

PG411 A01

GP104 - 8GB GDDR5, 256b, 256Mx32
Tall DVI-D + DP + DP + DP/HDMI + DP

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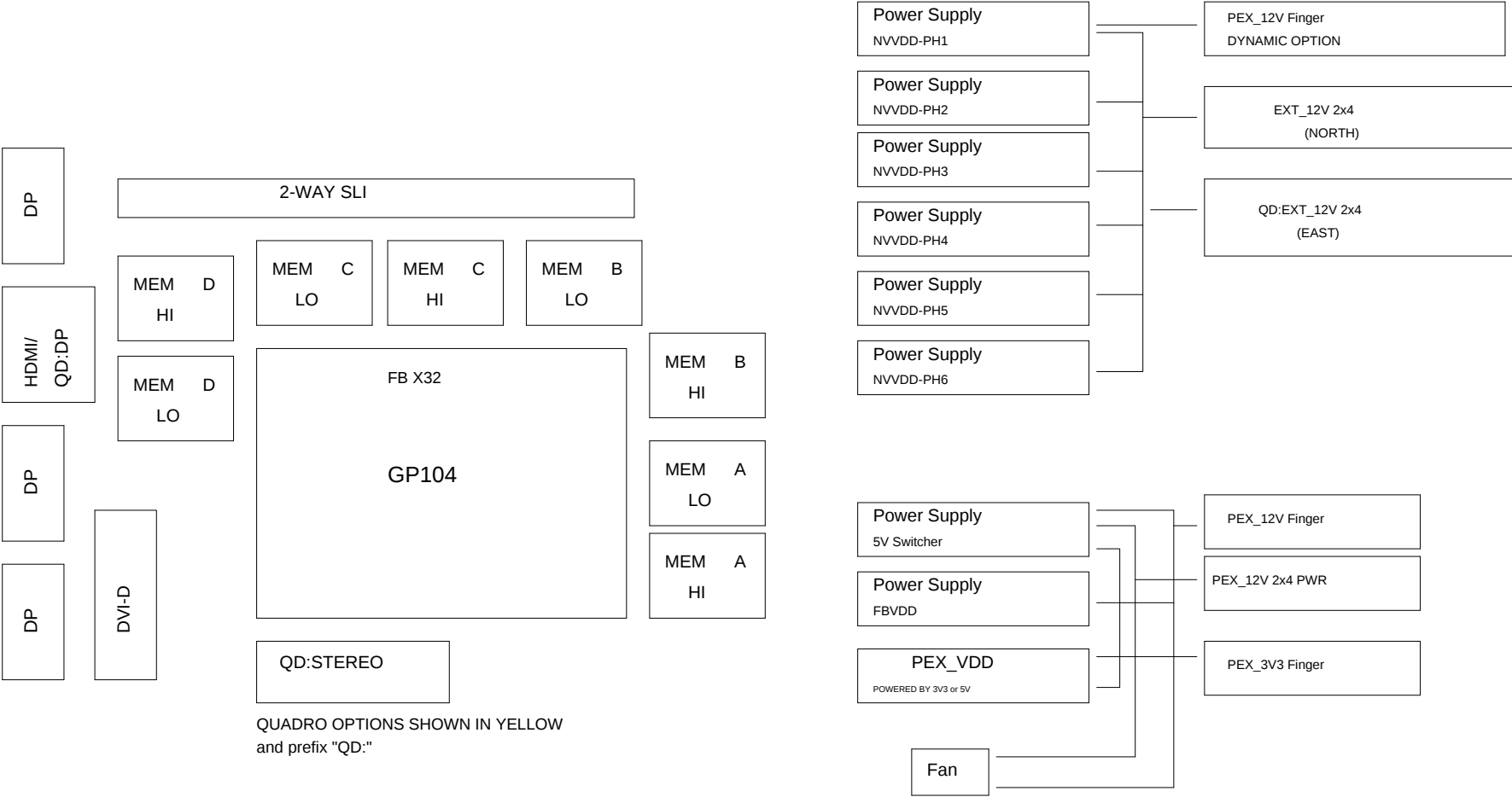
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ASSEMBLY	<ASSEMBLY DESCRIPTION>
PAGE DETAIL	Block Diagram

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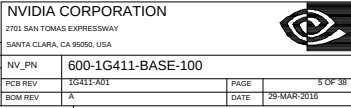
Page3: PCI Express

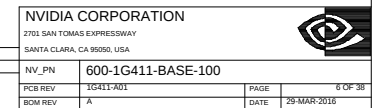


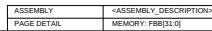
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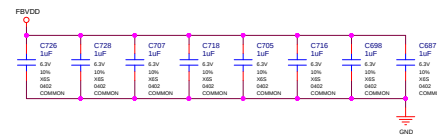
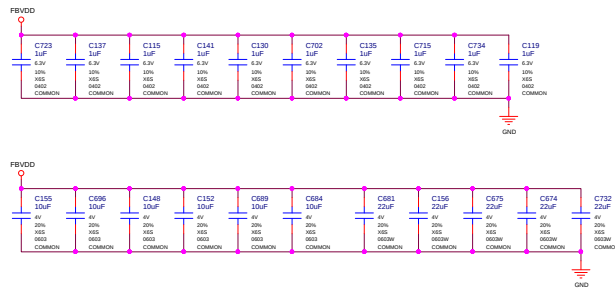
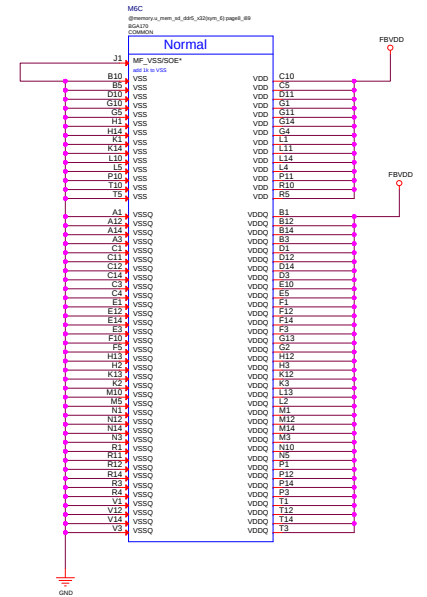
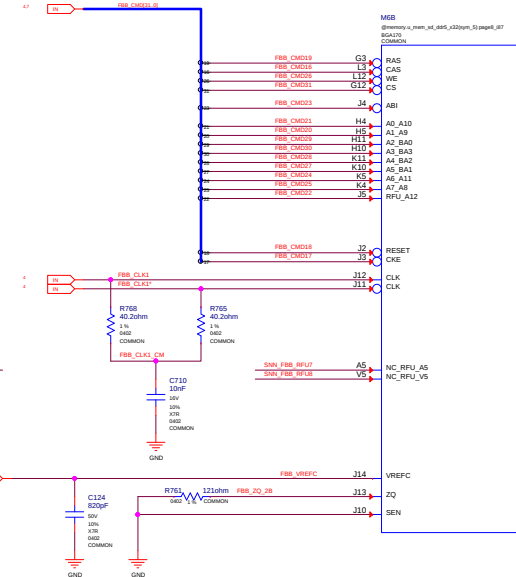








