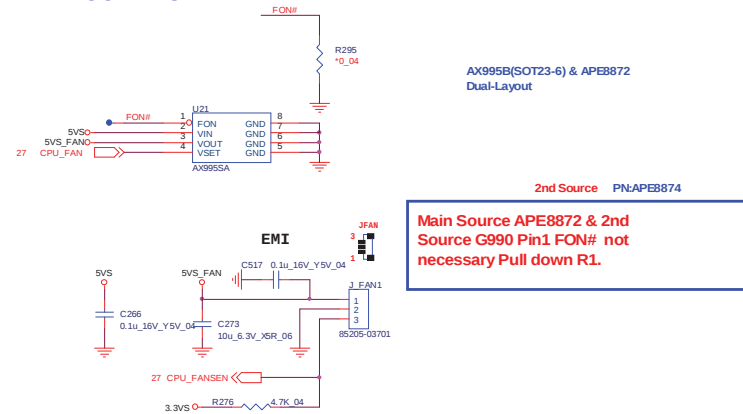
AUDIO CODEC ALC269Q

CODEC (ALC269 & VT1802P)



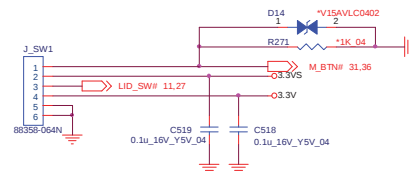
Sheet 29 of 48
AUDIO CODEC
ALC269Q

CLICK B'd CONN



Sheet 30 of 48
POWER CON, FAN,
TP, CLICK CON

FOR POWER SWITCH BOARD

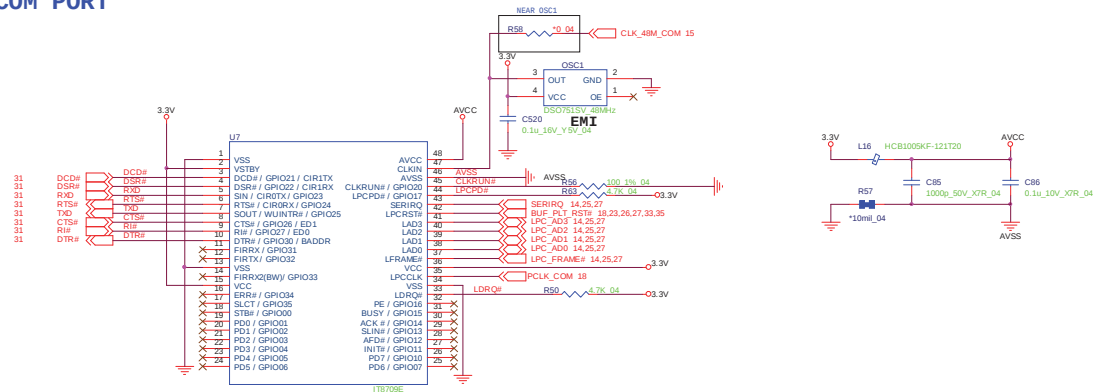


2,3,8,11,14,15,18,23,24,26,28,29,32,33,36,37,39,40 3.3V
12,13,21,25,29,36,41,42 5VS
3,9,10,11,12,13,14,16,17,18,19,20,21,23,25,27,28,29,33,36,41 3.3VS

