

PG165-A00

TU116 6GB GDDR5, 192b, X32
DVI-D + DP + HDMI

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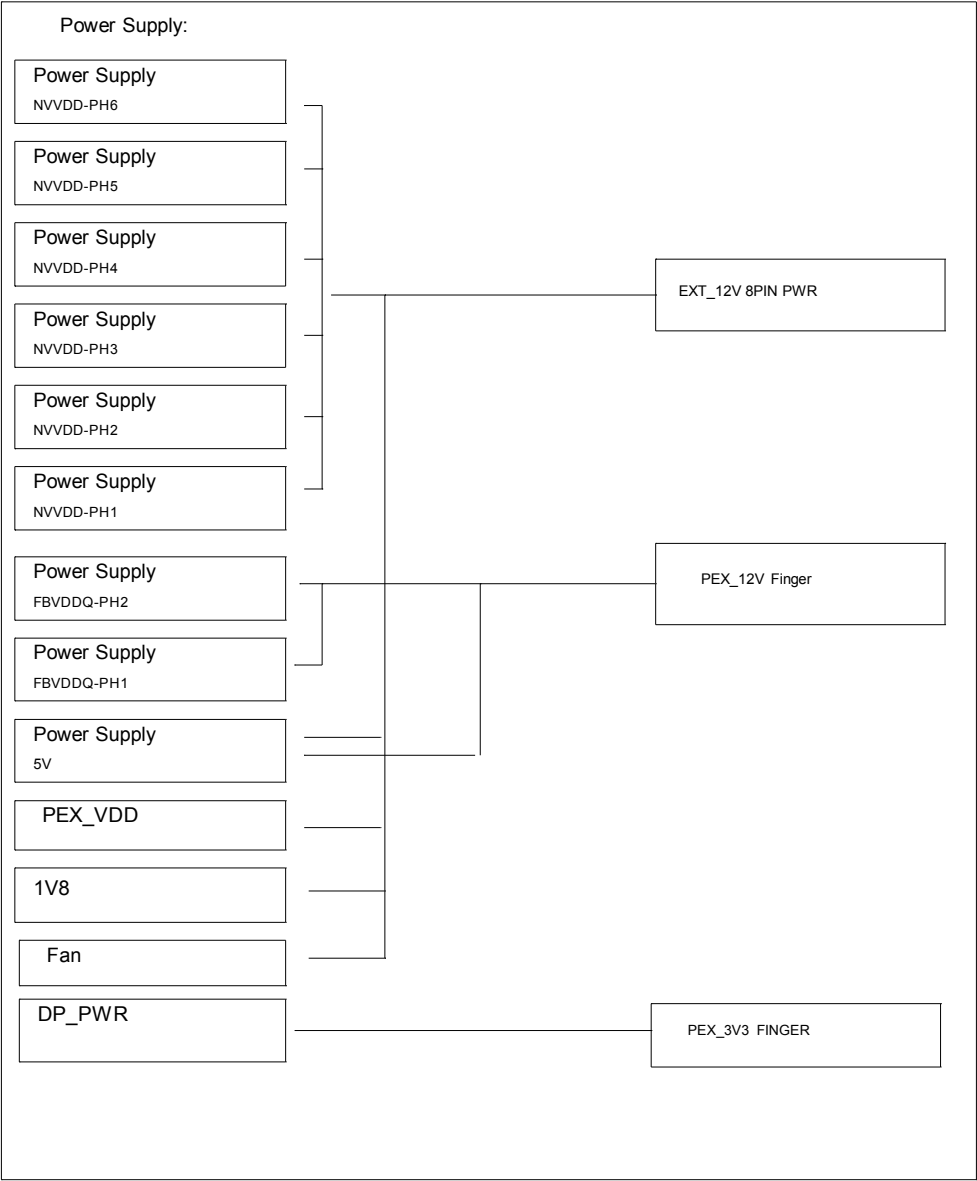
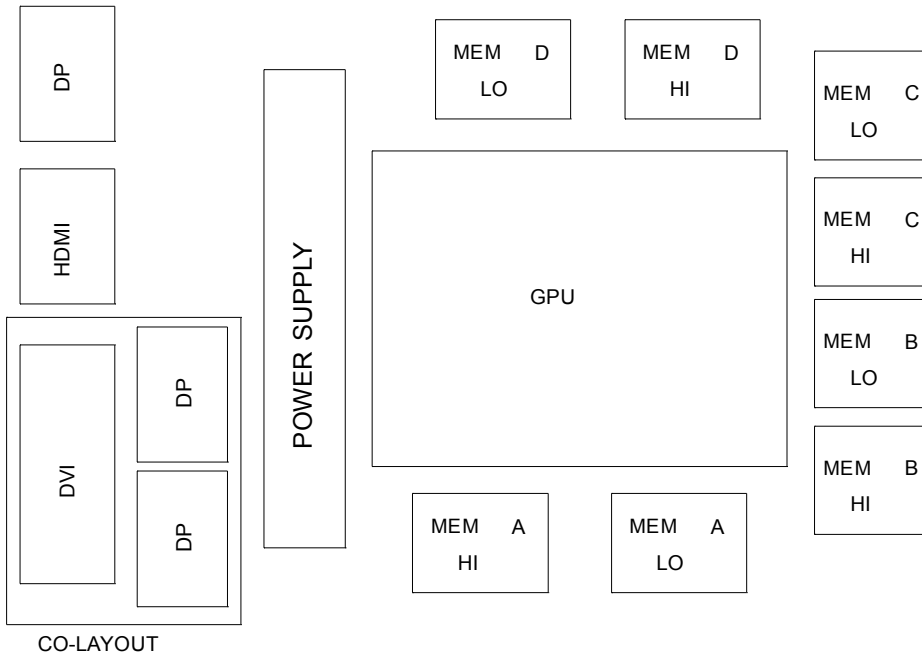
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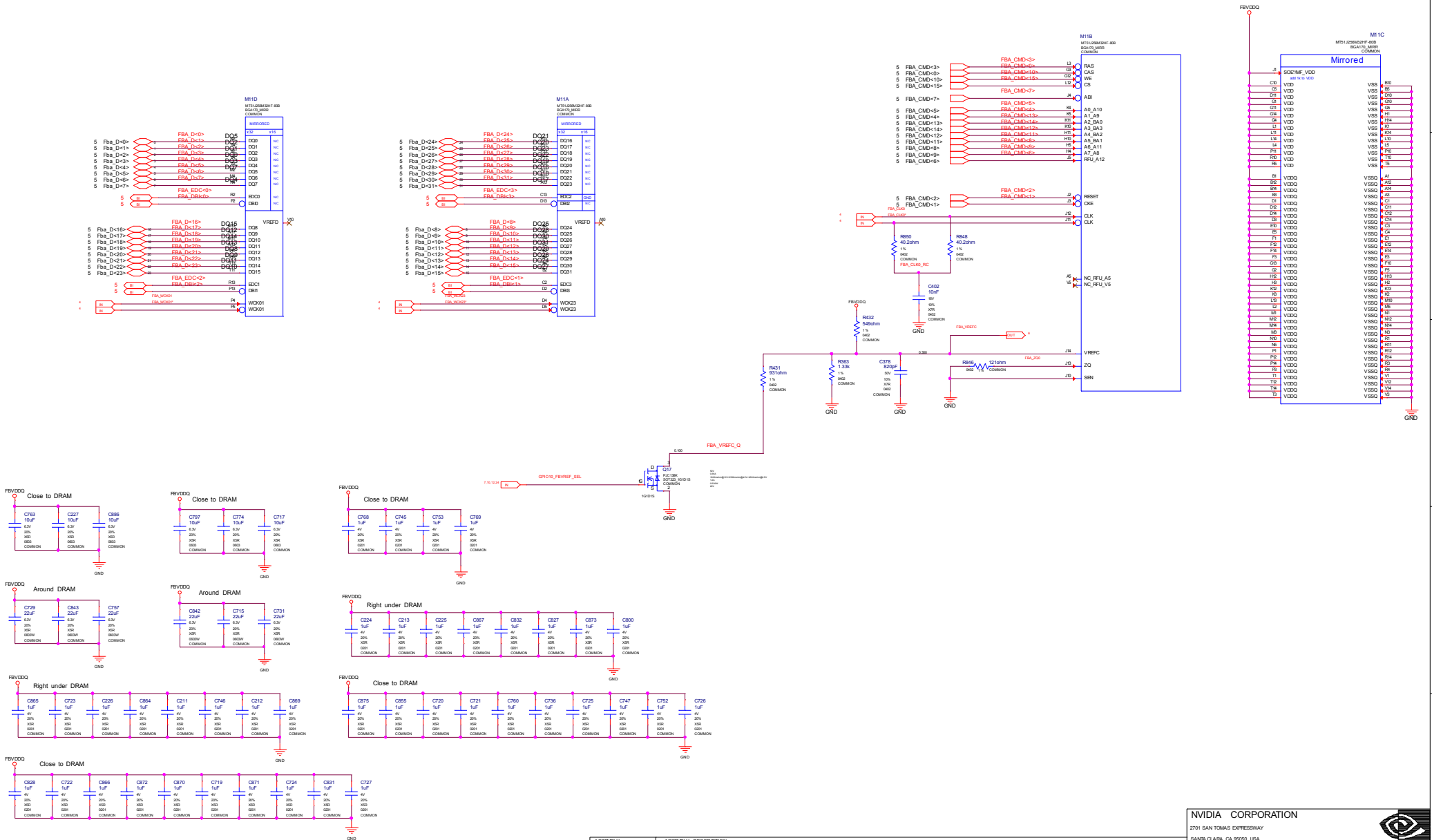


