

PG180-A02

256b GDDR6 x16

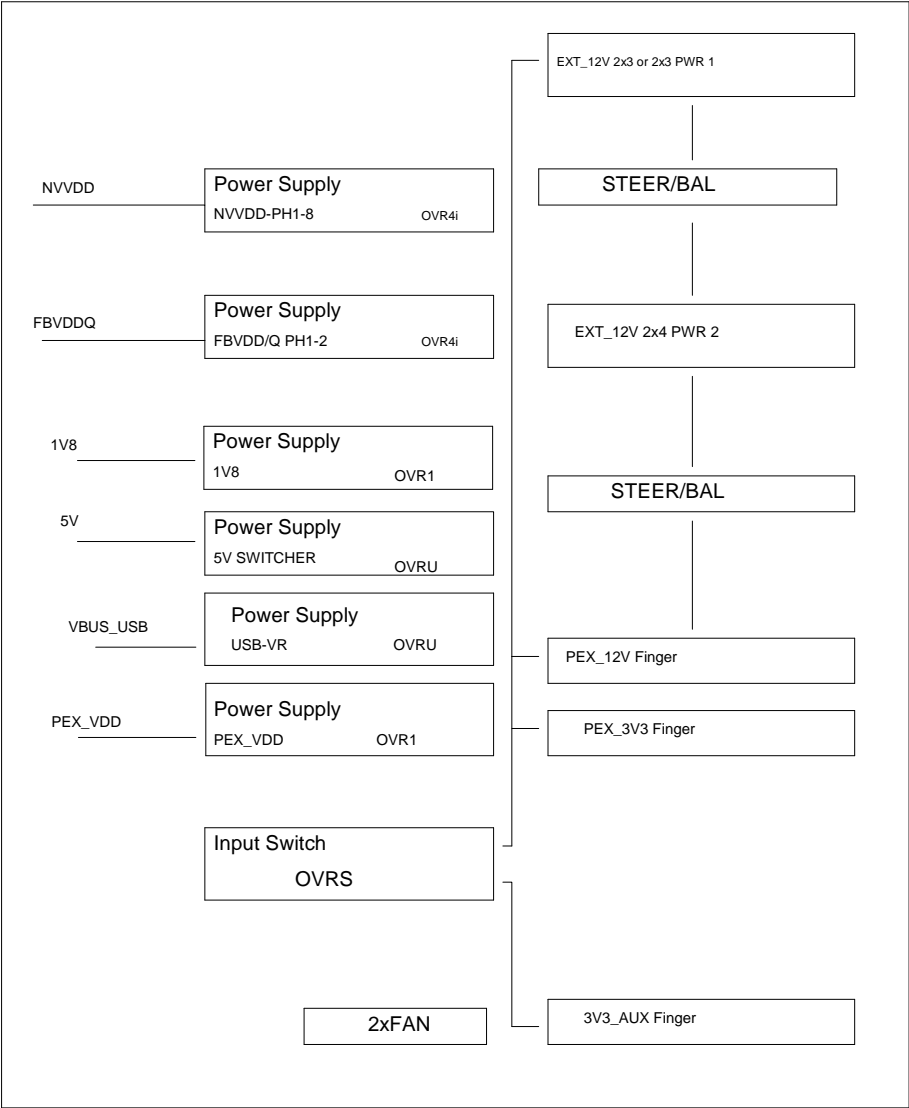
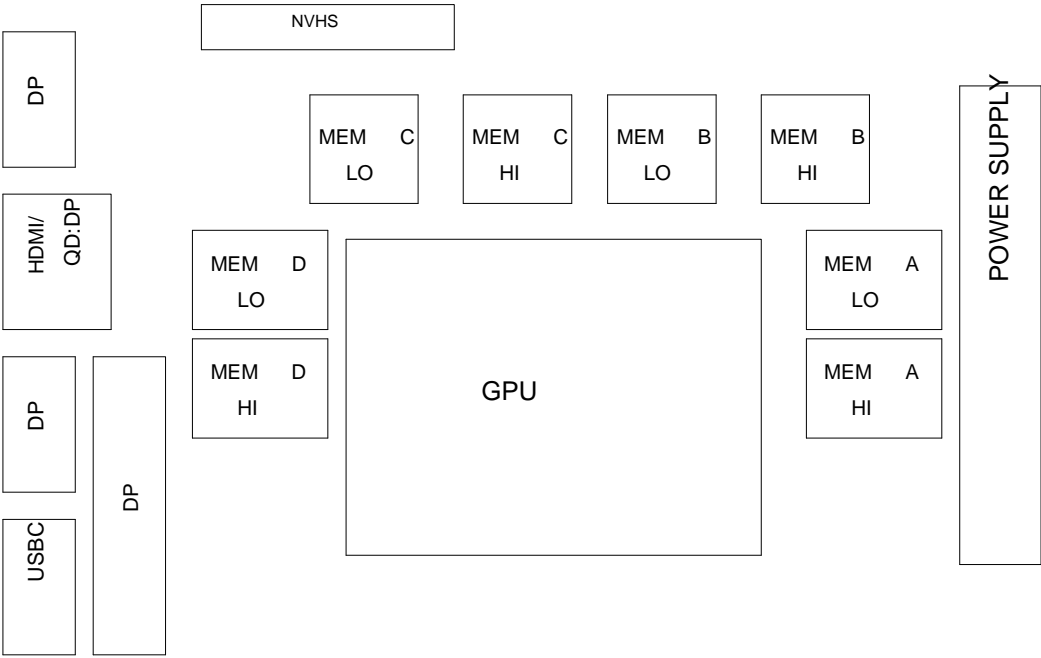
TALL DP + DP + DP + HDMI/DP + USB