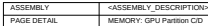
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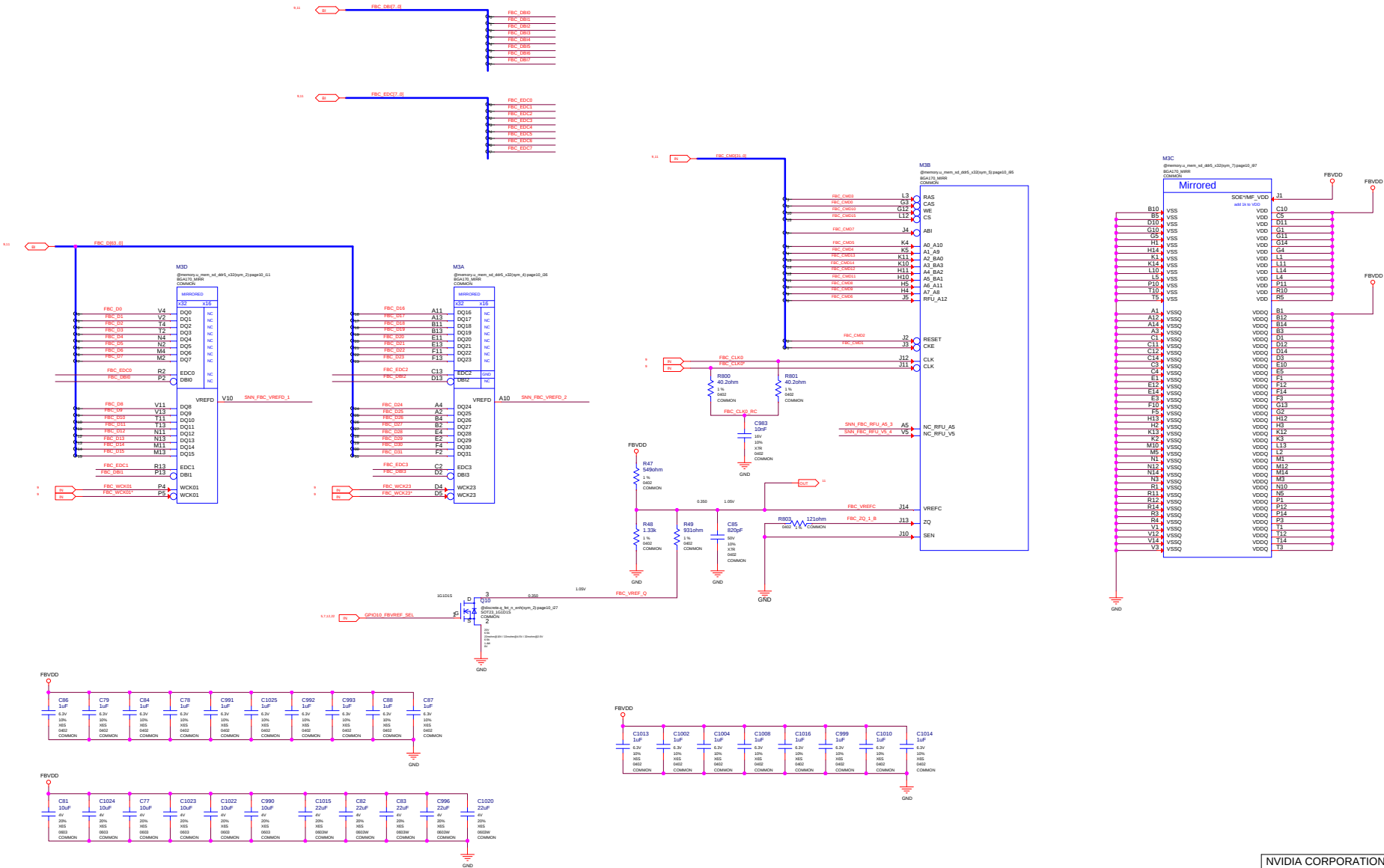


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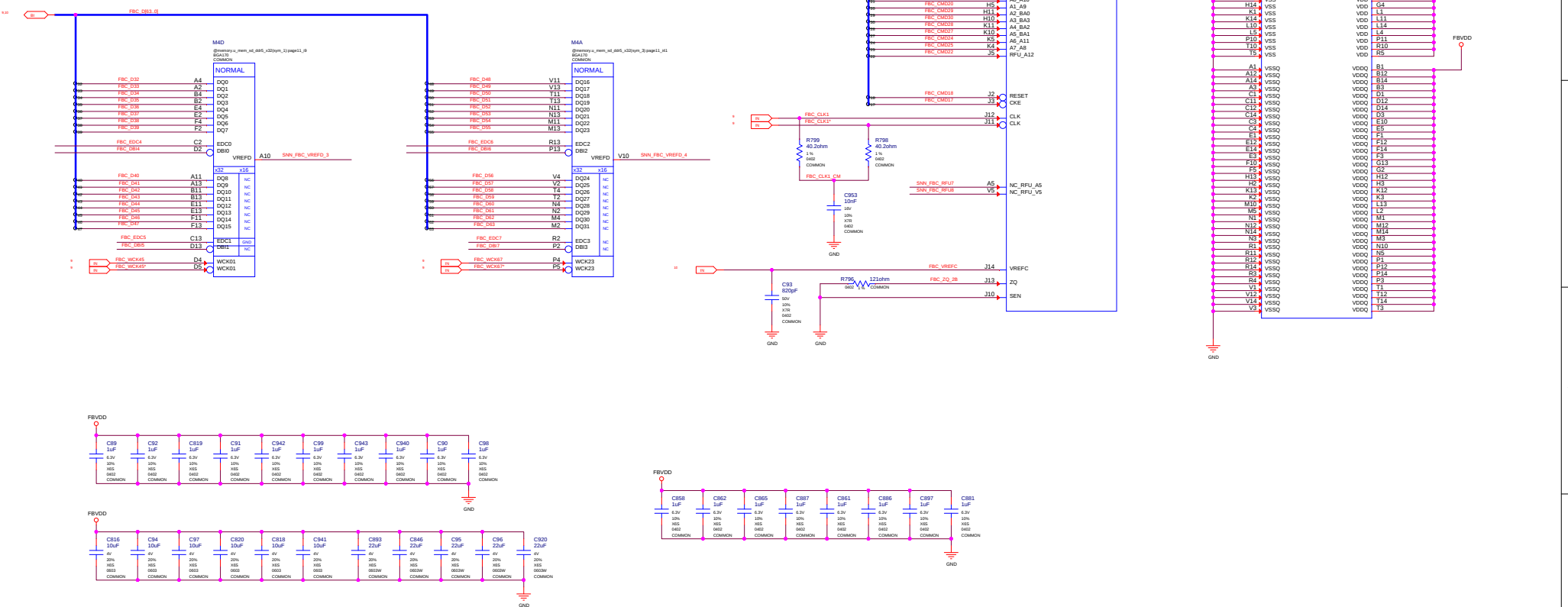




