

Compal Confidential

EH5LP/AP Schematics Document

AMD Picasso Ridge Platform

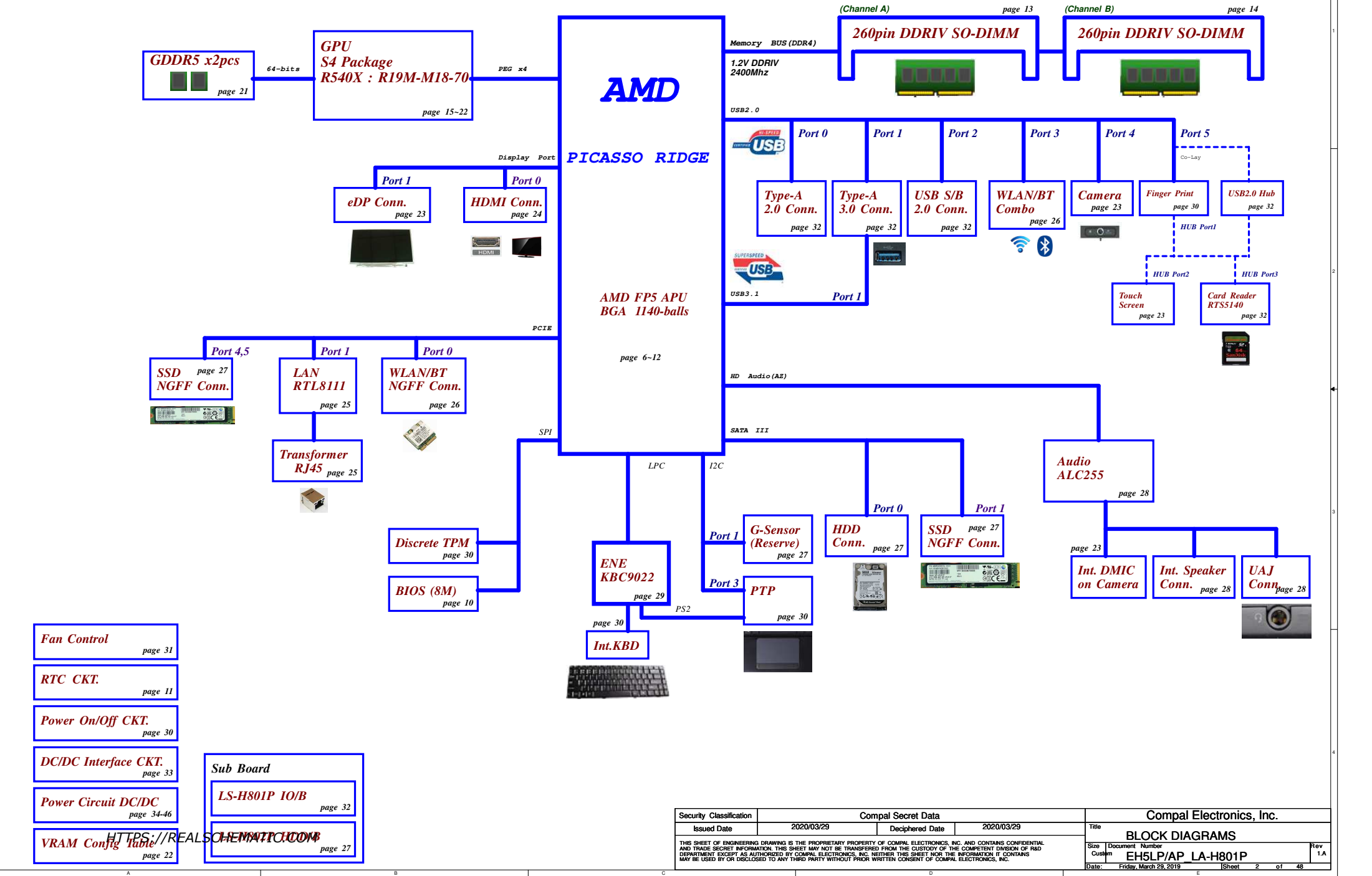
AMD R19M-M18-70

LA-H801P REV:1.A

2019-03-29

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Voltage Rails

Power Plane	Description	S0	S3	S5
+19V_VIN	Adapter power supply (19V)	ON	ON	ON
+19VB	AC or battery power rail for power circuit.	ON	ON	ON
+APU_CORE	Core voltage for APU	ON	OFF	OFF
+APU_CORE_NB	Voltage for On-die VGA of APU	ON	OFF	OFF
+0.8VALW	0.8V always on power rail	ON	ON	OFF
+0.8VS	0.8V switched power rail	ON	OFF	OFF
+1.8VALW	1.8V always on power rail	ON	ON	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+2.5V	2.5V power rail for APU and DDR	ON	ON	OFF
+1.2V	1.2V power rail for APU and DDR	ON	ON	OFF
+0.6VS	0.6V switched power rail for DDR terminator	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	AC:ON DC:OFF
+5VS	5V switched power rail	ON	OFF	OFF
+RTC_APU	RTC power	ON	ON	ON
+3V_LAN	3.3V LAN IC power	ON	ON	OFF
+TP_VCC	3.3V Touch Pad power	ON	ON	OFF
+3VSDGPU	VGA power	ON	OFF	OFF
+1.8VSDGPU	VGA power	ON	OFF	OFF
+VDDCI	VGA power	ON	OFF	OFF
+VGA_CORE	VGA power	ON	OFF	OFF
+FP_VCC	3.3V Finger Print power	ON	ON	OFF

APU SMBus/I2C Address Table

Master	Device	Address[7:1]	Address [7:0]	
			Write	Read
I2C Port 0 (+1.8VS)				
I2C Port 1 (+1.8VS)	G-Sensor (Reserver)	0001 1000b 18h	0011 0000b 30h	0011 0001b 31h
I2C Port 2 (+3VS)				
SBMbus Port 0 (+3VS)	JDIMM1	0101 0000b 50h	1010 0000b A0h	1010 0001b A1h
	JDIMM2	0101 0001b 51h	1010 0010b A2h	1010 0011b A3h
I2C Port 3 (+3VALW)	PTP (Synaptics)	0010 1100b 2Ch	0101 1000b 58h	0101 1001b 59h
	PTP (ELAN)	0001 1111b 15h	0011 1110b 3Eh	0011 1111b 3Fh
SMBus Port 1 (+3VALW)				

EC SMBus Address Table

SMBus Port 1 (+3VALW)	Smart Battery	0000 1011b 0Bh	0001 0110b 16h	0001 0111b 17h
	Charger IC	0000 1001b 09h	0001 0010b 12h	0001 0011b 13h
SMBus Port 2 (+3VS)	APU Temp.	0100 1100b 4Ch	1001 1000b 98h	1001 1001b 99h
	GPU Temp.	0100 0001b 41h	1000 0010b 82h	1000 0011b 83h

BOARD ID Table

Board ID	PCB Revision
0	EVT
1	DVT
2	PVT
3	

ZZZ @
DA60025X000
PCB 2MK LA-H801P REV0 MB 3
ZZZ @
DAZZMK00100
PCB EH5LP LA-H801P LS-H801P/H802P
ZZZ PCB1A@
DAZZMK00101
PCB EH5LP LA-H801P LS-H801P/H802P

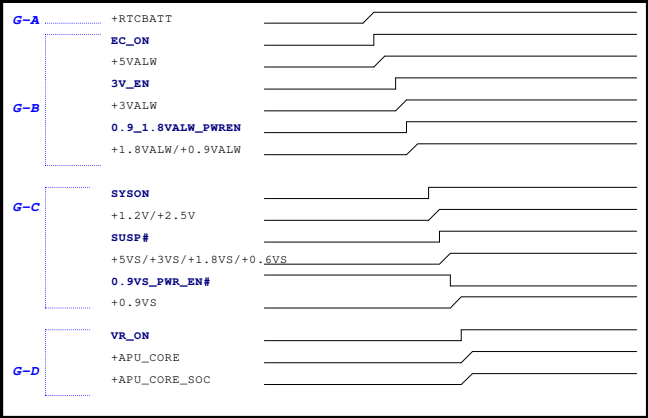
BOM Structure Table

BOM Structure	BTO Item
@	Unpop
EMC@/@EMC@	EMI/ESD Pop/Unpop
45@	HDMI Royalty
CONN@	Mechanical Connector
JP@	Jump
RS@	R-Short
TP@	Test Point
TPM@	TPM Circuits
PCIE@	PCIE SSD
SATA@	SATA SSD
GS@	G-Sensor Circuits
EH5LP@/EH5AP@	Aspire3/Aspire5 Config.
PAR@	SATA Redriver PARADE solution
CR@	Card Reader Config.
CHG@/NCHG@	USB Charger/Non-Charger
255@	Audio Codec AL255 Design
256@/256EMC@	Audio Codec AL256 Design
UMA@	UMA Config
R3/R5/R7APU@	APU PN Refer p.6
T1@/T2@	APU Type Config
DIS@	VGA Circuits
M1870	R19M-M18-70 GPU
HUB@/NHUB@	USB20 HUB/Non-HUB
FP@/FPENC@/	Finger Print
HDT@	HDT Circuits

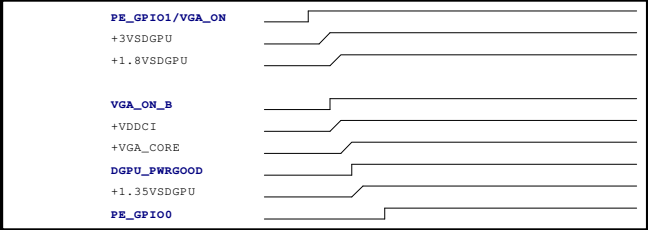
Board ID / SKU ID Table for AD channel

Vcc	3.3V				
Ra	100K +/- 1%				
Board ID	Rb	V min	V typ	V max	EC AD
0	0		0.000V	0.300V	0x00 - 0x0B
1	12K +/- 1%	0.347V	0.354V	0.360V	0x0C - 0x1C
2	15K +/- 1%	0.423V	0.430V	0.438V	0x1D - 0x26
3	20K +/- 1%	0.541V	0.550V	0.559V	0x27 - 0x30
4	27K +/- 1%	0.691V	0.702V	0.713V	0x31 - 0x3B
5	33K +/- 1%	0.807V	0.819V	0.831V	0x3C - 0x46
6	43K +/- 1%	0.978V	0.992V	1.006V	0x47 - 0x54
7	56K +/- 1%	1.169V	1.185V	1.200V	0x55 - 0x64
8	75K +/- 1%	1.398V	1.414V	1.430V	0x65 - 0x76
9	100K +/- 1%	1.634V	1.650V	1.667V	0x77 - 0x87
10	130K +/- 1%	1.849V	1.865V	1.881V	0x88 - 0x96
11	160K +/- 1%	2.015V	2.031V	2.046V	0x97 - 0xA3
12	200K +/- 1%	2.185V	2.200V	2.215V	0xA4 - 0xAD
13	240K +/- 1%	2.316V	2.329V	2.343V	0xAE - 0xB7
14	270K +/- 1%	2.395V	2.408V	2.421V	0xB8 - 0xC0
15	330K +/- 1%	2.521V	2.533V	2.544V	0xC1 - 0xC9
16	430K +/- 1%	2.667V	2.677V	2.687V	0xCA - 0xD3
17	560K +/- 1%	2.791V	2.800V	2.808V	0xD4 - 0xDC
18	750K +/- 1%	2.905V	2.912V	2.919V	0xDD - 0xE6
19	NC	3.000V	3.300V		0xE7 - 0xFF