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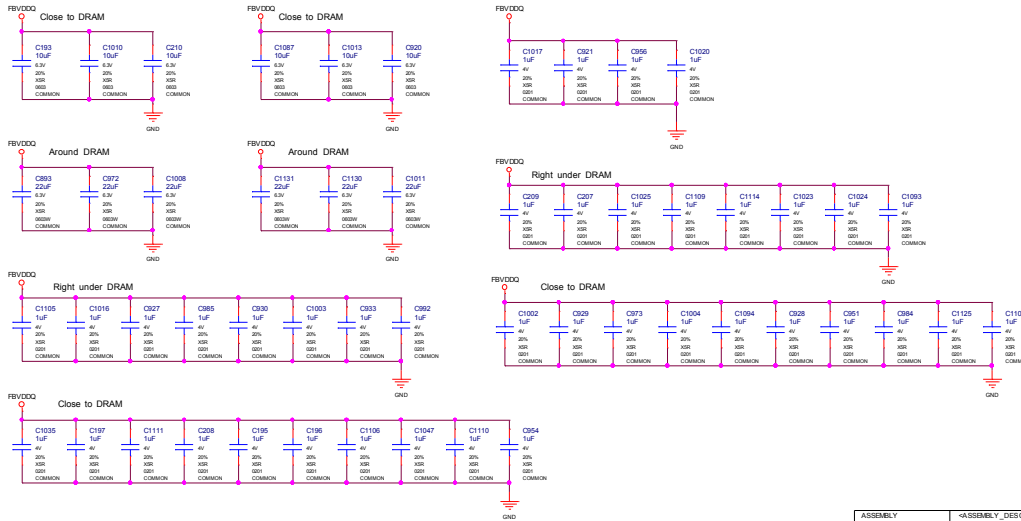
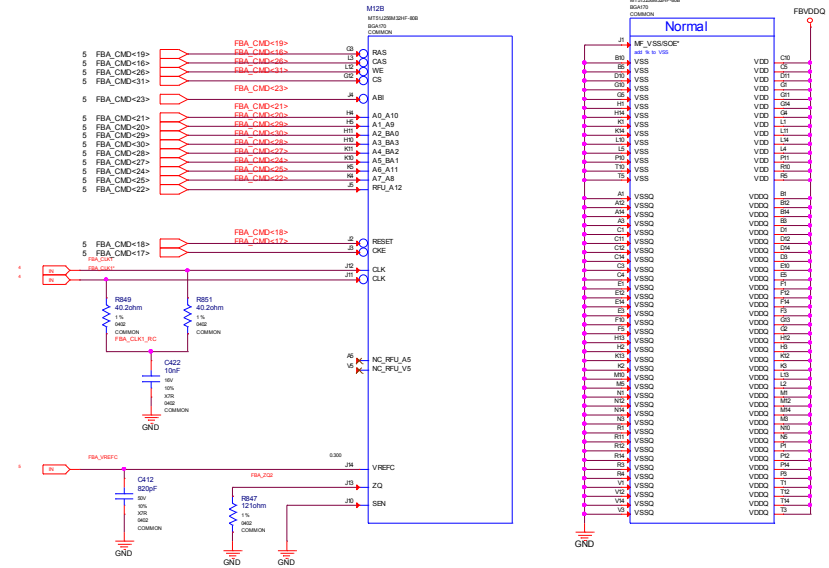
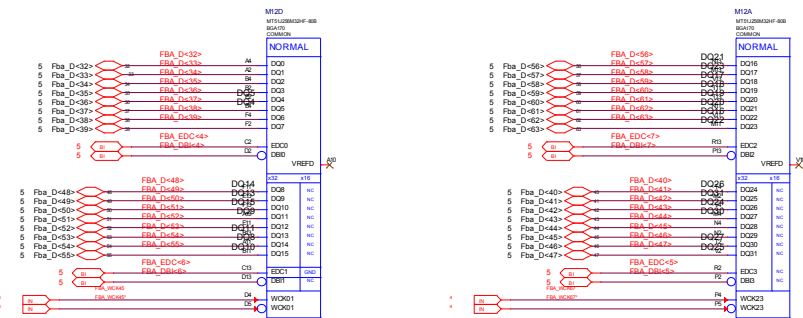


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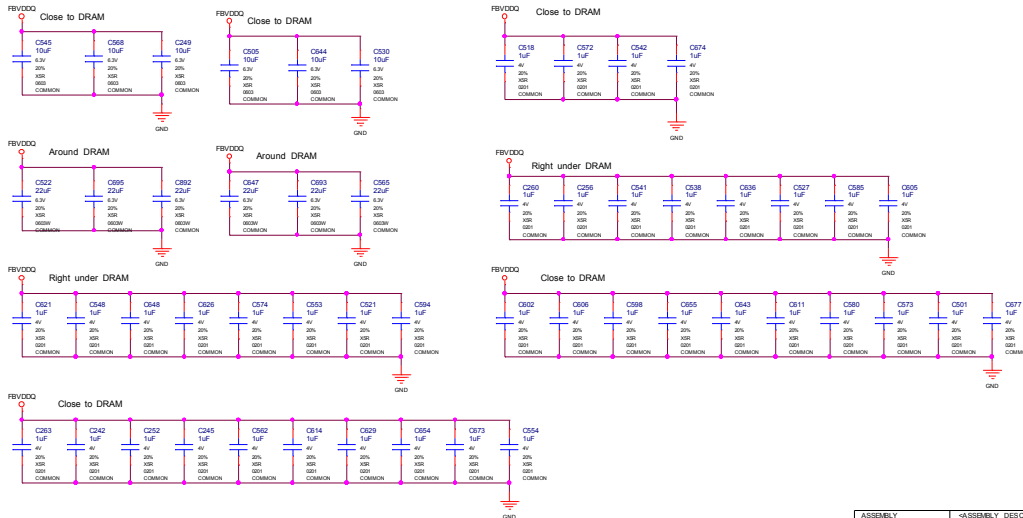
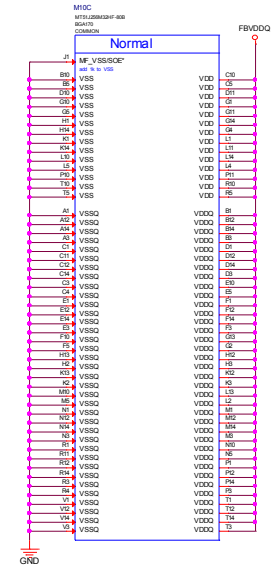
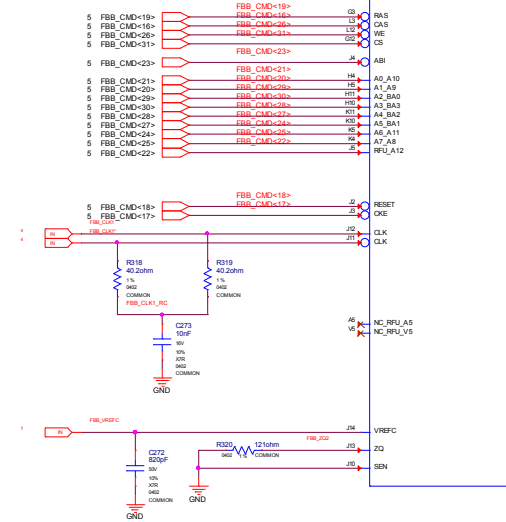
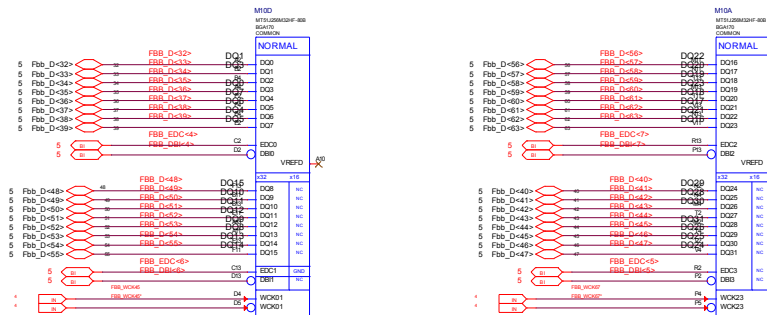