Sheet 31 of 48
DOCKING
CONNECTOR, USB
Charger



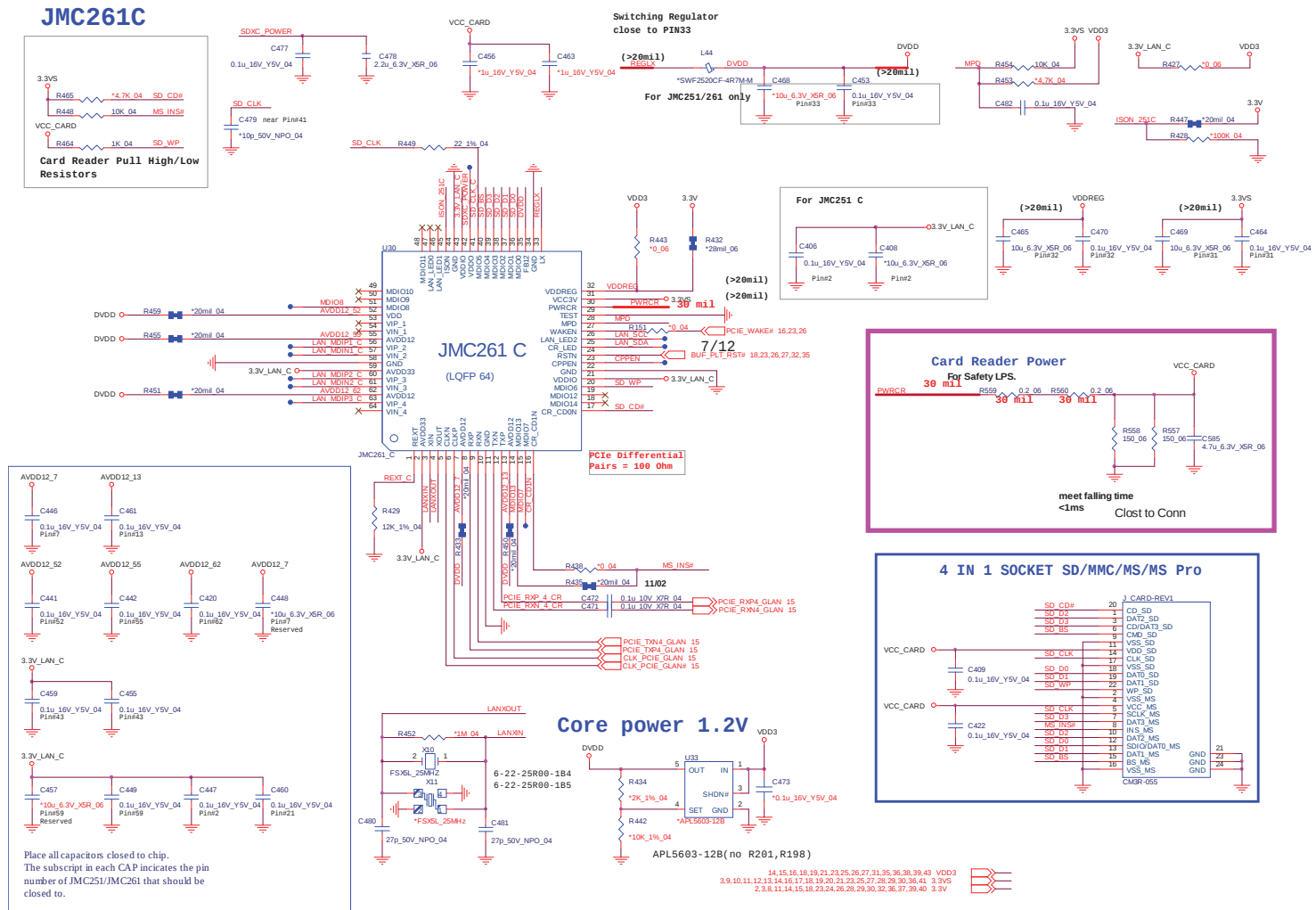
Docking COM PORT



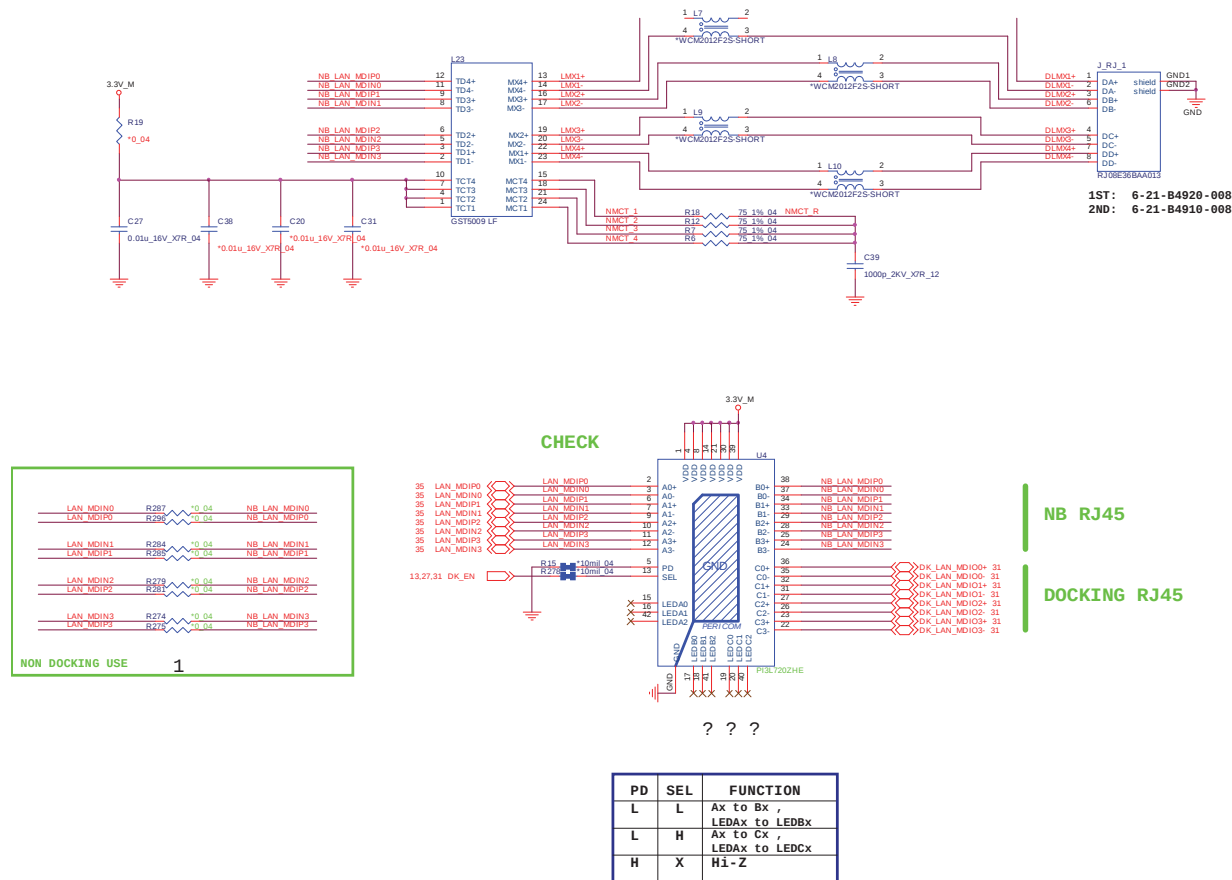
Sheet 32 of 48
COM PORT,
ESATA+USB

CARD READER JMC261C

Sheet 33 of 48
CARD READER
JMC261C

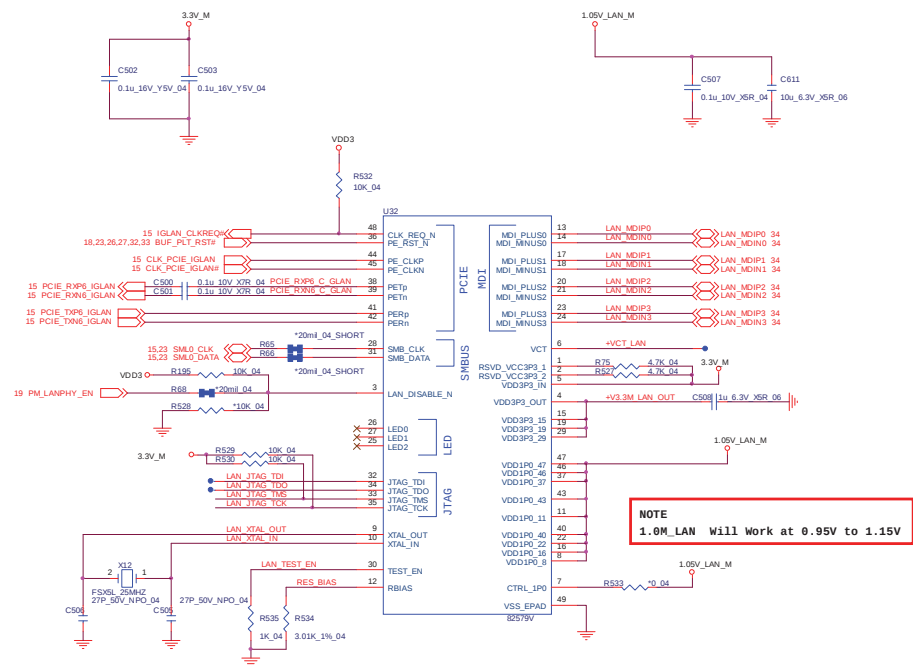


LAN (INTEL LAN82579)



Sheet 34 of 48
LAN (INTEL
LAN82579)

Sheet 35 of 48
INTEL
LAN82579LM



	U25	U32	U28	U41	U27
VPRO	QM67 6-03-08267-0S1	82579LM 6-03-82579-030-S6	MX25L3206E 6-04-25320-490	MX25L3206E 6-04-25320-490	PM25LD010C-SCE 6-04-25010-A91
non-VPRO	HM65 6-03-08265-0S1	82579V 6-03-82579-031-S6	NI	NI	MX25L3206E 6-04-25320-490

21,36,39 1.05V LAN_M
14,16,20,34,36 3.3V_M
14,15,16,18,19,21,23,25,26,27,31,33,36,38,39,43 VDD3

The image displays 12 circuit diagrams for various power planes and a table of component values. The diagrams are arranged in a grid-like fashion, with some diagrams showing multiple views or different components for the same plane.