POWER SEQUENCE

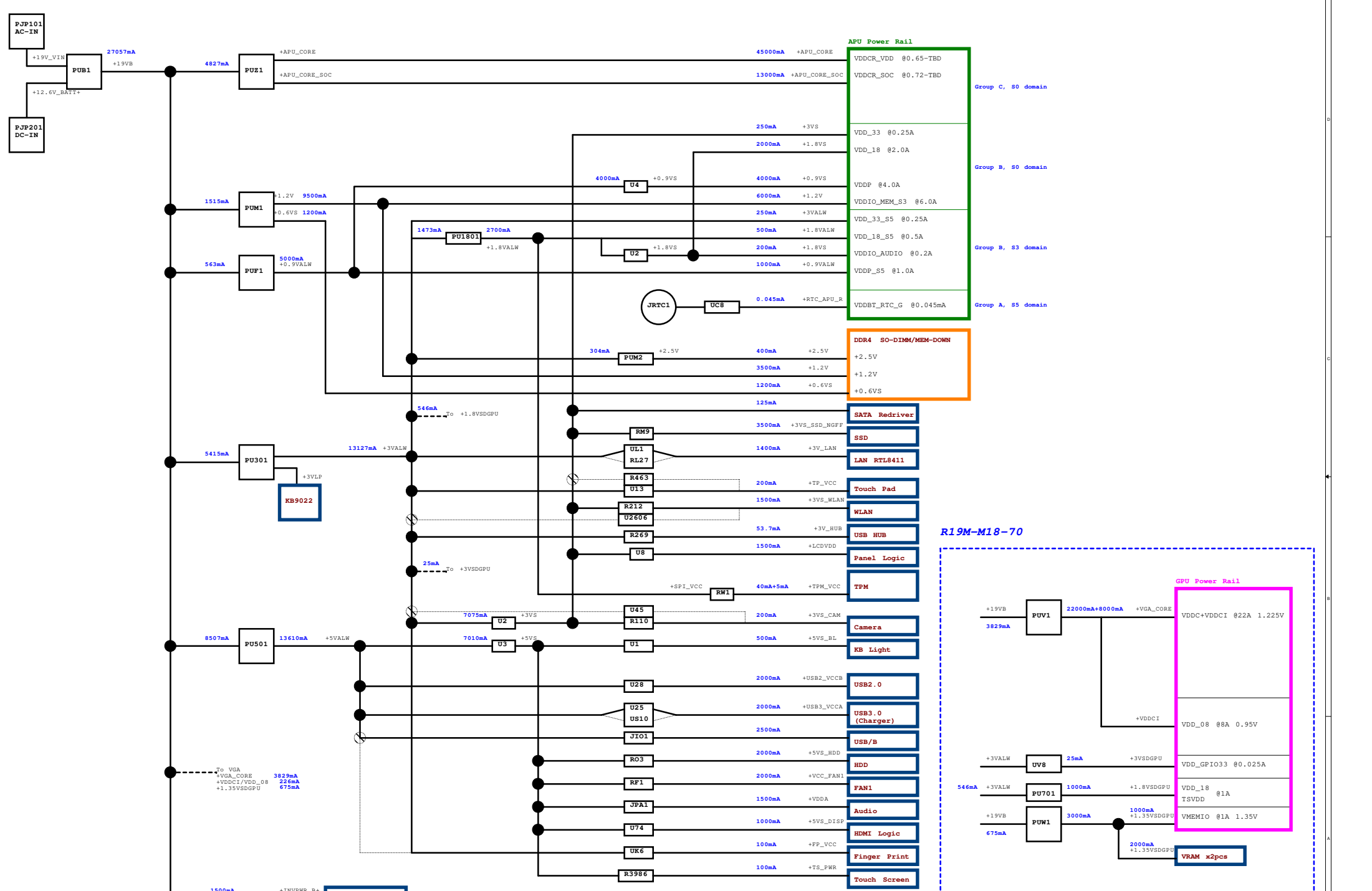


VGA POWER SEQUENCE

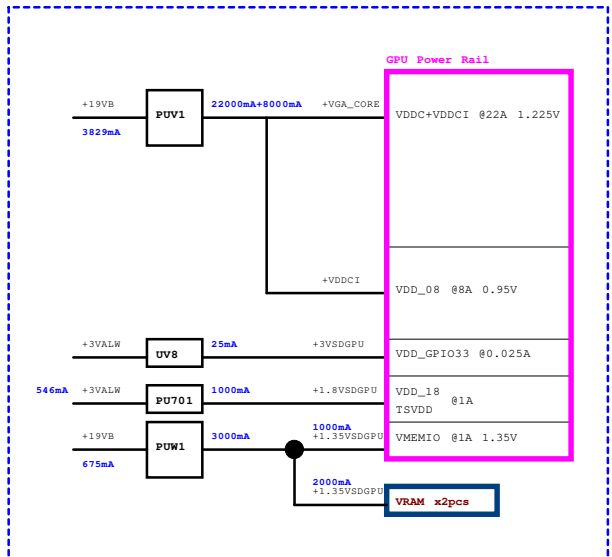


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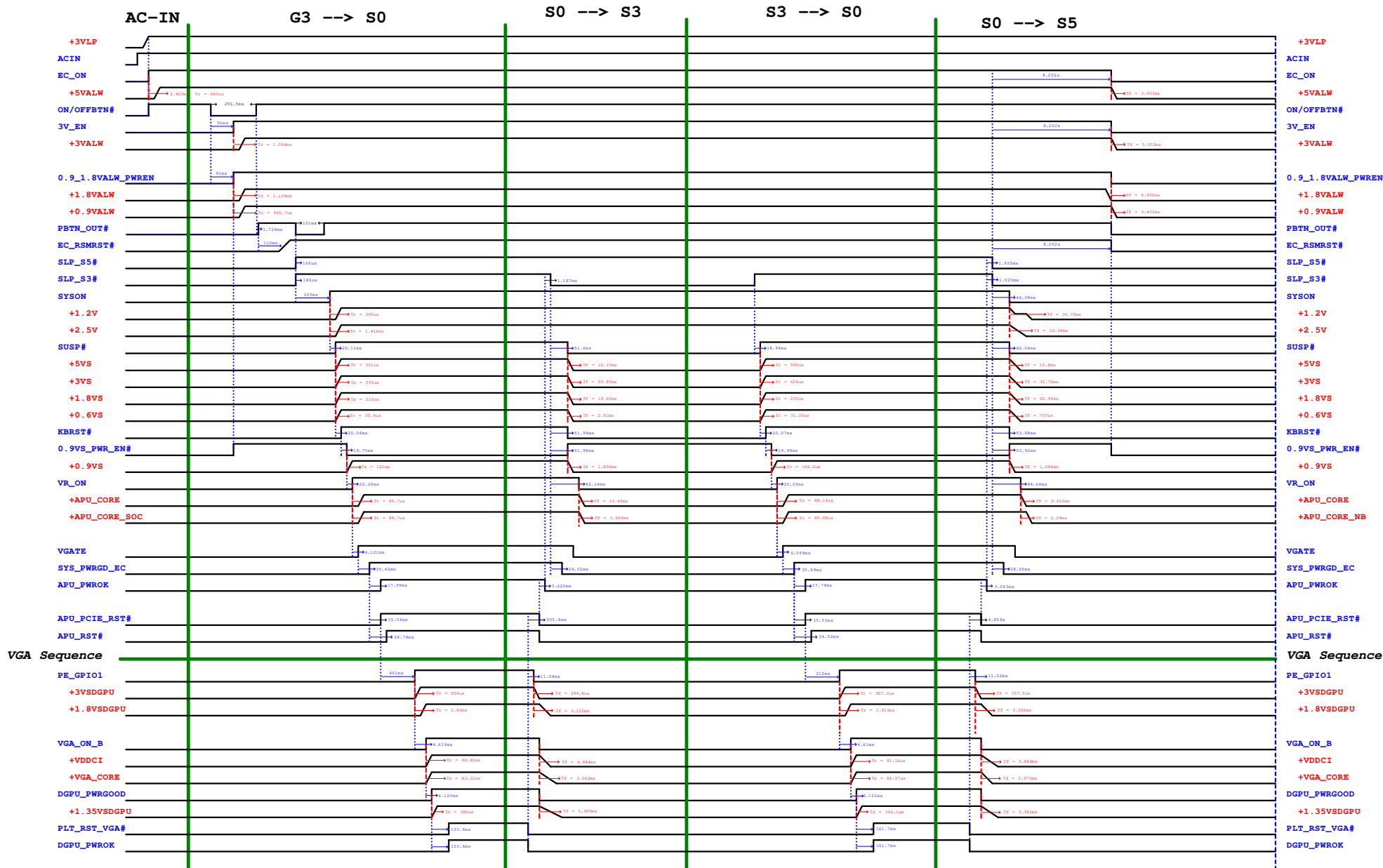
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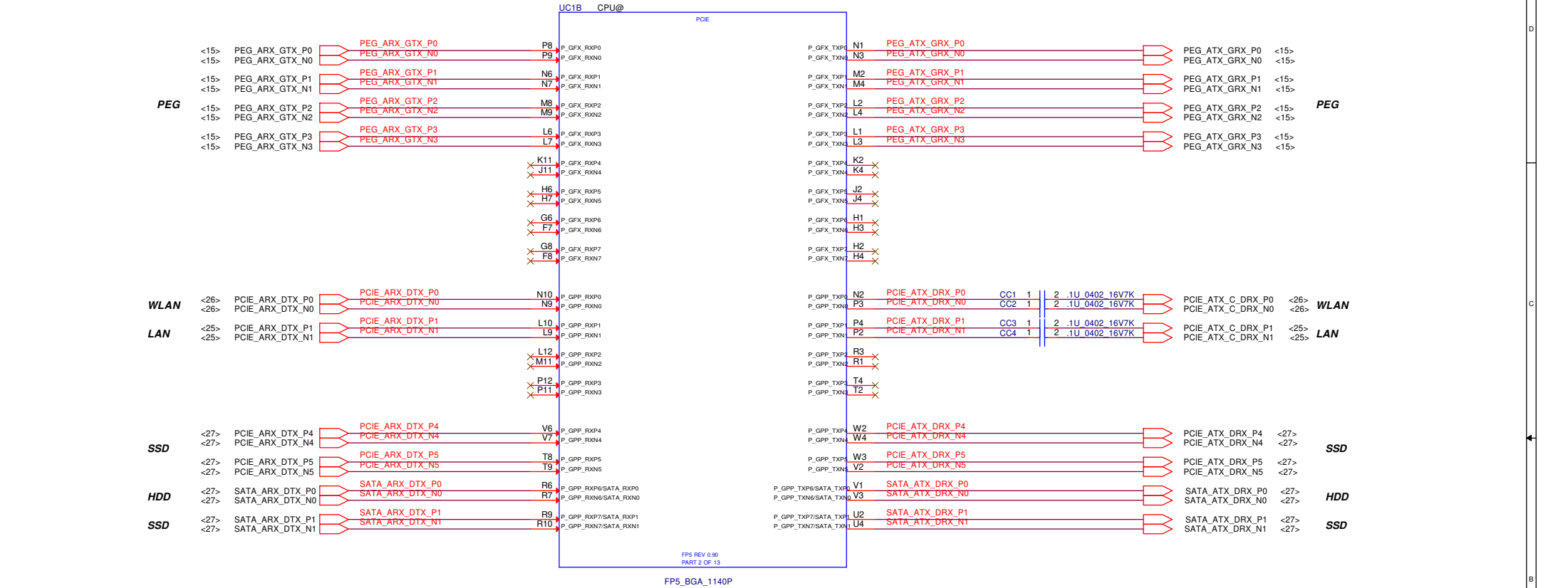
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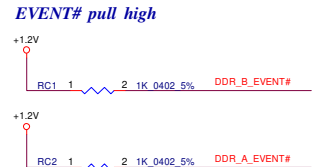
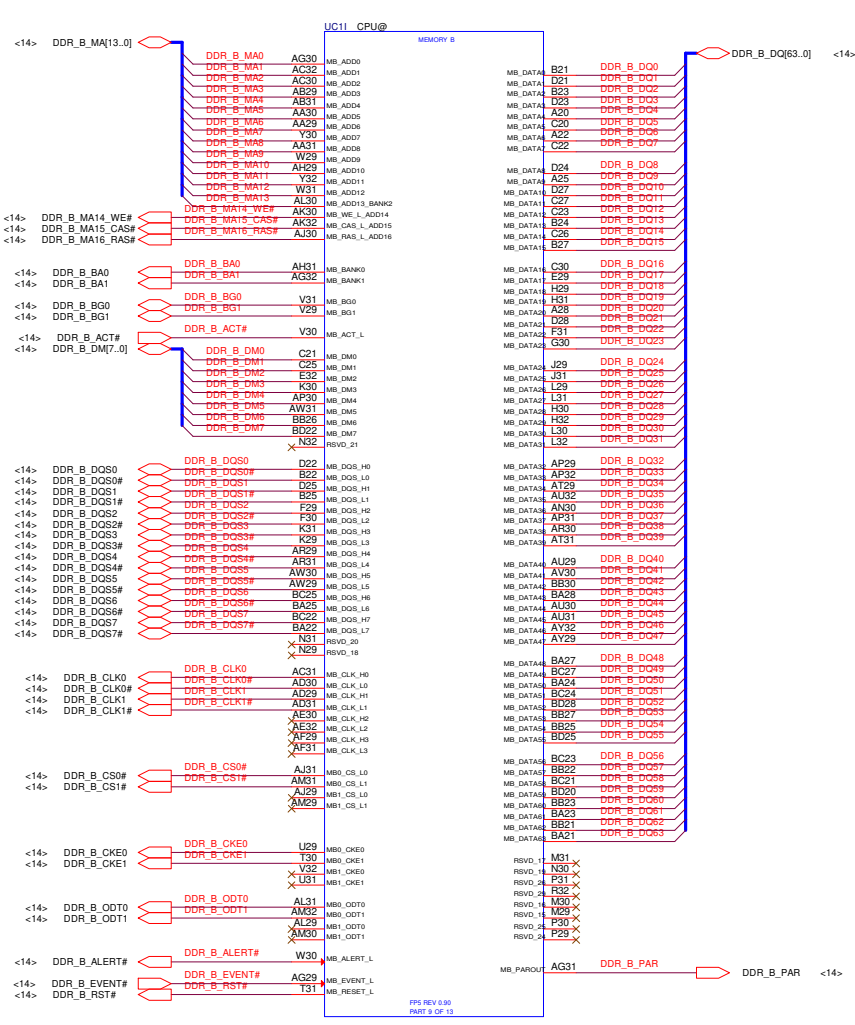
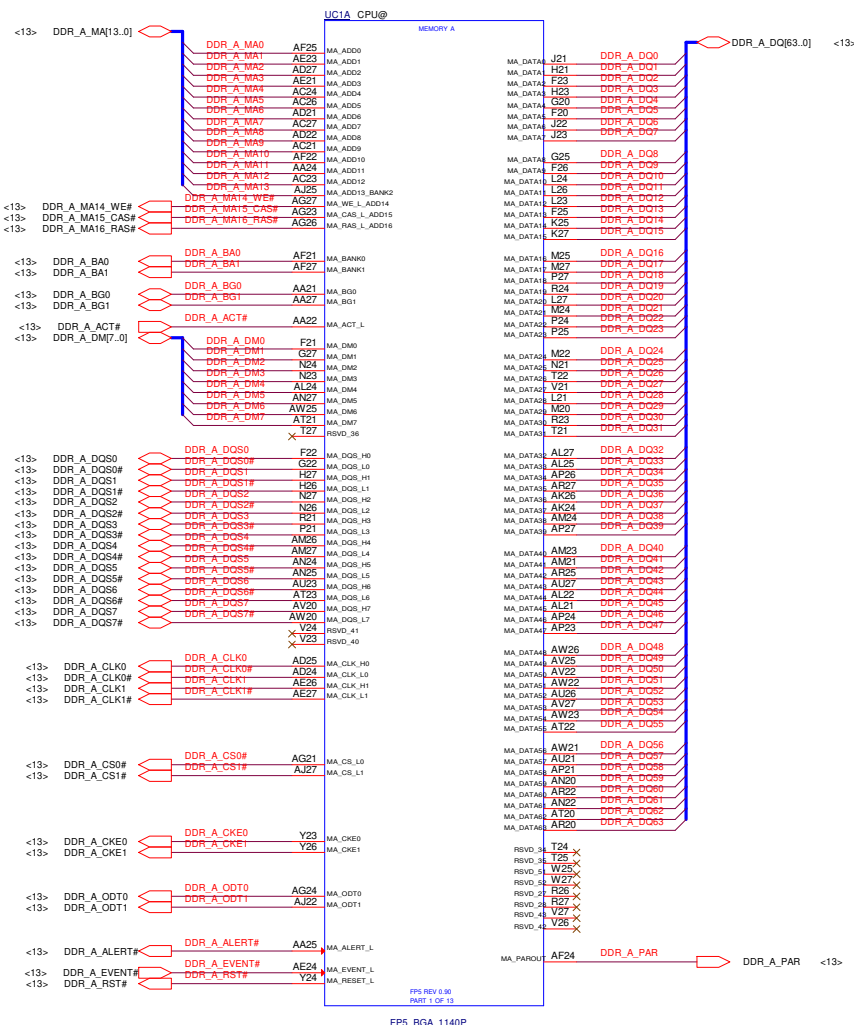
Main Func = CPU



APU PN Table

APU Platform	Customer PN	Customer PN	Customer PN	Customer PN	Customer PN	Compal PN
Picasso	UC1 R3APUDC@	UC1 R3APUQC@	UC1 R5APUQC@	UC1 R7APUQC@	UC1 Athlon@	
	S IC RYZEN3 YM3200C4T2OFG 2.6G BGA APU SA0000CCS20	S IC RYZEN3 YM3300C4T4MFG 2.1G BGA 1140 APU SA0000CCV10	S IC RYZEN5 YM3500C4T4MFG 2.1G BGA APU SA0000CCR20	S IC RYZEN7 YM3700C4T4MFG 2.3G BGA APU SA0000C7640	S IC ATHLON YM300UC4T2OFG 2.4G APU ABO! SA0000CFE40	

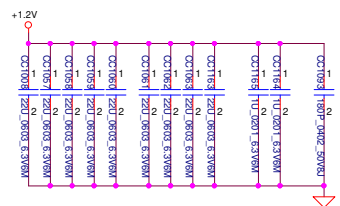
Main Func = CPU



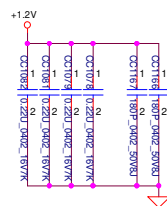
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Main Func = CPU

```
+APU_CORE_SOC Cap
place at Power Side
```

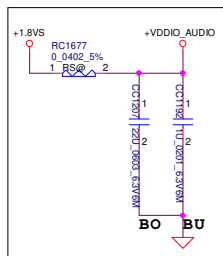


All BU(on bottom side under SOC)

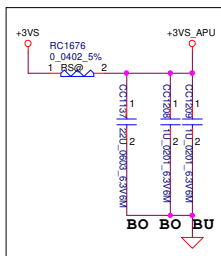


SCL/MBDG:
9*22uF (BU)
2*1uF (BU)
4*0.22uF
1*180pF (BU)
2*180pF

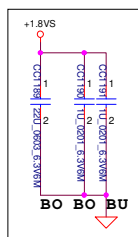
ACROSS VDDIO AND VSS SPLIT



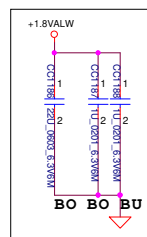
SCL/MBDG:
1 *22uF (BO)



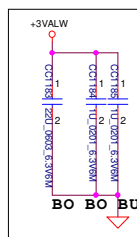
SCL/MEDG:
1 *22uF (BO)



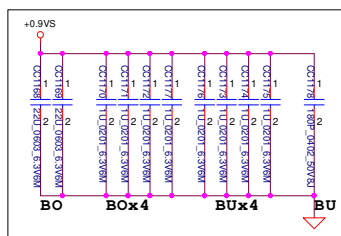
+1.8VALW



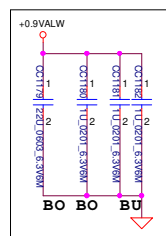
SCL/MBDG:
1 *22uF (BO)



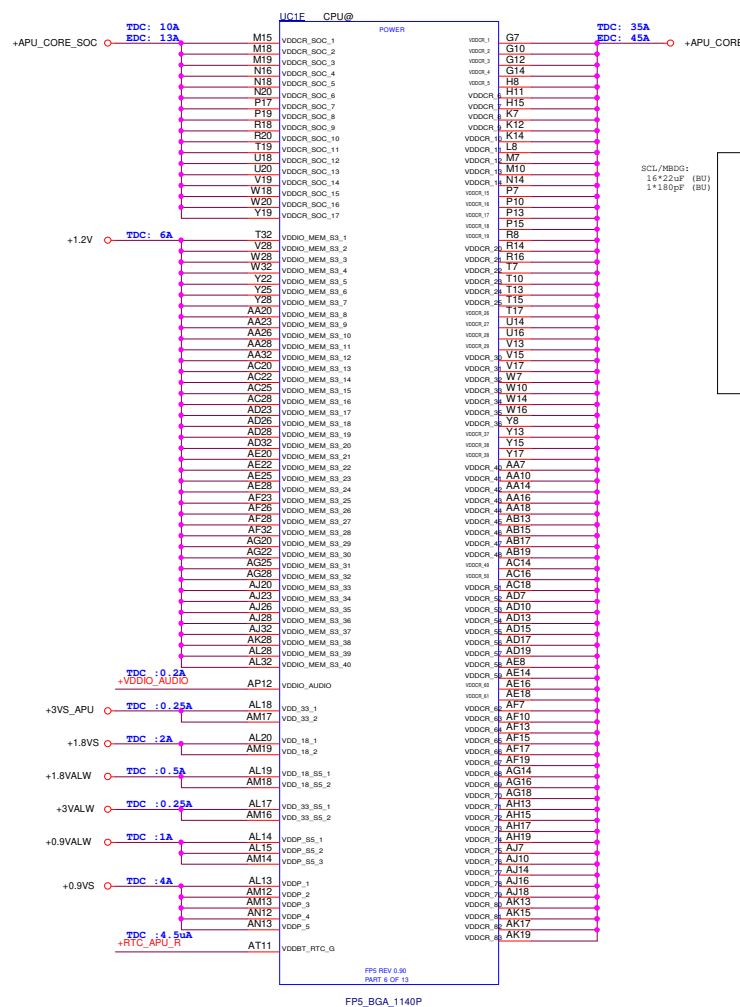
SCL/MBDG:
1 *22uF (BC



SCL/MBDG:
2 *22uF (BO)
8*1uF (BOx4+BUx4)
1*180pF (BU)

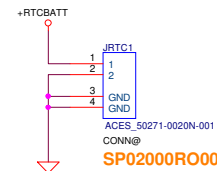


```
SCL/MBDG:
  1 *22uF (BO)
  3*1uF (BOx1+BUx2)
```

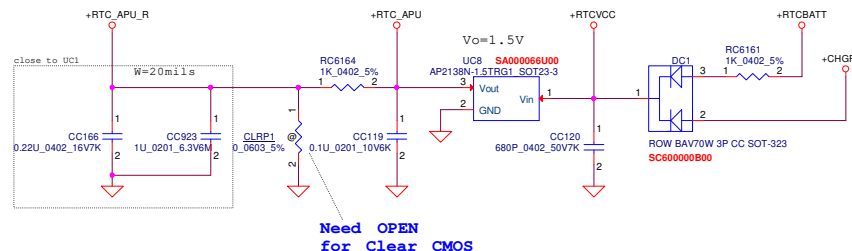


```
+APU_CORE Cap place at Power Side
```