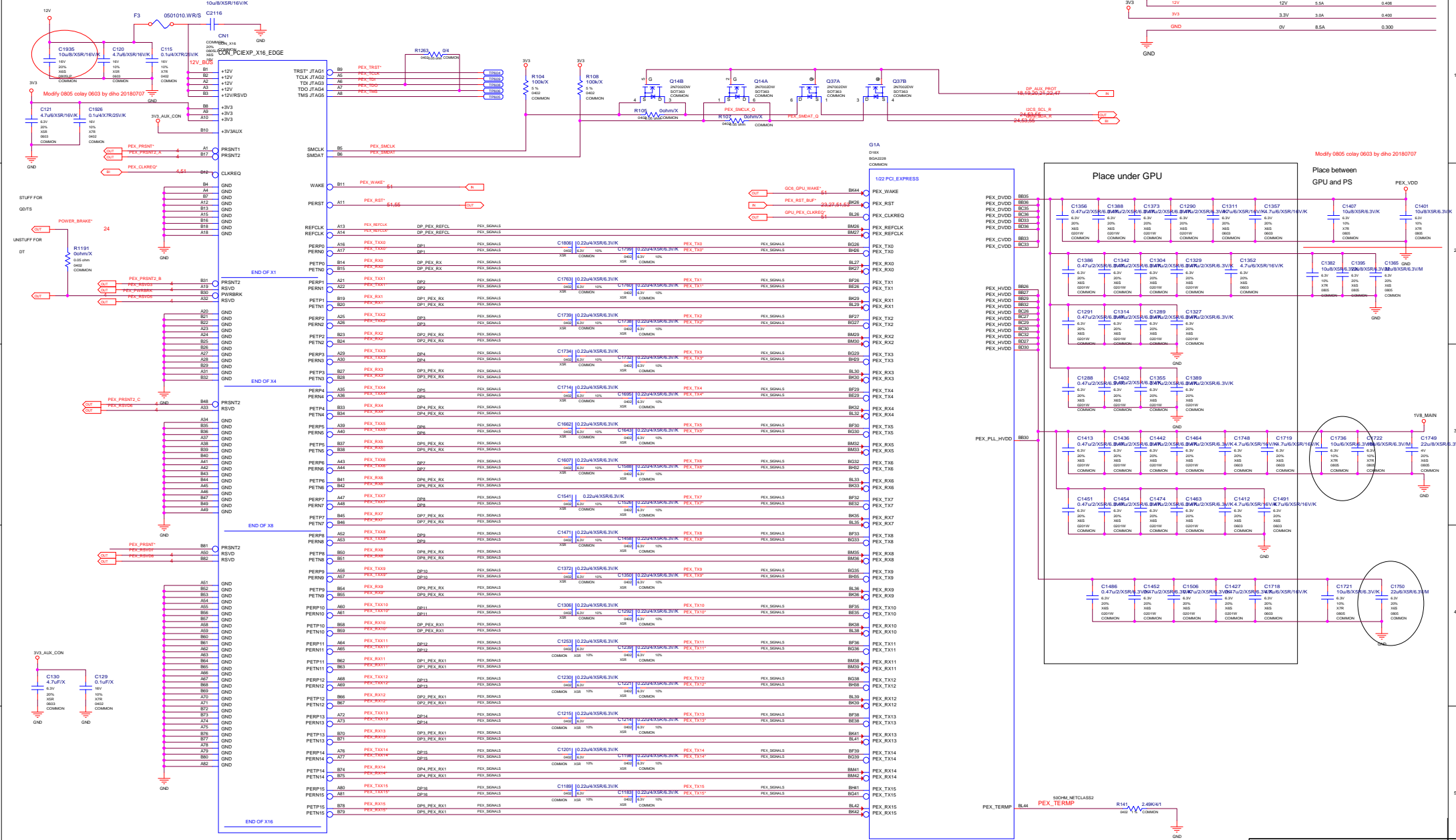
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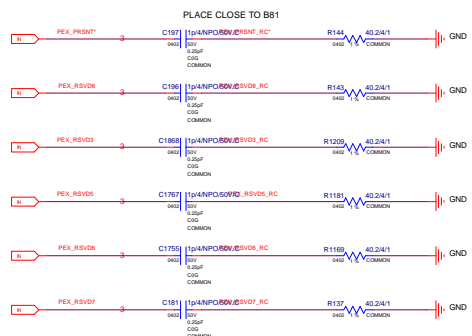
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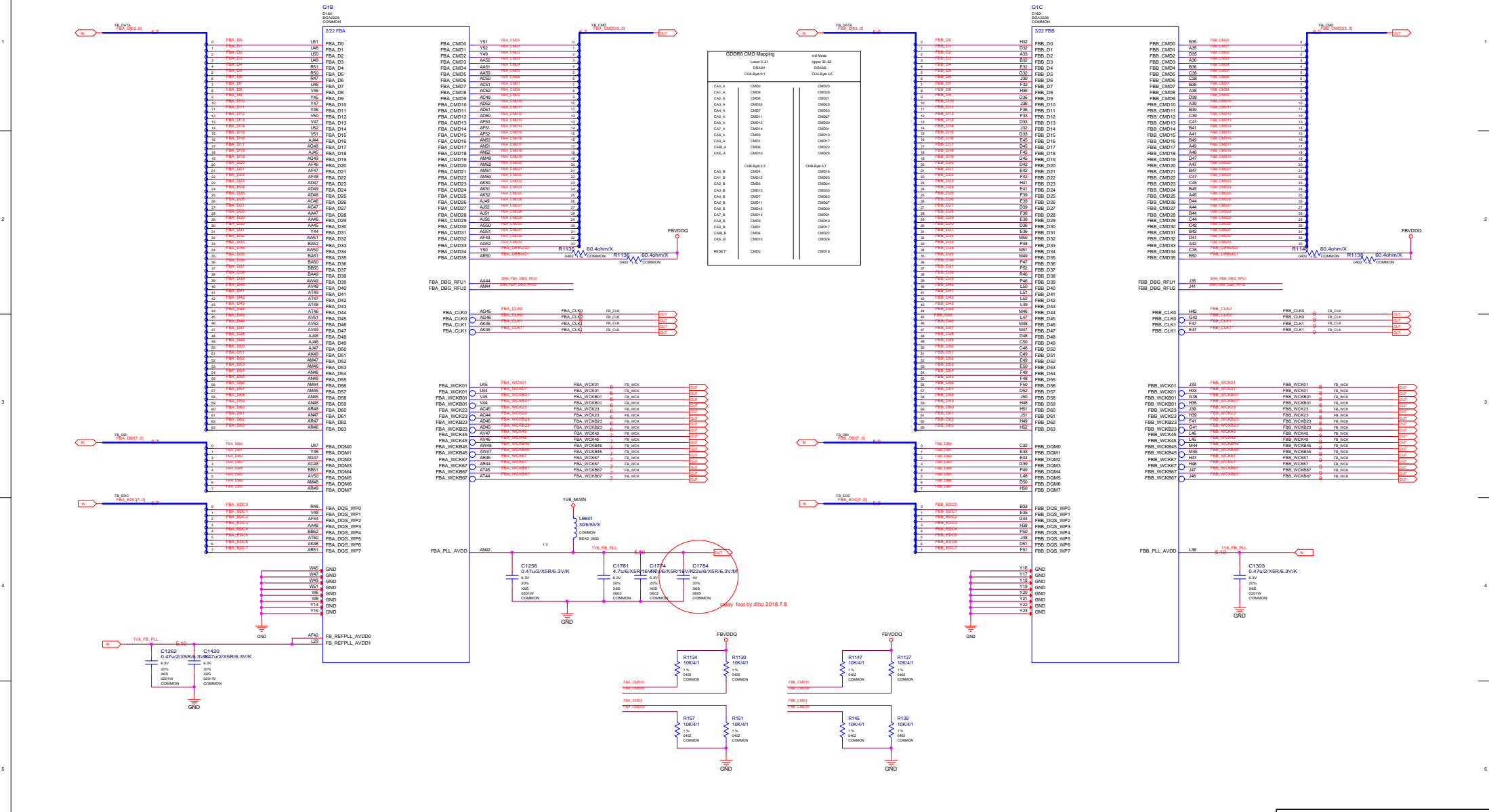
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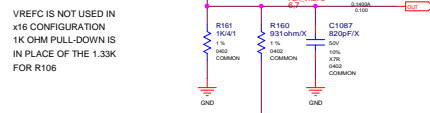
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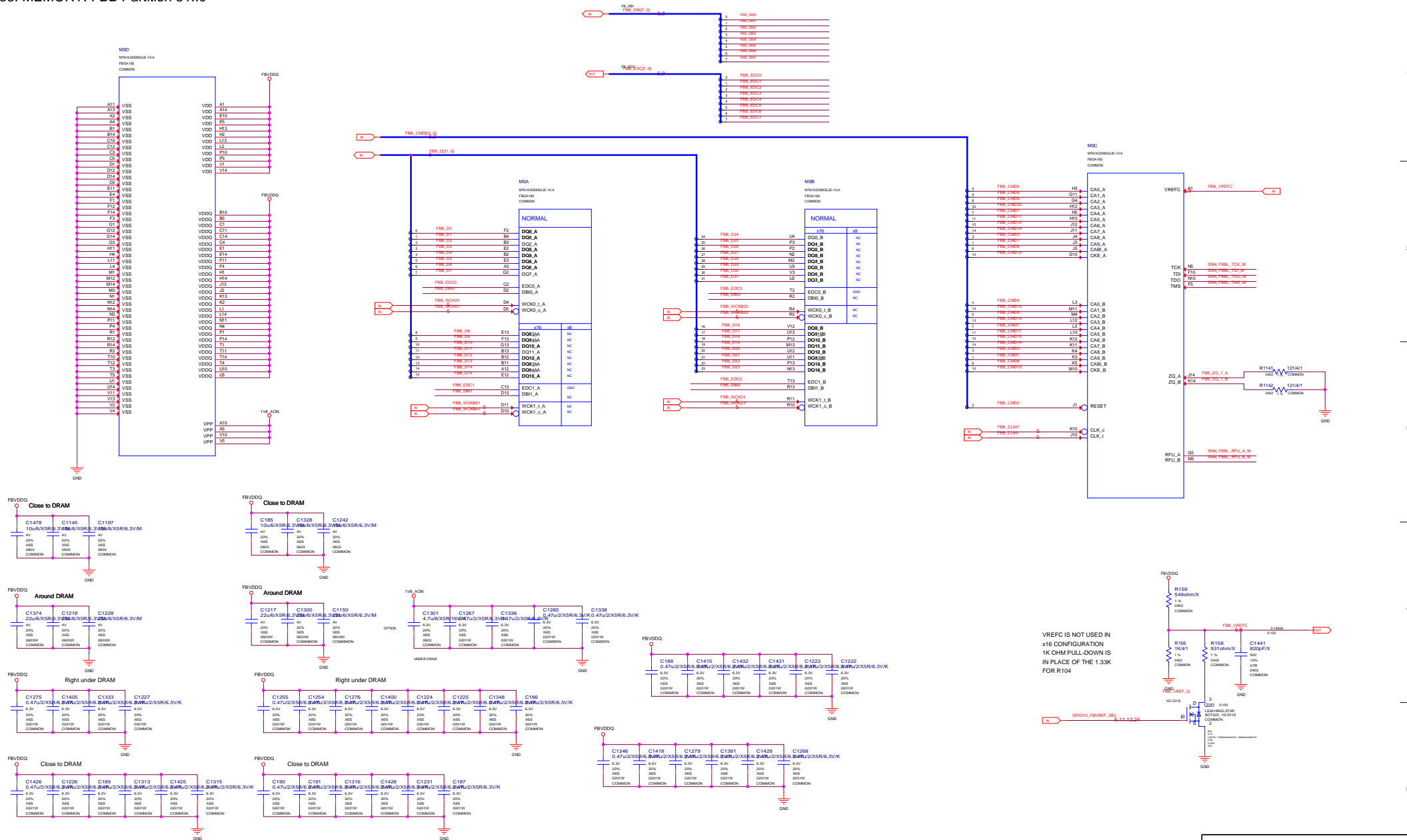