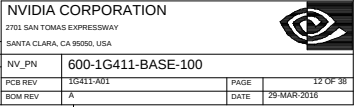
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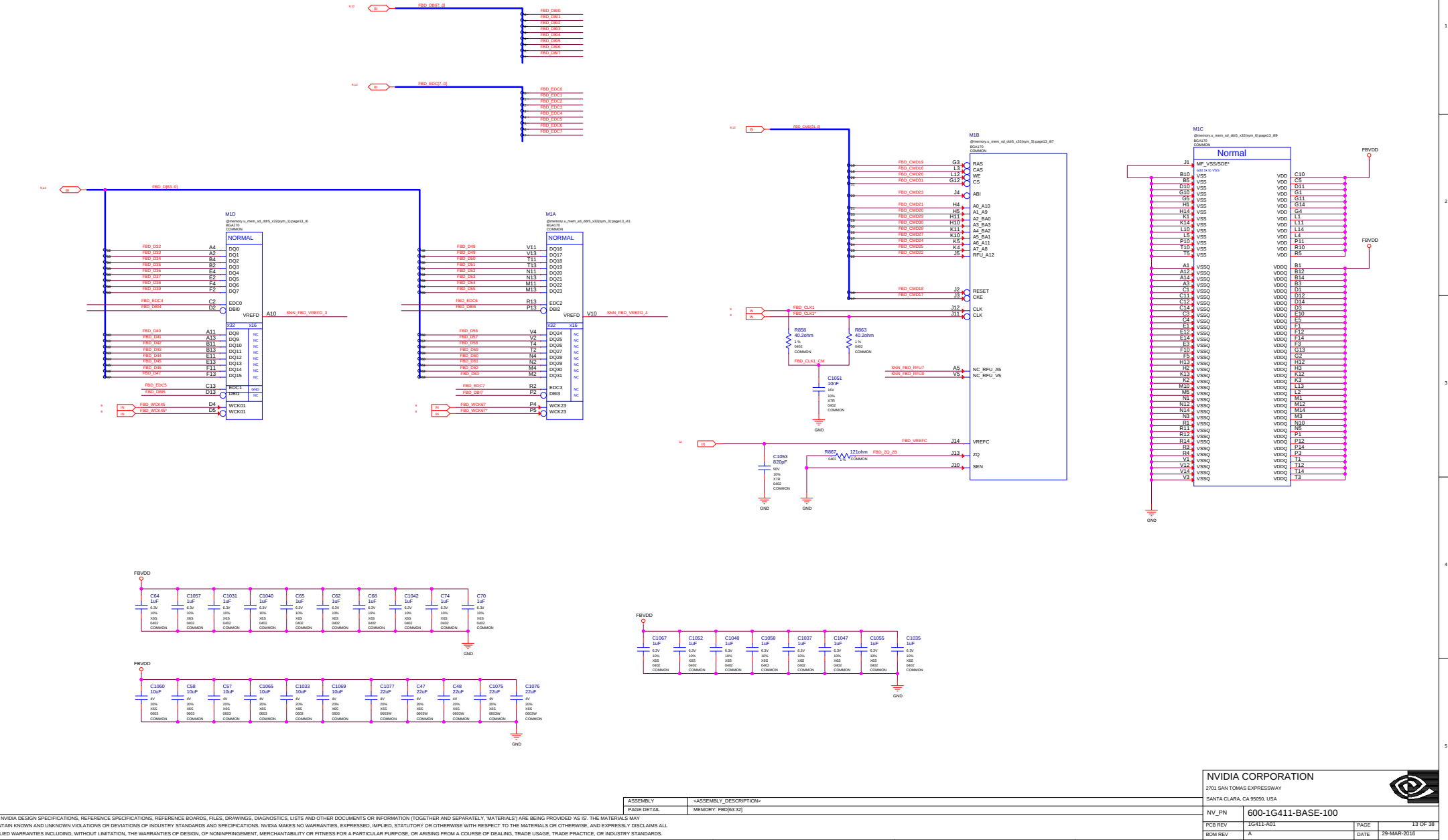
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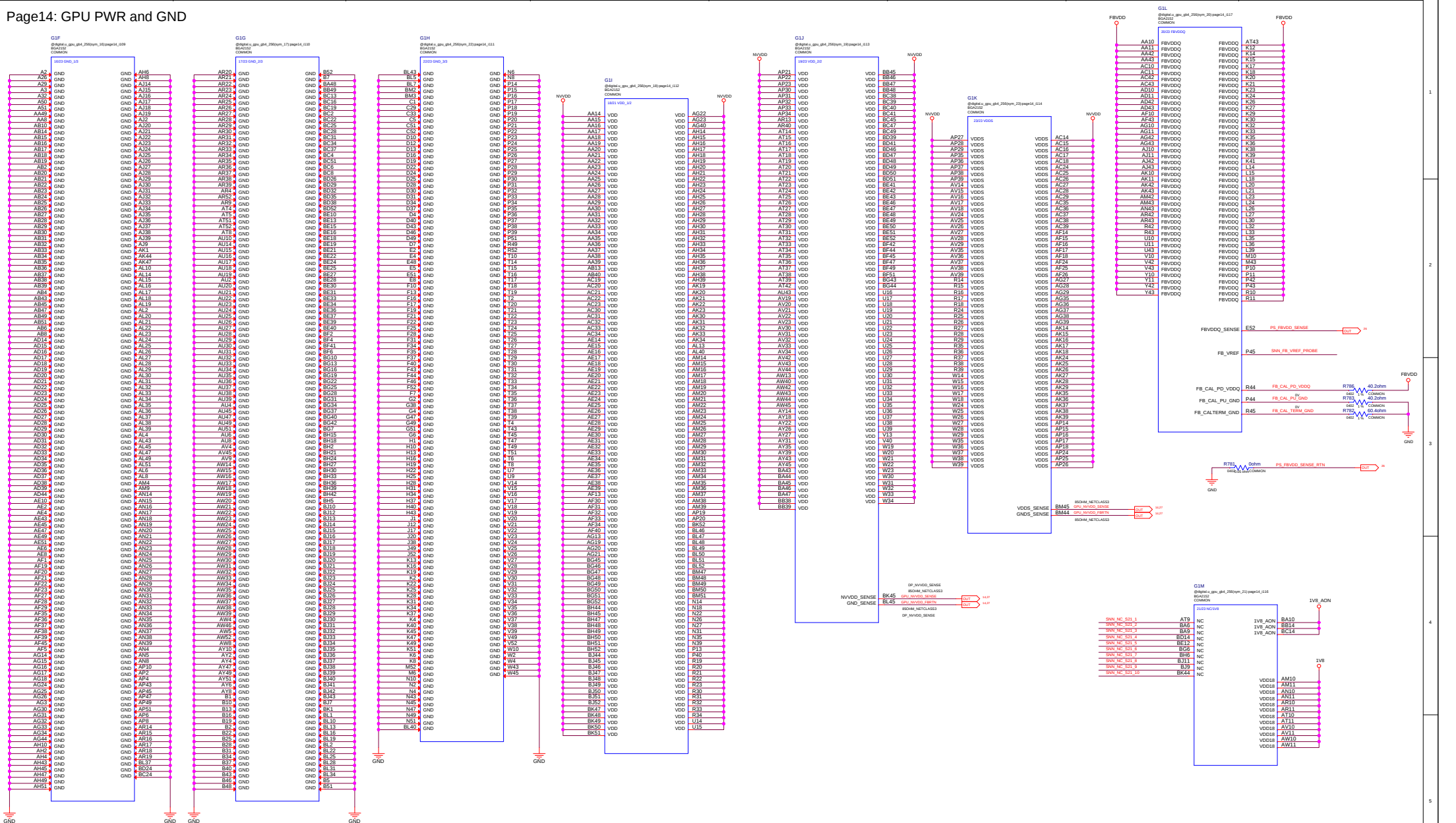