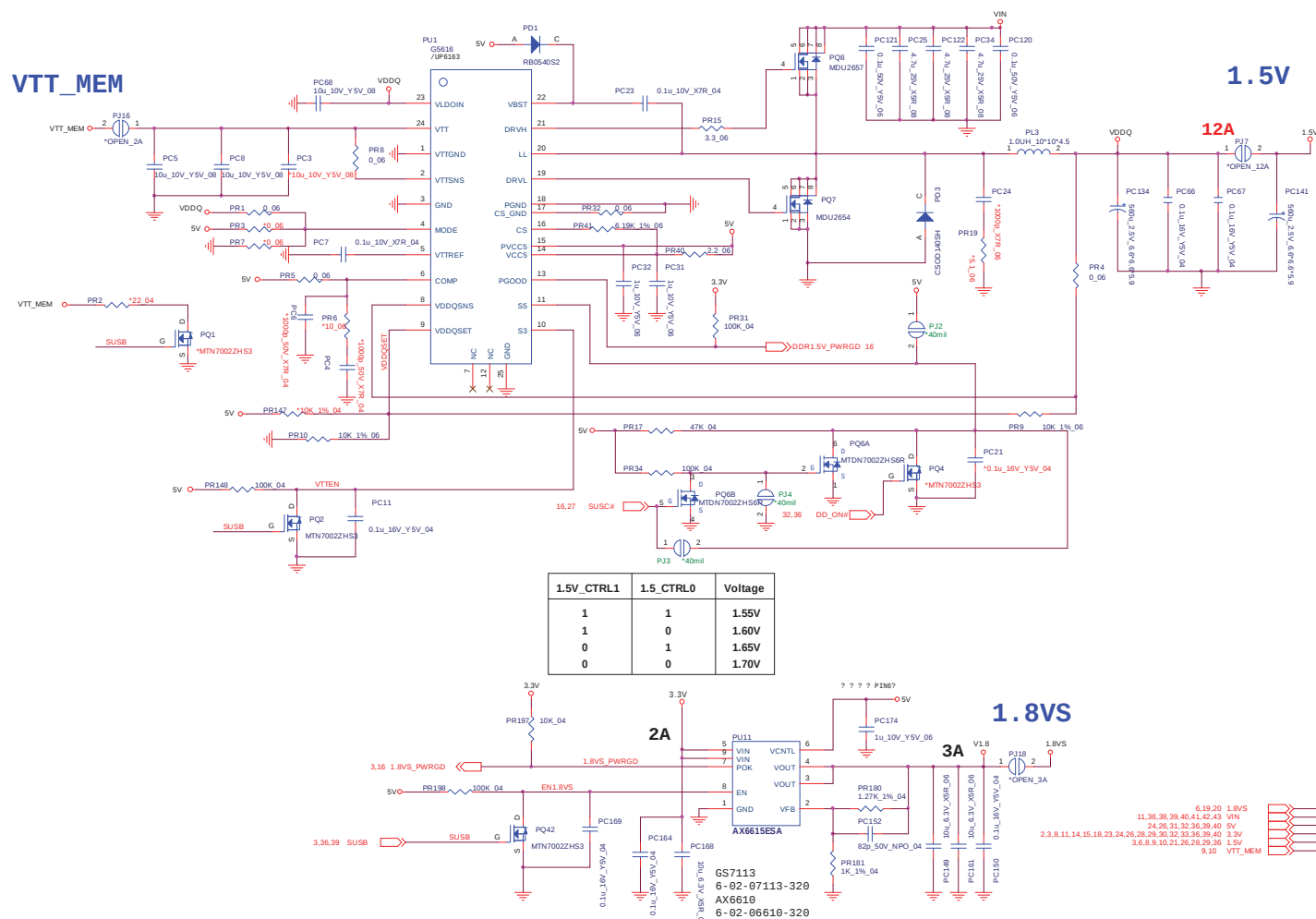
- 1.05V_M**: Shows a power plane with components like PC185, PC186, PC187, PC188, PC189, PC190, PC191, PC192, PC193, PC194, PC195, PC196, PC197, PC198, PC199, PC200, PC201, PC202, PC203, PC204, PC205, PC206, PC207, PC208, PC209, PC210, PC211, PC212, PC213, PC214, PC215, PC216, PC217, PC218, PC219, PC220, PC221, PC222, PC223, PC224, PC225, PC226, PC227, PC228, PC229, PC230, PC231, PC232, PC233, PC234, PC235, PC236, PC237, PC238, PC239, PC240, PC241, PC242, PC243, PC244, PC245, PC246, PC247, PC248, PC249, PC250, PC251, PC252, PC253, PC254, PC255, PC256, PC257, PC258, PC259, PC260, PC261, PC262, PC263, PC264, PC265, PC266, PC267, PC268, PC269, PC270, PC271, PC272, PC273, PC274, PC275, PC276, PC277, PC278, PC279, PC280, PC281, PC282, PC283, PC284, PC285, PC286, PC287, PC288, PC289, PC290, PC291, PC292, PC293, PC294, PC295, PC296, PC297, PC298, PC299, PC300, PC301, PC302, PC303, PC304, PC305, PC306, PC307, PC308, PC309, PC310, PC311, PC312, PC313, PC314, PC315, PC316, PC317, PC318, PC319, 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		100V, 1	14, 16, 18, 20, 21
		100V, 1M	21
		2.7V, 4M	14, 16, 20, 24, 26
		100V, 1AN, 1M	21, 26, 30
		2.7V, 4M	14, 16, 18, 20, 21, 24, 26, 27, 29, 30, 32, 34
		2.3, 3V	2, 3, 11, 14, 15, 16, 20, 24, 26, 29, 30, 32, 37, 38
		100V	12, 13, 15, 20, 26, 31, 41, 43
		11.7V, 3M	30, 36, 40, 41, 42, 43
		5V, 510V	26, 30, 39
	15V	31, 43	
	5V, CPU	3, 8	
	1.5V	3, 6, 8, 9, 10, 21, 26, 29, 30, 37	
		24, 25, 32, 37, 38, 40	
	VPI1	30	
	VPI2	30	
	EC03	14, 15, 16, 18, 19, 21, 23, 25, 26, 31, 33, 36, 38, 39, 43	
		21, 25, 30	