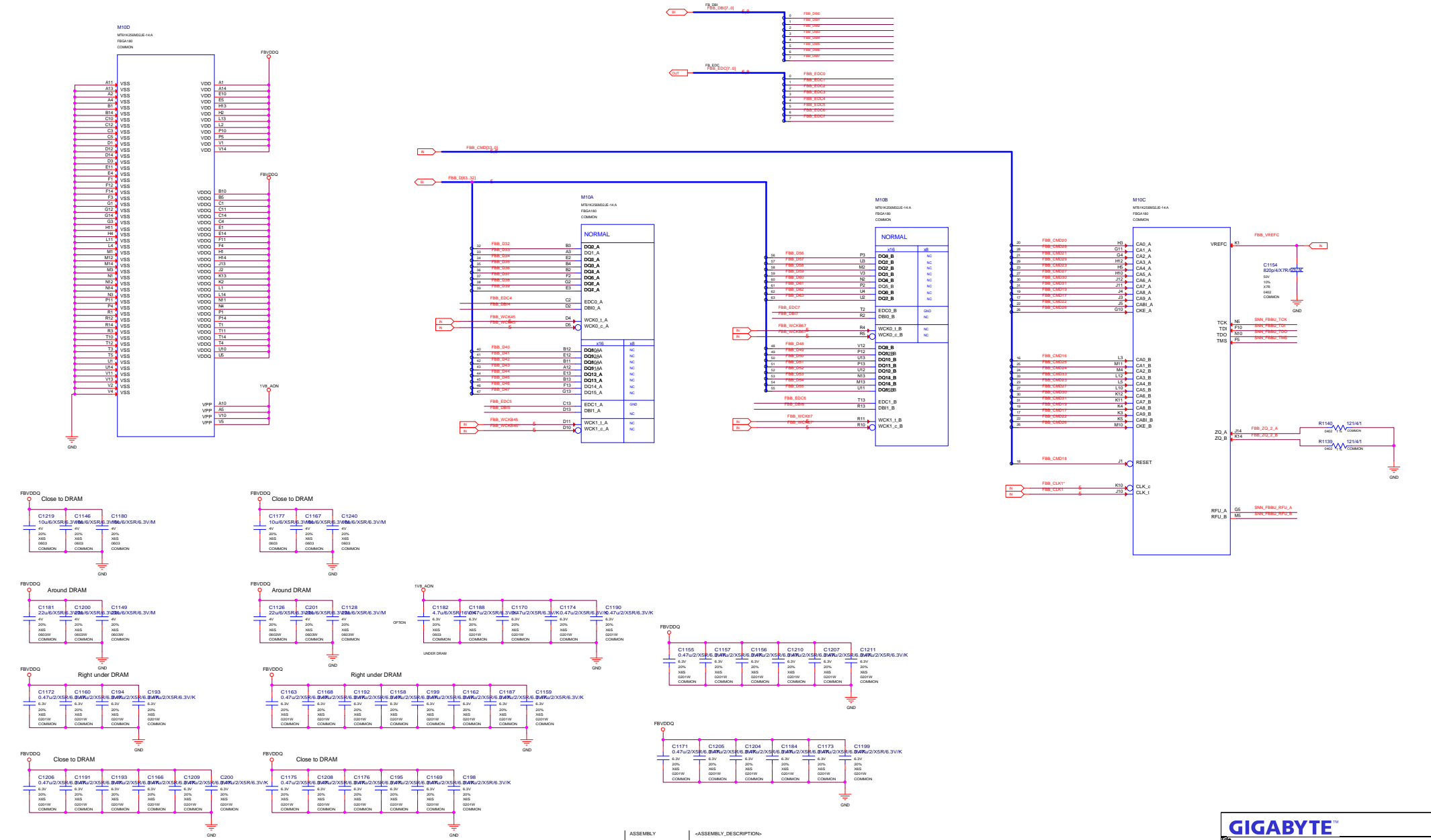


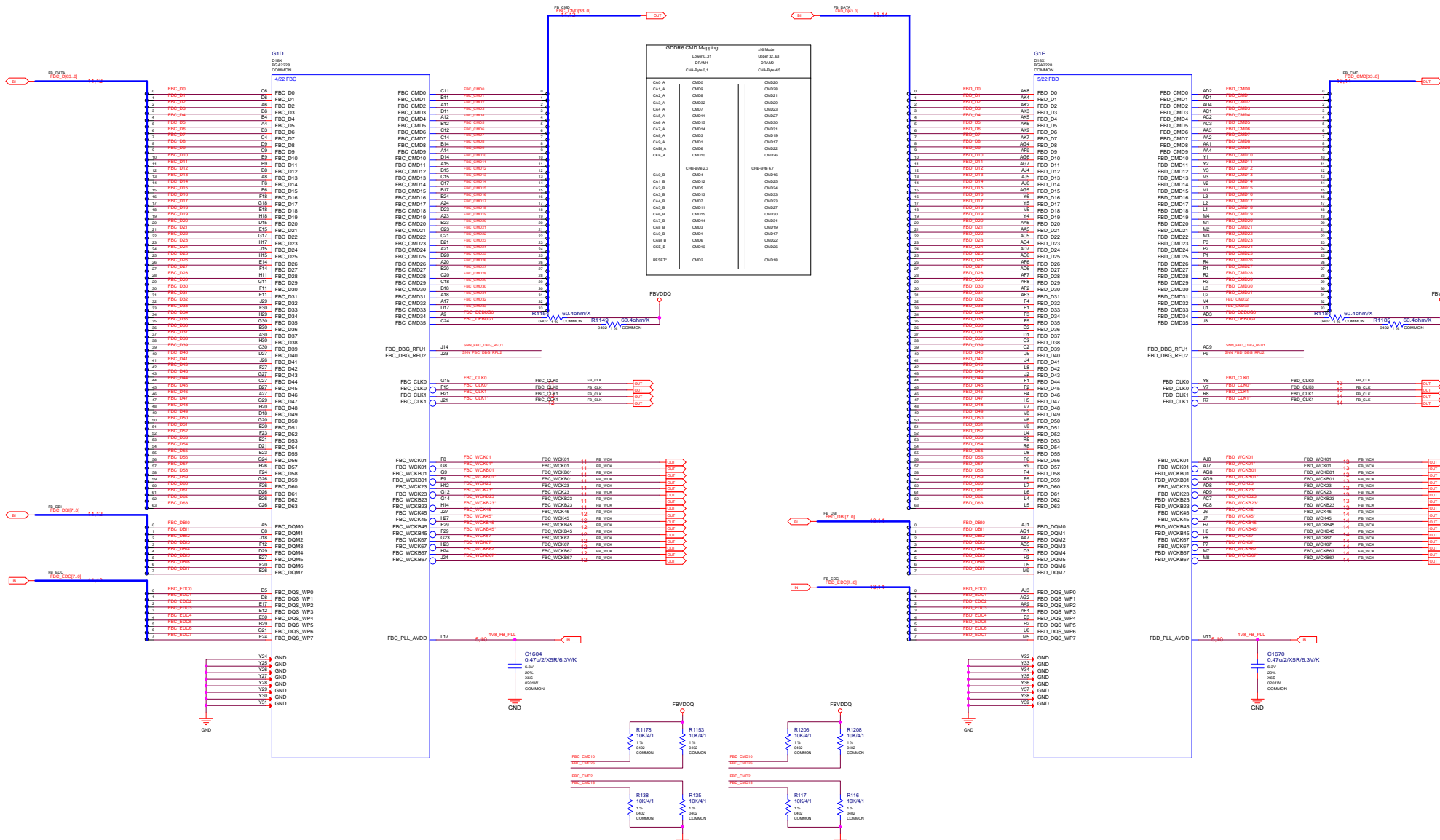


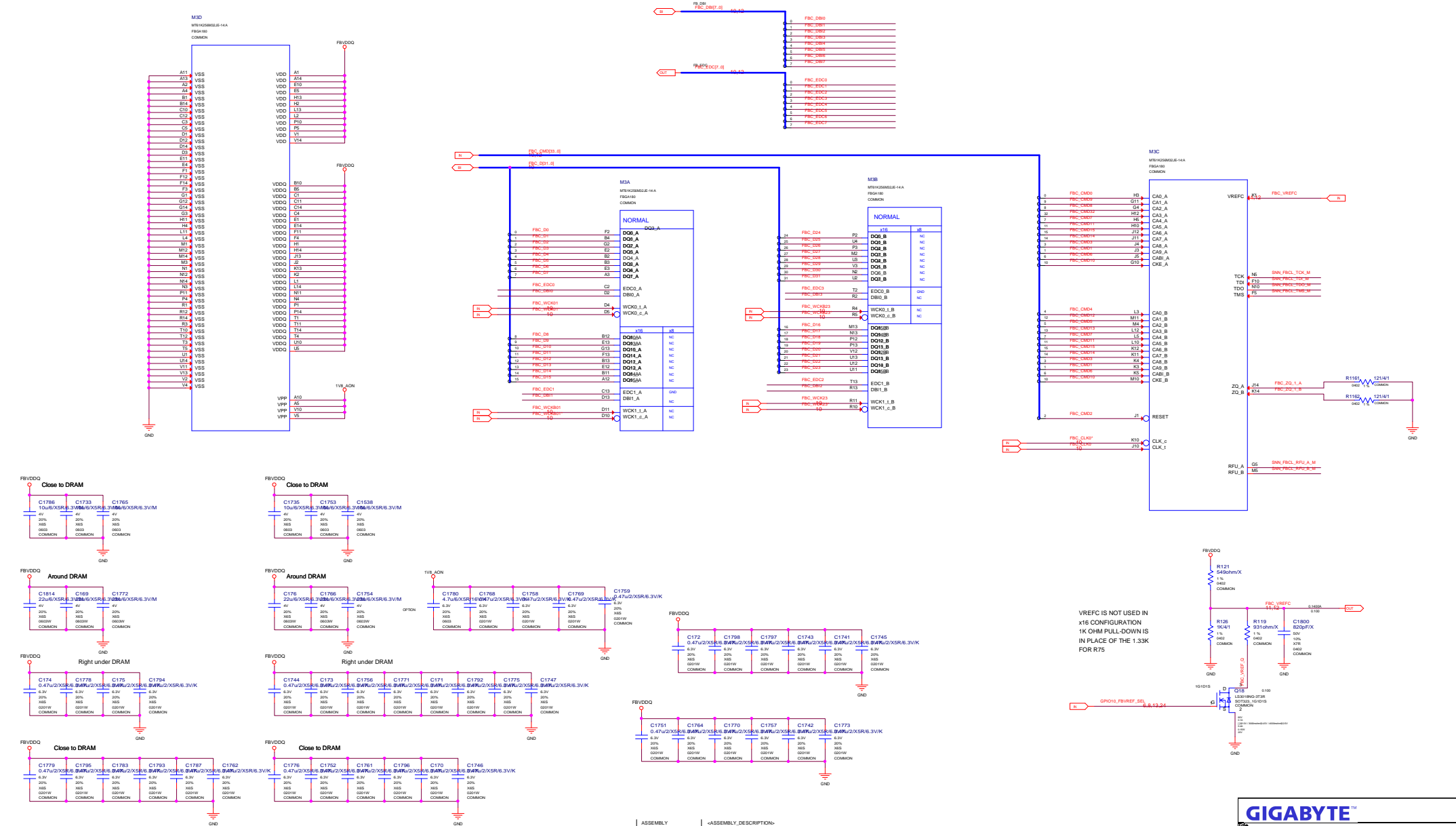








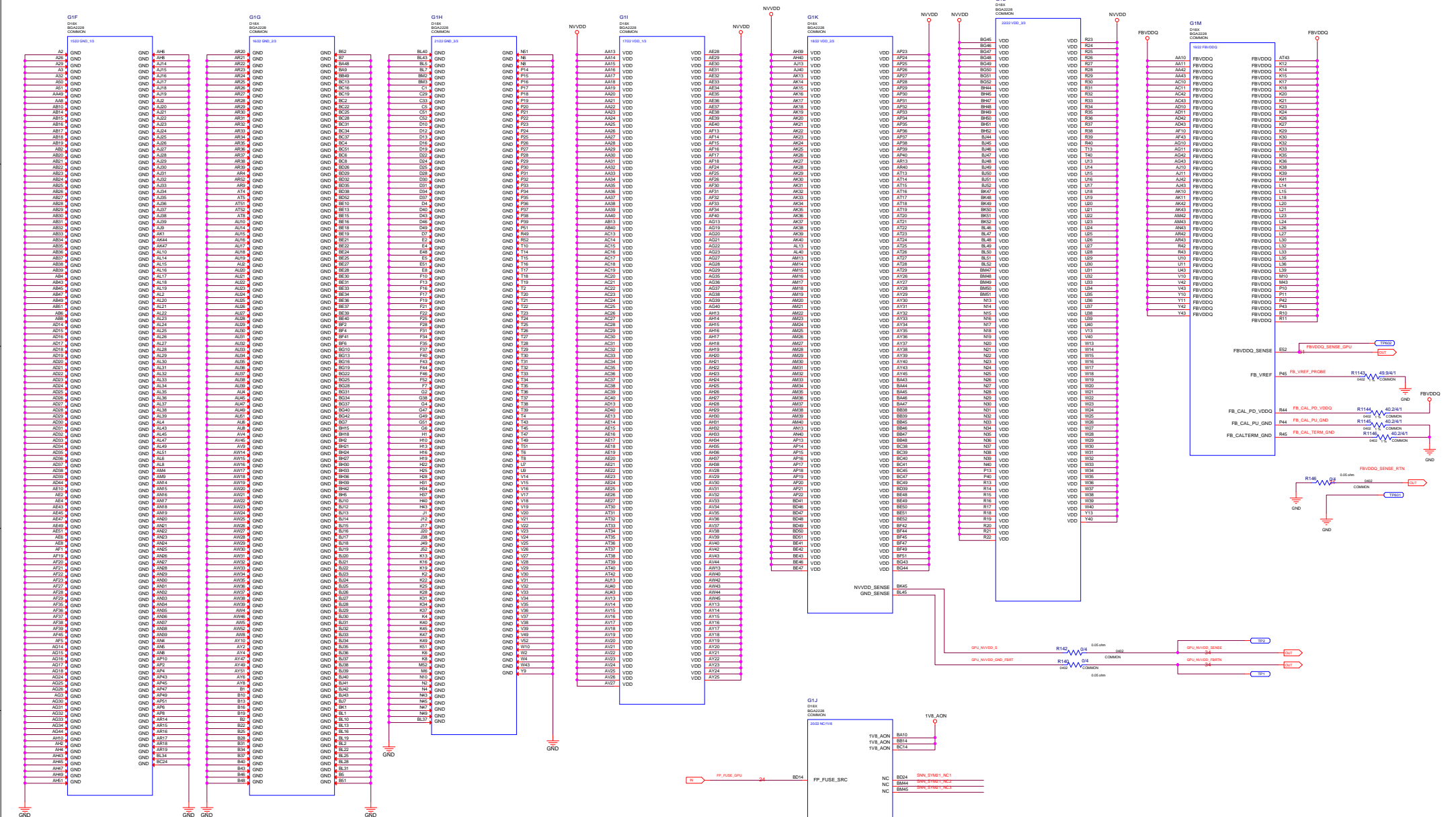






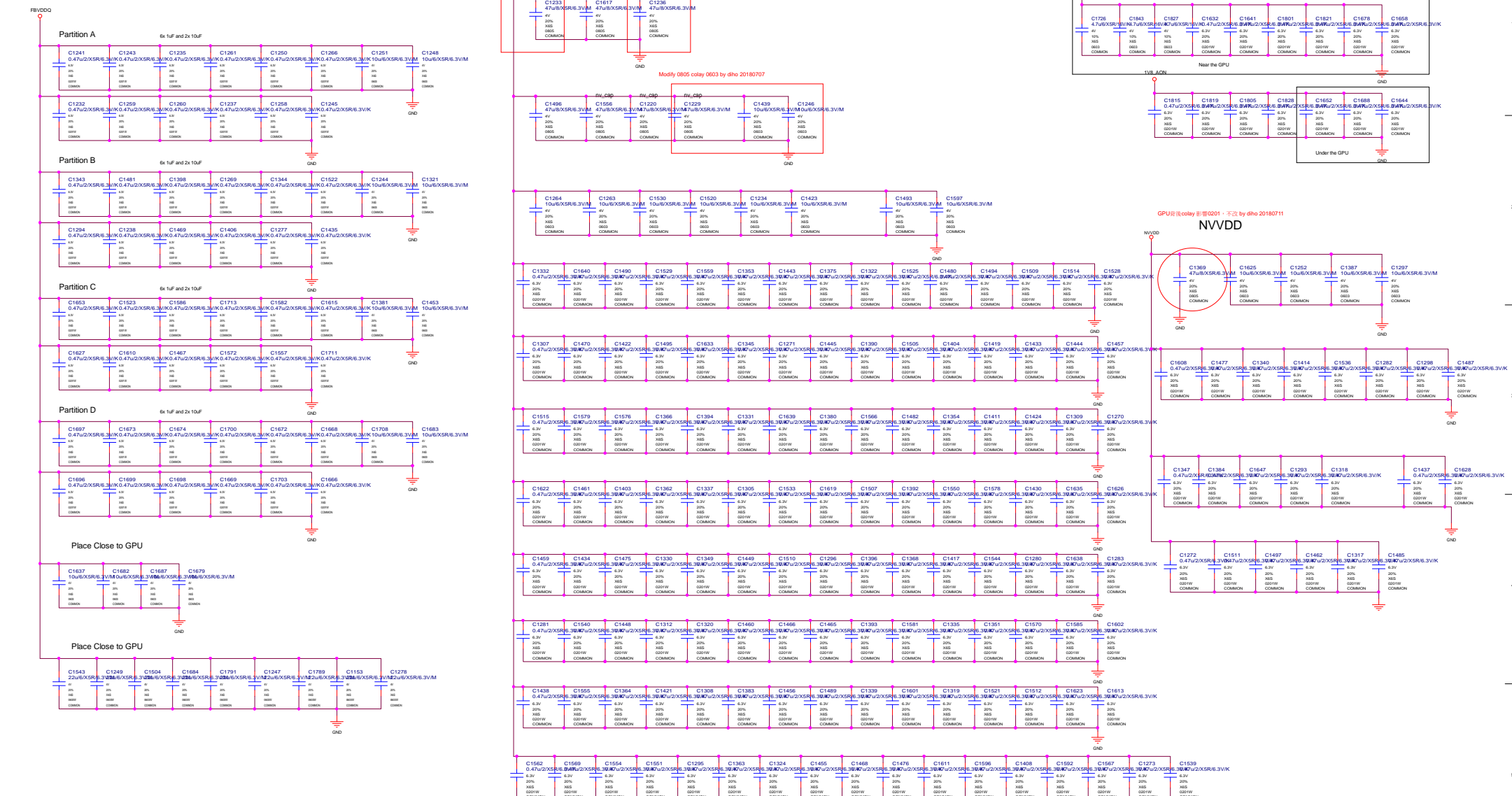






FBVDDQ

NVVDD



032-0532-000

XES

0805

GPU Decoupling

ASSEMBLY

PAGE DETAIL