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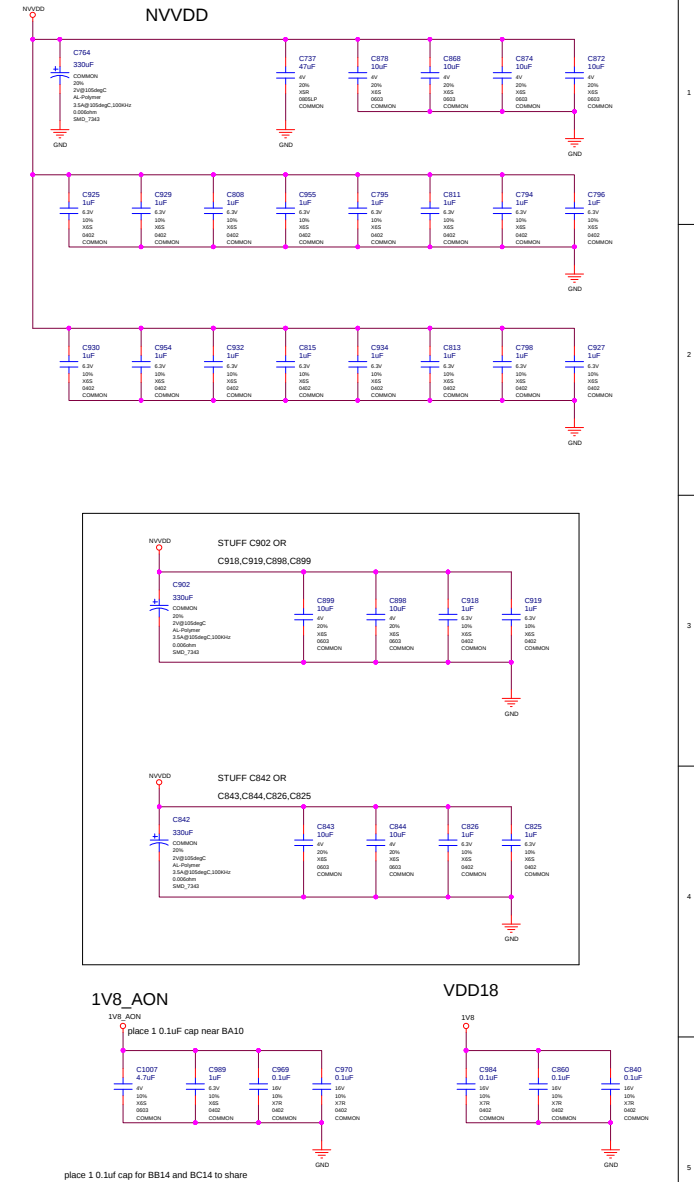
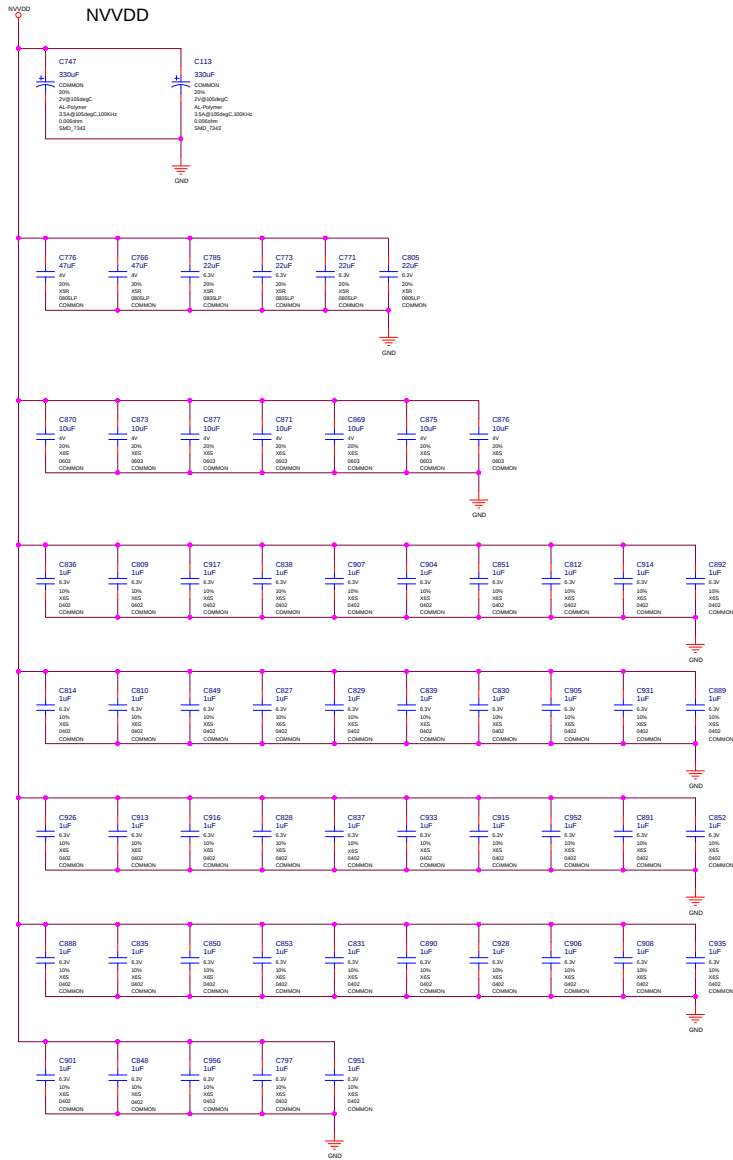
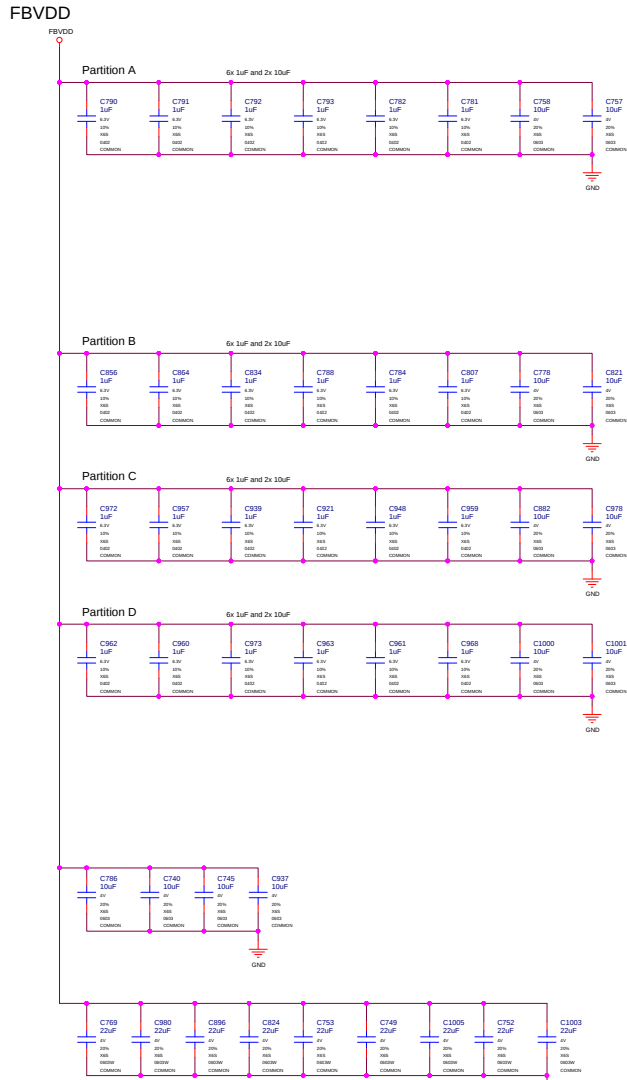


ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	GPU PWR and GND

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ASSEMBLY	<ASSEMBLY DESCRIPTION>
PAGE DETAIL	GPU Decoupling

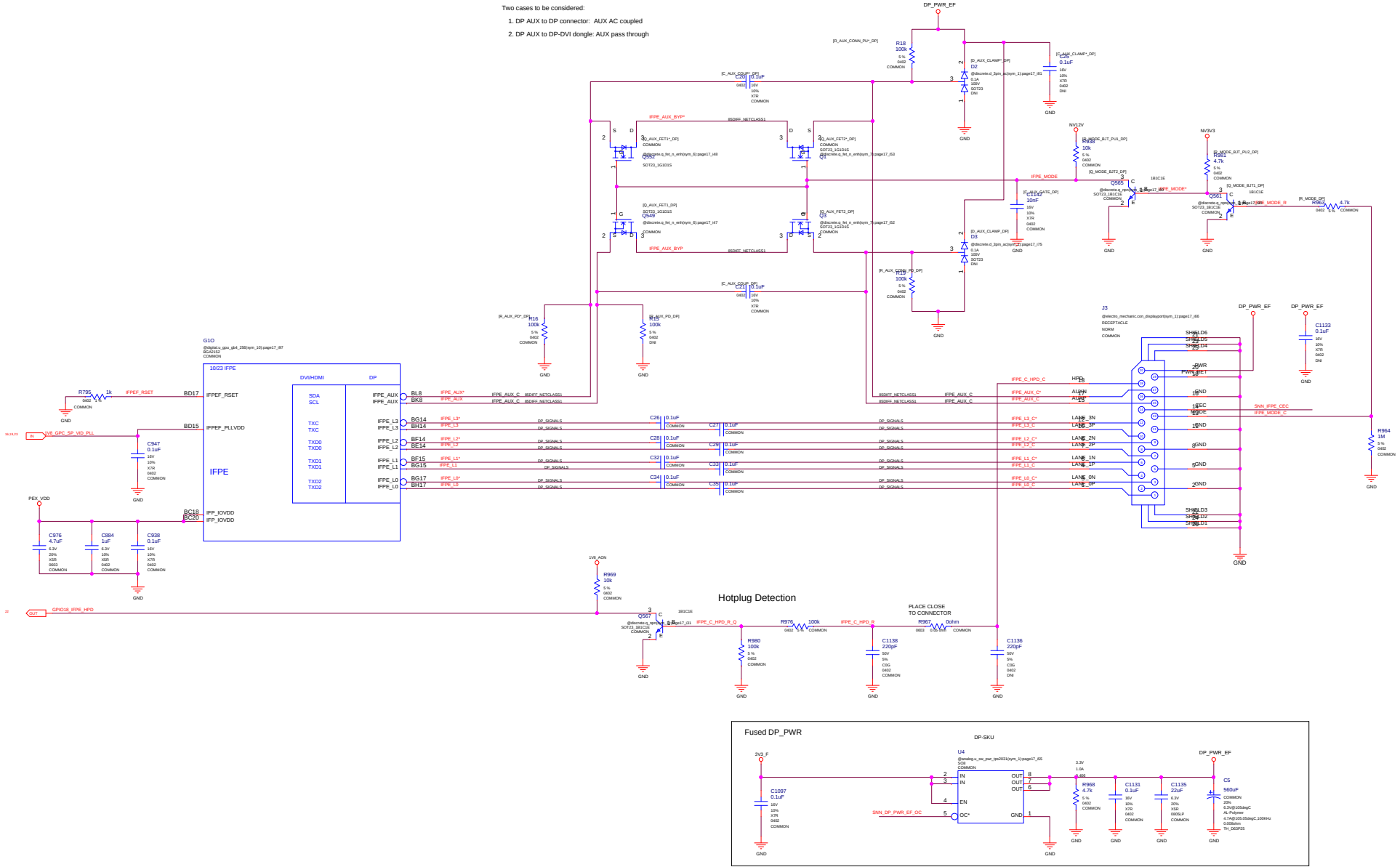
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- Two cases to be considered:
1. DP AUX to DP connector: AUX AC coupled
 2. DP AUX to DP-DVI dongle: AUX pass through