SCL/MBDG:
16*22uF (BU
1*180pF (BU

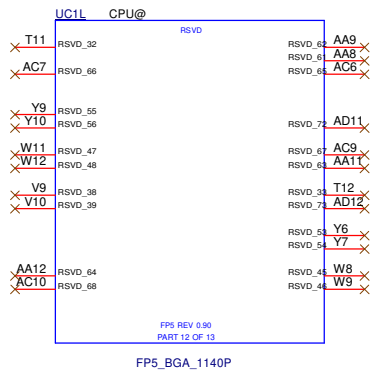
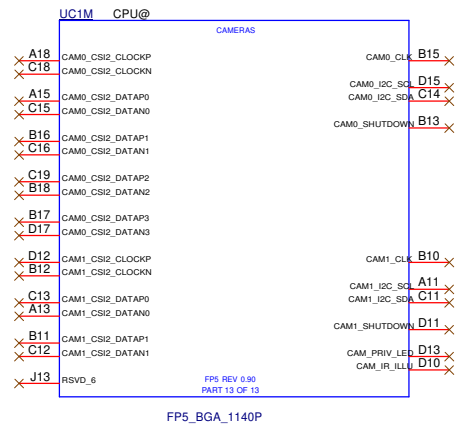
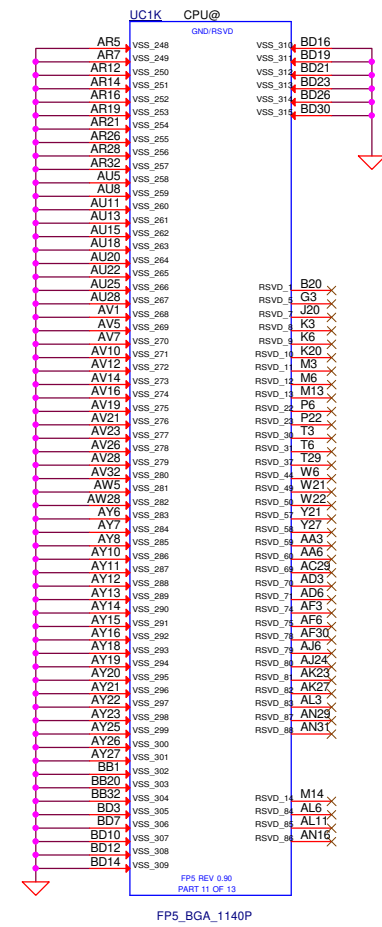
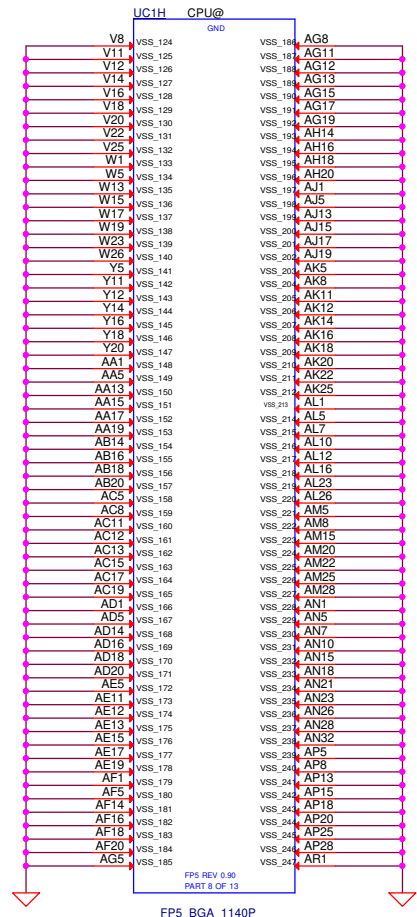
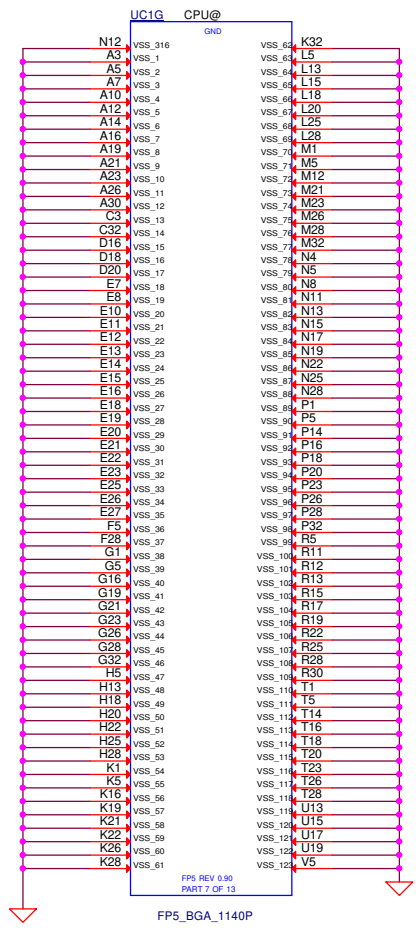


RTC OF APU



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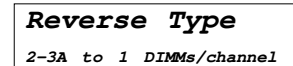
Main Func = CPU



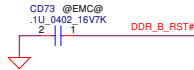
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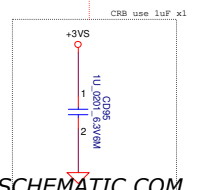
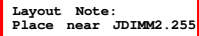
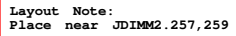
Address : A0



Address : A2



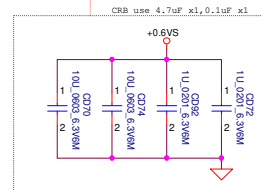
Note:
Check voltage tolerance of
VREF_DQ at the DIMM socket



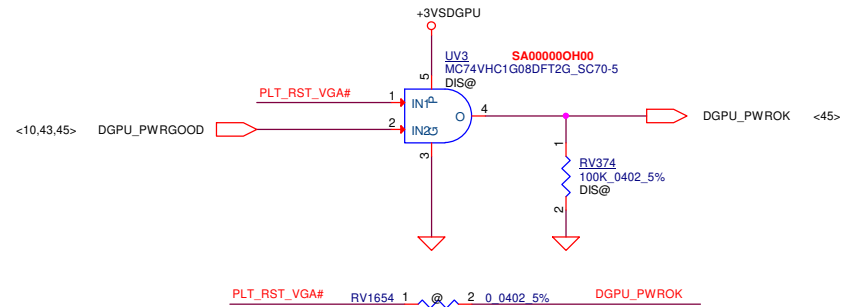
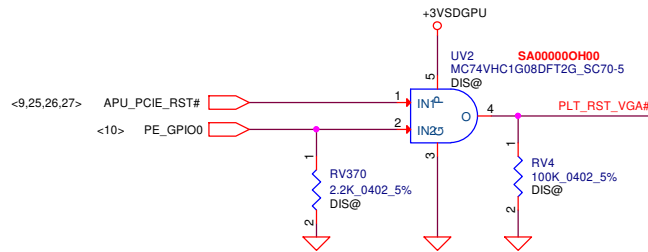
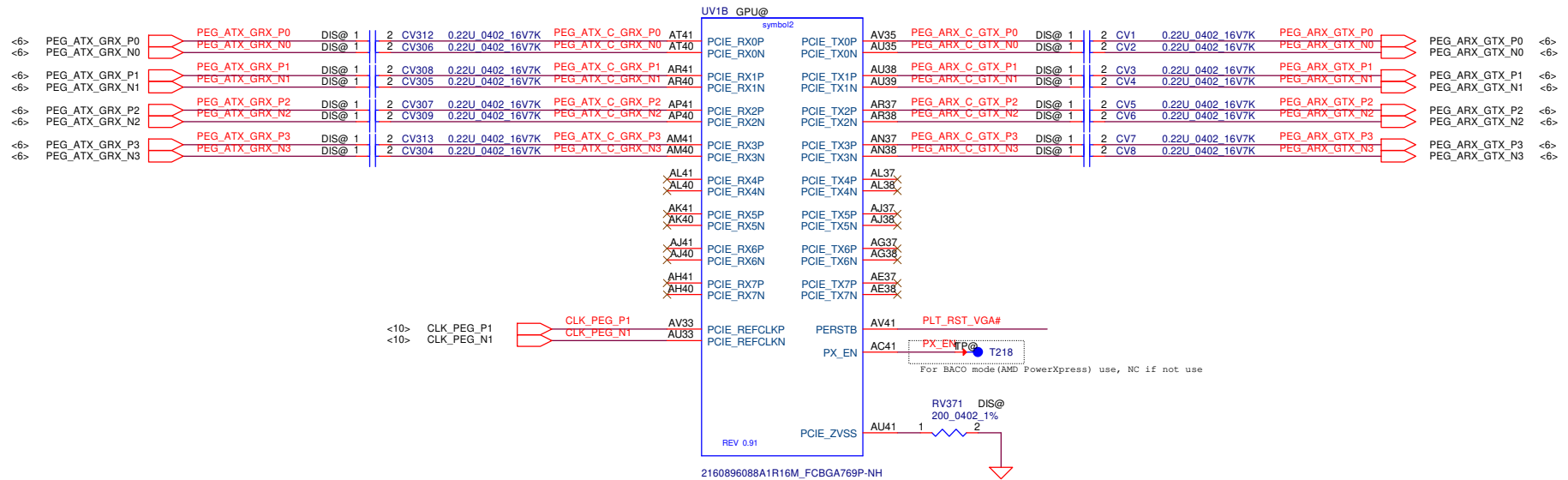
15



CRB use 4.7uF x1, 0.1uF x1



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LEXA Strap

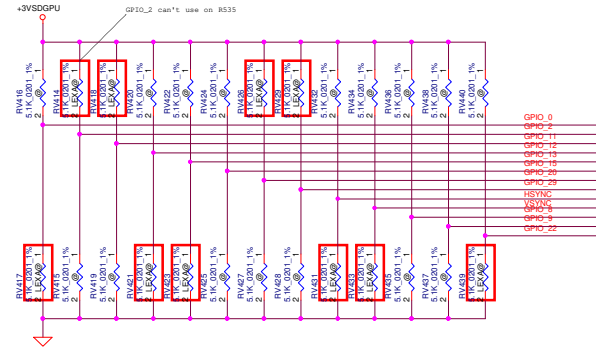


Table 3-27 Primary Memory Aperture Sizes Requested at PCI Configuration

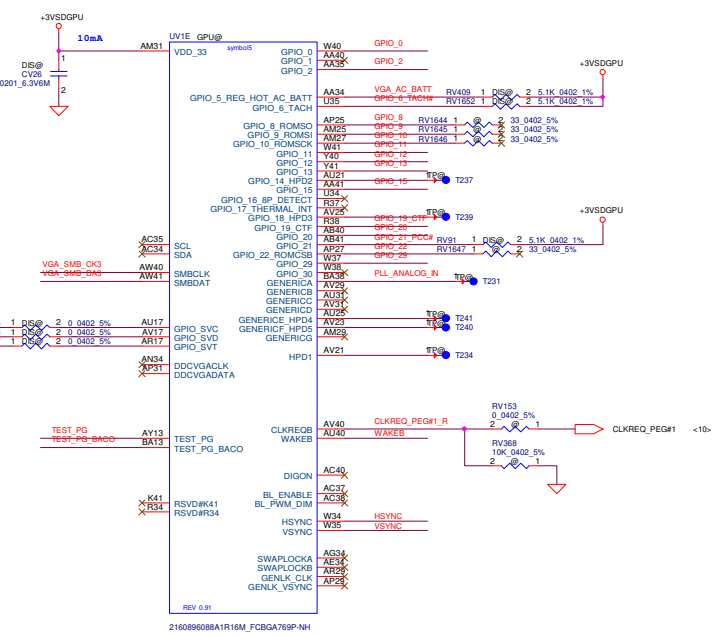
Size of the Primary Memory Apertures	ROM_CONFIG[2:0]
128 MB	000
256 MB	001
64 MB	010
8 GB	011
16 GB	100
1 GB	101
2 GB	110
4 GB	111

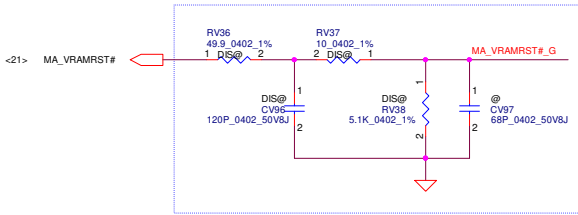
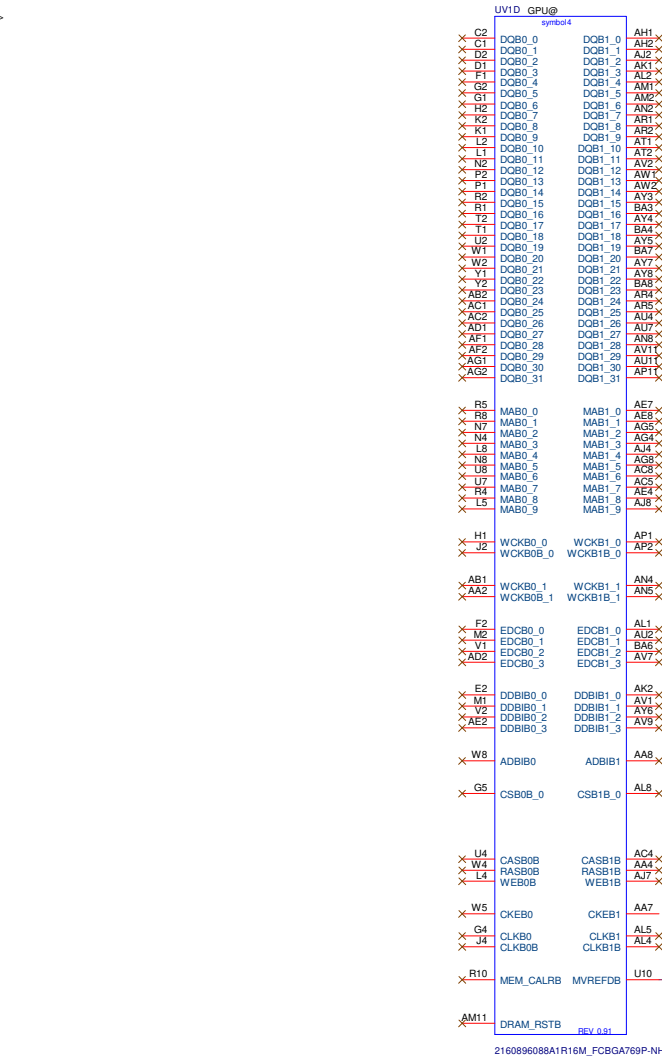
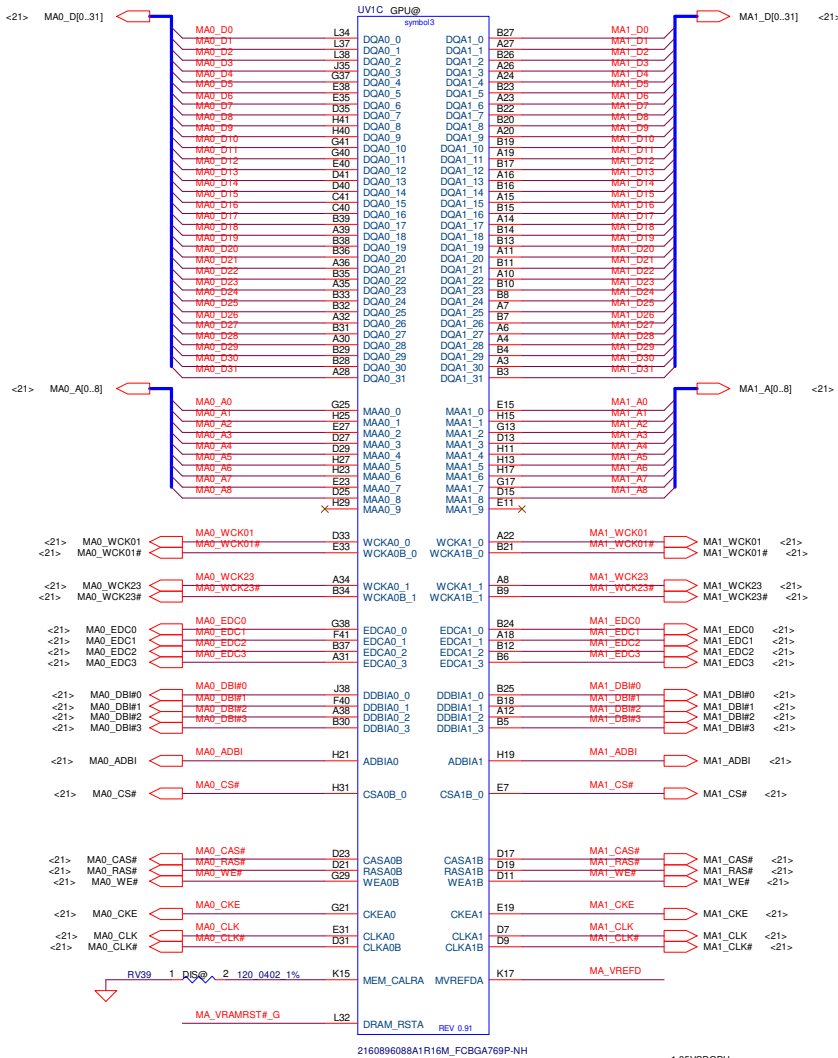
3.2.2.2 ROM Configurations

- For designs that have a dedicated ROM device for the GPU video BIOS:
- Use the GPU default strap on GPIO_22_ROMCSB (i.e., 1).
 - Use the GPU default straps on GPIO_13, GPIO_12, and GPIO_11 (i.e., 101).

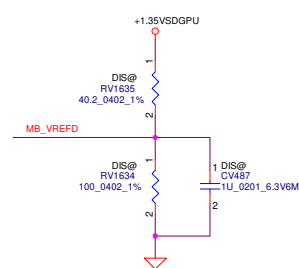
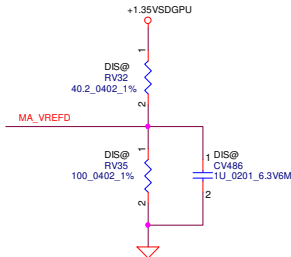
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TX_HALF_SWING[0:disable,1:enable]
RIF_ROM_A[0:disable,1:enable]
ROM_CONFIG[0]/MemoryAperture
ROM_CONFIG[1]/MemoryAperture
ROM_CONFIG[2]/MemoryAperture
Reserved (PD for default)
TX_SEMPLSN[0:disable,1:enable]
RIF_VGA_D12[0:VGA,1:Readless]
Special Usage[1] GPUDefault
Special Usage[0] GPUDefault
RIF_CLK_PU_EN[0:disable,1:enable]
Reserved (PD for production)
R108_ROM_EN[0:disable,1:enable]



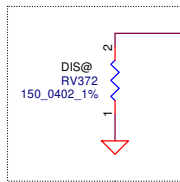
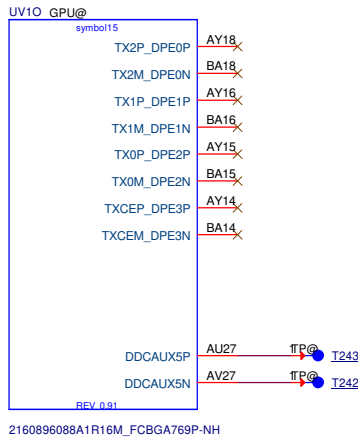


Place close to GPU (within 25mm)
and place component within (5mm) close to each other