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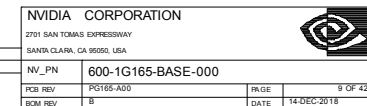
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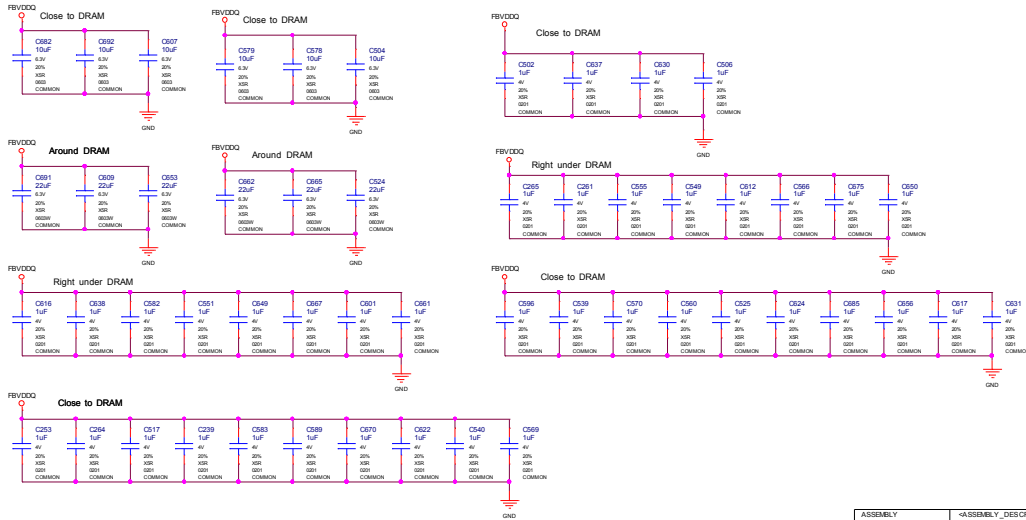
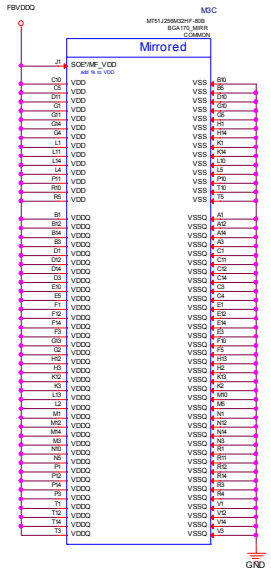


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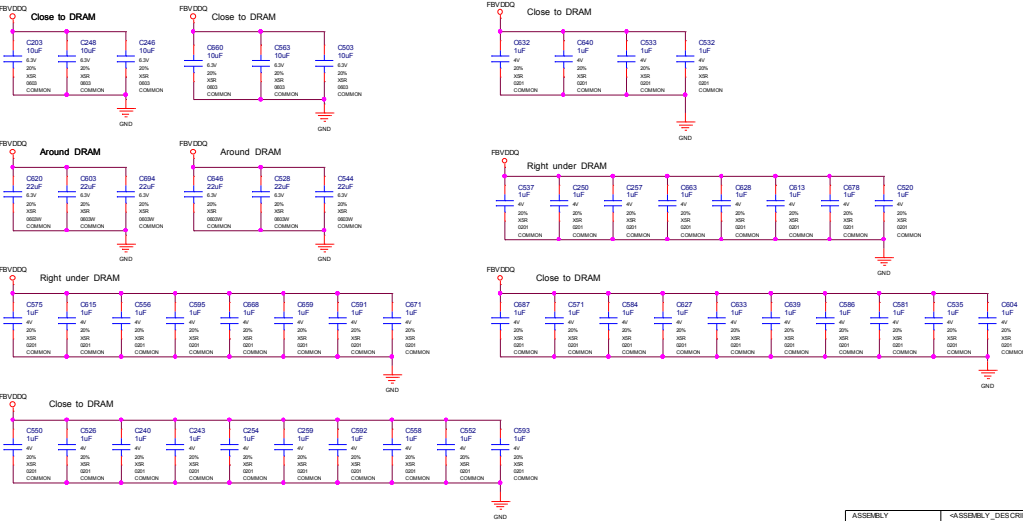




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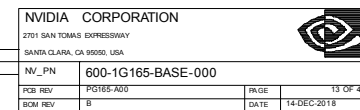
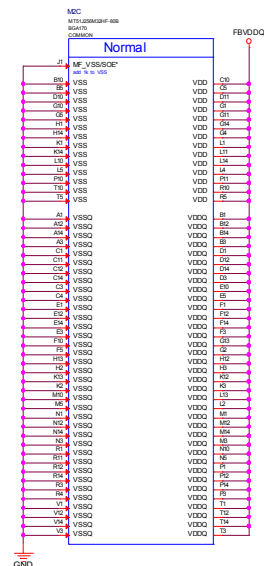
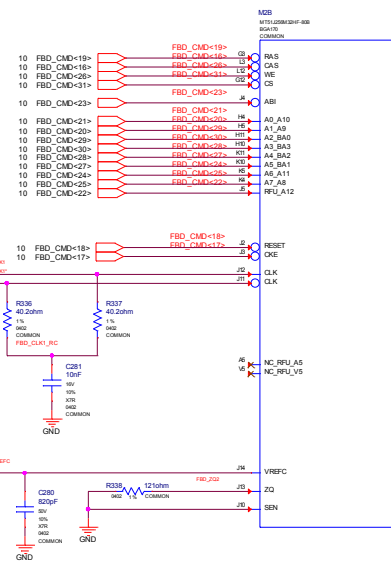