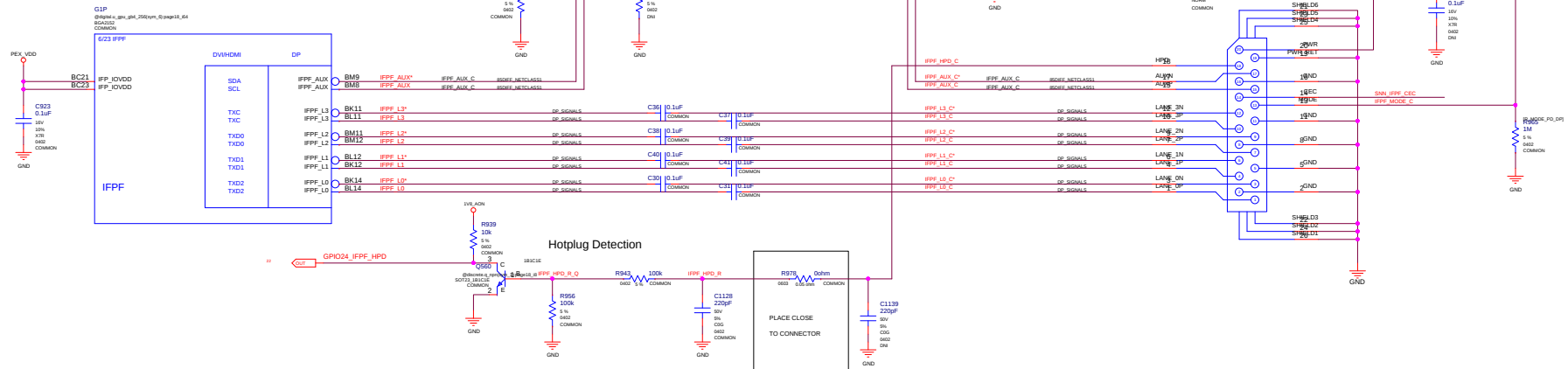


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1. DP AUX to DP connector: AUX AC coupled
2. DP AUX to DP-DVI dongle: AUX pass through



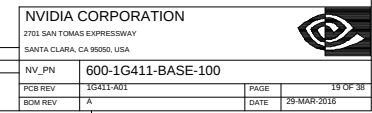
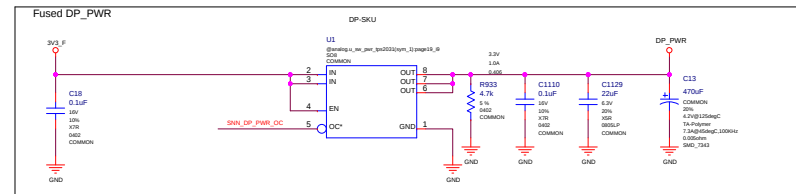
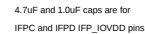
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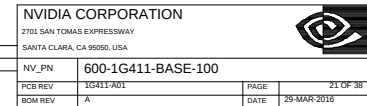


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STRAP2	STRAP1	STRAP0	RAMCFG[4:0]
L	L	L	00000
L	H	L	00010
L	H	H	00011
H	H	L	00110
H	H	H	00111

ROM_SO	ROM_SI	ROM_SCLK	SOR_EXPOSED[3:0]	1:ENABLE 0:DISABLE
L	L	L	1111	DEFAULT
L	L	H	1110	
L	H	L	1101	
L	H	H	1100	
H	L	L	1011	
H	L	H	1010	
H	H	L	1001	
H	H	H	1000	
L	L	M	0111	
L	M	L	0110	
L	M	H	0101	
L	H	M	0100	
H	L	M	0011	
H	M	L	0010	
H	M	H	0001	
H	H	M	0000	

STRAP5	STRAP4	STRAP3	SMB_ALT_ADDR	DEVID_SEL	PCIE_CFG	VGA_DEVICE
M	H	H	1	1	1	1
M	H	L	1	1	1	0
M	L	H	1	1	0	1
M	L	L	1	0	1	0
L	H	M	1	0	1	1
L	M	H	1	0	0	0
L	L	M	1	0	0	1
H	H	H	0	1	1	1
H	H	L	0	1	1	0
H	L	H	0	1	0	1
H	L	L	0	1	0	0
L	H	H	0	0	1	1
L	H	L	0	0	1	0
L	L	H	0	0	0	1 DEFAULT
L	L	L	0	0	0	0

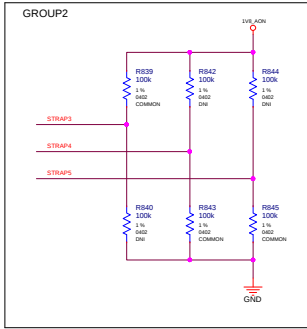
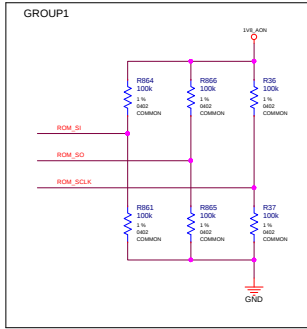
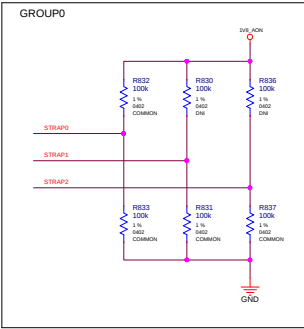
H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