GIGABYTE™

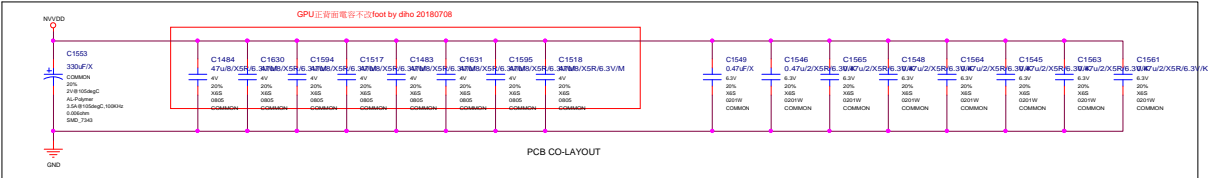
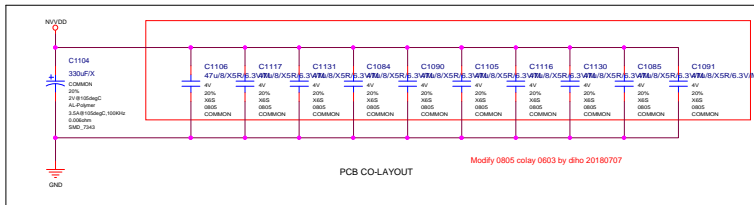
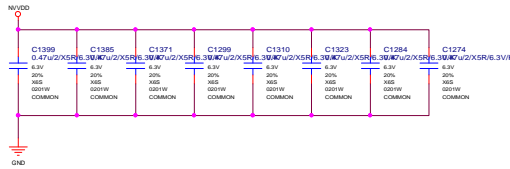
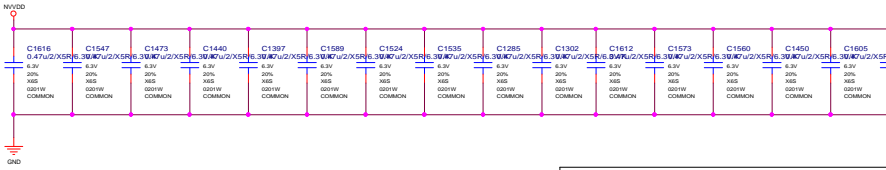
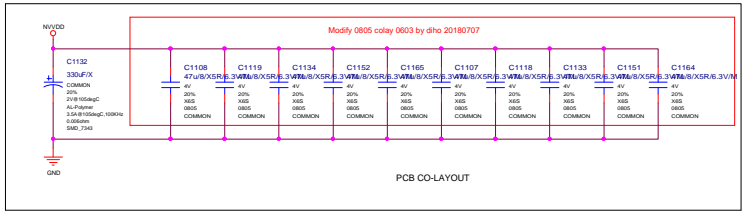
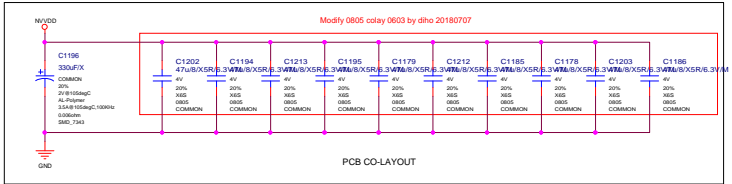
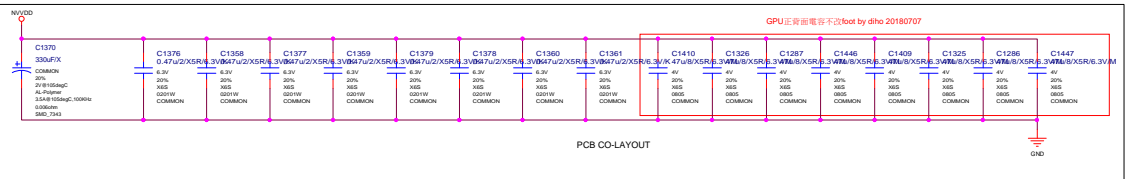
GPU DECOUPLE