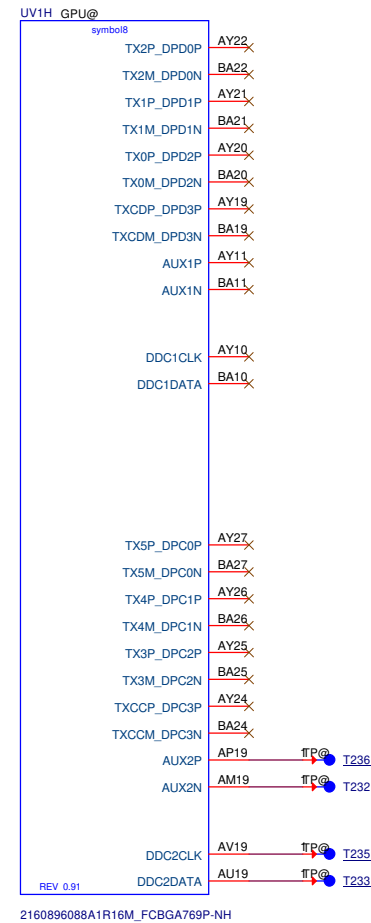
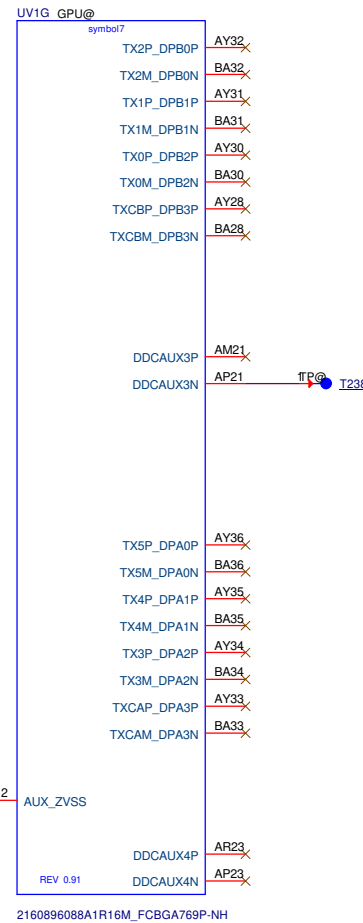


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Title	R19M-M18-70 (4/8) MEM	
Size	Document Number	Rev
Custom	EH5LP/AP LA-H801P	1A
Date:	Friday, March 29, 2019	Sheet 18 of 48

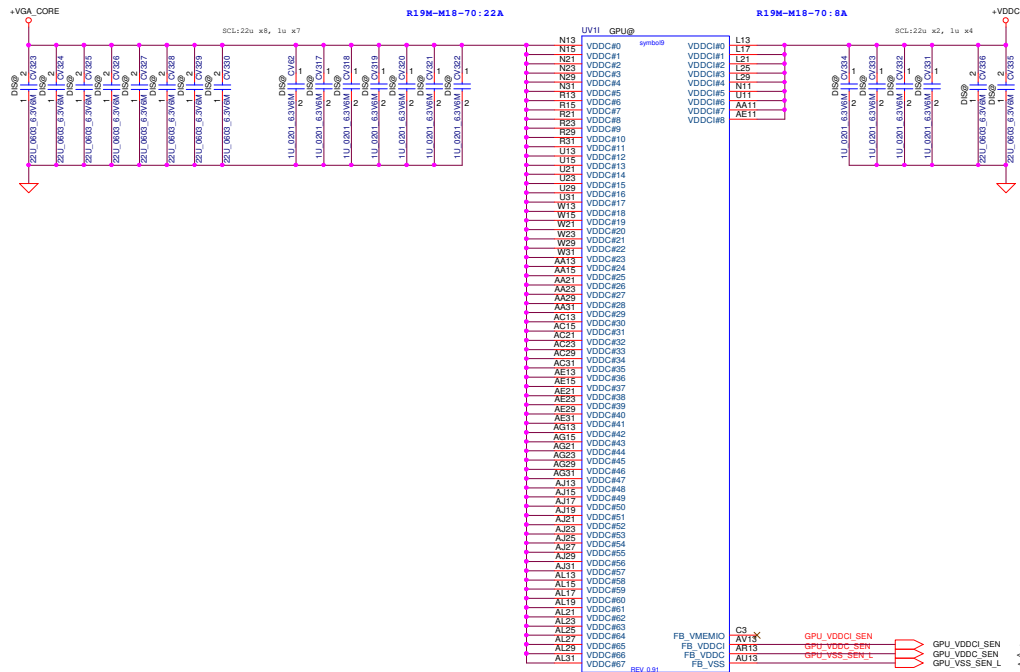


Data Book: need config even if not use display function

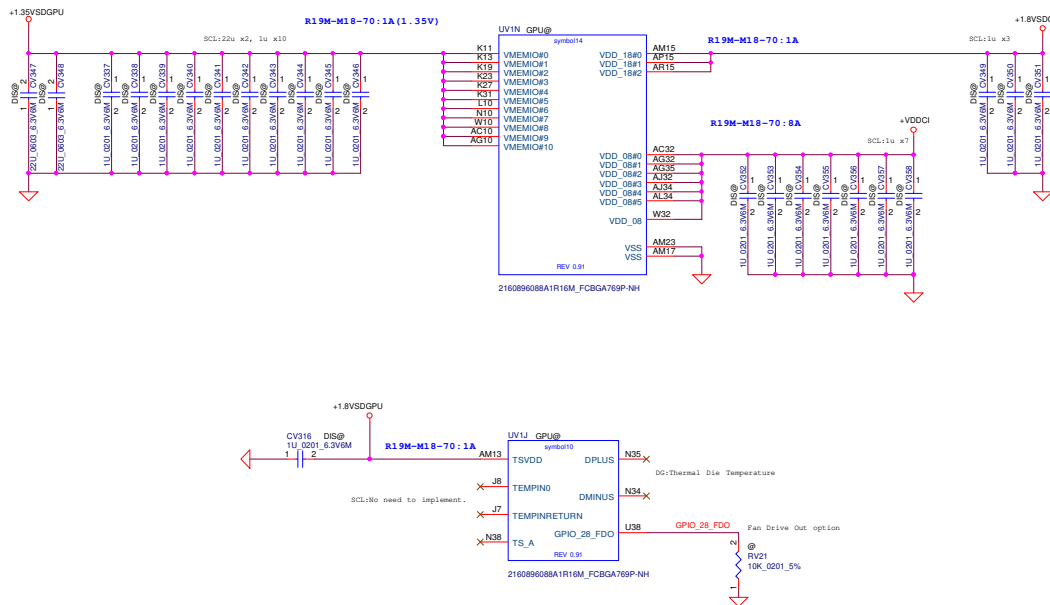


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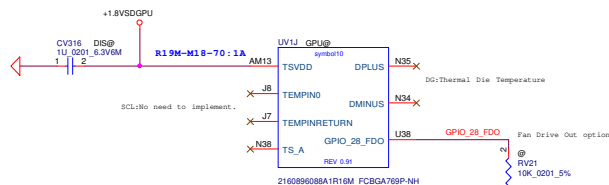
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Issued Date	2020/03/29	Deciphered Date	2020/03/29	Title	R19M-M18-70_(5/8)_DISP
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				Date: Friday, March 23, 2019	Sheet 19 of 48



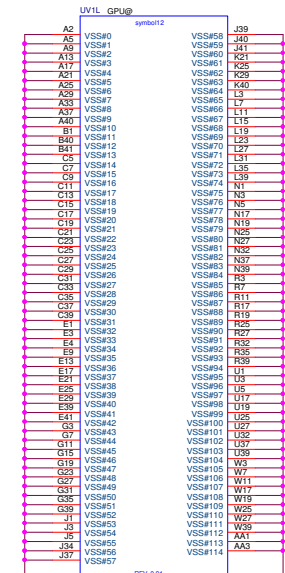
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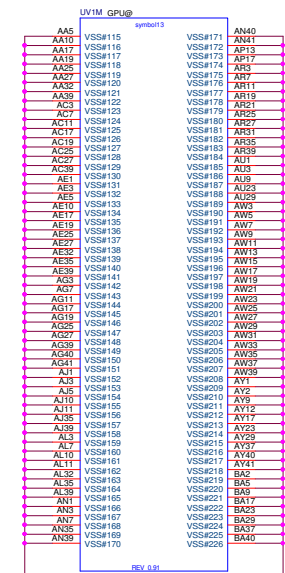
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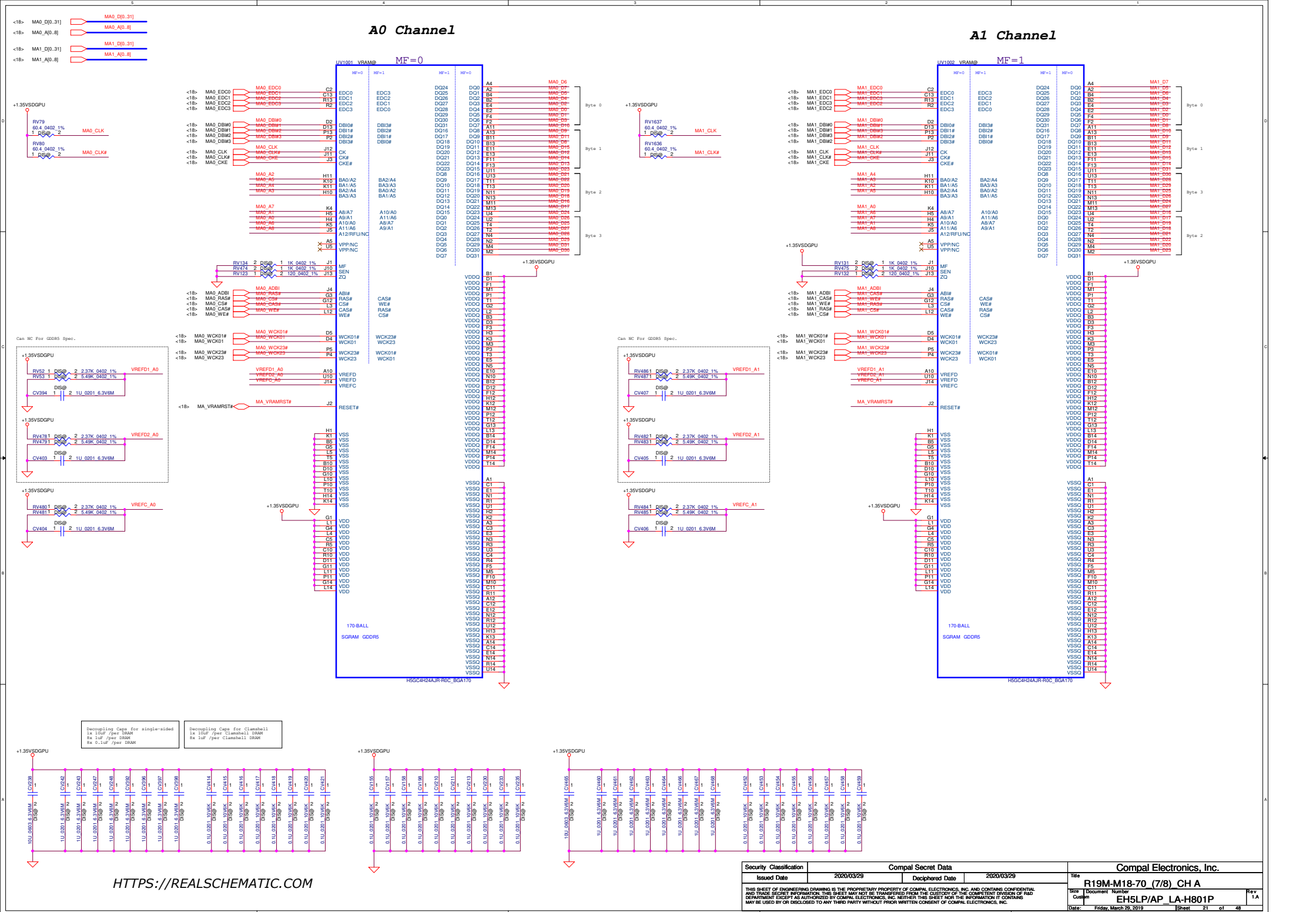
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HTTPS://REALSCHEMATIC.COM

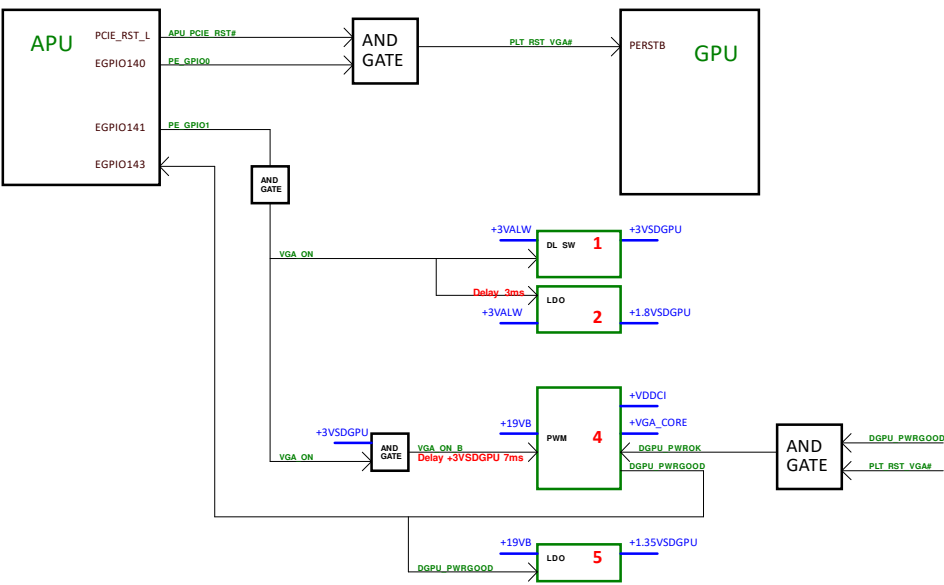
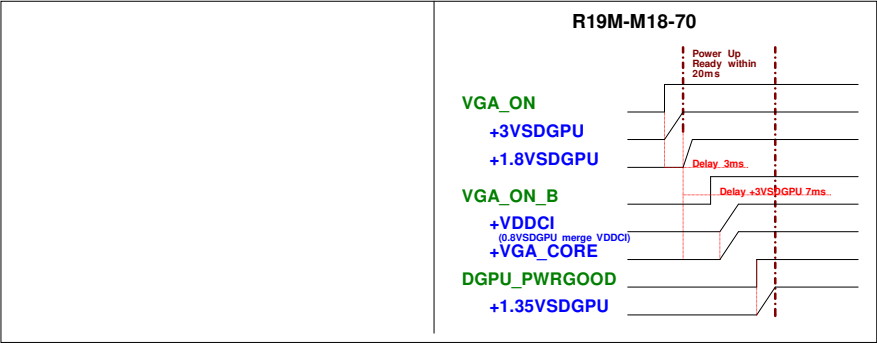
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Issued Date	2020/03/29	Deciphered Date	2020/03/29	Title	
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Size	Document	Number	Customer	EH5LP/AP LA-H801P	
Date:	Friday, March 29, 2019	Sheet	20	48	



5.3 Power-up/down Sequence

“R19M-P25-50/R19M-P25-70/R19M-P18-50/R19M-M18-70” has the following requirements with regards to power-supply sequencing to avoid damaging the GPU:

- All the GPU supplies, except for VDD_33, must fully reach their respective nominal voltages within 20 ms of the start of the ramp-up sequence, though a shorter ramp-up duration is preferred. The maximum slew rate on all rails is 20 mV/μs.
- It is recommended that the 3.3-V rail ramps up first.
- The 1.8 rail must reach its steady state at least 10 μs before VDDC, VDDCI, VDD_08, and VMEMIO start to ramp up.



For AMD R18M-M18-70 VRAM

Memory ID/Vendor/Size	Memory PN R3(ABOI) A0	Memory PN R3(ABOI) A1	Memory PN R3(ABOI) B0	Memory PN R3(ABOI) B1
000 SAMSUNG 256M x32	UV1001 V4G_S@ S IC D5 256M32 K4G80325FB-HC25 FBGA ABOI SA00009TA10	UV1002 V4G_S@ S IC D5 256M32 K4G80325FB-HC25 FBGA ABOI SA00009TA10		
001 HYNIX 256M x32	UV1001 V4G_H@ S IC D5 256M32 H5GC8H24AJR-R0C BGA ABOI SA00009U100	UV1002 V4G_H@ S IC D5 256M32 H5GC8H24AJR-R0C BGA ABOI SA00009U100		
100 MICRON 256M x32	UV1001 V4G_M@ S IC D5 256M32 MT51J256M32HF-70B ABOI SA00000TV20	UV1002 V4G_M@ S IC D5 256M32 MT51J256M32HF-70B ABOI SA00000TV20		

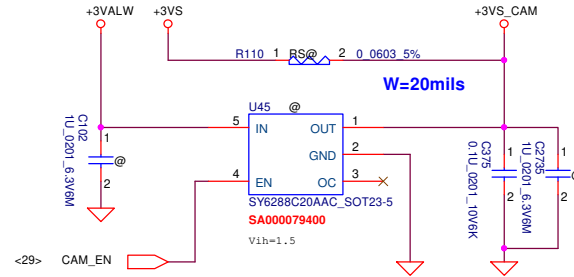
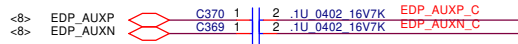
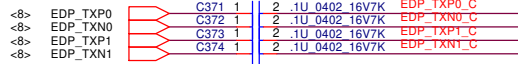
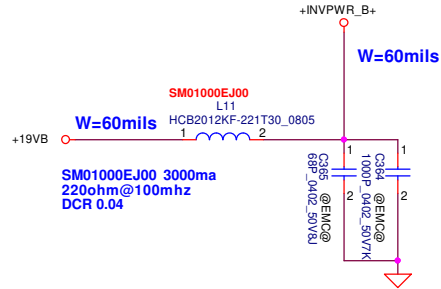
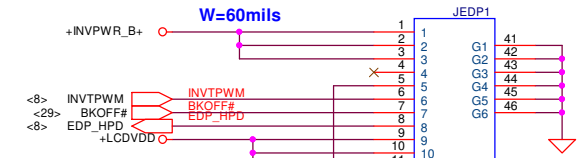
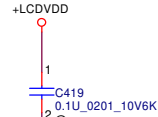
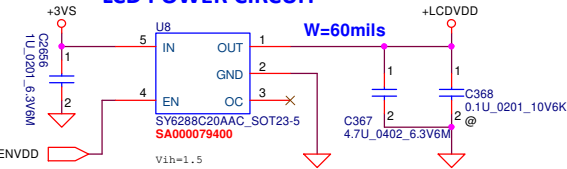
AMD GPU PN

R19M-M18-70 PN R3(ROH)
UV1 M1870@ S IC 216-0923020 R19M-M18-70 FCBGA 769P GPU 0FA SA0000CLW00

LCD POWER CIRCUIT

Place closed to JEDP1

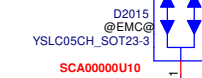
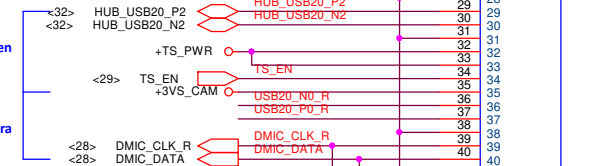
LED PANEL Conn.