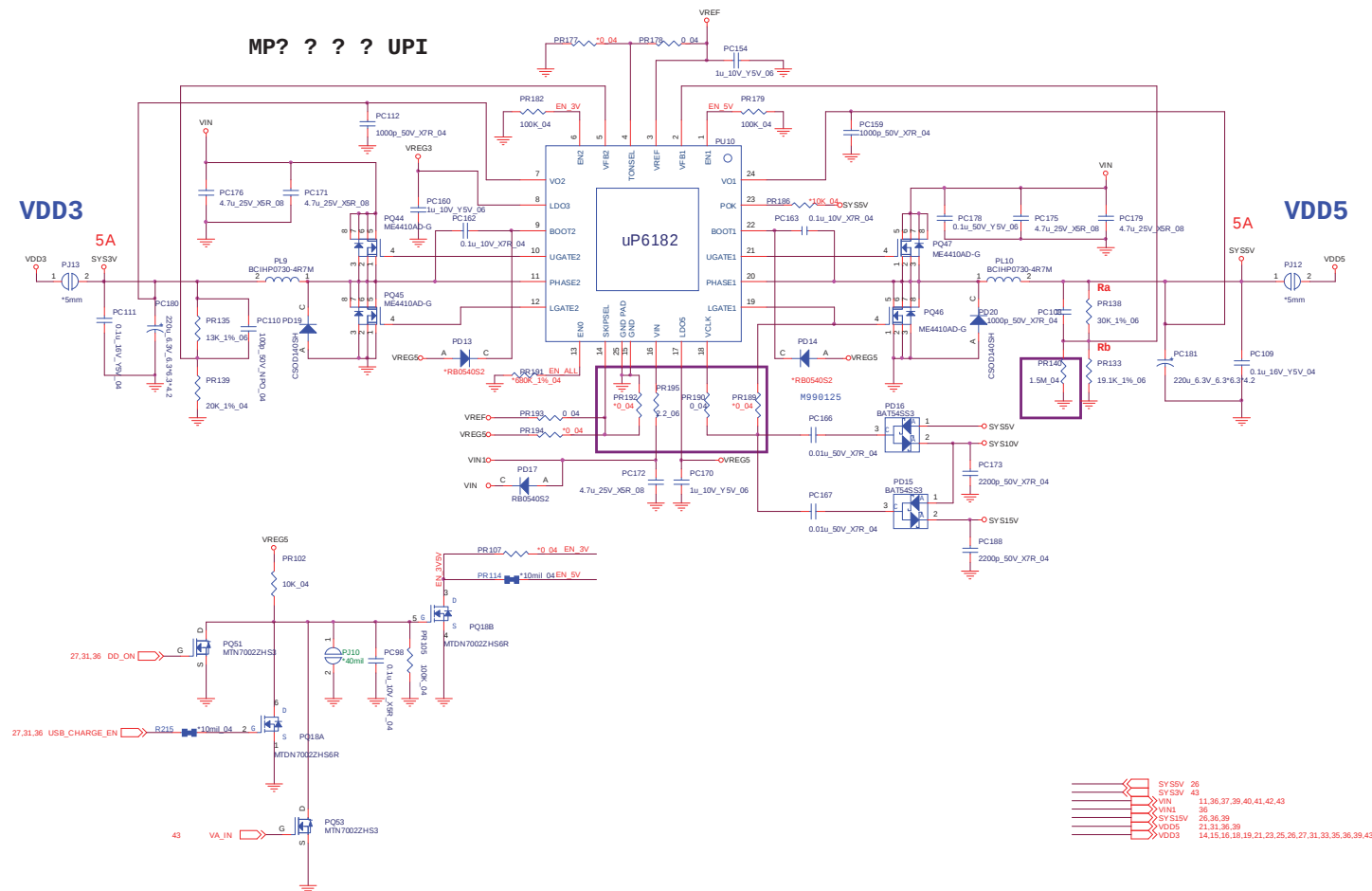
Power 1.5V/0.75V,1.8VS

B.Schematic Diagrams

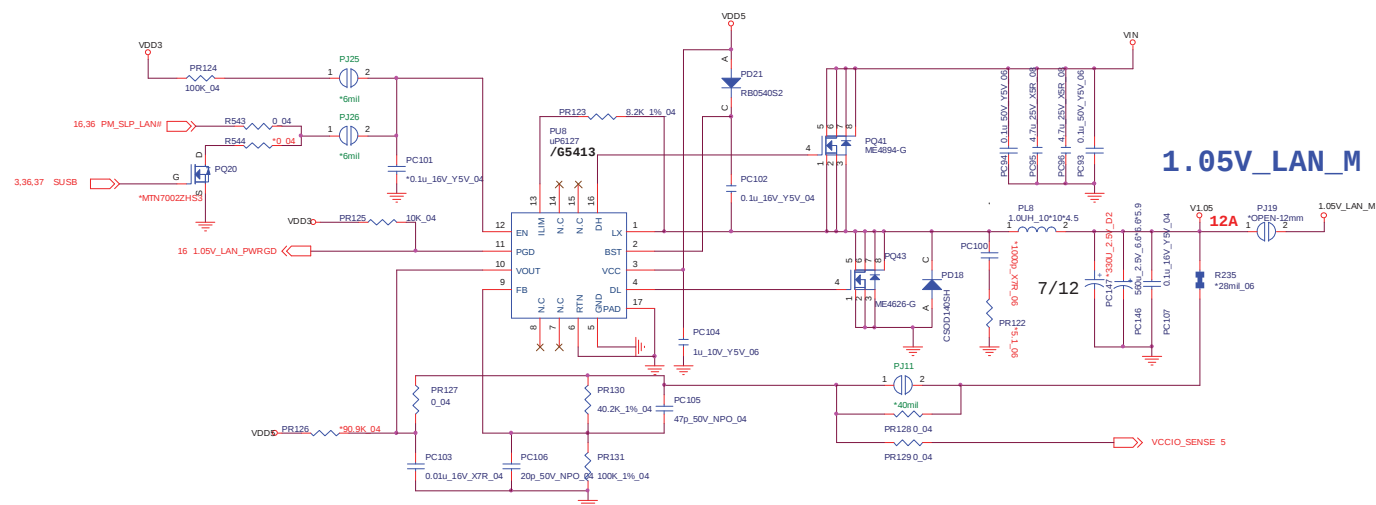
Sheet 37 of 48
Power 1.5V/
0.75V,1.8VS



VDD3, VDD5 B - 39

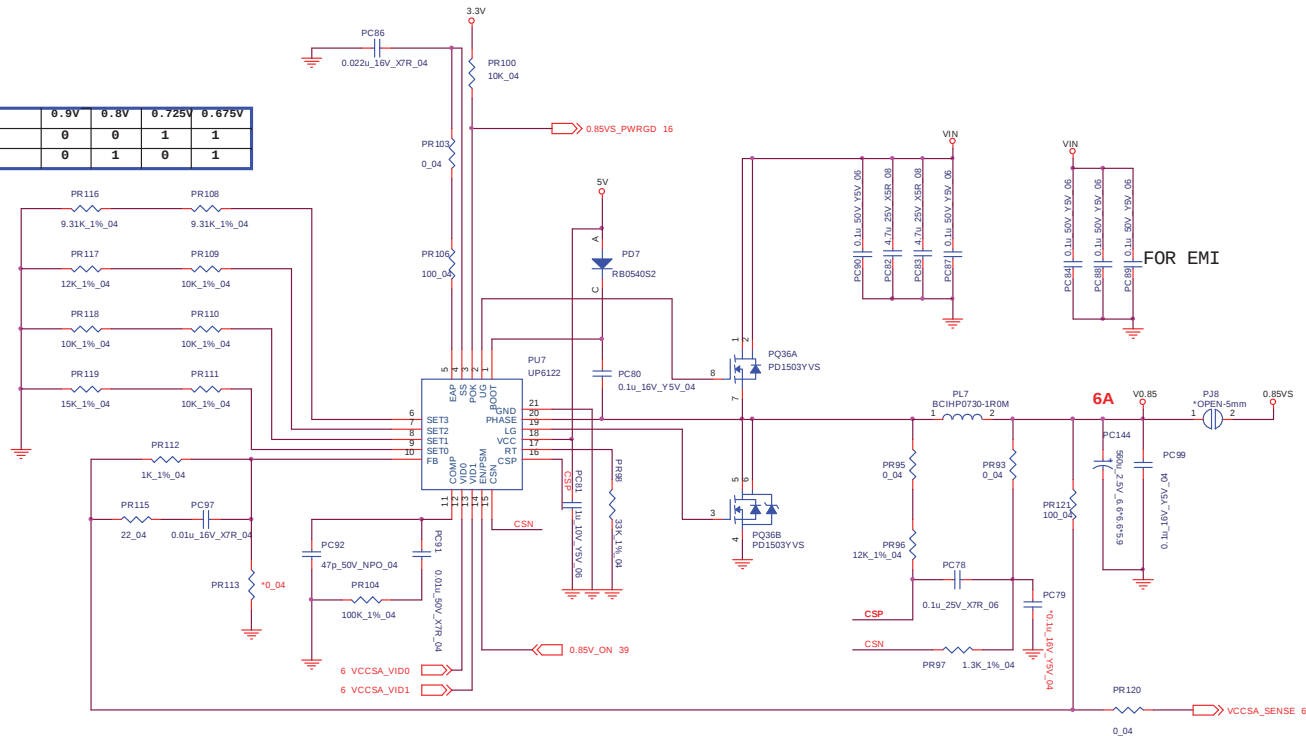


Sheet 39 of 48
POWER 1.05V LAN
M

[illegible]