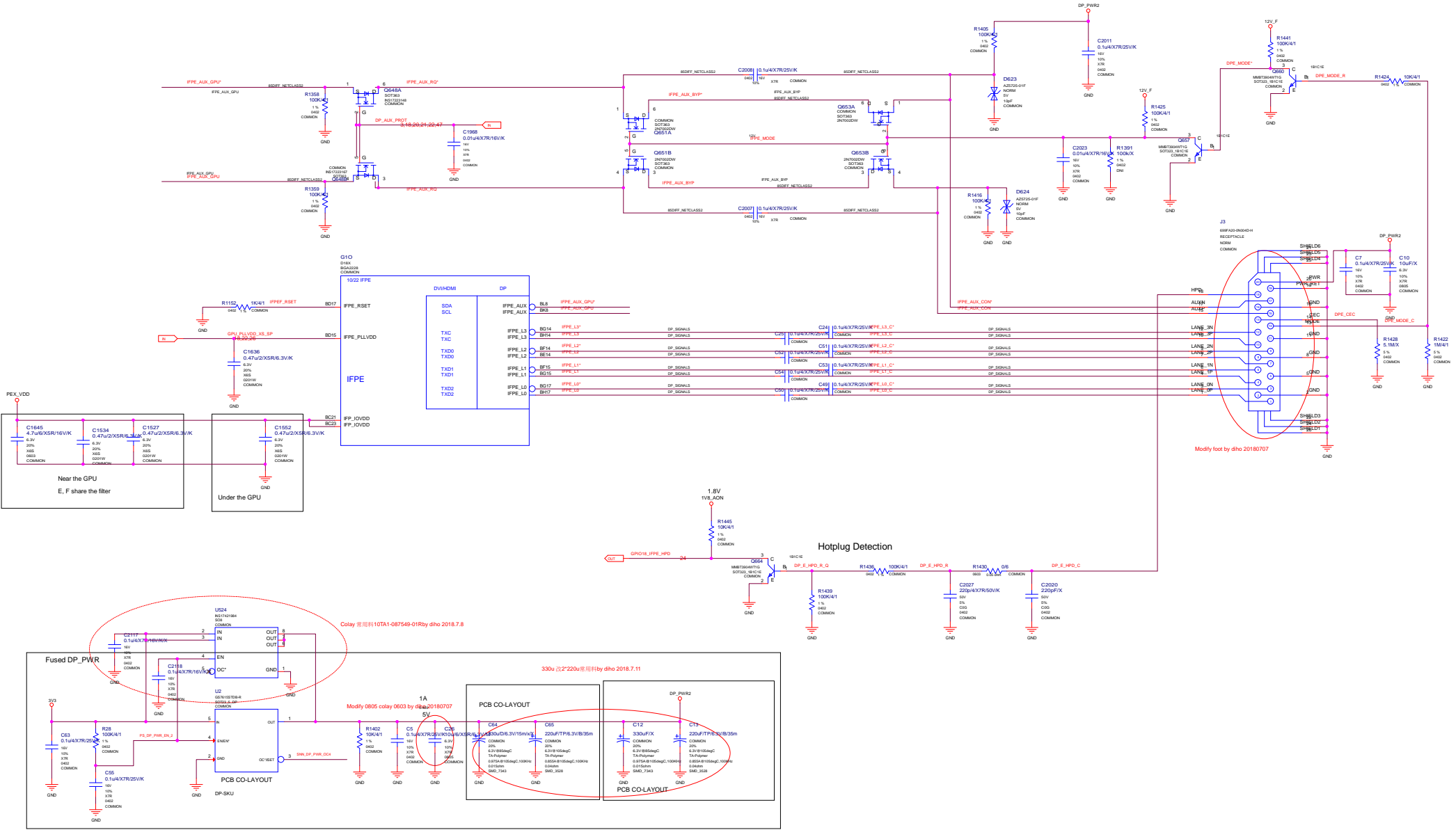
GV-N2080GAMING-8GC

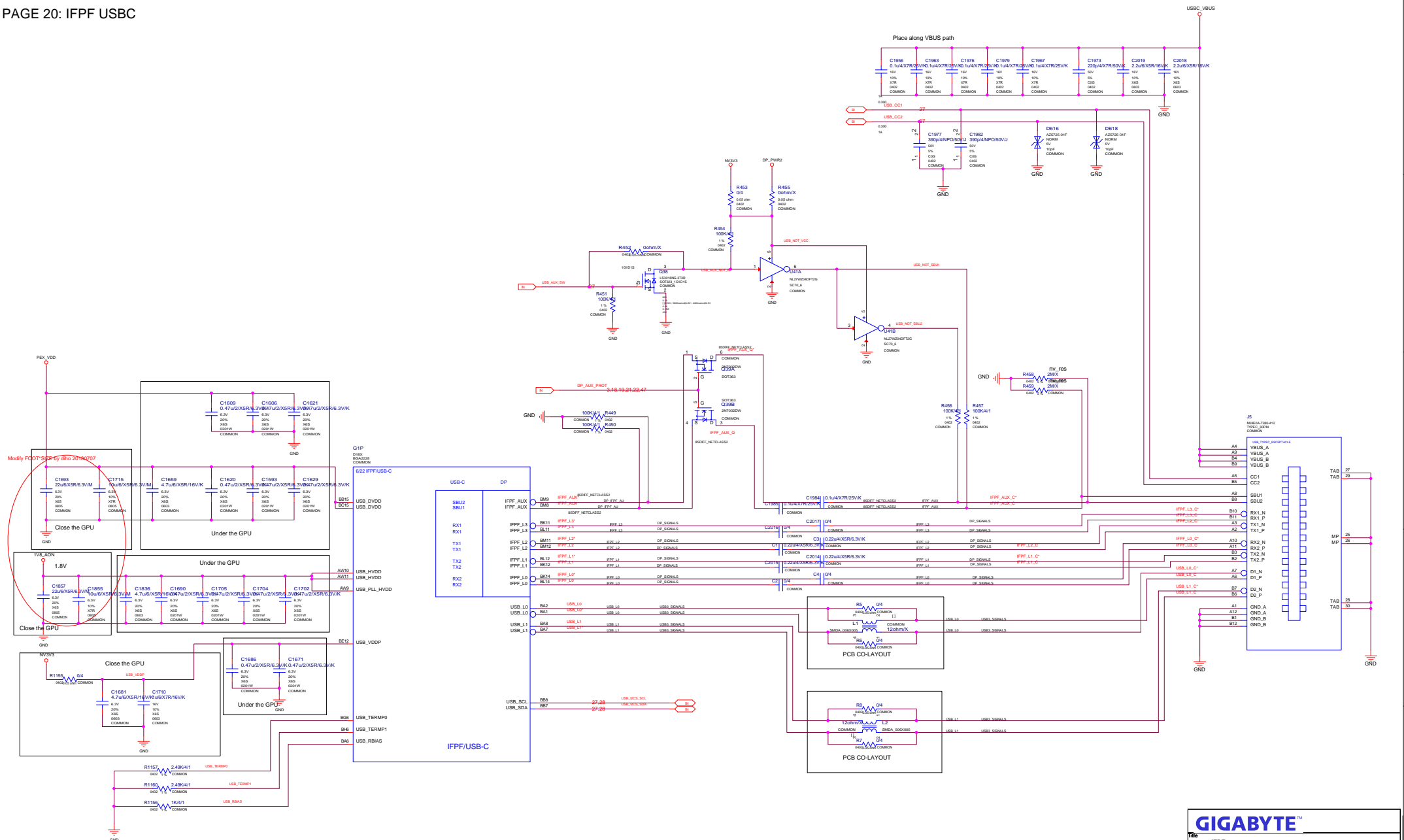
Rev 1.0

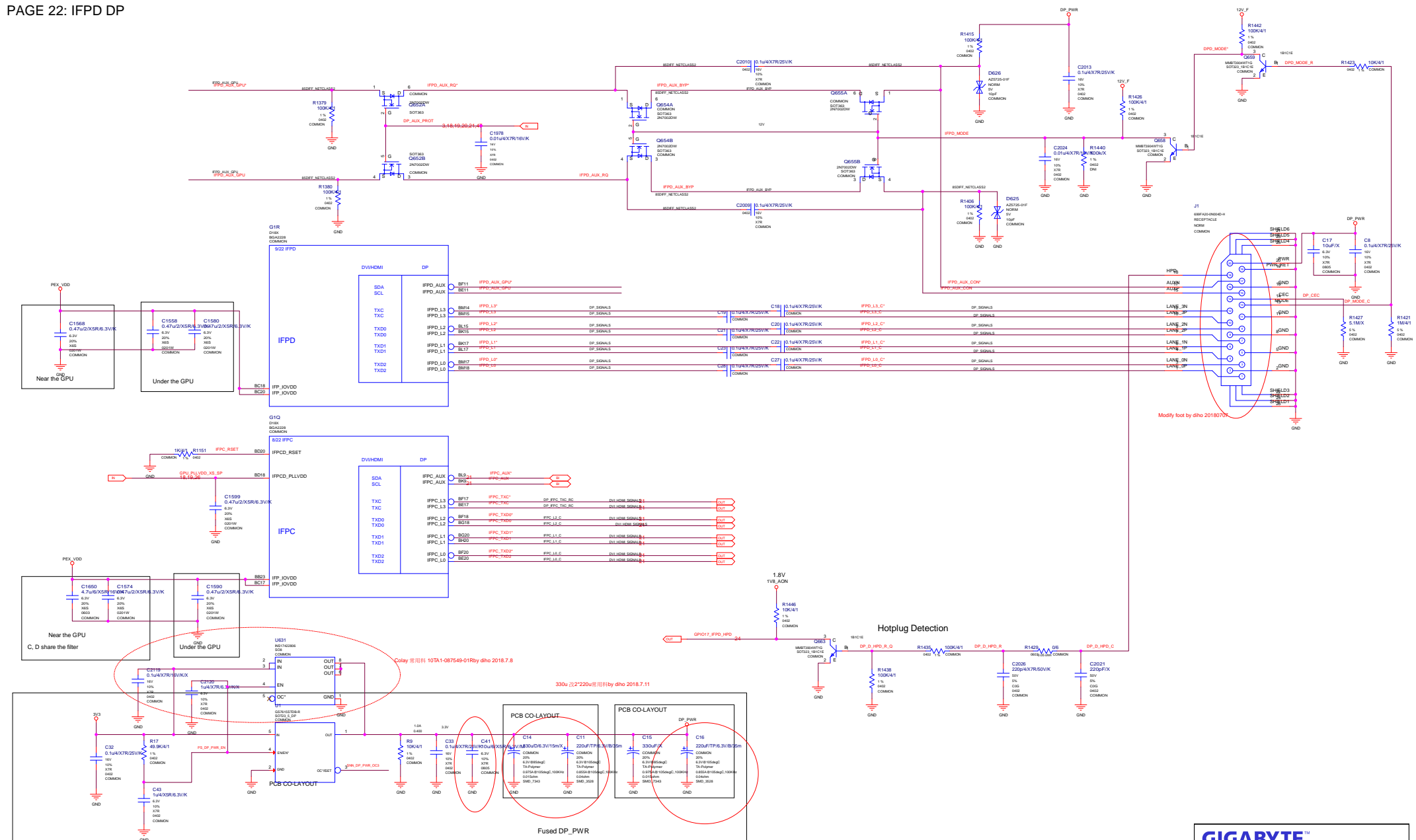