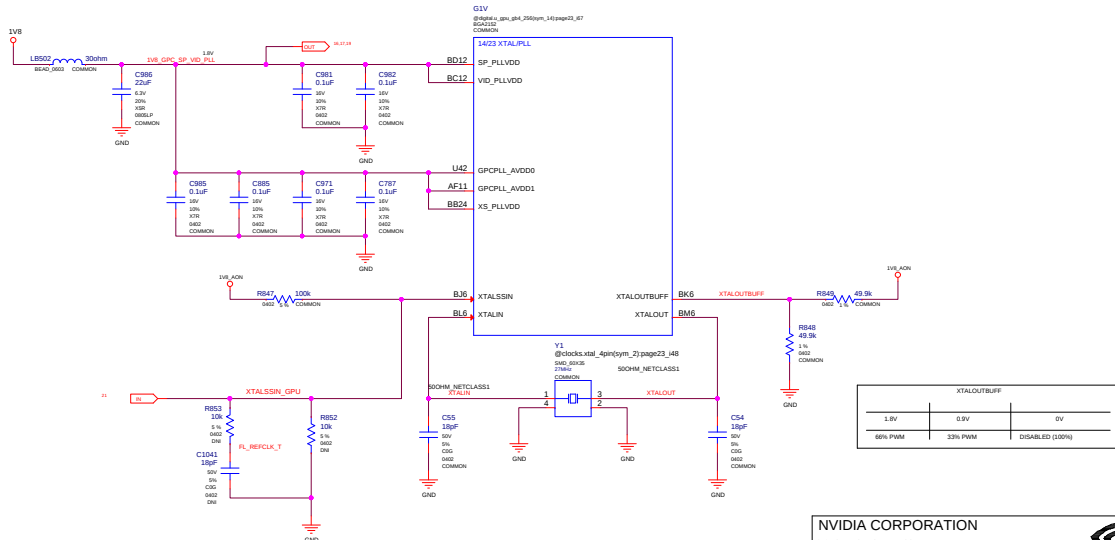
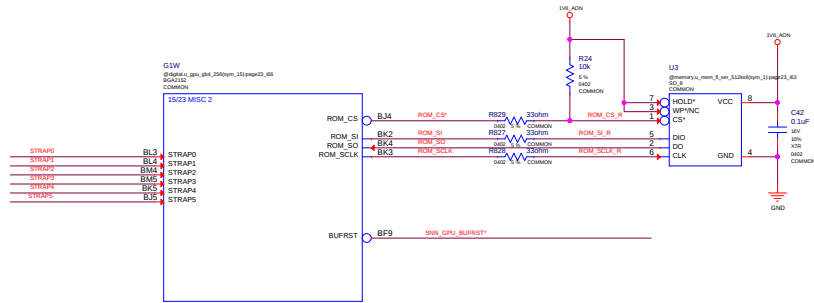
1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGINAL

1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE



CFG[3:0] Config Width	Vendor
0000	256Mx32 256-bit Samsung
0001	256Mx32 256-bit Micron
0010	256Mx32 256-bit Hynix
0011	Reserved
0100	Reserved
0101	Reserved
0110	Reserved
0111	Reserved



XTALOUTBUFF		
1.8V	0.9V	0V
66% PWM	33% PWM	DISABLED (330%)

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ASSEMBLY	<ASSEMBLY DESCRIPTION>
PAGE DETAIL	MISC2: ROM, XTAL, Straps

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GPIO8 LEVEL	FBVDD OUTPUT VOLTAGE
0	1.35V
1	1.55V

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	PS: FBVDD

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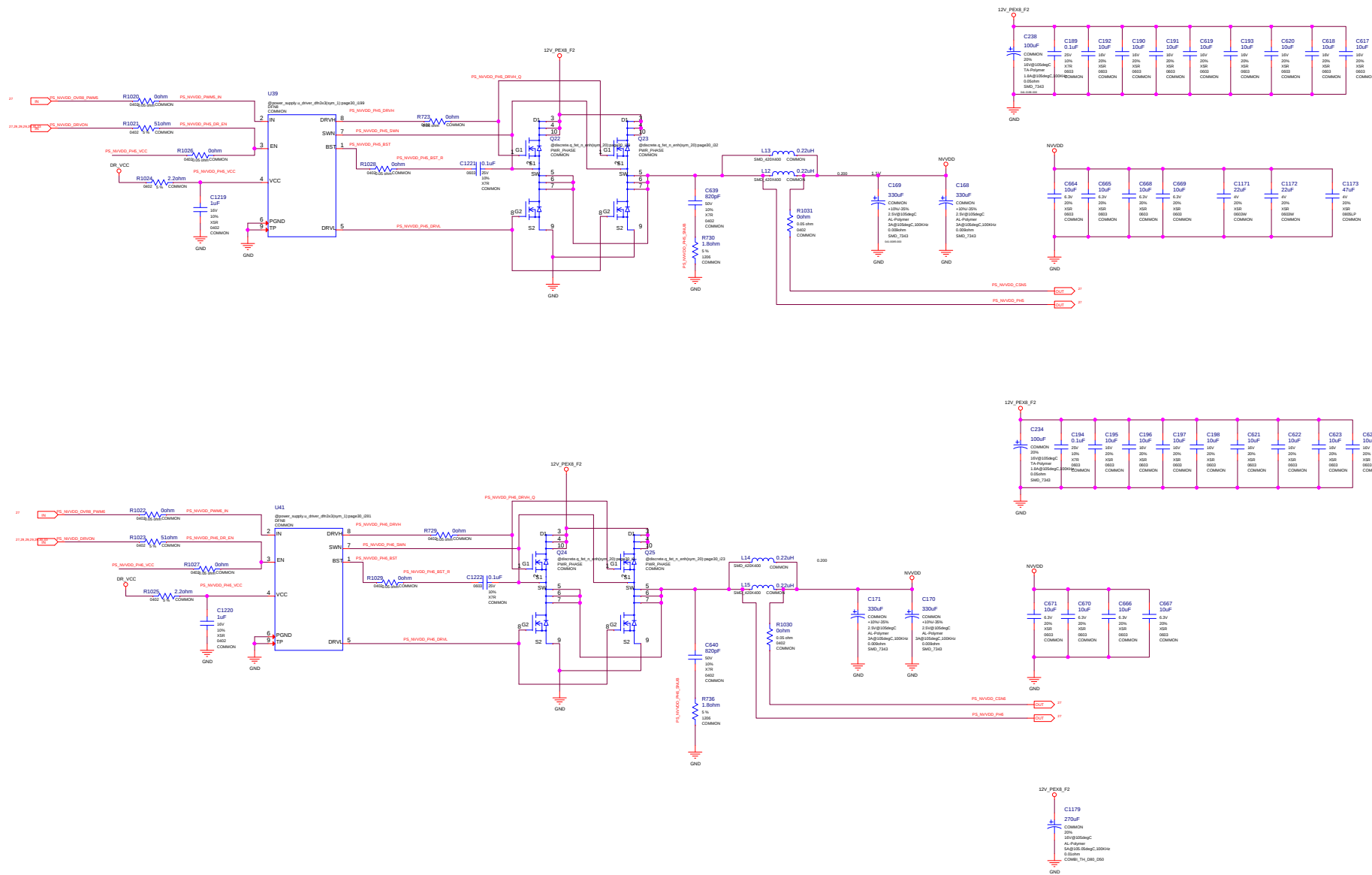