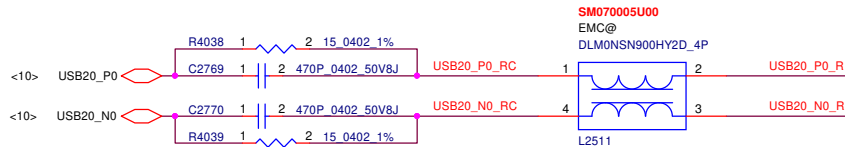
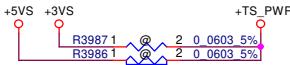
Place closed to JEDP1

Touch Screen

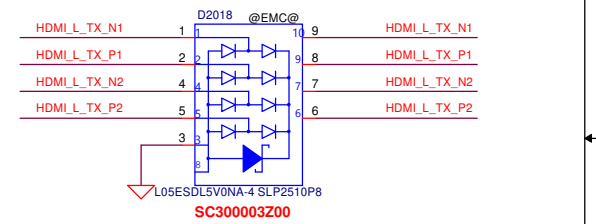
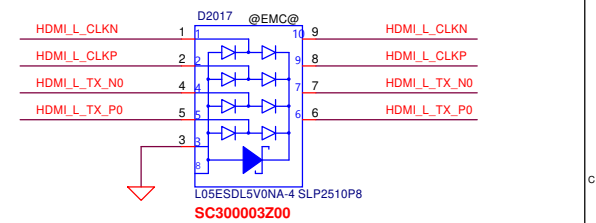
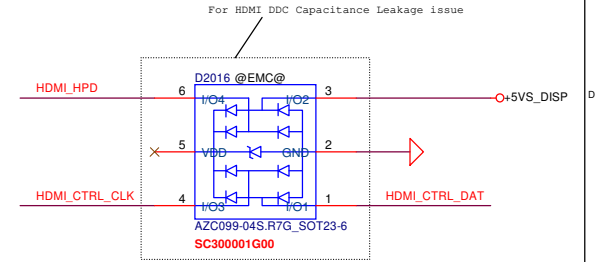
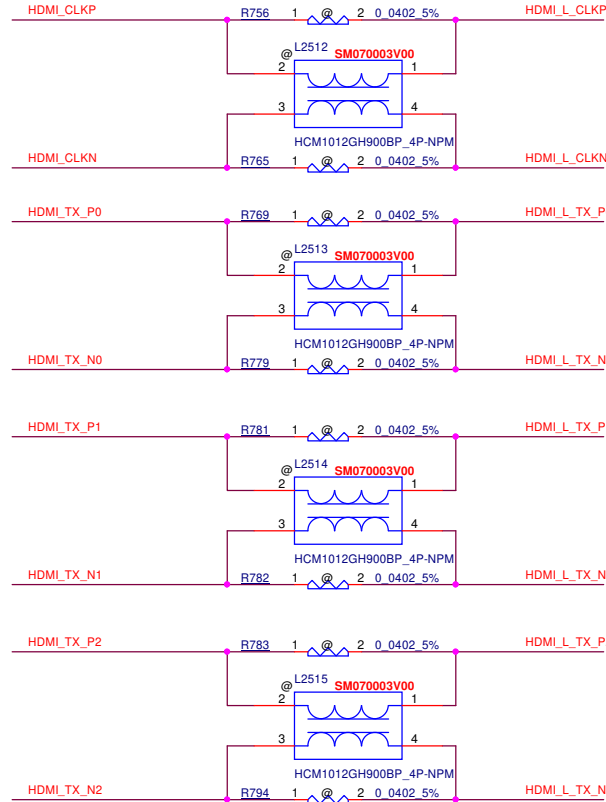
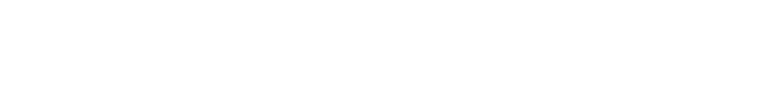
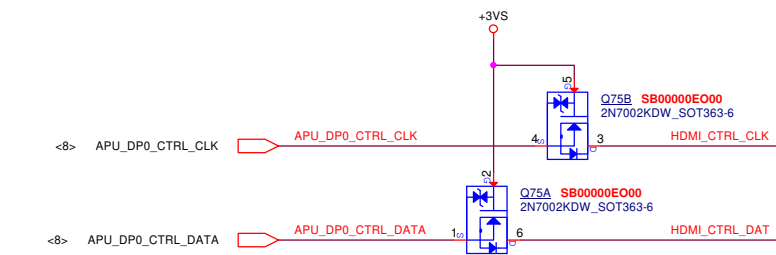
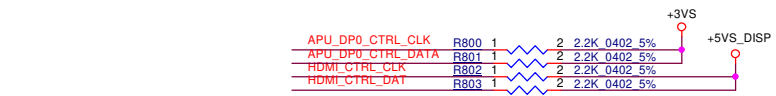
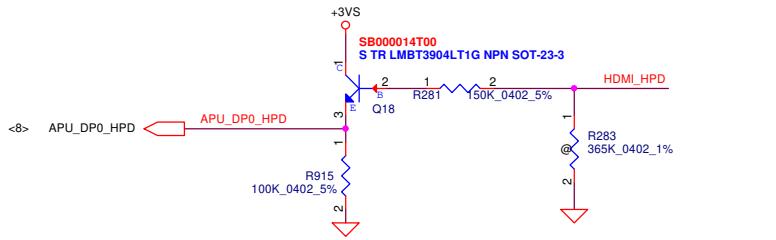
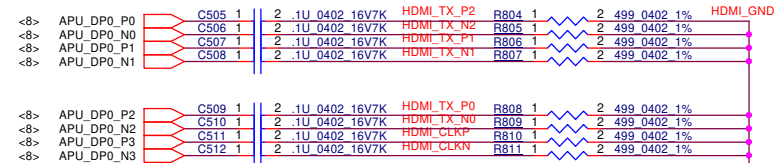
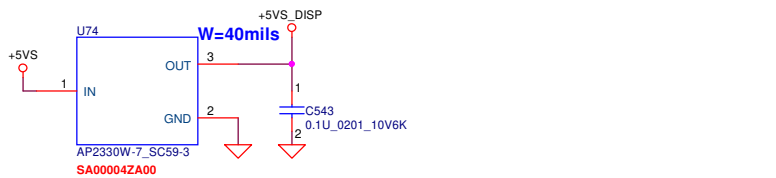
For Camera



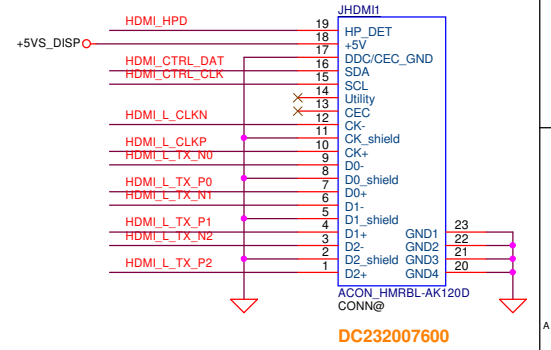
Touch Screen



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				Custom	EH5LP/AP_LA-H801P
				Date:	Friday, March 29, 2019
				Sheet	23 of 48
				Rev	1.A



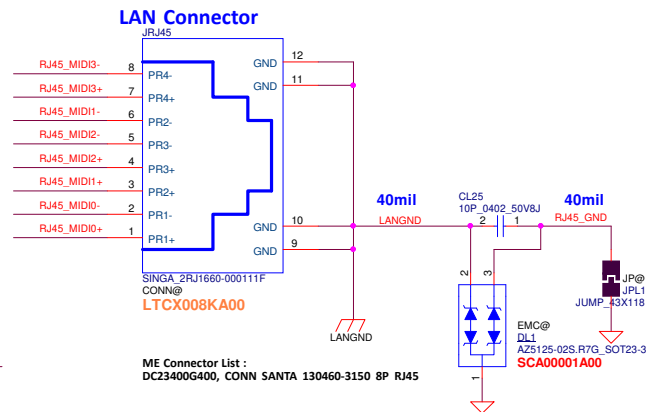
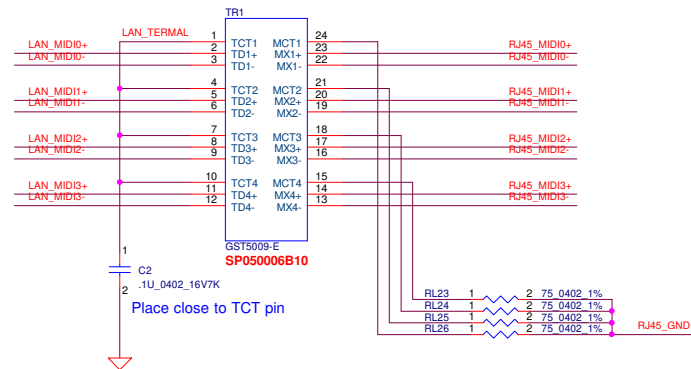
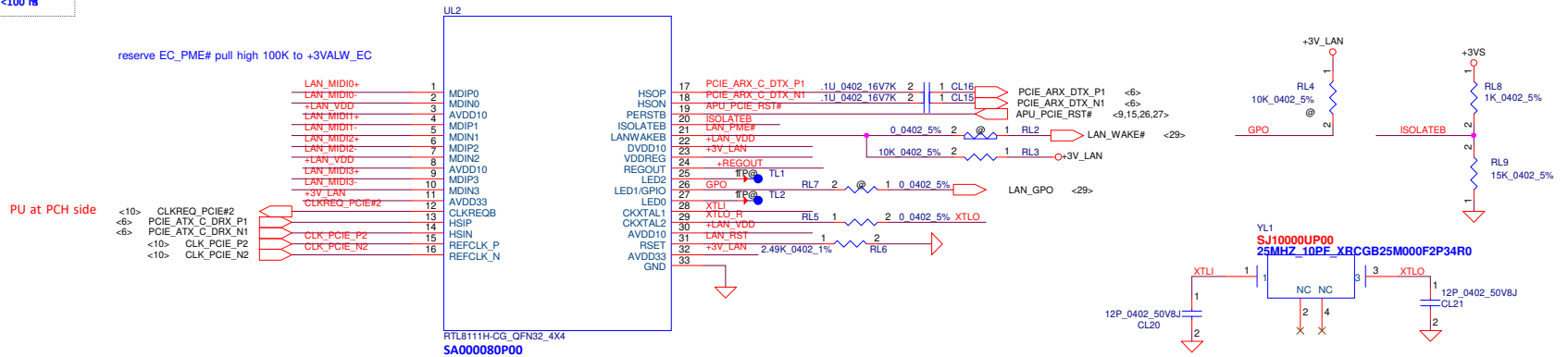
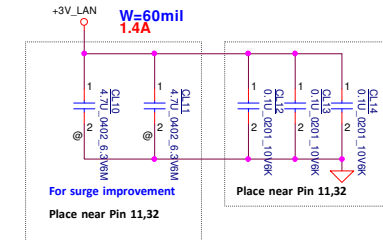
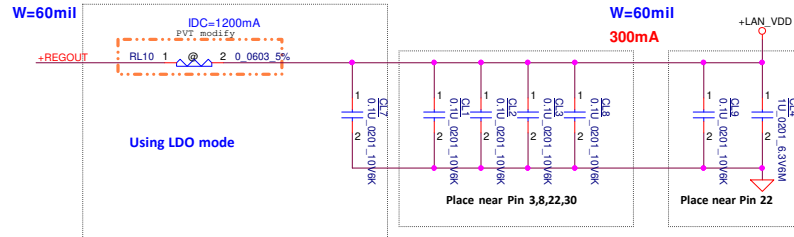
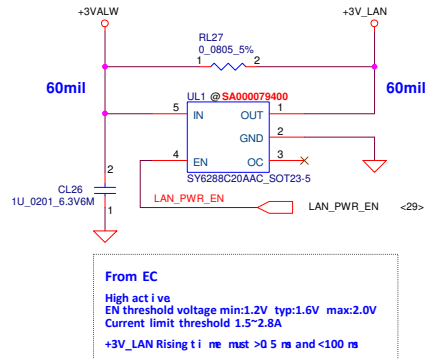
HDMI connector



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Size	Document Number	Customer	EH5LP/AP LA-H801P	Rev	
Date:	Friday, March 29, 2019	Sheet	24	of	48

LAN-RTL8111H



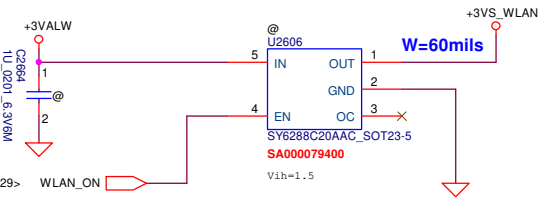
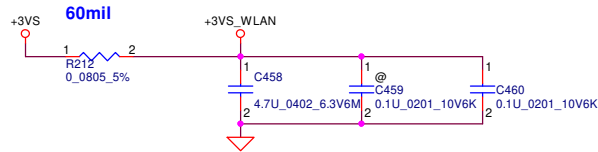
AN Connector

SINGA_2RJ1660-0001111
CONN@
LTCX008KA00

ME Connector List :
DC23400G400, CONN SANTA 130460-3150 8P RJ45

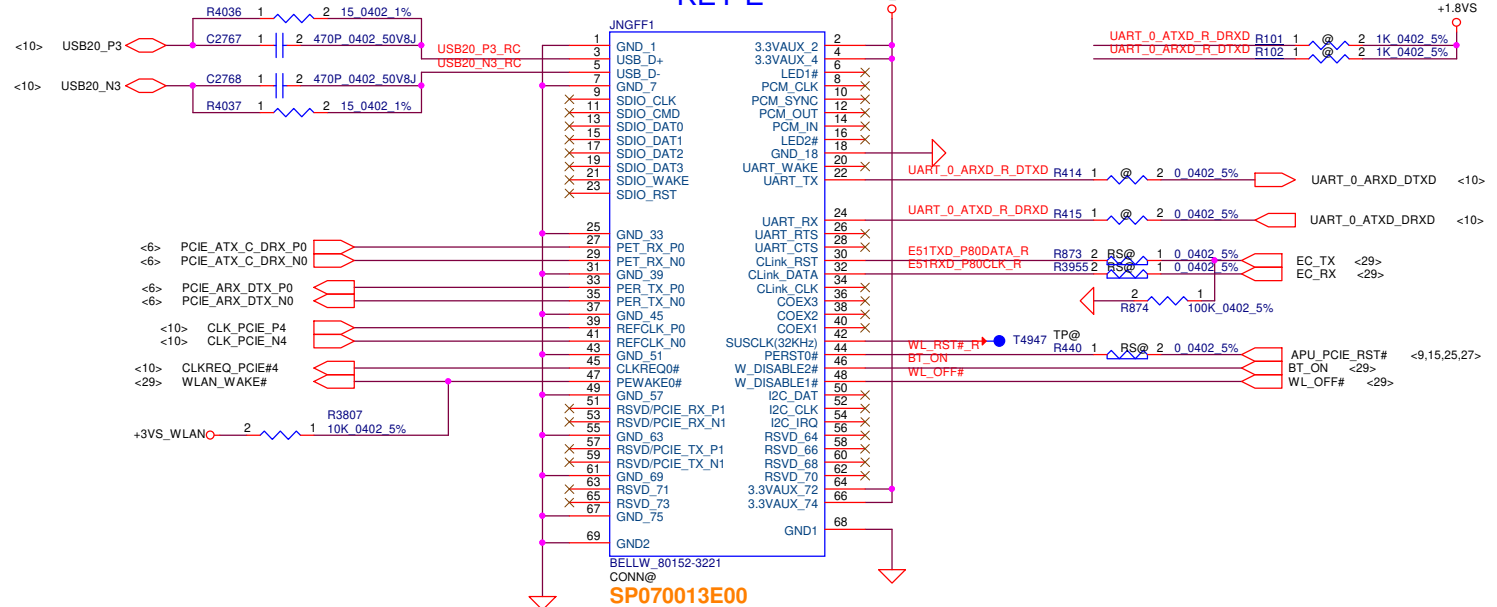
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				Date:	Friday, March 29, 2019	Sheet

Wireless LAN



NGFF WL+BT (KEY E)

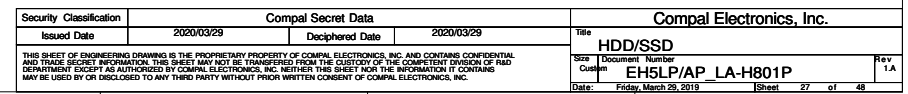
74	1.3v	GND	75
72	1.8v	RESERVED/REFCLKN1	73
70	UM_Power_SNK/GPIO/PWAVE1#	RESERVED/REFCLKP1	71
68	UM_Power_SNK/CLKREQ1#	GND	69
66	UM_SWP/PERST1#	Reserved/PERn1	67
64	RESERVED	Reserved/PERp1	65
62	ALERT# (I/O)(0.3V)	GND	61
60	QCCCLK (I/O)(0.3V)	Reserved/PETn1	61
58	QCCDATA (I/O)(0.3V)	Reserved/PETp1	59
56	W_DISABLE#1 (O)(0.3V)	GND	57
54	Reserved_W_DISABLE#2 (O)(0.3V)	PWAVE#2 (O)(0.3V)	55
52	PERST0N (I/O)(0.3V)	CLKREQ0N (I/O)(0.3V)	53
50	SUSCIN(32MHz) (O)(0.3V)	GND	51
48	CODE1 (I/O)(0.1.8v)	REFCLKN0	49
46	CODE2(O)(0.1.8v)	REFCLKP0	47
44	CODE3(O)(0.1.8v)	GND	45
42	VENDOR DEFINED	PERn0	43
40	VENDOR DEFINED	PERp0	41
38	VENDOR DEFINED	GND	39
36	UART RTS (O)(0.1.8v)	PETn0	37
34	UART CTS (I/O)(0.1.8v)	PETp0	35
32	UART TX (O)(0.1.8v)	GND	33
	UART RX (I/O)(0.1.8v)	SDIO_RESET# (O)(0.1.8v)	23
22	UART RX (I/O)(0.1.8v)	SDIO_WAKE# (I)(0.1.8v)	21
20	UART WAKE# (I/O)(0.3V)	SDIO DATA0(O)(0.1.8v)	19
18	GND	SDIO DATA1(O)(0.1.8v)	17
16	LED2# (I)(I/O)	SDIO DATA2(O)(0.1.8v)	17
14	PCM_OUT/IS2_SQ_OUT (O)(0.1.8v)	SDIO DATA3(O)(0.1.8v)	15
12	PCM_IN/IS2_SQ_IN (I/O)(0.1.8v)	SDIO DATA4(O)(0.1.8v)	13
10	PCM_SYNC/IS2_WS (O)(0.1.8v)	SDIO CMD0(O)(0.1.8v)	11
8	PCM_CLK/IS2_SCK (O)(0.1.8v)	SDIO CLK(O)(0.1.8v)	9
6	LED1# (I)(I/O)	GND	7
4	1.8v	USB_D+	5
2	1.8v	USB_D-+	3
	1.8v	GND	1