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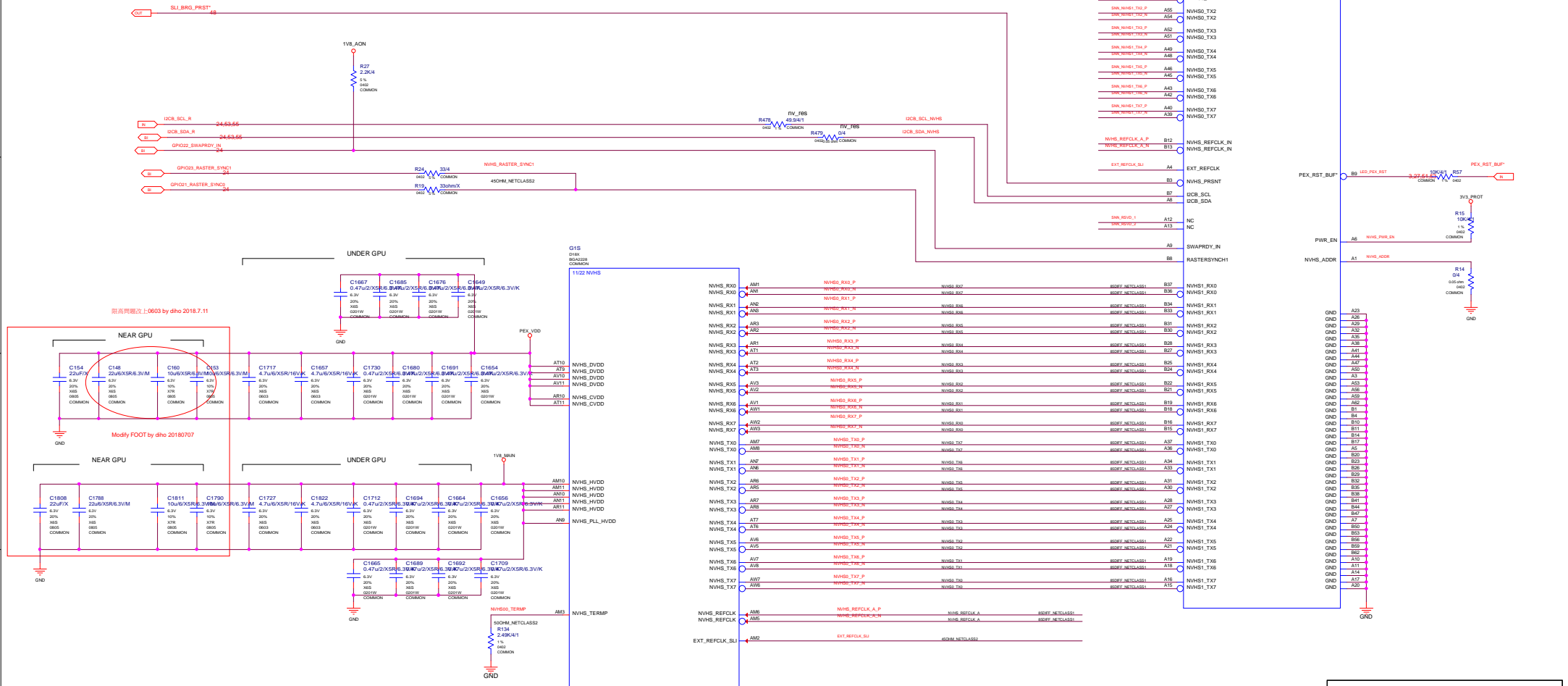
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H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