POWER 0.85VS

	0.9V	0.8V	0.725V	0.675V
VCCSA_VID0	0	0	1	1
VCCSA_VID1	0	1	0	1



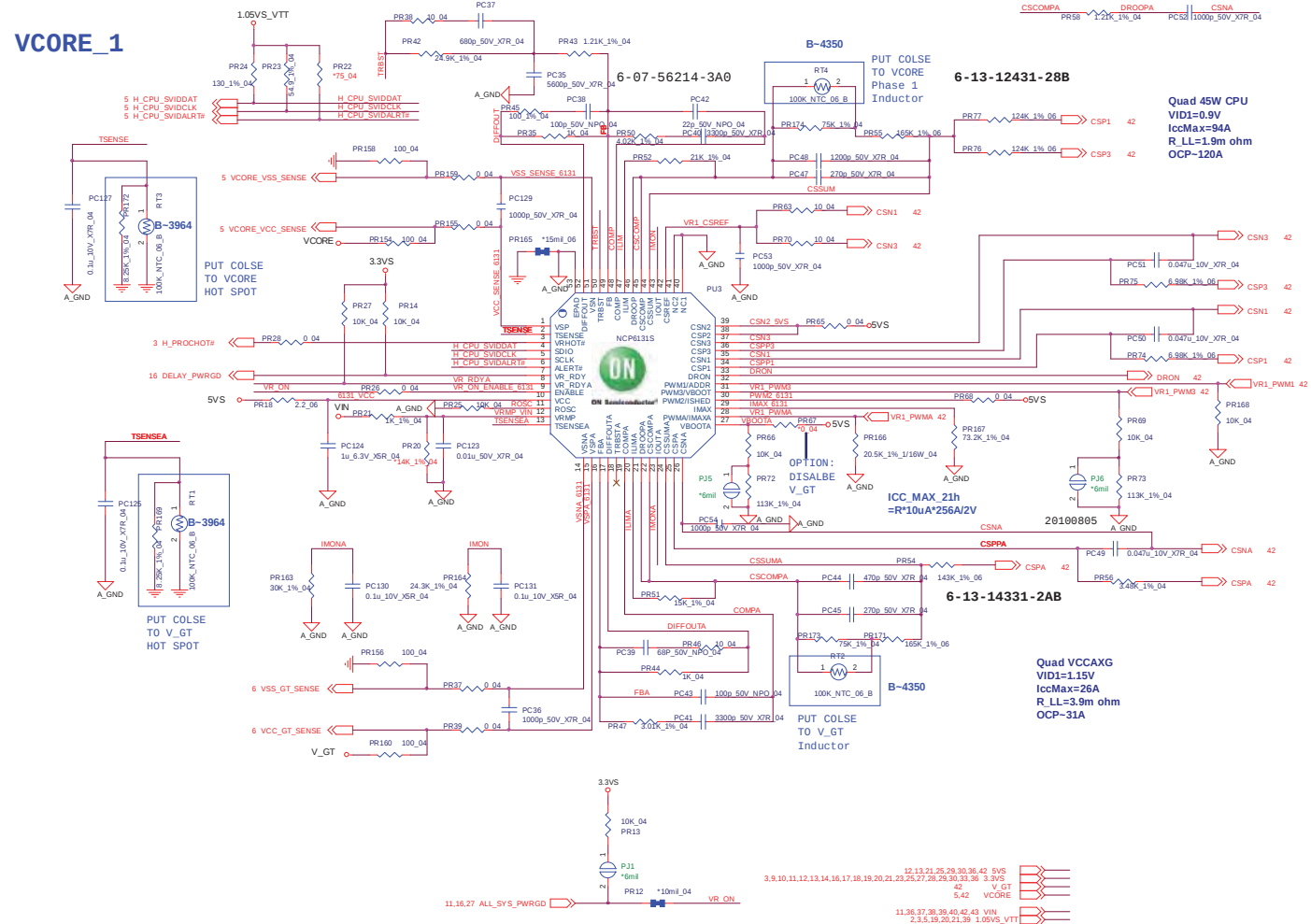
5V 24,26,31,32,36,37,39
 0.85VS 0
 VIN 11,36,37,38,39,41,42,43
 3.3V 2,3,8,11,14,15,18,23,24,26,28,29,30,32,33,36,37,39