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				Custm	EH5LP/AP LA-H801P		1.A
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G-Sensor (reserved)



HD Audio Codec

SM01000EJ00 3000mA 220ohm@100mhz DCR 0.04

+VDDA LA1 2 1 0.0402 5% HCB8012NF-221130_0885 SM01000EJ00

Place near Pin41

Place near Pin46

Place near Pin1

Place near Pin40

Place near Pin26

Place near Pin4

Place near Pin28

Place near Pin15

Place near Pin12

Place near Pin10

Place near Pin8

Place near Pin6

Place near Pin4

Place near Pin2

Place near Pin1

Place near Pin0

Place near Pin-1

Place near Pin-2

Place near Pin-3

Place near Pin-4

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Place near Pin-160

Place near Pin-161

Place near Pin-162

Place near Pin-163

Place near Pin-164

Place near Pin-165

Place near Pin-166

Place near Pin-167

Place near Pin-168

Place near Pin-169

Place near Pin-170

Place near Pin-171

Place near Pin-172

Place near Pin-173

Place near Pin-174

Place near Pin-175

Place near Pin-176

Place near Pin-177

Place near Pin-178

Place near Pin-179

Place near Pin-180

Place near Pin-181

Place near Pin-182

Place near Pin-183

Place near Pin-184

Place near Pin-185

Place near Pin-186

Place near Pin-187

Place near Pin-188

Place near Pin-189

Place near Pin-190

Place near Pin-191

Place near Pin-192

Place near Pin-193

Place near Pin-194

Place near Pin-195

Place near Pin-196

Place near Pin-197

Place near Pin-198

Place near Pin-199

Place near Pin-200

Place near Pin-201

Place near Pin-202

Place near Pin-203

Place near Pin-204

Place near Pin-205

Place near Pin-206

Place near Pin-207

Place near Pin-208

Place near Pin-209

Place near Pin-210

Place near Pin-211

Place near Pin-212

Place near Pin-213

Place near Pin-214

Place near Pin-215

Place near Pin-216

Place near Pin-217

Place near Pin-218

Place near Pin-219

Place near Pin-220

Place near Pin-221

Place near Pin-222

Place near Pin-223

Place near Pin-224

Place near Pin-225

Place near Pin-226

Place near Pin-227

Place near Pin-228

Place near Pin-229

Place near Pin-230

Place near Pin-231

Place near Pin-232

Place near Pin-233

Place near Pin-234

Place near Pin-235

Place near Pin-236

Place near Pin-237

Place near Pin-238

Place near Pin-239

Place near Pin-240

Place near Pin-241

Place near Pin-242

Place near Pin-243

Place near Pin-244

Place near Pin-245

Place near Pin-246

Place near Pin-247

Place near Pin-248

Place near Pin-249

Place near Pin-250

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Place near Pin-254

Place near Pin-255

Place near Pin-256

Place near Pin-257

Place near Pin-258

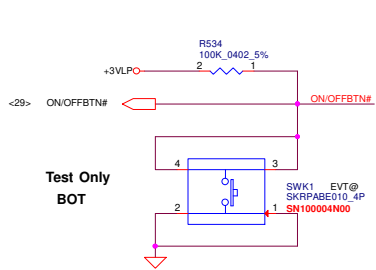
Place near Pin-259

Place near Pin-260

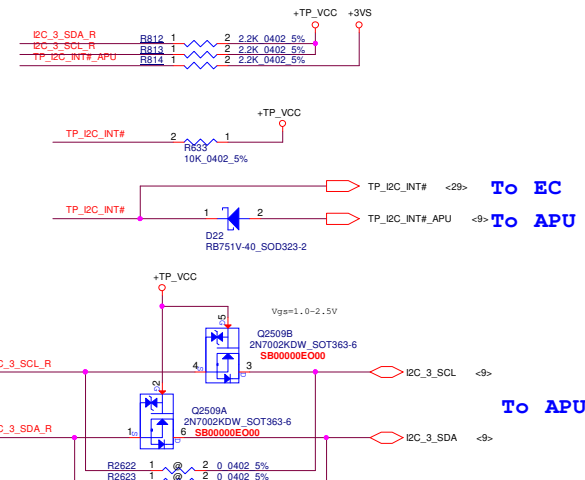
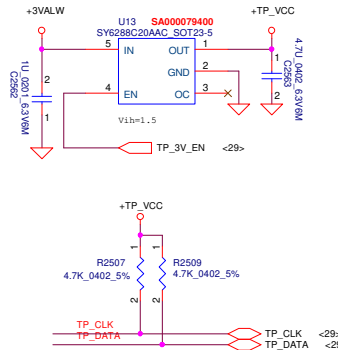
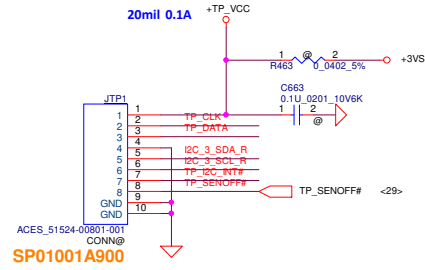
Place near Pin-261

Place near Pin-262

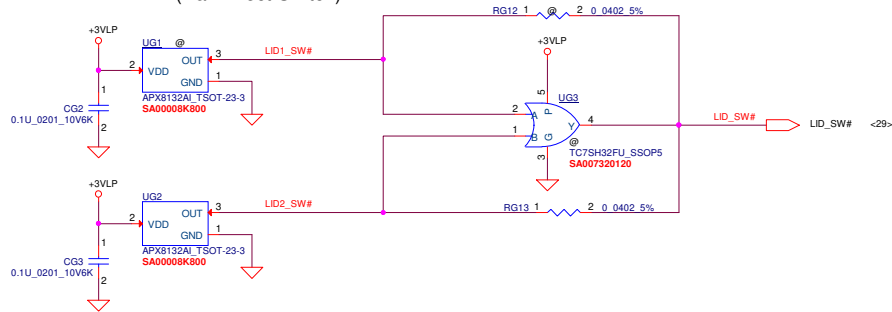
ON/OFF BTN



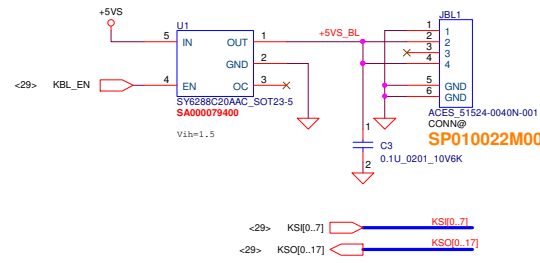
TP/B Conn.



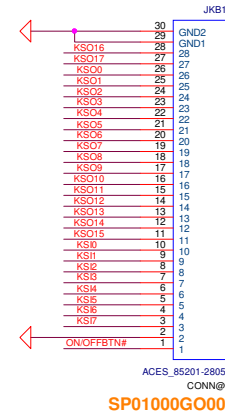
Lid Switch (Hall Effect Switch)



KB BackLight

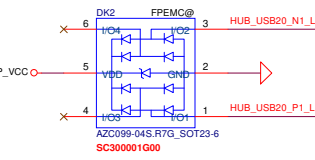
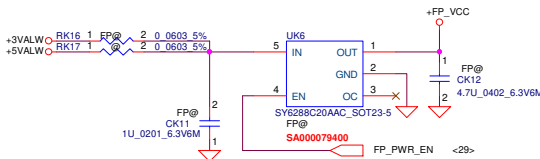


KB Conn.

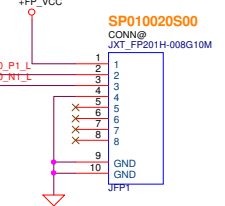


Finger Print

Power Source Check
EGIS ETU801 +FP_VCC=5V
ELAN SA464K-2200 +FP_VCC=3.3V

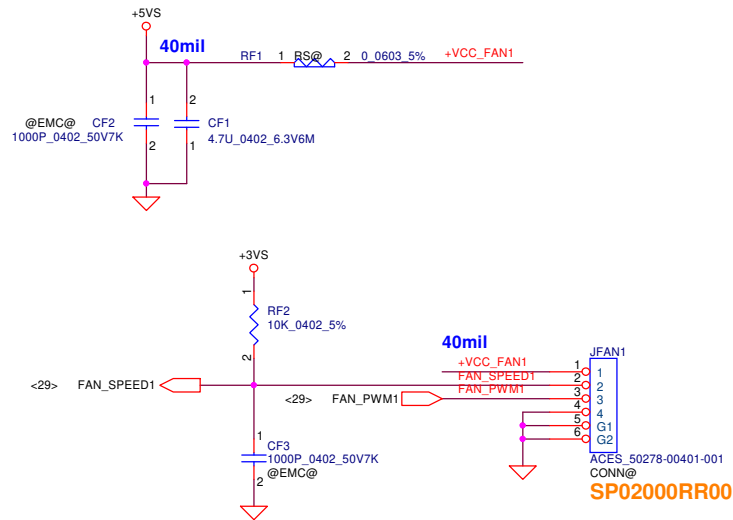


JFP1	
PIN	SA464K-2200
1	+FP_VCC (3V)
2	D+
3	D-
4	GND
5	NC
6	NC
7	NC
8	NC

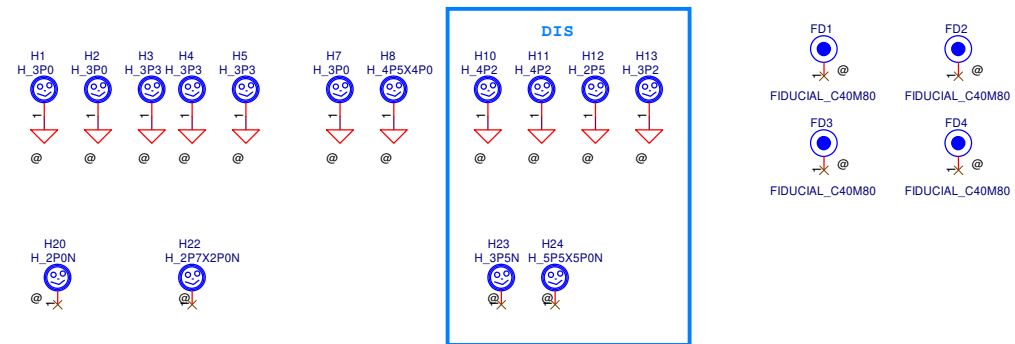


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				Customer	1A
				Date	Friday, March 29, 2019
				Sheet	30 of 48

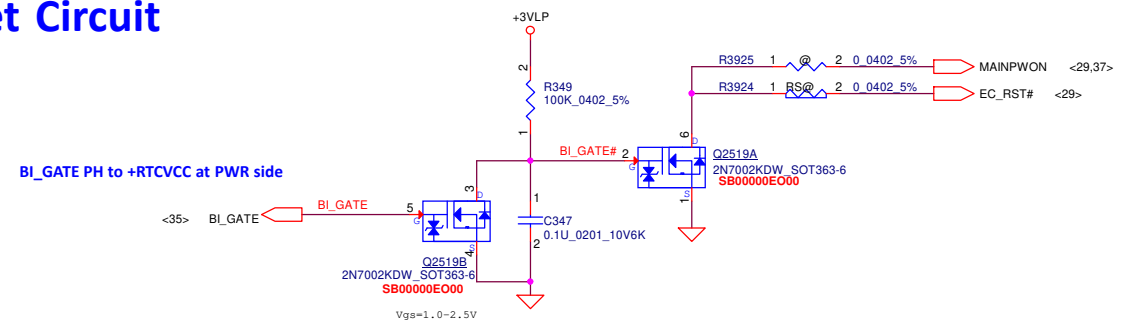
FAN Conn



Screw Hole

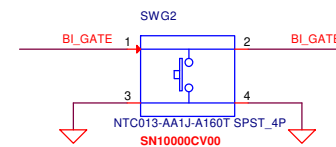


Reset Circuit



Reset Button

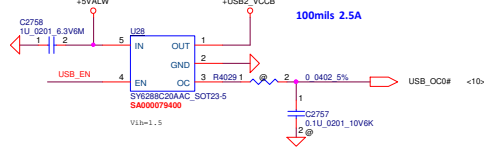
Reset Button



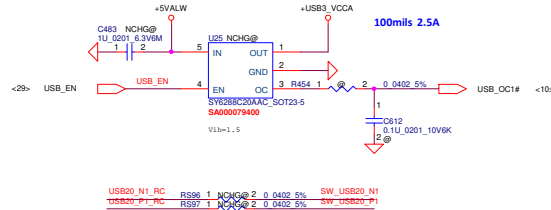
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Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2020/03/29	Deciphered Date	2020/03/29	Title FAN/BATT RESET_DEGUB SW		
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				Custom	EH5LP/AP_LA-H801P	
Date:				Friday, March 29, 2019	Sheet	31 of 48

Power For USB2.0



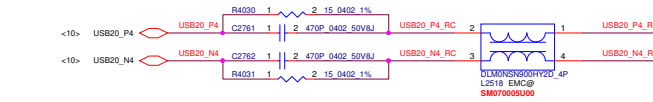
Non-Charger Co-lay



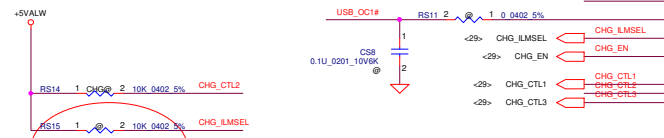
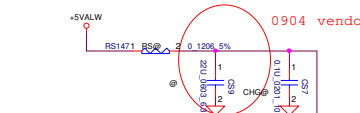
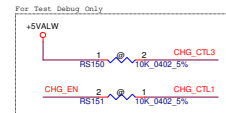
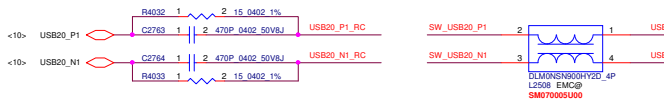
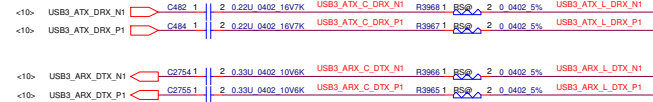
USB Host Charger Truth Table

CHG_EN	CTL1	CTL2	CTL3	ILIM_SEL	MODE	Current Setting	Limit	Note
0	0	1	0	1	SDP1-OFF	ILIM_H		Port power off
1	0	1	0	1	SDP1	ILIM_H		Data Lines Connected
1	0	1	1	1	DCP Auto	ILIM_H		Data Lines Disconnected
1	1	1	1	1	CDP	ILIM_H		Data Lines Connected

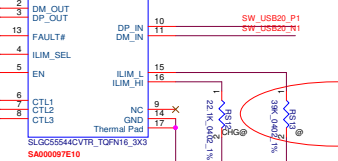
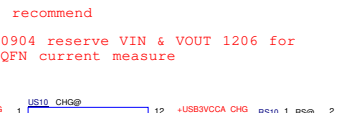
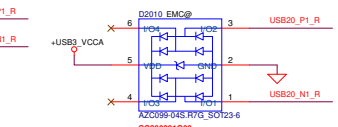
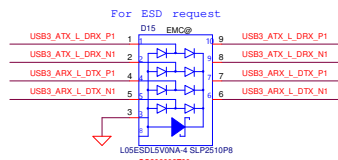
USB2.0 (Port 0)



USB3.0 (Port 1)

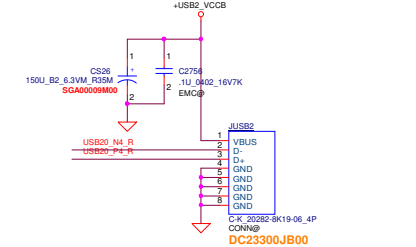


0911 Rerserve PU, vendor suggest to EC control if future need support SDP2

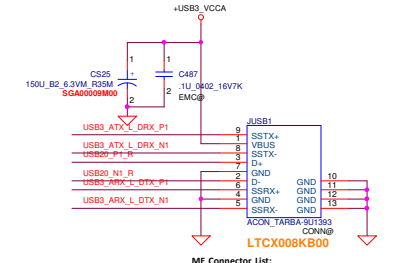


ILIM R vaule
Ios (mA)=50250/R (Kohm)
ILIM_RI=2273mA
ILIM_L=1288mA

USB2.0 Conn.

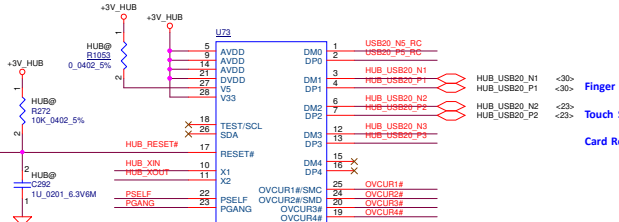
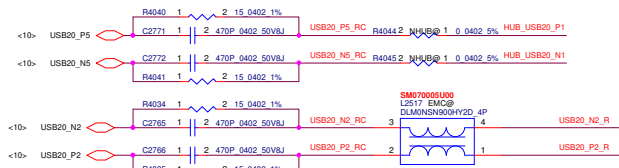
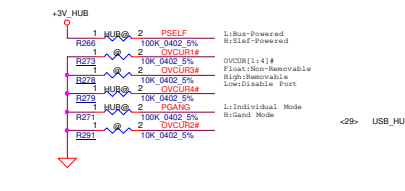
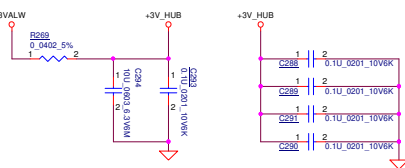


USB3.0 Conn.