DEFAULT

DEFAULT

```

1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGNAL

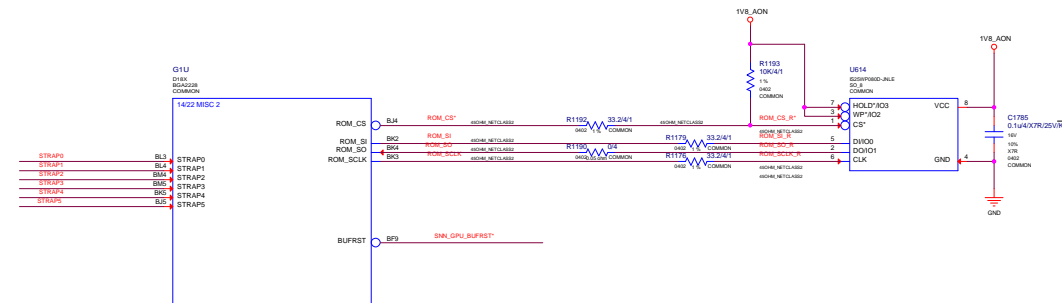
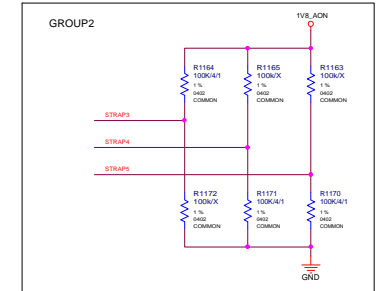
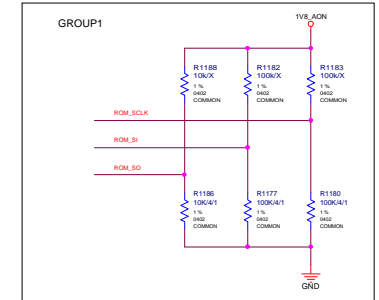
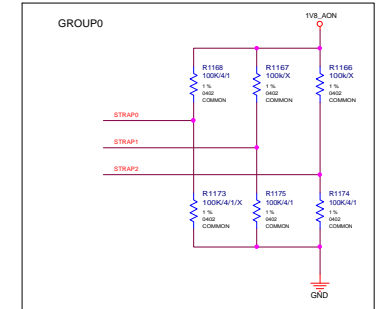
1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE

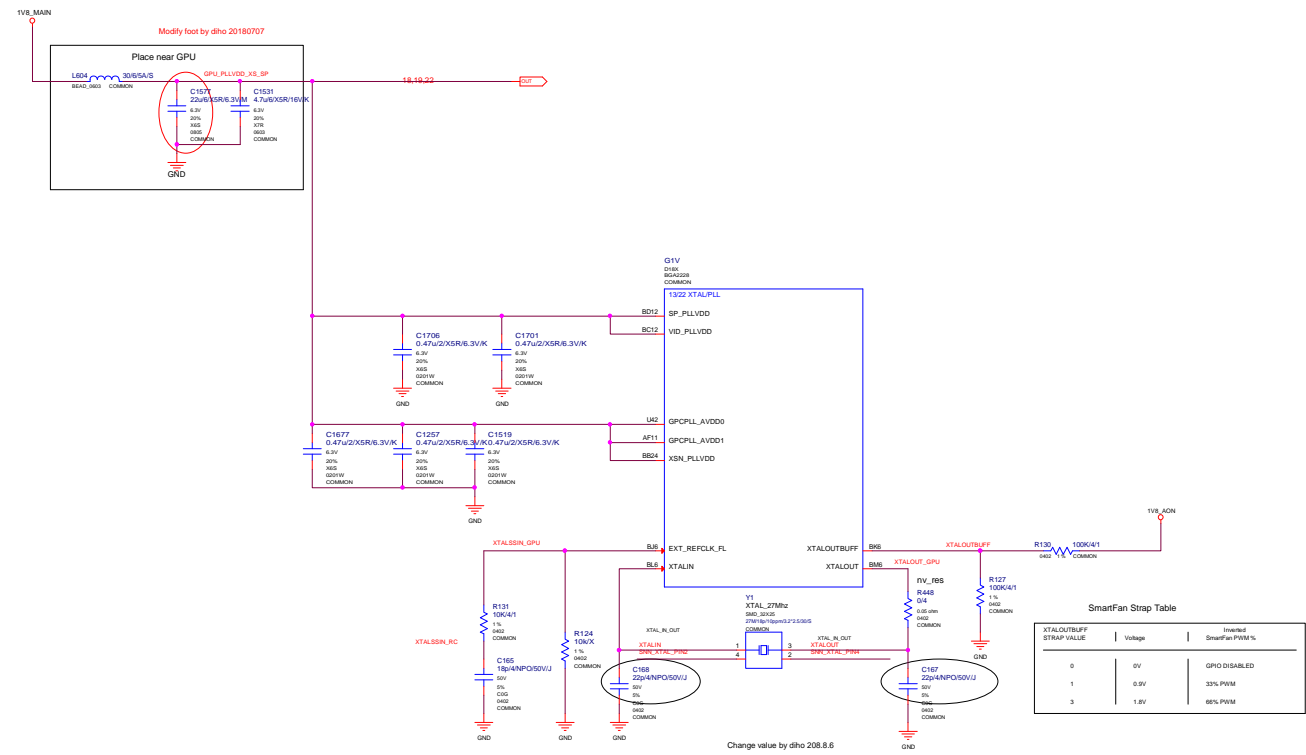
```

Default

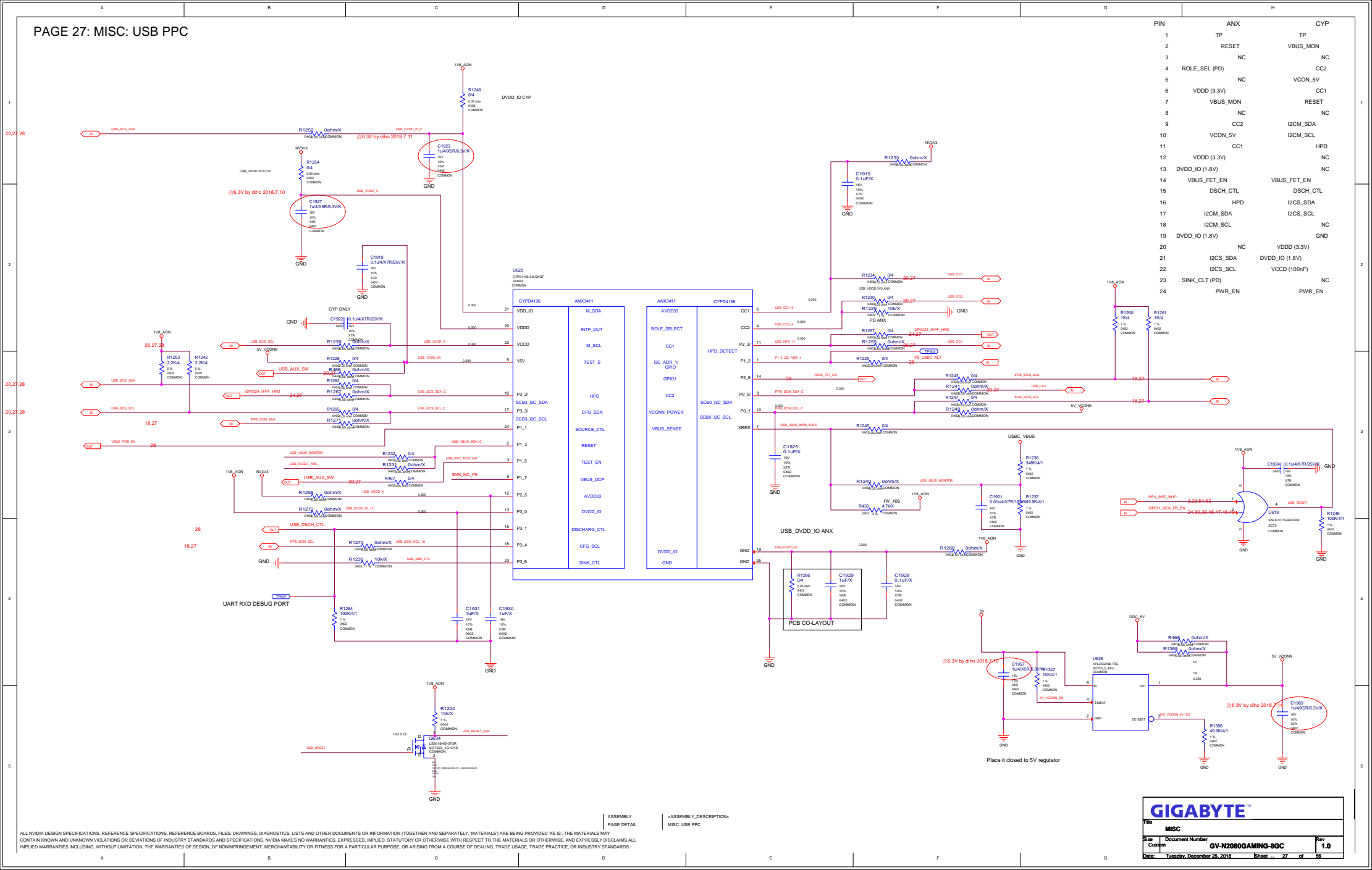
RAMCFG[4:0]	DENSITY	WIDTH	VENDOR
00000	8Gb	256-bit	Samsung
00001	8Gb	256-bit	Micron
00010	8Gb	256-bit	Hynix
00110	16Gb	256-bit	Samsung
00111	16Gb	256-bit	Samsung