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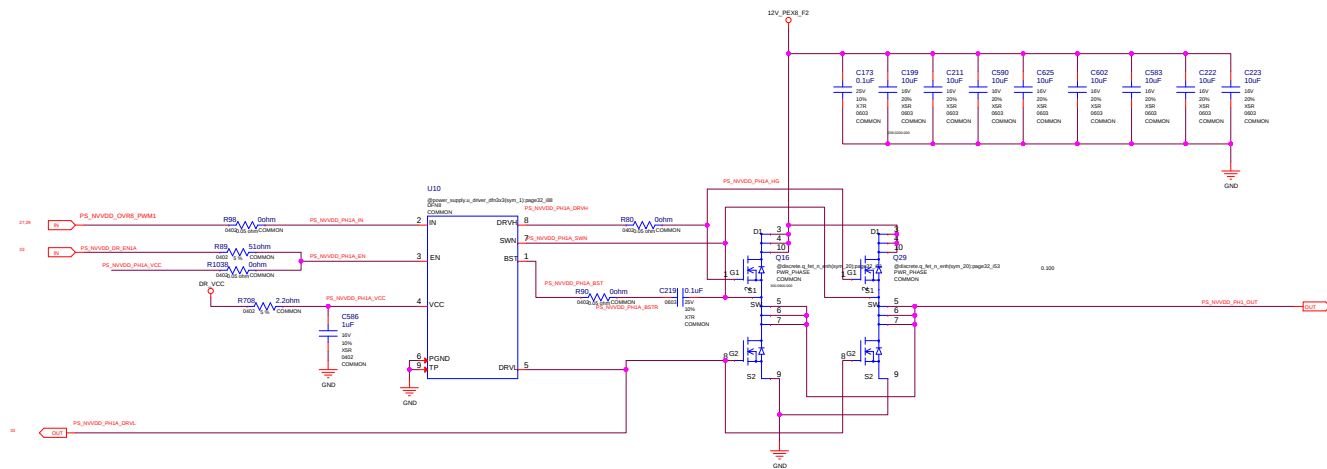
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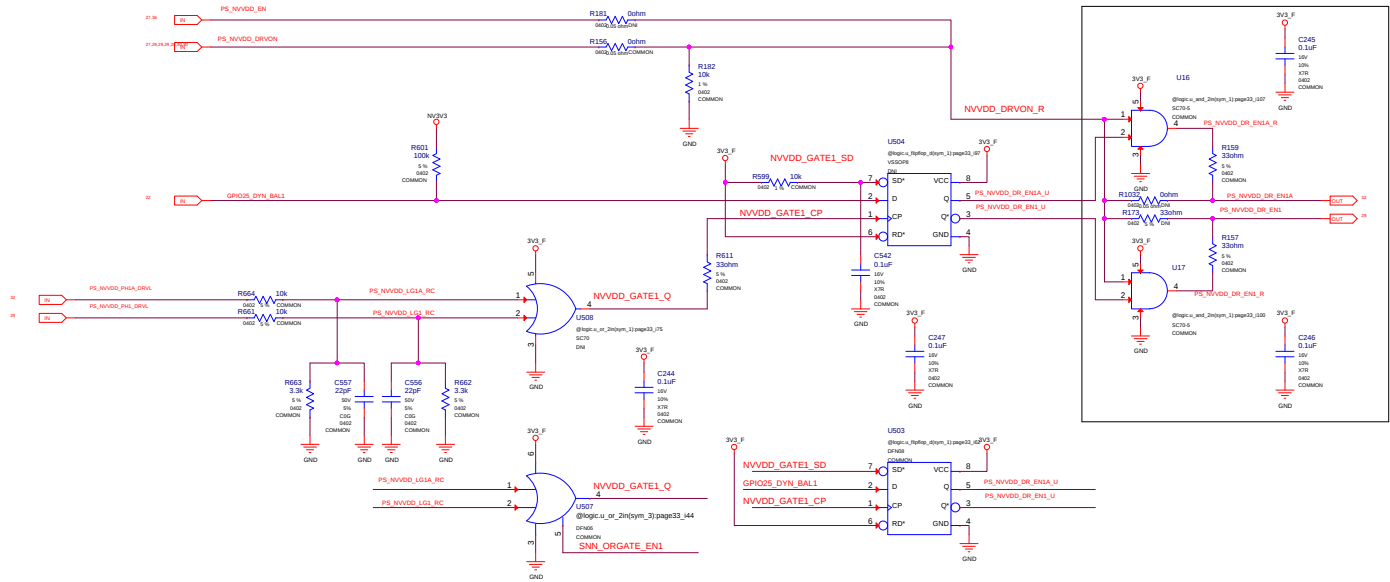
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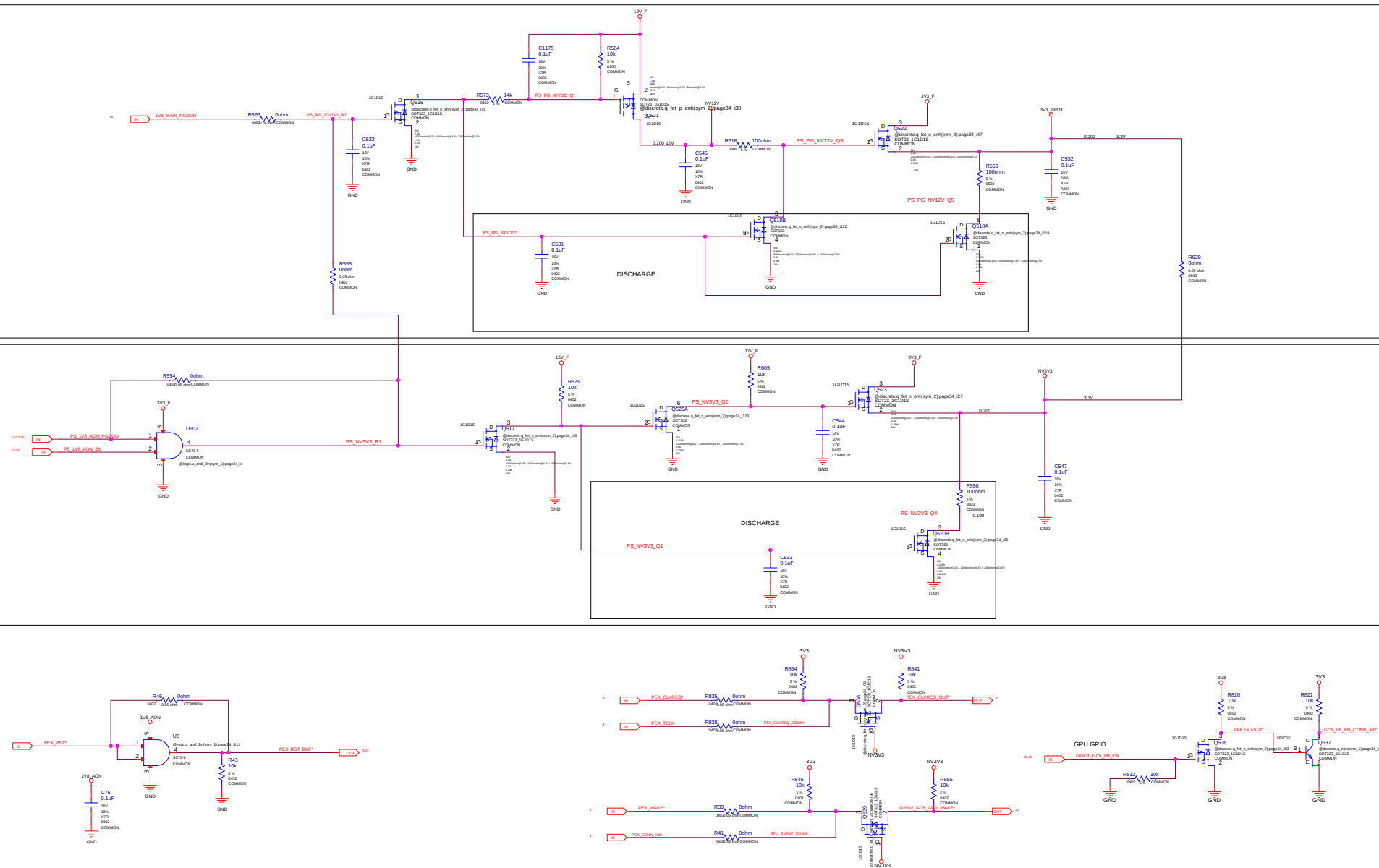