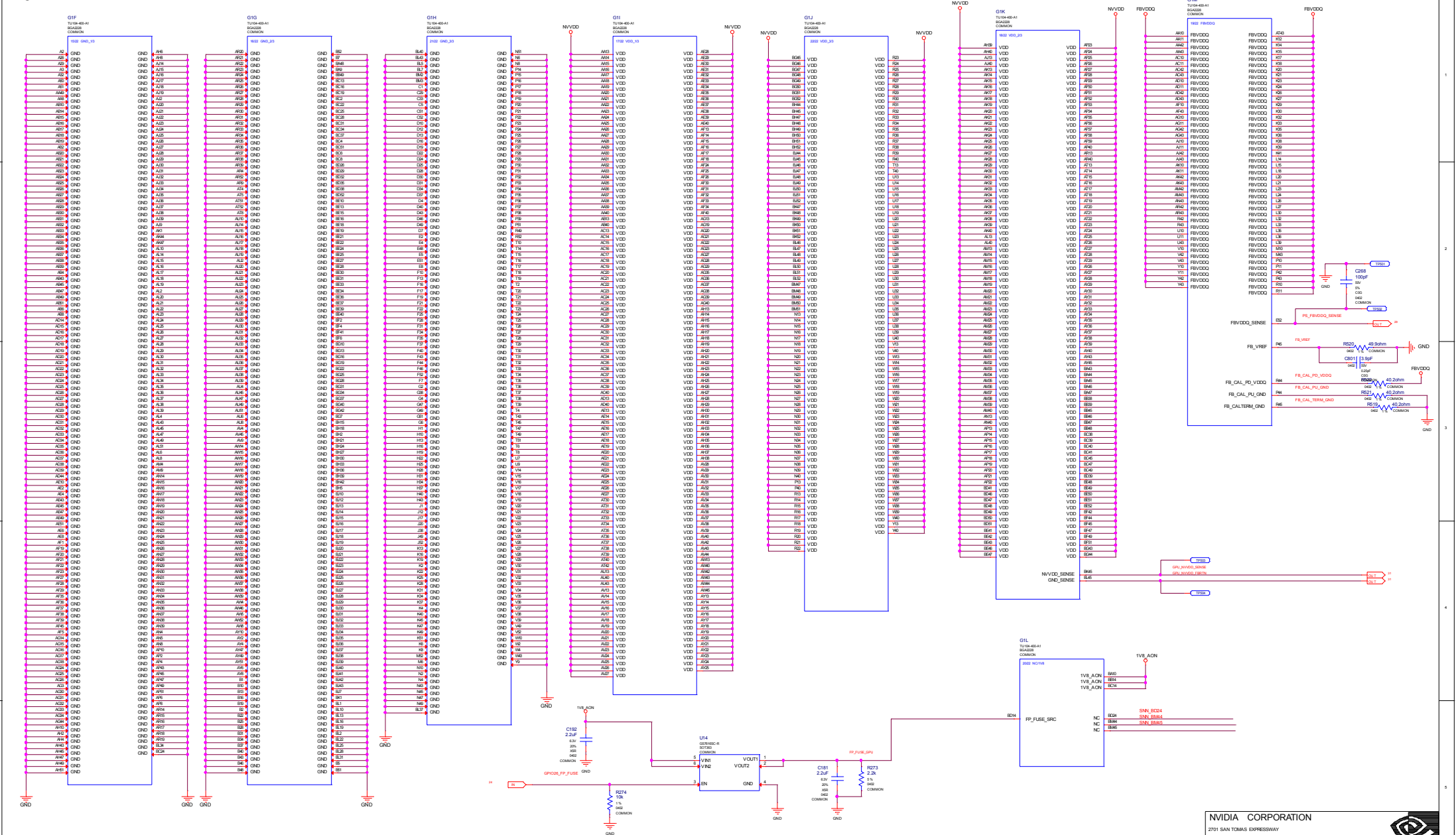
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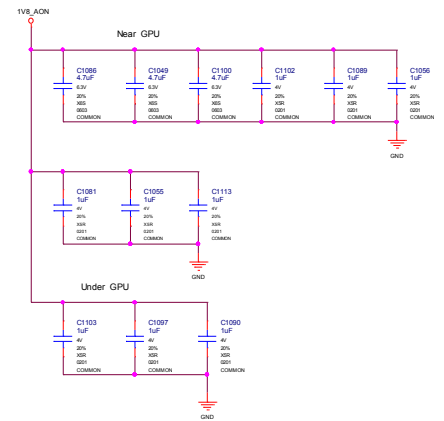
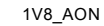
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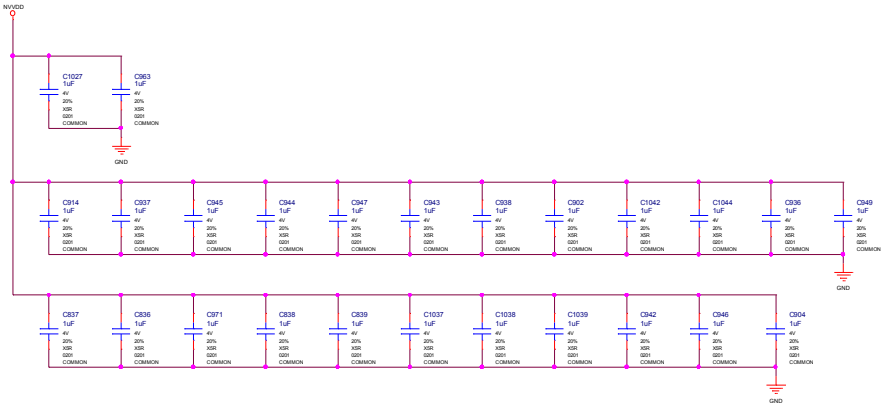
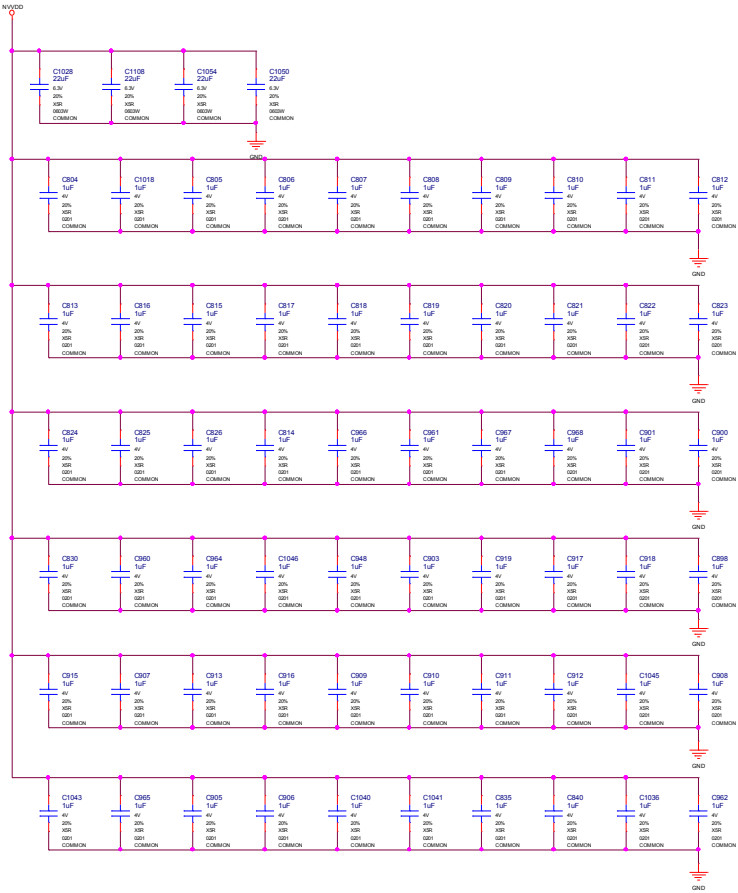