Sheet 40 of 48
POWER 0.85VS

Power V-CORE 1

VCORE_1

Sheet 41 of 48
Power V-CORE 1



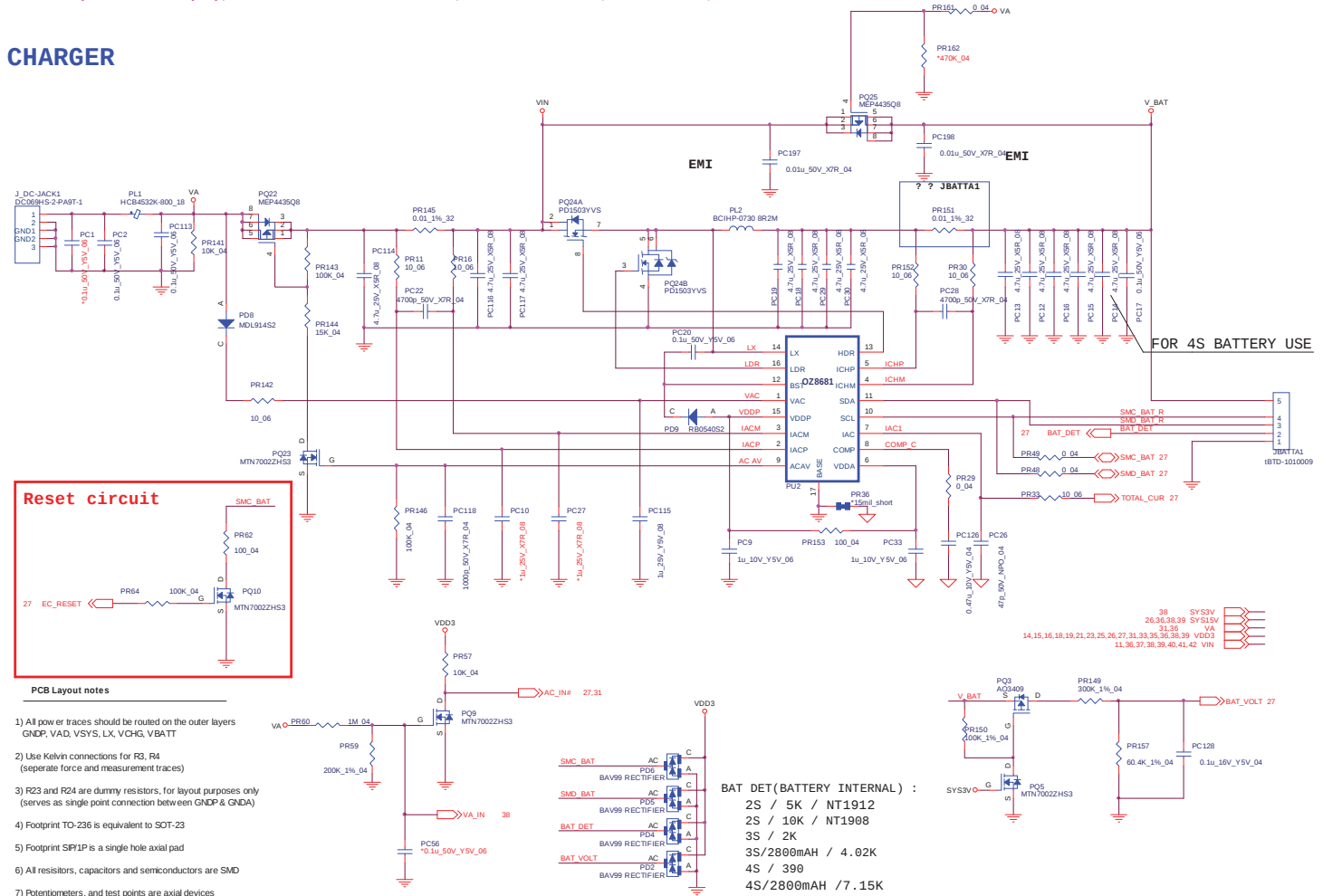
VCORE_2



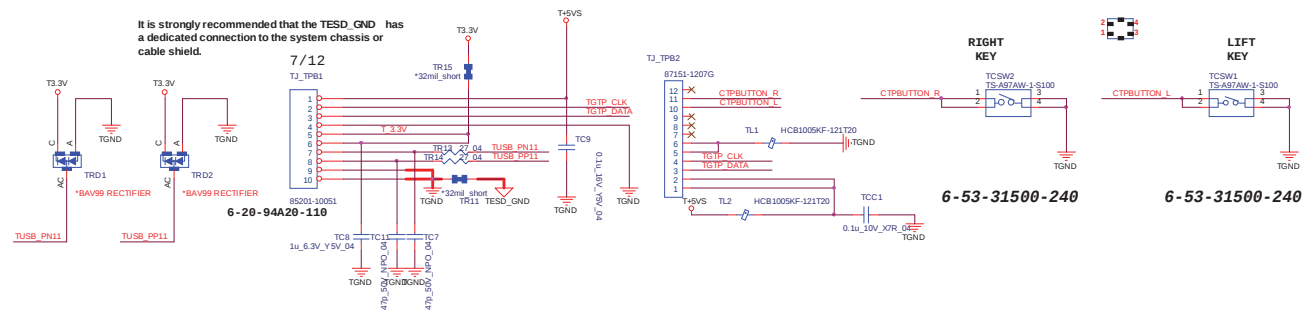
CHARGE, DC IN

? Adapter ? ? 120W(?), ? ? ? ? ? ? ? ? 2PCS MOSFET, 180W~220W : 3PCS , 300W: 4PCS , 360W: 5PCS