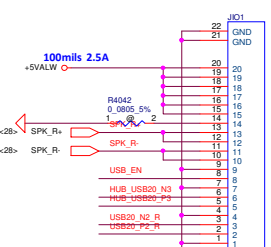


ME Connector List:
DC2300T00T, CONN ACON TCR4F-9V1391 9P USB3.0

USB HUB

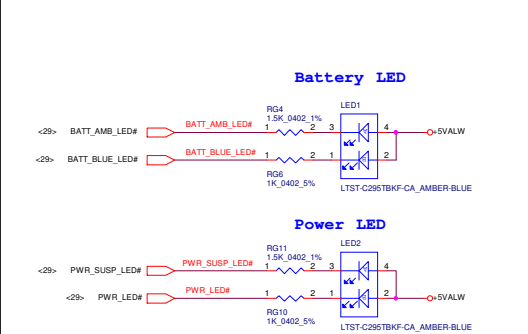


(Single-TT) SA00006320, 5 IC GL850G-OHY50 QFN 28P USB2.0 HUB
(Multiple-TT) SA000065710, 5 IC GL852G-OHY50 QFN 28P USB3.0 HUB



Finger Print
Touch Screen
Card Reader

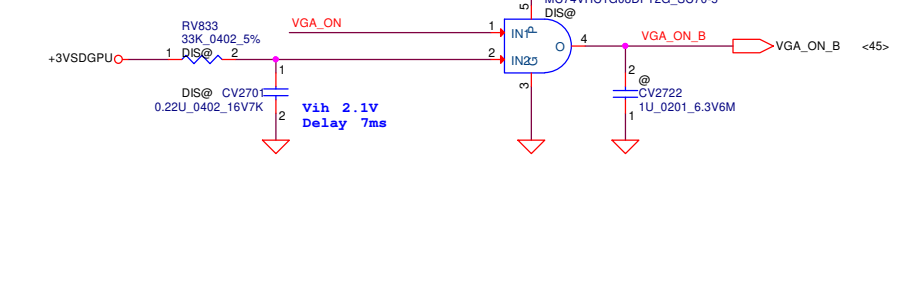
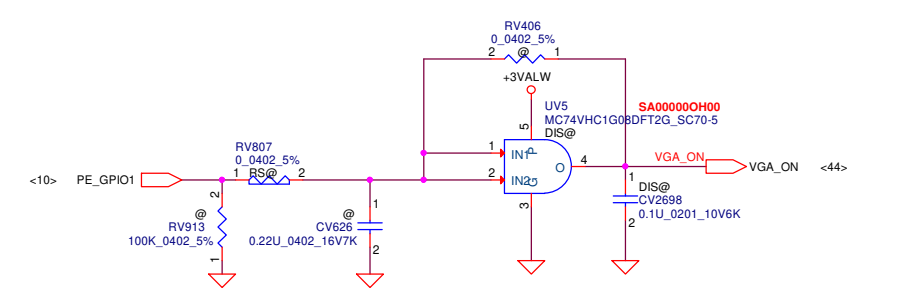
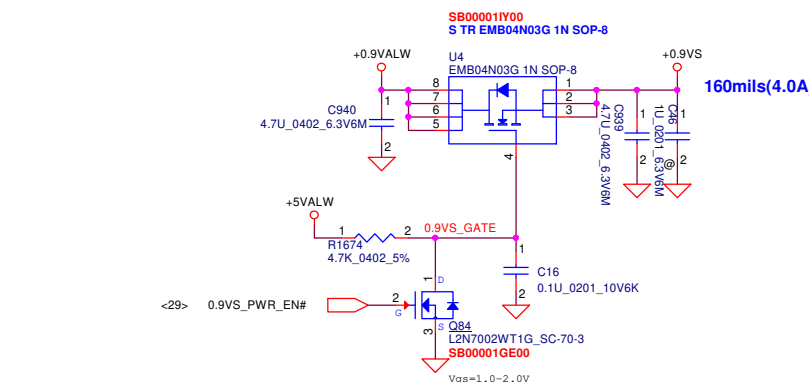
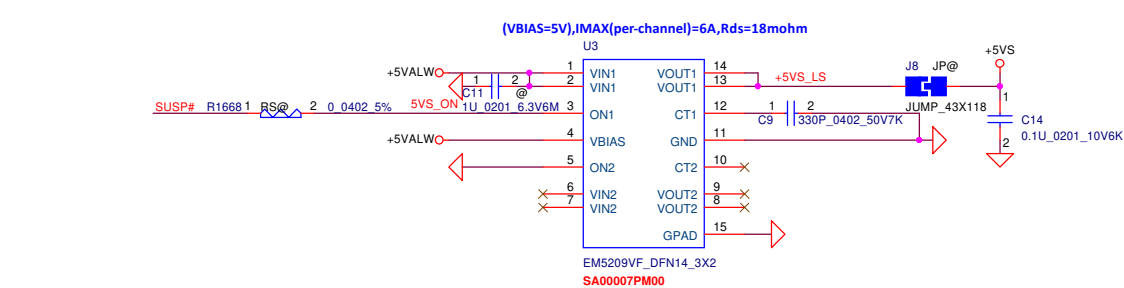
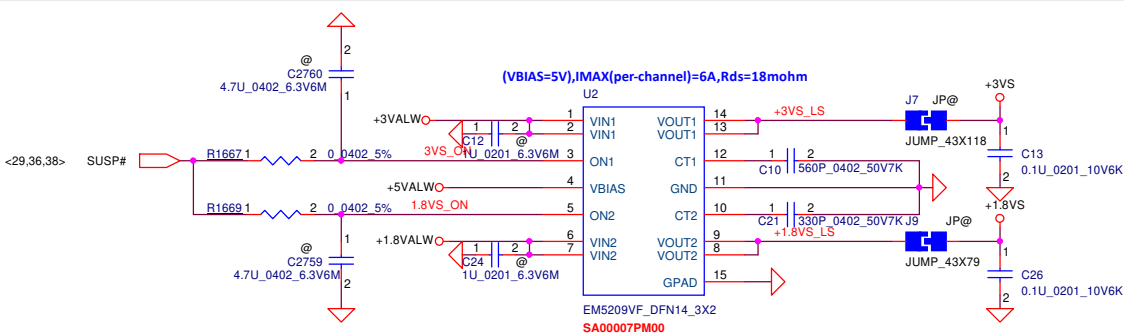
LED



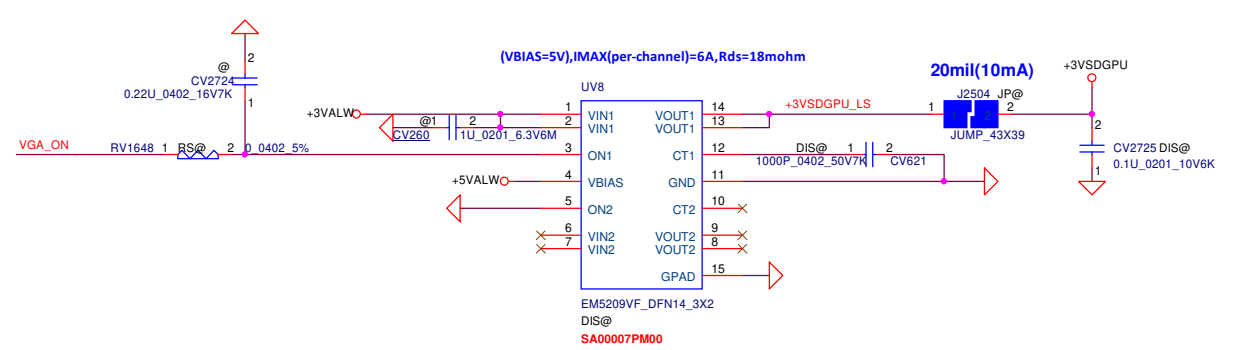
Battery LED

Power LED

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Title		USB30/USB HUB/LED	
Rev	Document Number	EH5LP/AP LA-H801P	
Custom			
Date:	Friday, March 29, 2019	Sheet	32 of 48

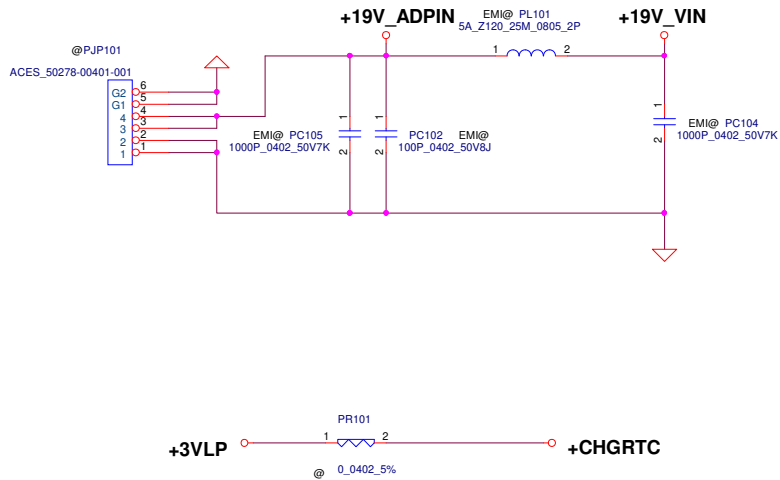


+3VALW TO +3VSDGPU



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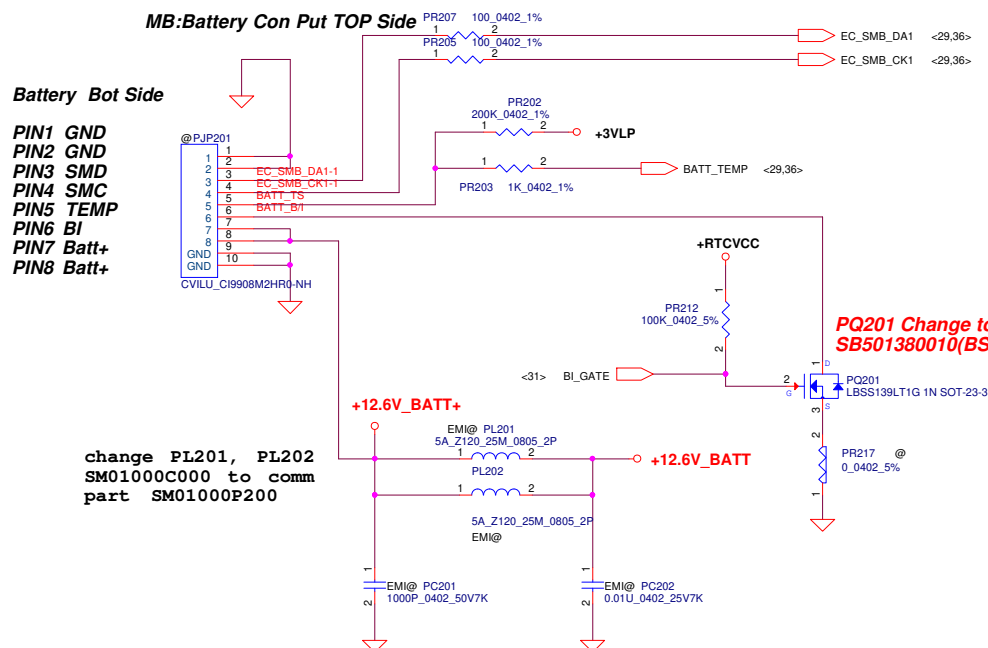
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Size		Document Number		Rev	
Custom		EH5LP/AP_LA-H801P		1.A	
Date:		Friday, March 29, 2019		Sheet 33 of 48	



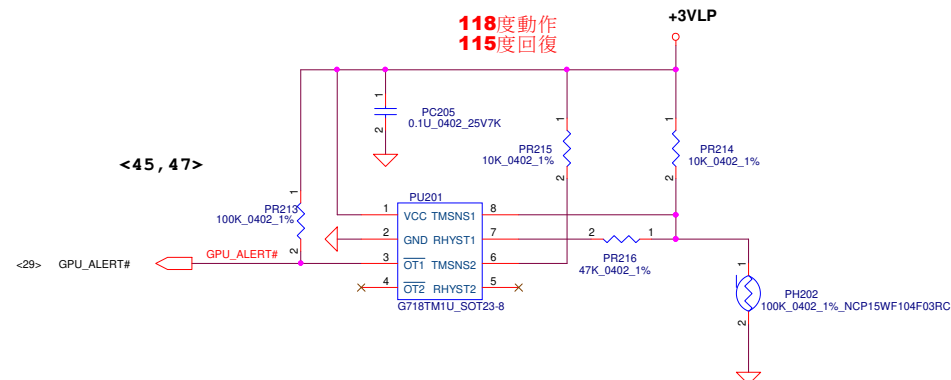
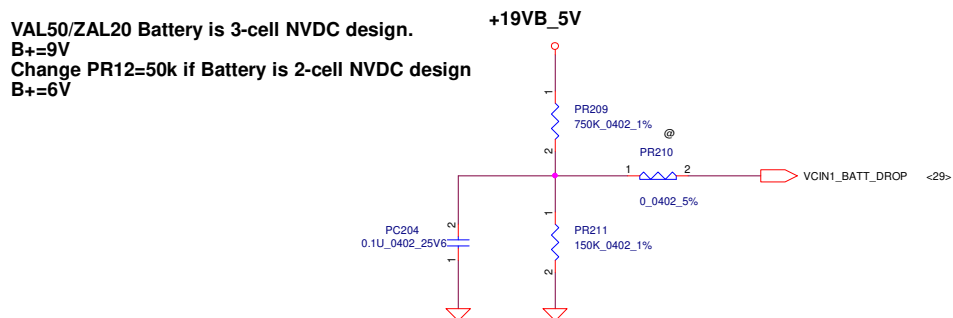
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		EH5KP/AP LA-H801P			0.1
Date:		Friday, March 29, 2019		Sheet	34 of 48

2013/07/23
change PC5 and PC6 function field from 37.1 to 47.1

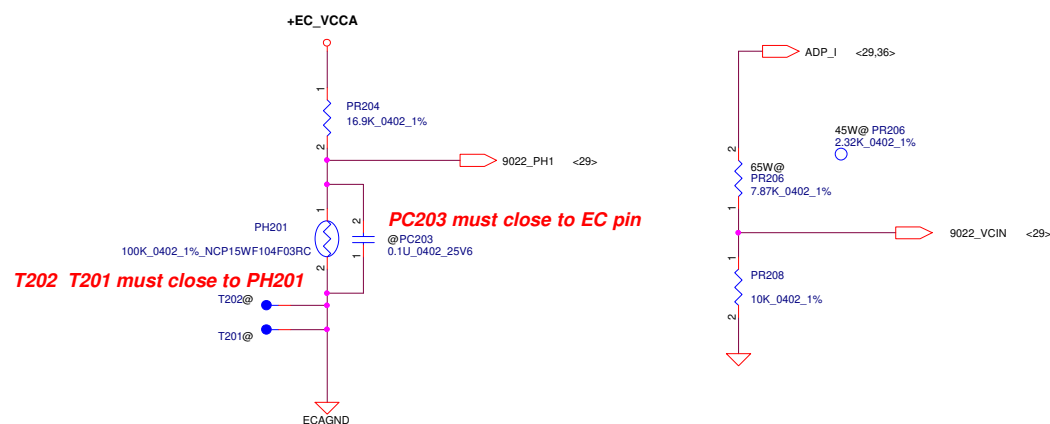


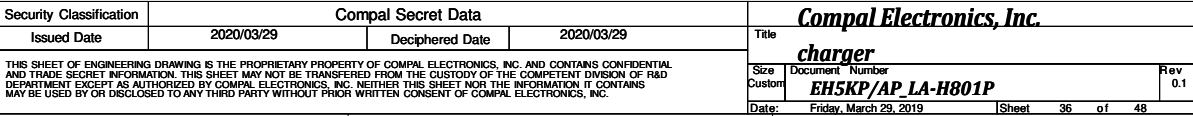
2013/06/07
Add for ENE9022 Battery Voltage drop detection.
Connect to ENE9022 pin64 AD1.