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NVDD

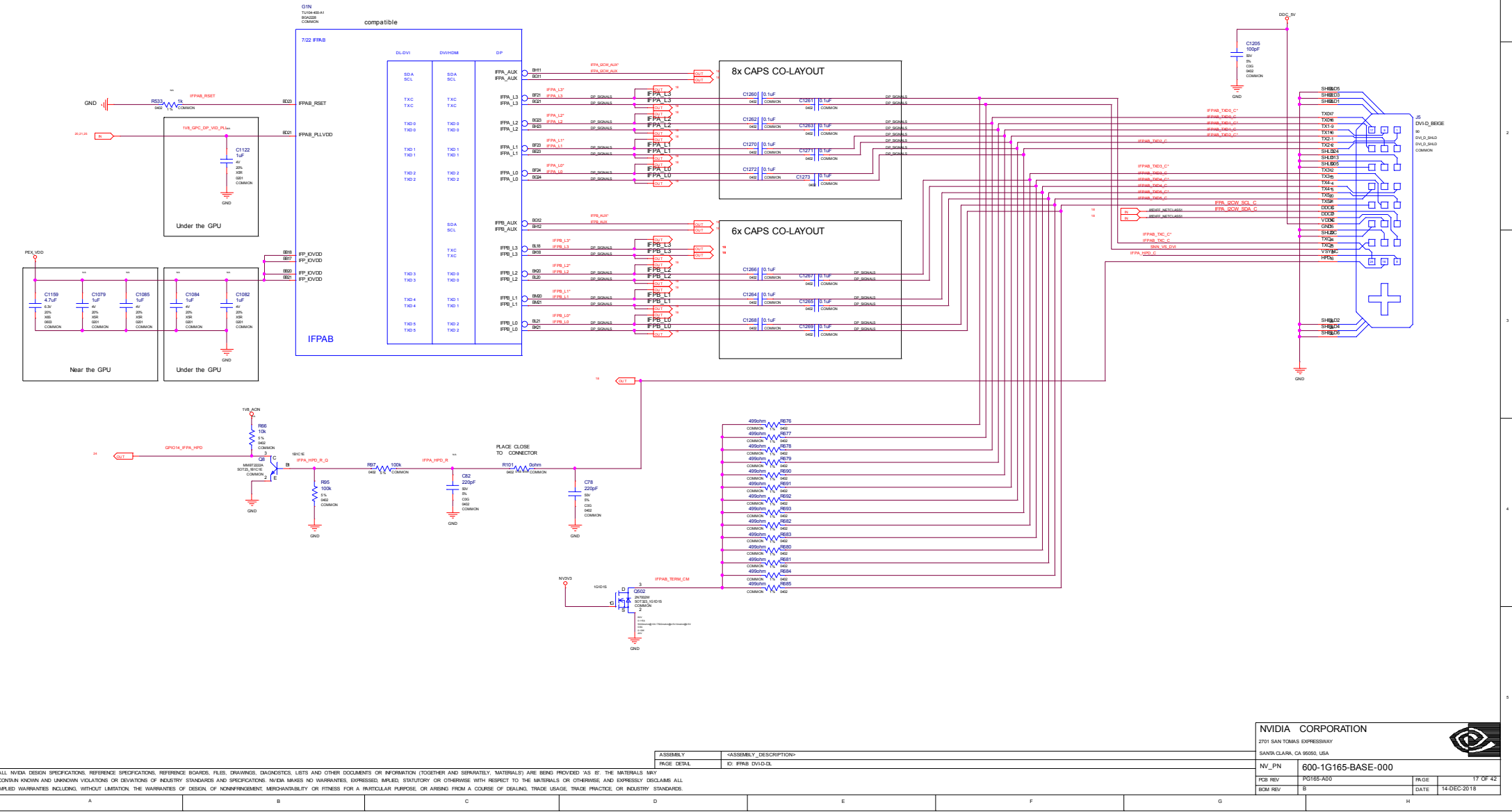


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ASSEMBLY	*ASSEMBLY DESCRIPTION*
PCB DETAIL	GPU DECOUPLING 2

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BCM REV	B	DATE	14-DEC-2018



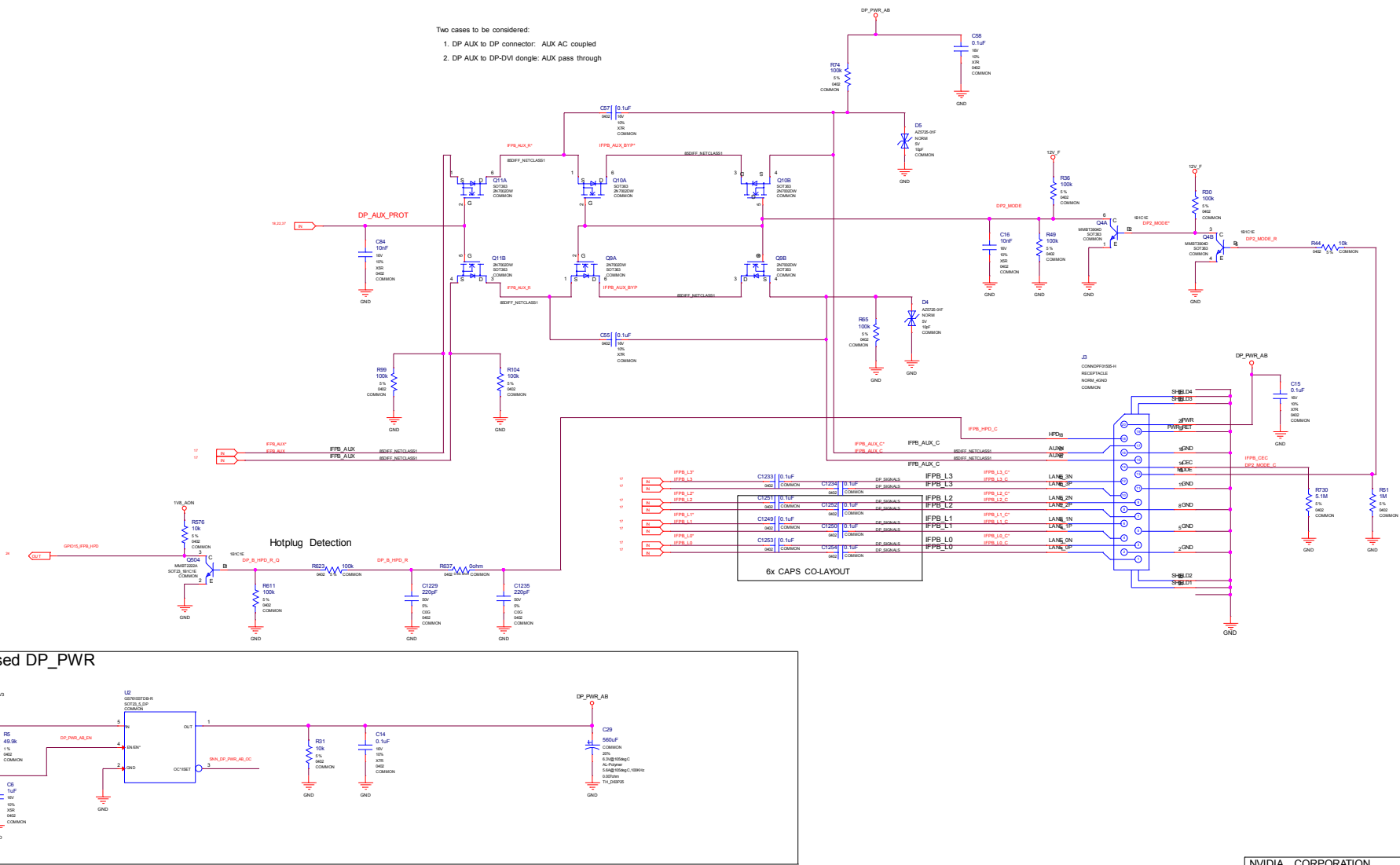


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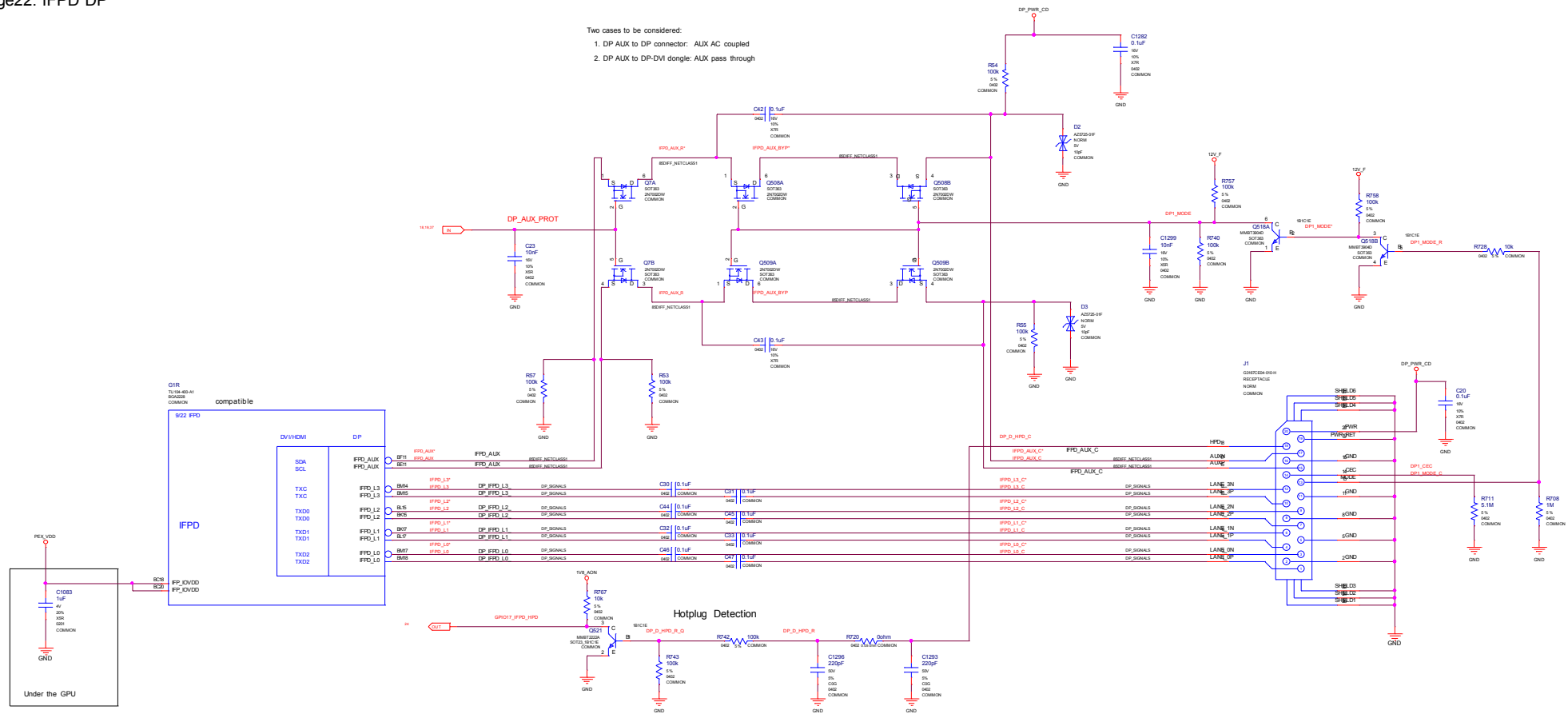
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ASSEMBLY	ASSEMBLY DESCRIPTION
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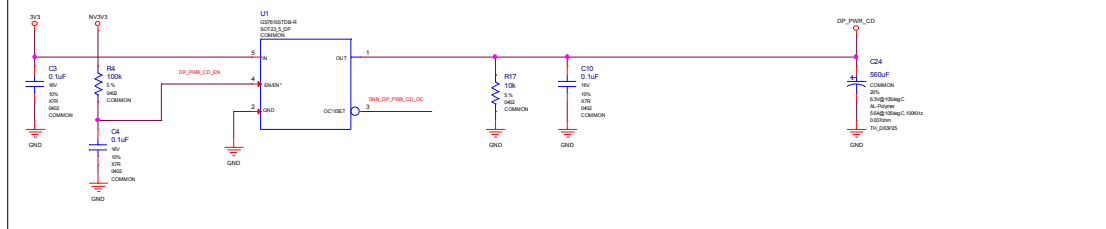
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ICOM REV	B
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- Two cases to be considered:
1. DP AUX to DP connector: AUX AC coupled
 2. DP AUX to DP-DVI dongle: AUX pass through