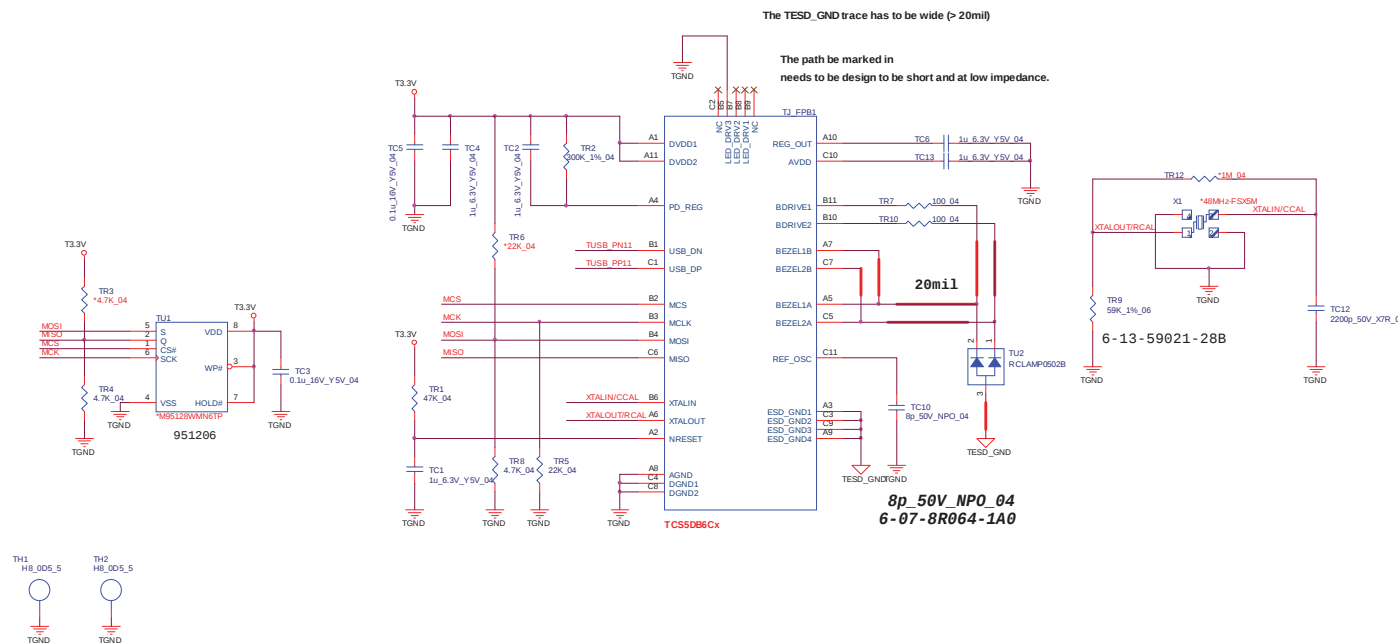
CHARGER



CLICK BOARD/ FG

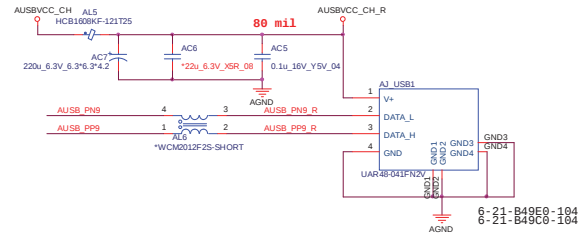


Sheet 44 of 48
CLICK BOARD/ FG

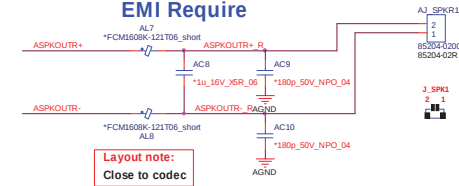


AUDIO BOARD/ USB, HP, MIC

USB PORT

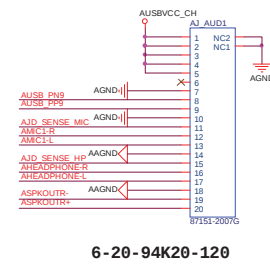


EMI Require



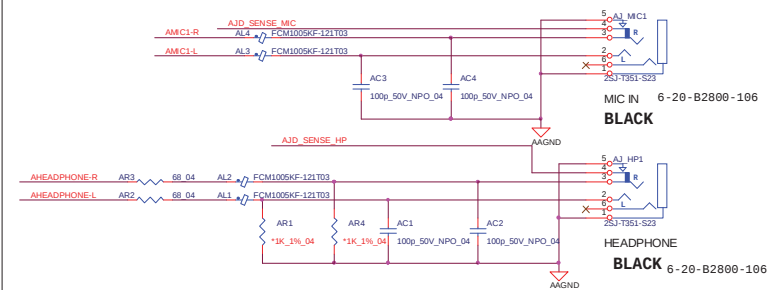
Layout note:
Close to codec

TO M/B



6-20-94K20-120

AUDIO JACK

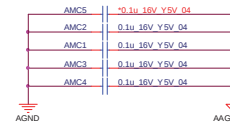


MIC IN 6-20-B2800-106

BLACK

HEADPHONE

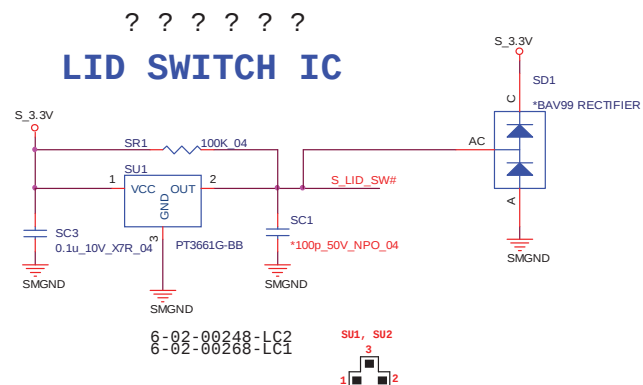
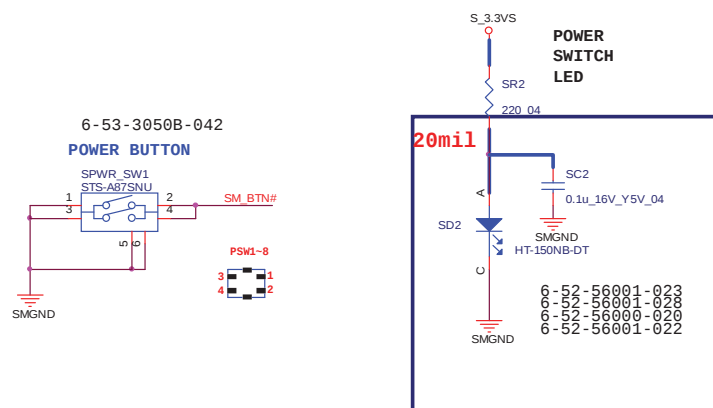
BLACK 6-20-B2800-106



Sheet 45 of 48
AUDIO BOARD/
USB, HP, MIC

POWER SWITCH

POWER SW & LED & HOT KEY



Sheet 46 of 48
POWER SWITCH