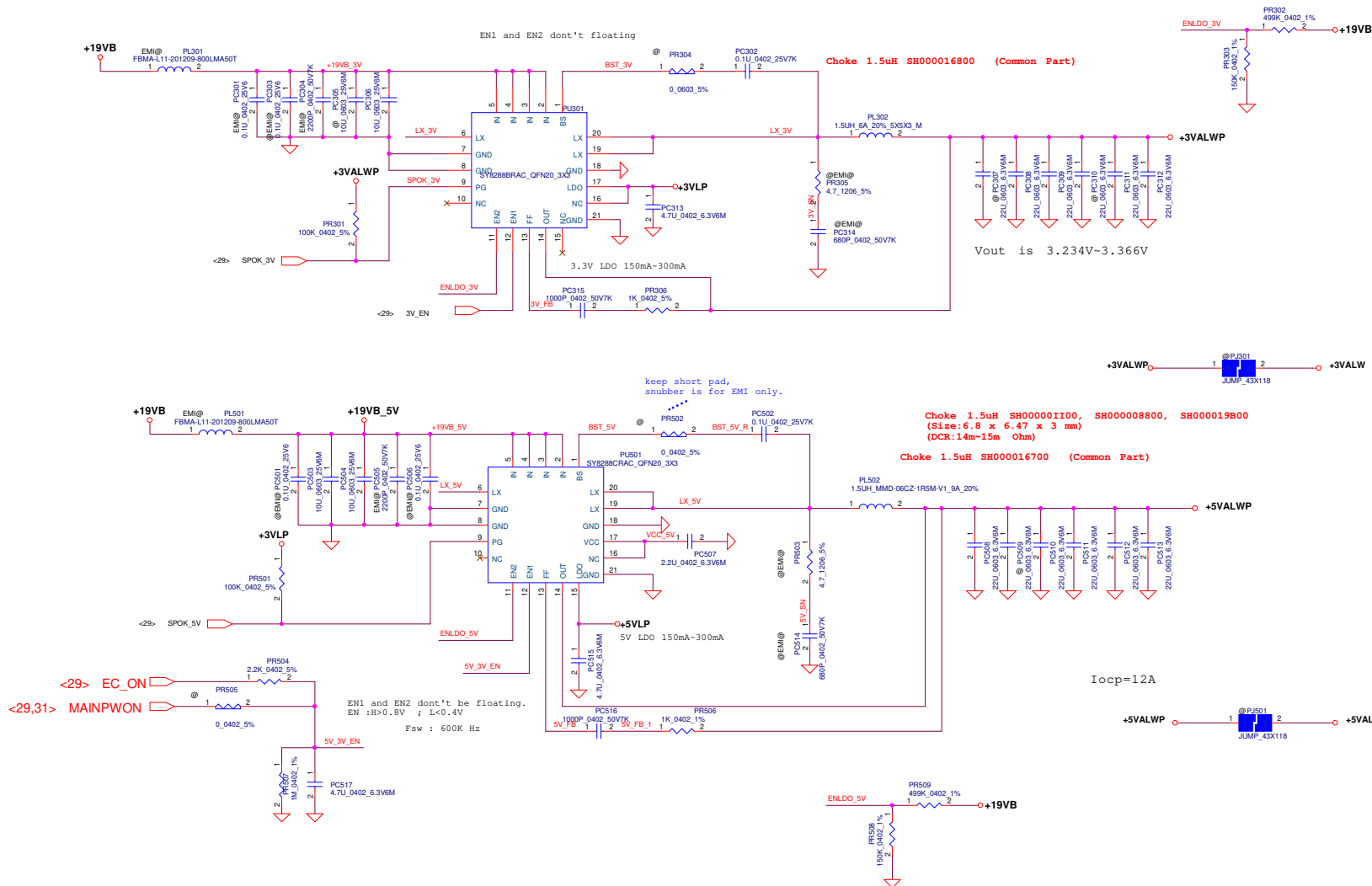


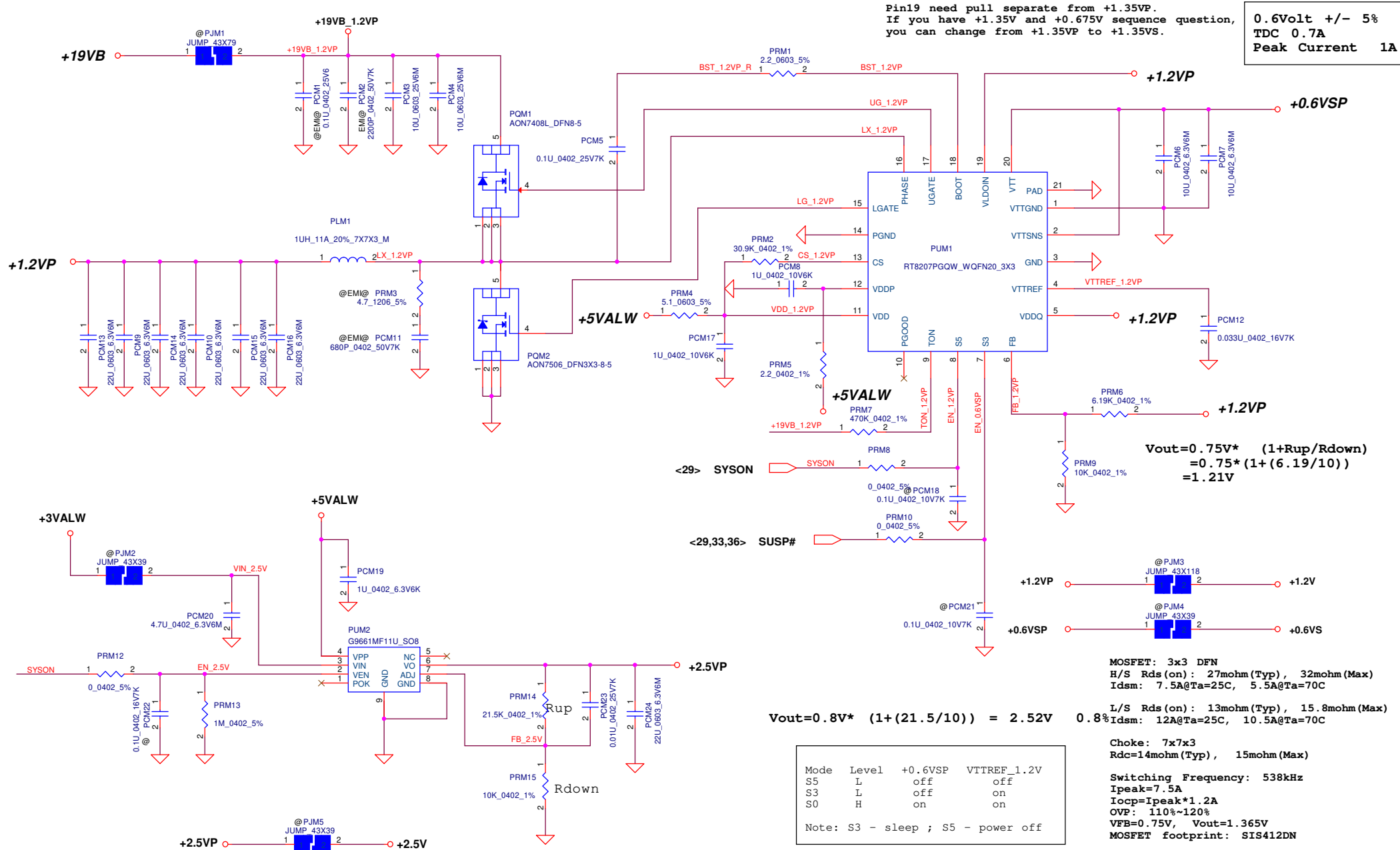
For KB9022 sense 10mΩ	Active	Recovery
		Active=recovery
		Active=recovery
PH1	2V	1V

PH1 under CPU botten side :
CPU thermal protection at 89 +-3 degree C
Recovery at 56 +-3 degree C

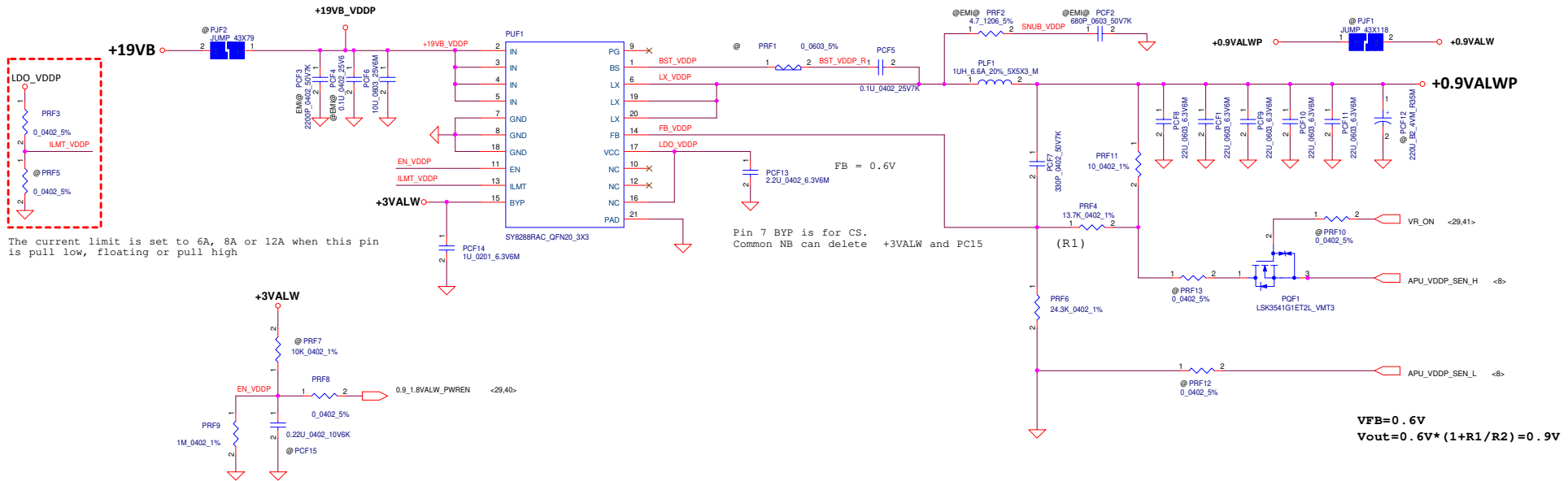


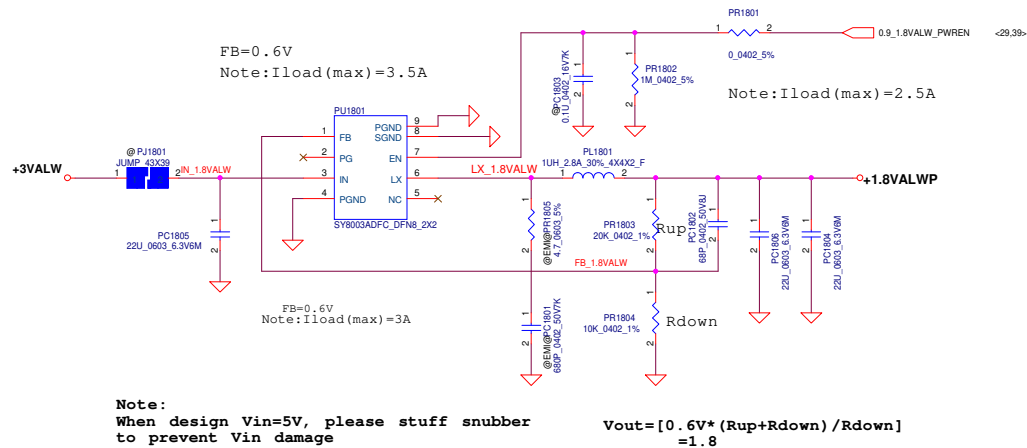






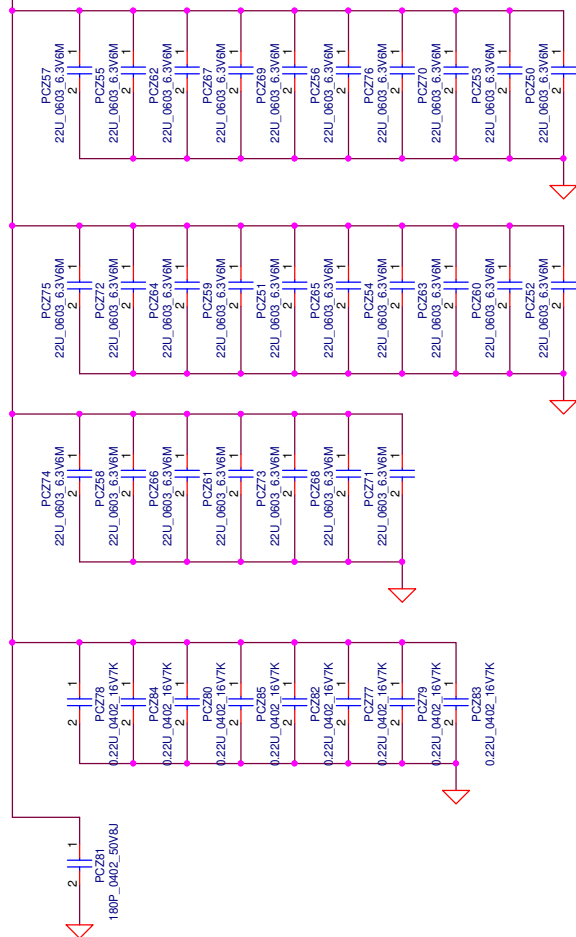
EN pin don't floating
If have pull down resistor at HW side, pls delete PR702



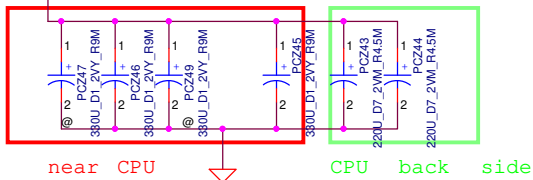


+APU_CORE

+APU_CORE



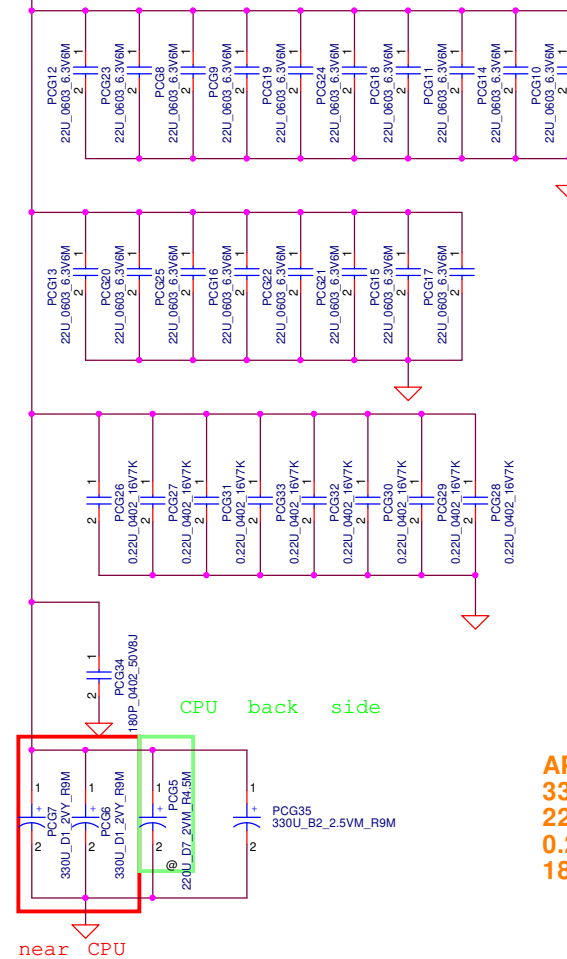
+APU_CORE



330u is common part SGA00009S00

+APU_CORE_SOC

+APU_CORE_SOC



CPU back side

near CPU

330u is common part SGA00009S00

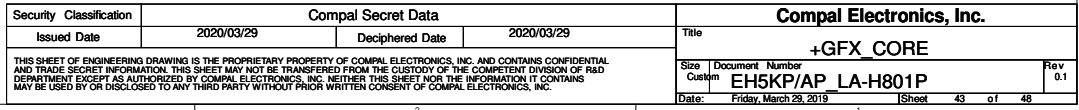
APU_CORE_SOC
330uF*2
22uF*18
0.22uF*8
180pF*1

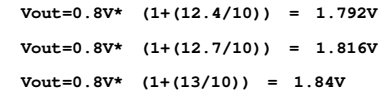
APU_CORE
330uF*5
22uF*27
0.22uF*8
180pF*1

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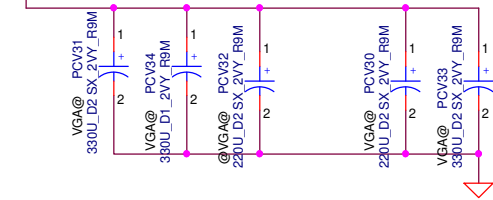
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				Document Number	0.1
				Customer	EH5KP/AP LA-H801P
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Module model information
SY8208D_V1.mdd

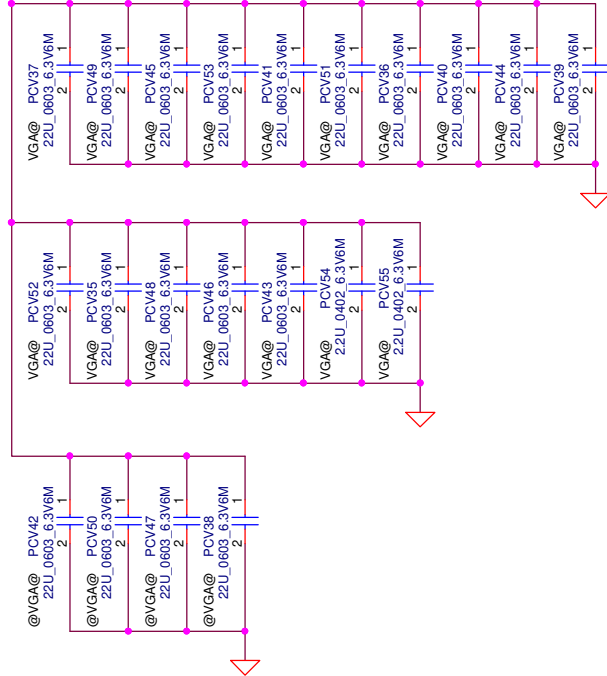




+VGA_CORE



+VGA_CORE



+VDDCI



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Size	Document Number	Rev		Date:	
B	EH5KP/AP LA-H801P	0.1		Friday, March 29, 2019	
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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
01		CPU_CORE transient test		P41	<1>change bom: PRZ52 R0402_0OHMSD028000080-->0_0402_5%SD028000080 <2>Add & Smt: PRV45 PRV46 0_0402_5%SD028000080 <3>Add & unpop: PCZ89 PCZ90 PCZ91 C_0402SE00000F180 <4>Add & unpop: PCV63 PCV64 PCV65 C_0402SE00000F180 <5>Smt: PCZ43 220U_D7_2VM_R4_5MSGA0000AM00 <6>unpop: PCZ49 330U_D1_2VY_R9MSGA00009S00 <7>Add & Smt: PCG35 330U_B2_2.5VM_R9MSGA00007Z00 <8>change bom: PRZ15 732_0402_1%SD000001480->976_0402_1%SD000003280 <9>Smt: PRZ6 210K_0402_1%SD034210380 <10>Add & Smt: PCZ92 680P_0402_50V7KSE074681K80 <11>change bom: PRZ16 41.2K_0402_1%SD000009K00->34K_0402_1%SD034340280	20190201	EVT
02		VGA transient test & change to R-Short & 5V CHOKE Common Part			<1>PR101 PR217 PR210:0_0402_5% SD028000080->R0402_0ohm 0_0402_5% SD028000080 change to R-Short <2>PRB15 PRB17 PRB23 PRB26:0_0402_5% SD028000080 -> R0402_0ohm 0_0402_5% SD028000080 change to R-Short <3>PRB16 PR304 PRF1:0_0603_5% SD013000080 -> R0603_0ohm 0_0603_5% SD013000080 change to R-Short <4>PR502 PR505: 0_0402_5% SD028000080 -> R0402_0ohm 0_0402_5% SD028000080 change to R-Short <5>PRW3: 0_0402_5% SD028000080 -> R0402_0ohm 0_0402_5% SD028000080 change to R-Short <6>PCV31 PCV33: 220U_2V_Y_D2_SGA0000BT00 -> 330U_2V_Y_ESR9M_SGA00009S00 BOM change <7>PCV32: 220U_2V_Y_D2_SGA0000BT00 -> Unpop BOM change <8>PL502: 7*7*3SH00000II00 -> 7*7*3 1.5uH SH000016700 BOM change->Common Part) <9>PC302 PC502 PCB11: 0.1U_0603_25V7K_SE042104K80 ->0.1U_0402_25V7K_SE00000W210 <10>PCW7: 0.1U_0603_25V7K_SE042104K80 ->0.1U_0402_25V7K_SE00000W210 <11>PCB1: 1000P_0603_50V7 SE025102K80 -> 1000P_0402_50V7K SE074102K80	20190212	EVT
03		CPUtransient test			PRZ26 137K_0402_1%_SD034137380 -> 38.3K_0402_1%_SD034383280 PRZ6 210K_0402_1%_SD034210380 -> 41.2K_0402_1%_SD000009K00 PRZ14 137K_0402_1%_SD034137380 -> 28.7K_0402_1%_SD034287280 PCZ47_330U_D1_2VY_R9M_SGA00009S00_->UnPOP	20190325	DVT
13							
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