Fused DP_PWR



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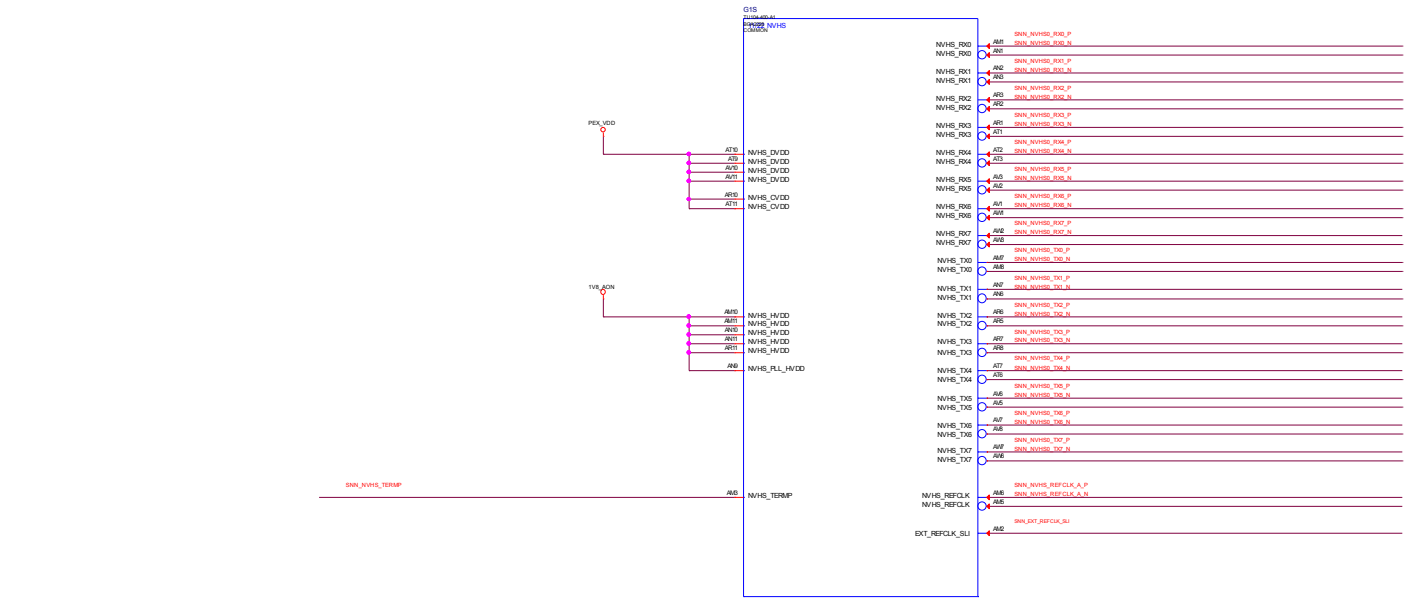
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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	ID: NVHS INTERFACE AND FRAME LOCK

STRAP2	STRAP1	STRAP0	RAMCFG[4:0]
L	L	L	00000
L	L	H	00001
L	H	L	00010
L	H	H	00011
H	H	L	00110
H	H	H	00111
L	L	M	01000

STRAP2	STRAP1	STRAP0	RAMCFG[4:0]	
L	L	L	0000	Samsung 8Gb 256Mx32 K4G80325FC-HC25
L	L	H	0001	Micron 8Gb 256Mx32 MT51J256M32HF-80:B
L	H	L	0010	Hynix 8Gb 256Mx32 H5GC8H24AJR-R2C
L	H	H	0011	Hynix 8Gb 256Mx32 H5GQ8H24MJR-R4C
H	H	L	0110	
H	H	H	0111	
L	L	M	1000	
L	M	L	1001	

ROM_SO	ROM_SI	ROM_SCLK	DUMMY[2:0]_FS_OVERT	1:ENABLE 0:DISABLE	DEFAULT
L	L	L	XXX1	FS_OVERT ENABLE	
L	L	M	XXX0	FS_OVERT DISABLE	

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	1	0	0
L	H	M	1	0	1	1
L	M	H	1	0	1	0
L	M	L	1	0	0	1
L	L	M	1	0	0	0
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

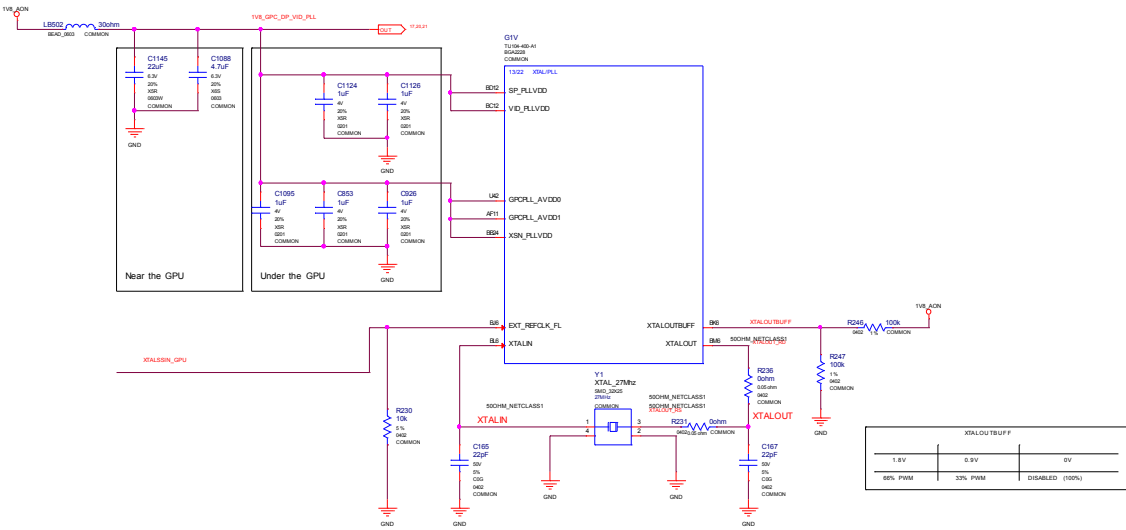
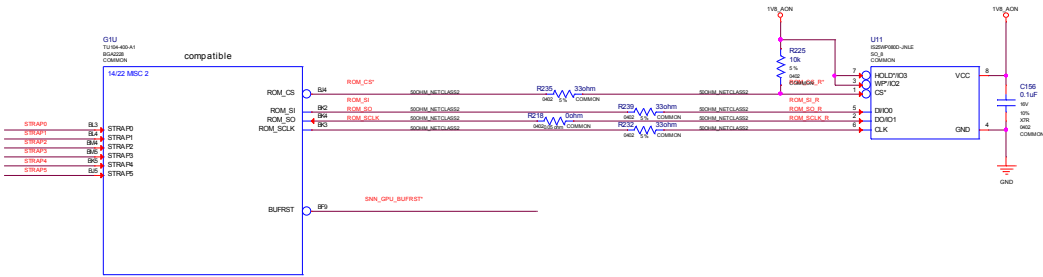
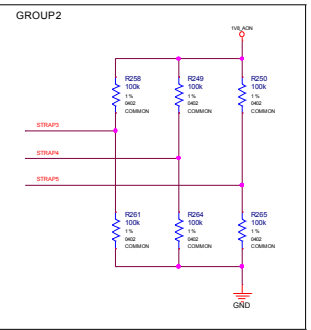
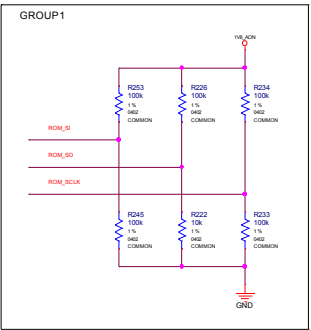
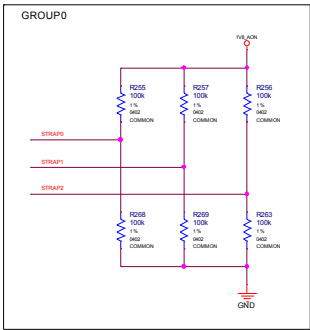
H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

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



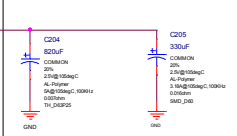
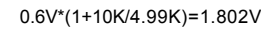
XTALOUTBUFF		
1.8V	0.9V	0V
80% PWM	30% PWM	DISABLED (100%)

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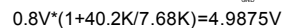
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FIGURE DETAIL	PS-1VR-ACN	INV. PN	600-1G165-BASE-000
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STANDARD		DATE	14-DEC-2018
		PRG	26 OF 42