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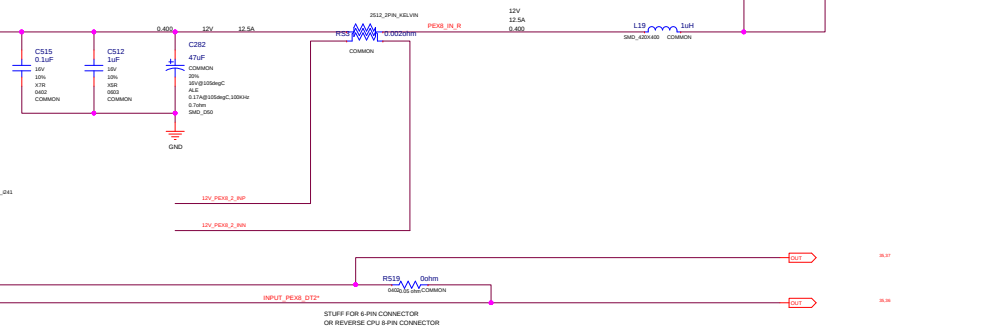
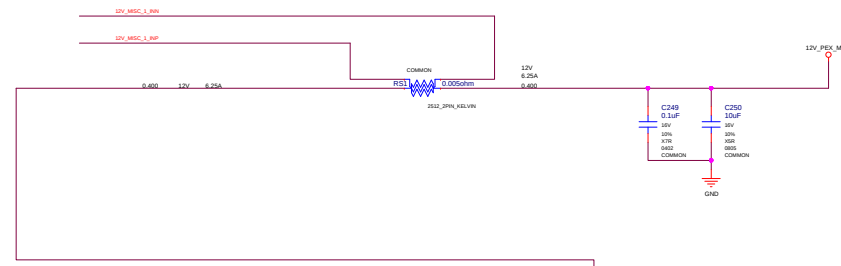
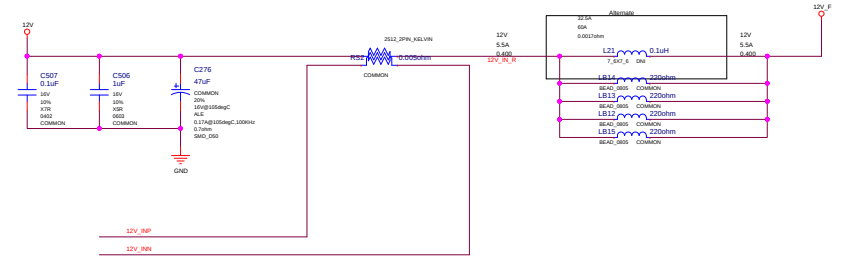
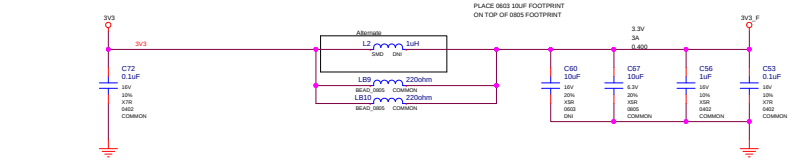
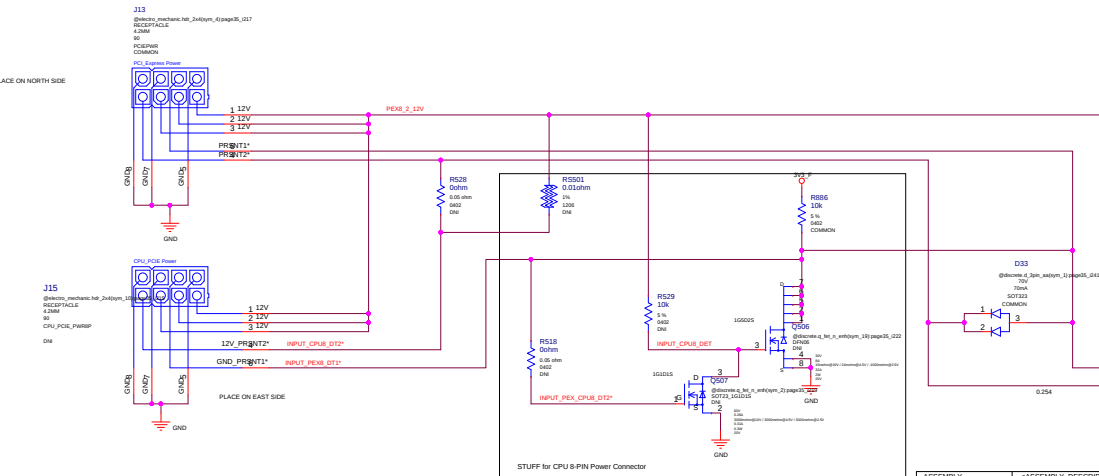
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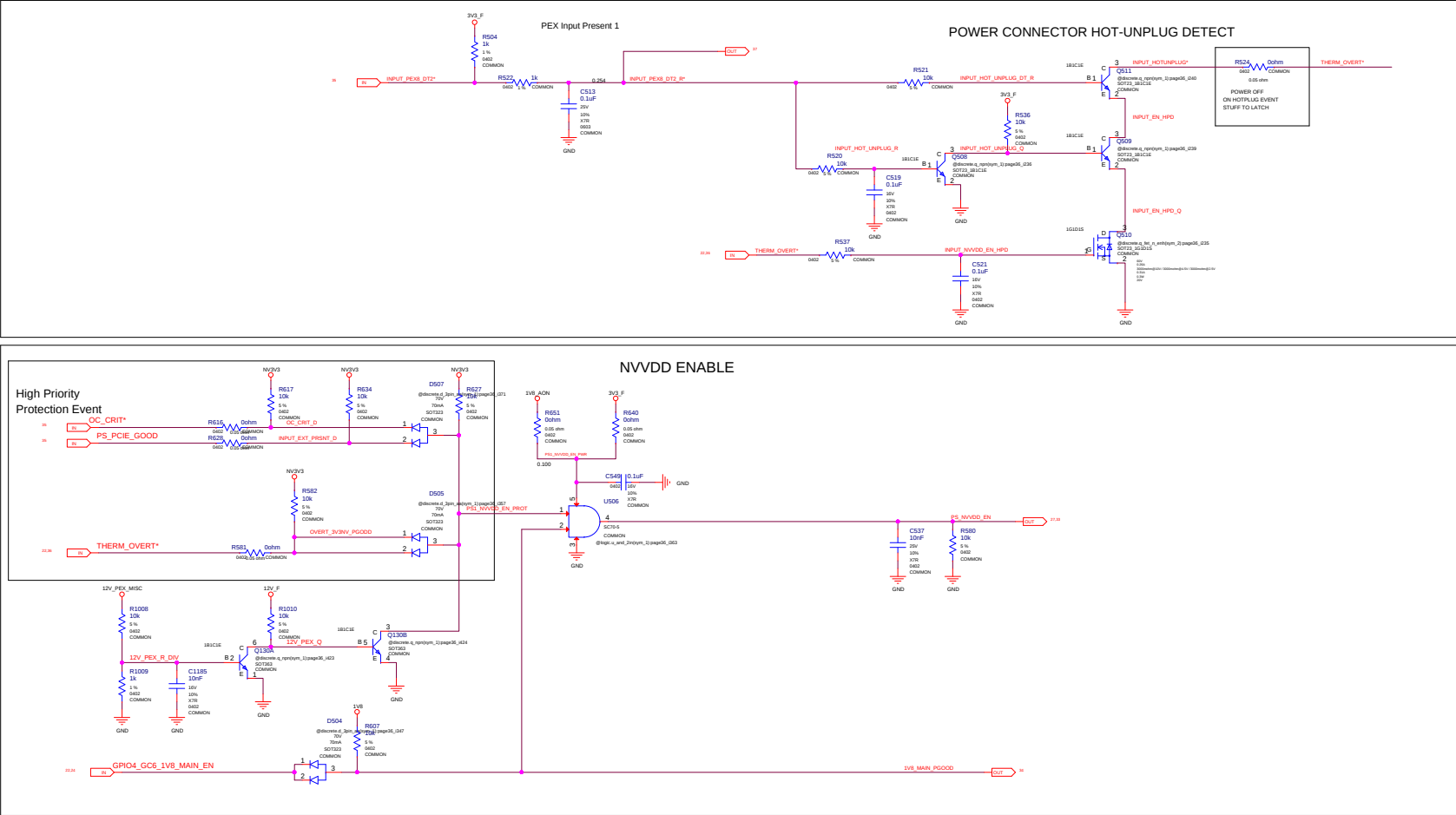


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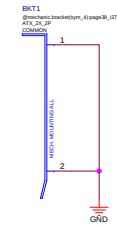


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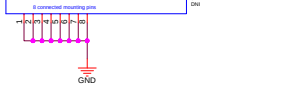


BGA SOCKET ASSY



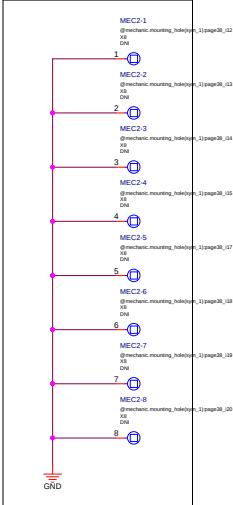
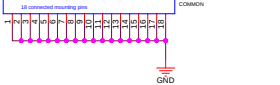
GPU Stiffner

BOARD STIFFENER



Mechanical Holes Symbol

BACK PLATE



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