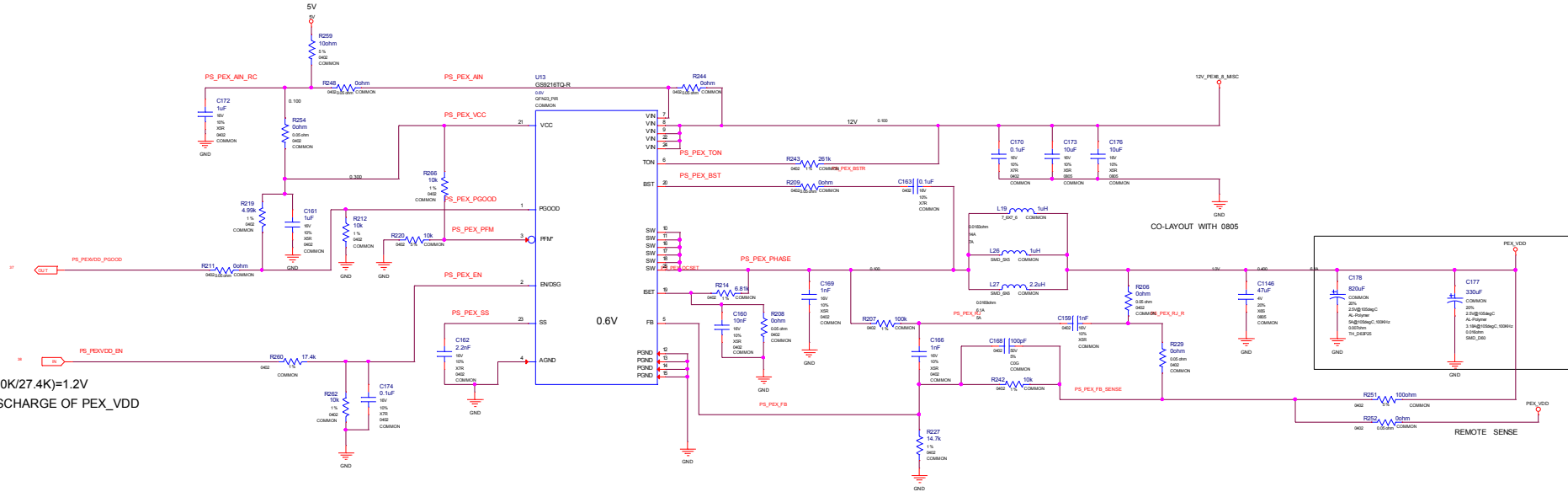




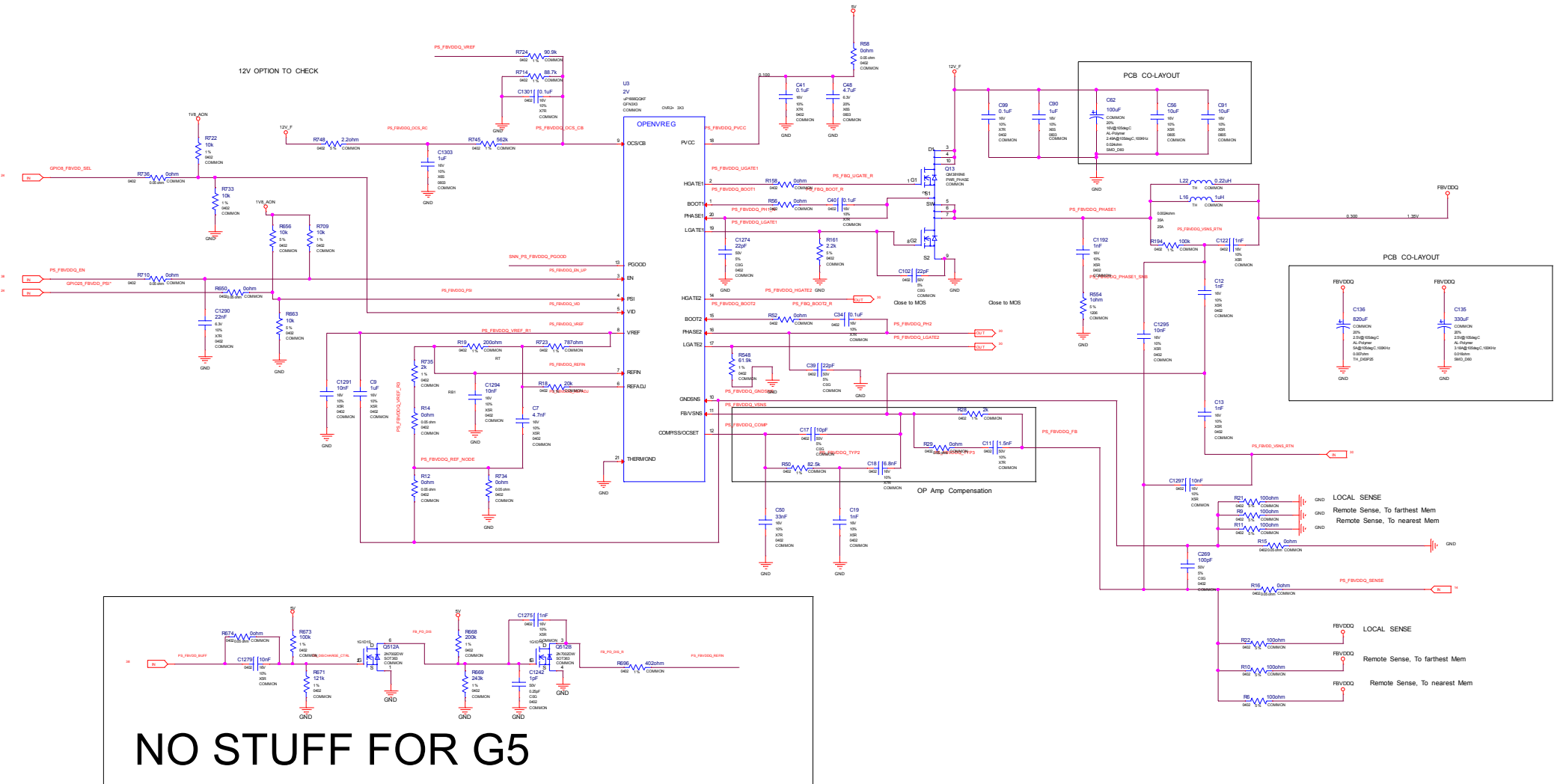
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NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA				
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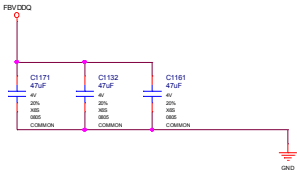
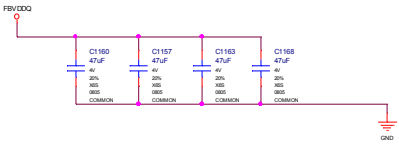
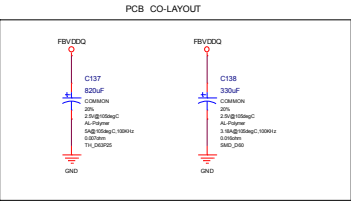
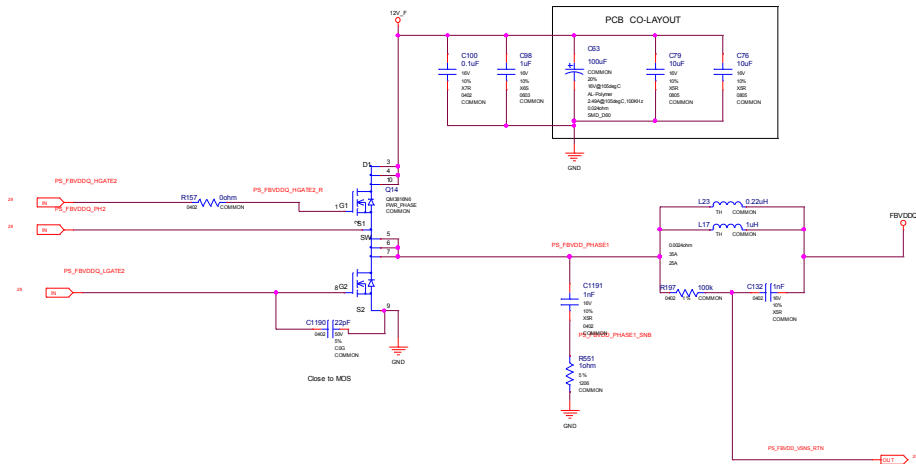


$$0.6V \cdot (1 + 10K/14.7K) = 1.008V$$


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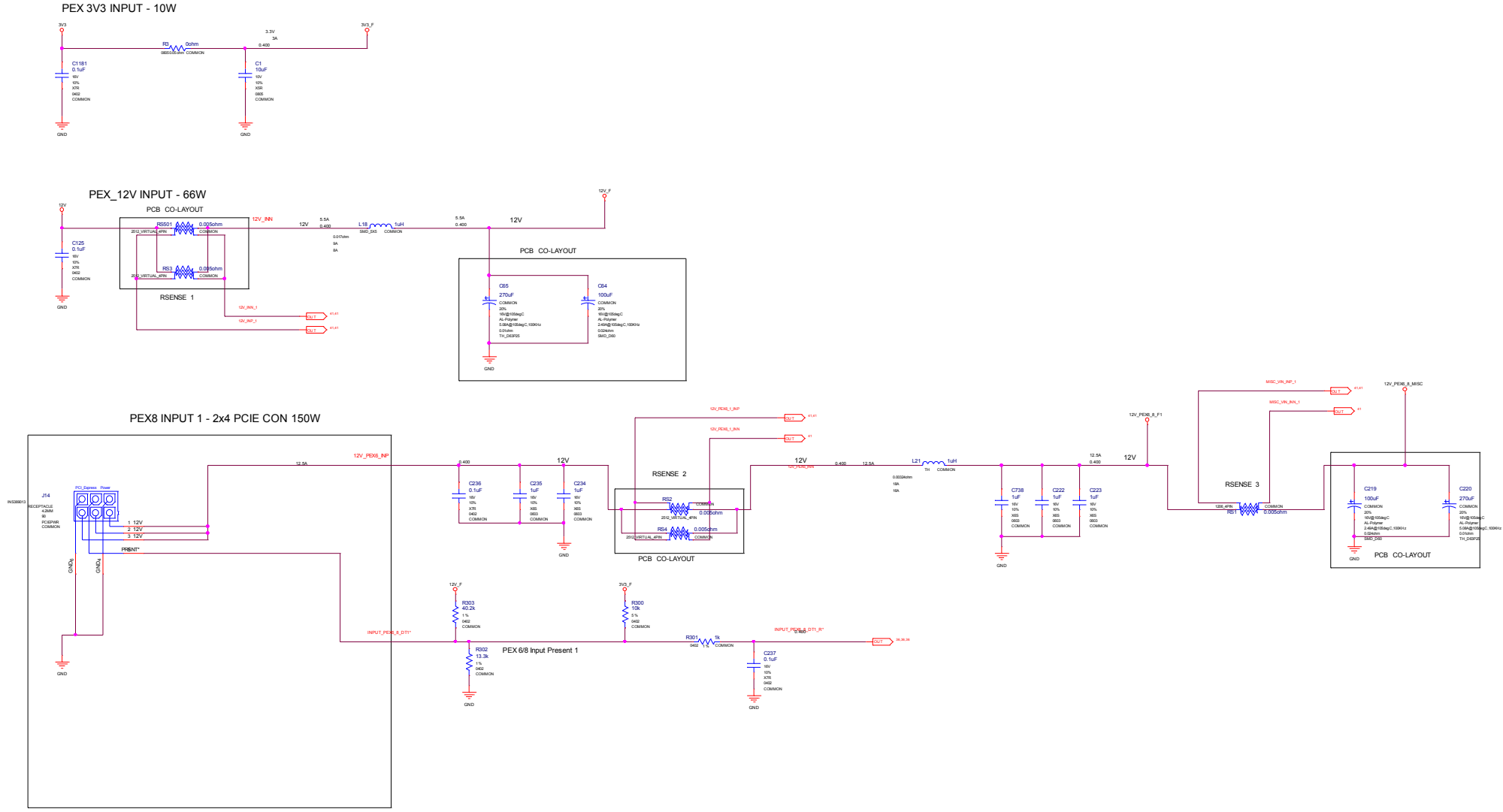


NO STUFF FOR G5



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BOM REV	8	DATE	14-DEC-2018



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NV_PN	600-1G165-BASE-000
PCB REV	PG165-ADD
BCM REV	B
PRGE	35 OF 42
DATE	14-DEC-2018



NV_PN	600-1G165-BASE-000
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NV_PN	600-1G165-BASE-000
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PCB REV	PG165-A00
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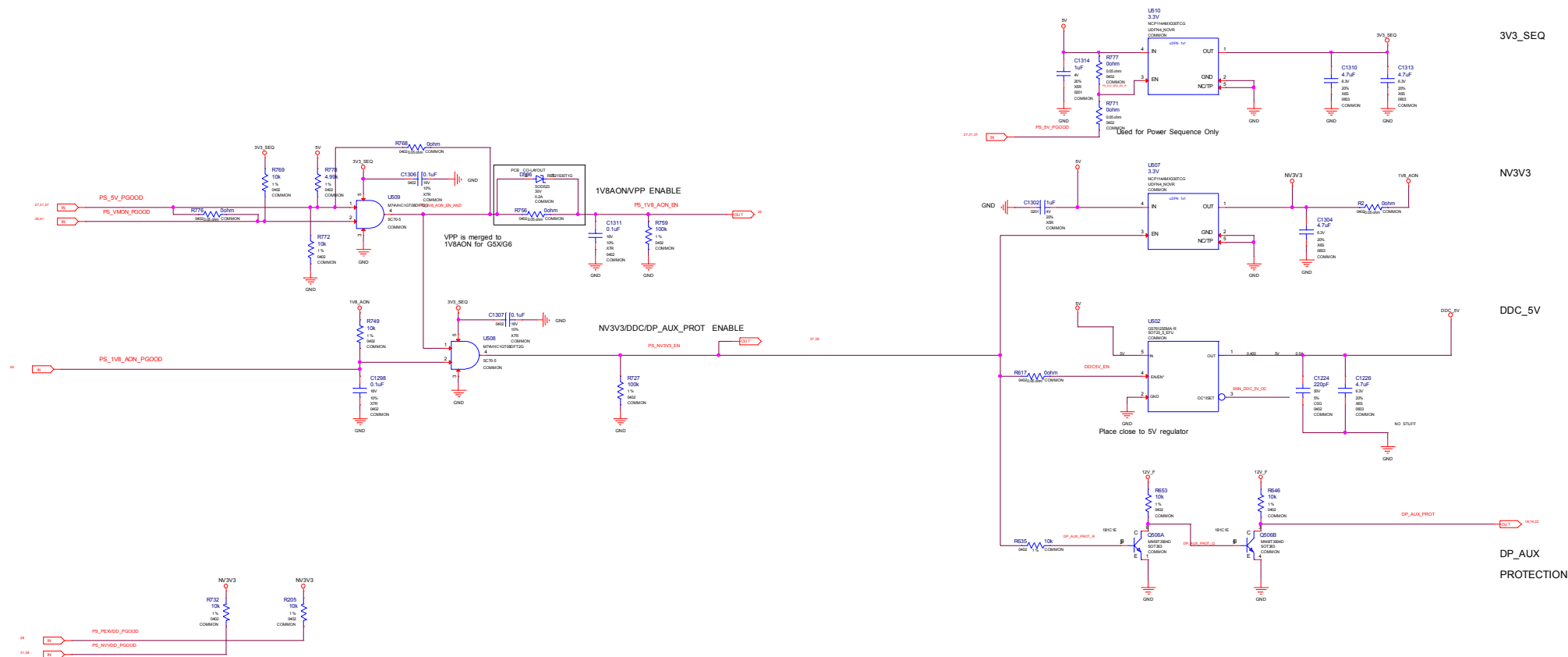
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DATE	14-DEC-2018
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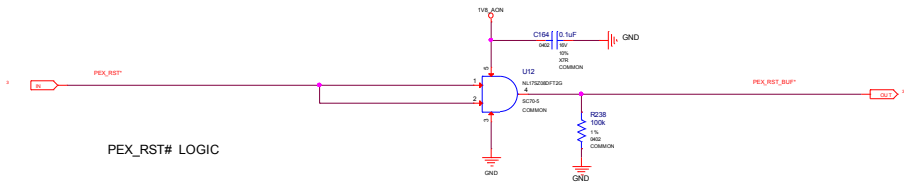
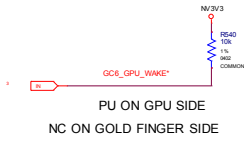
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PCB REV	PG165-A00
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PRGE	37 OF 42
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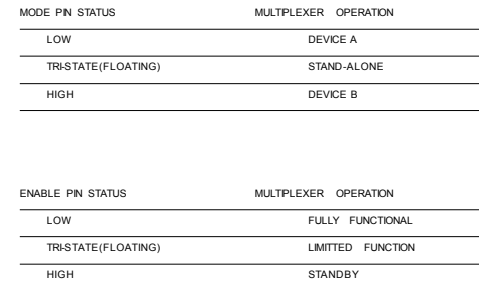


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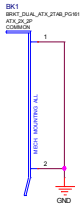
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ROM REV	B	DATE	14-DEC-2018

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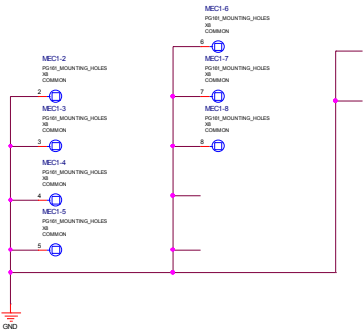


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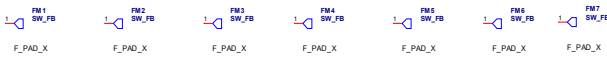
Bracket:



MOUNTING HOLES FOR HS:



BACK STIFFENER:



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PCB DETAIL		MECH		NV_PN 600-1G165-BASE-000			
LAMS: ALL STANDARDS.				PCB REV PG165-A00		PCB REV B	42 OF 42
				ROM REV		DATE 14-DEC-2018	