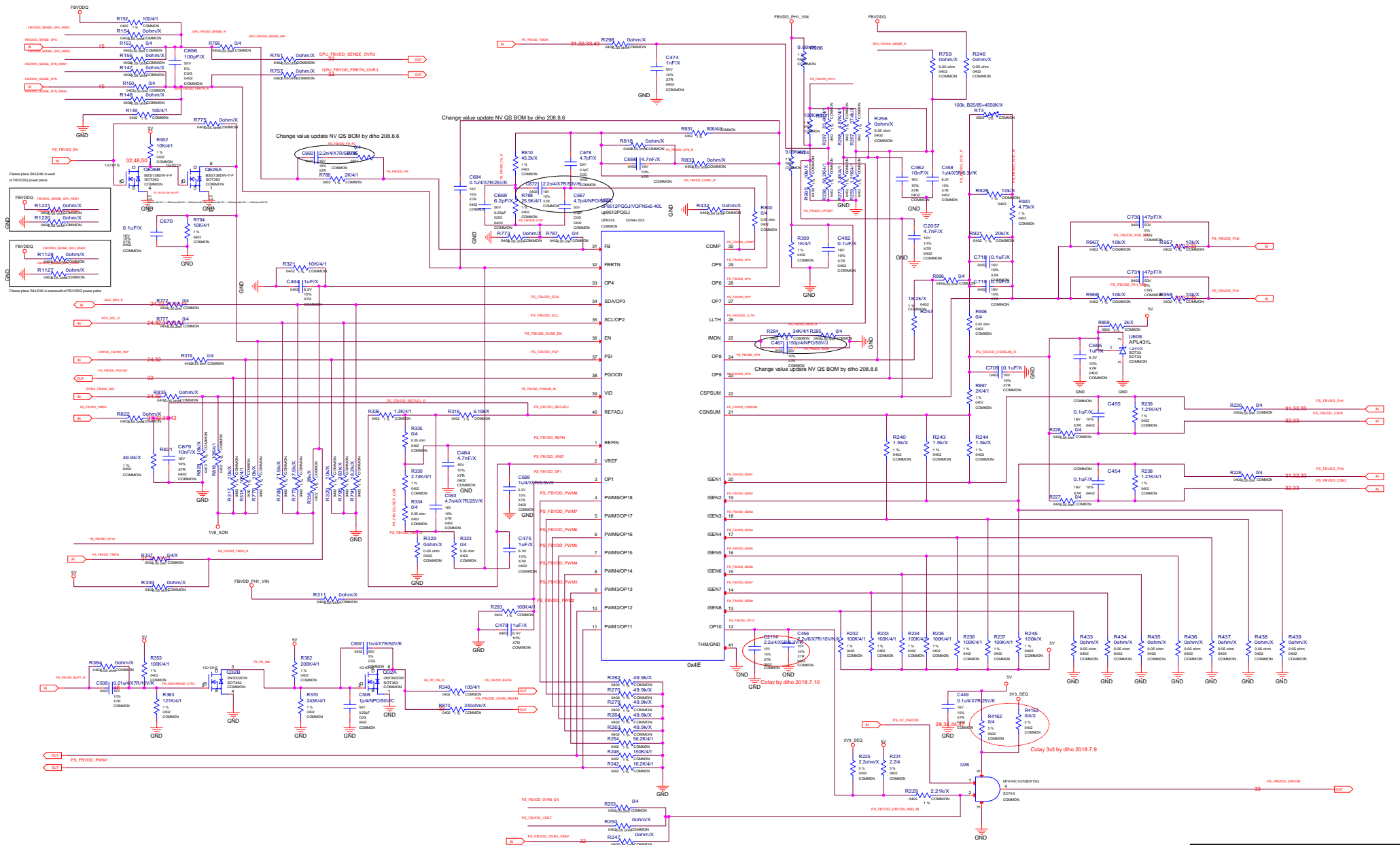
			
Title: MISC3			
Size: Custom	Document Number: GV-N2080GAMING-8GC		Rev: 1.0
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XTALOUTBUFF STRAP VALUE	Voltage	Inverted SmartFan PWM %
0	0V	GPIO DISABLED
1	0.9V	33% PWM
3	1.8V	66% PWM

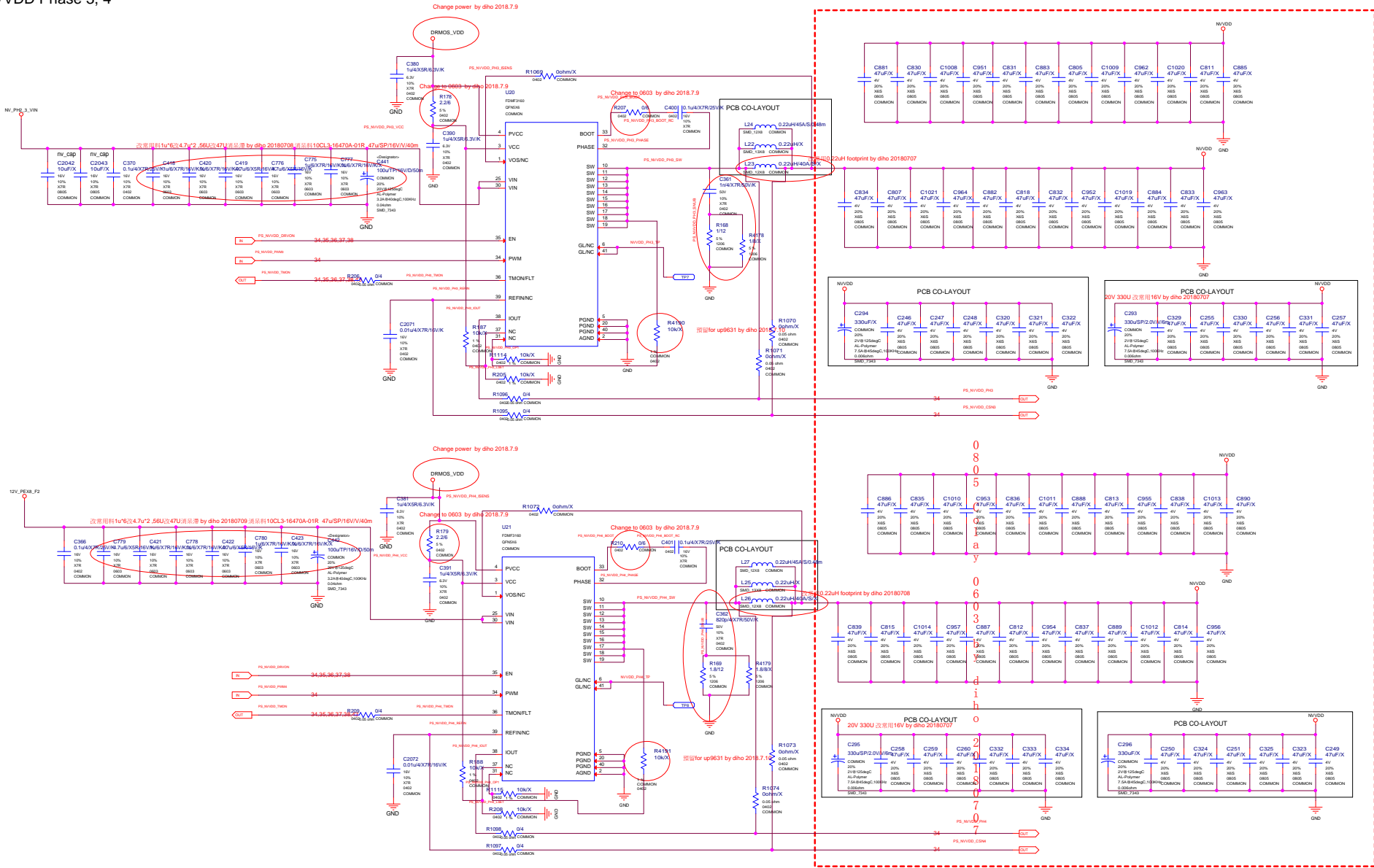






ASSEMBLY DESCRIPTION
PAGE DETAIL
PS: FBVDD CONTROLLER



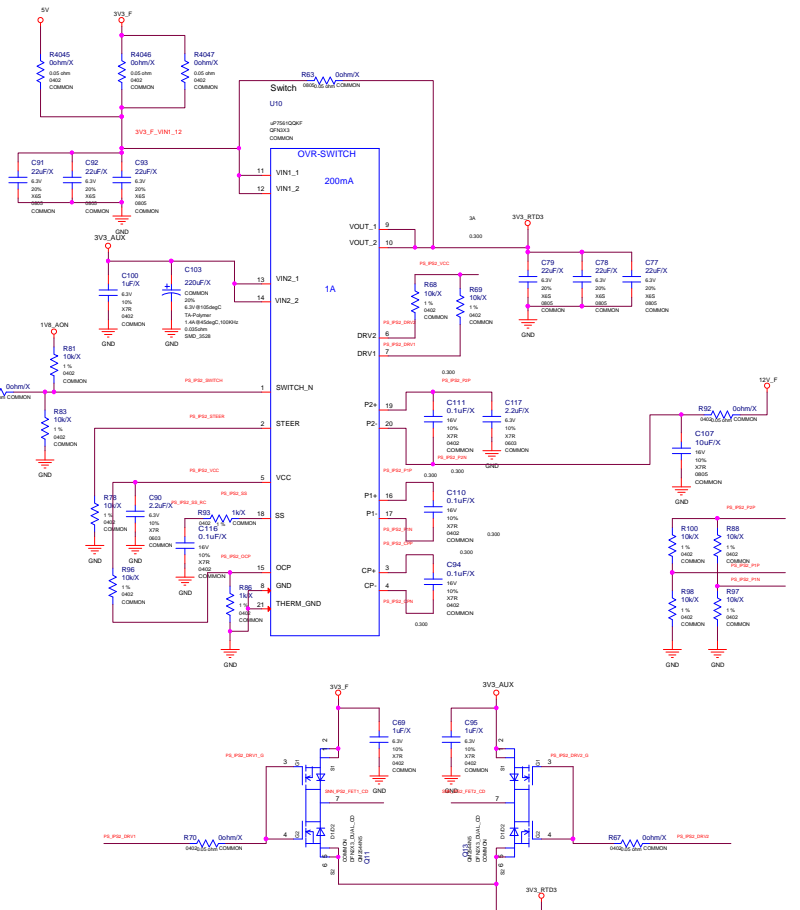
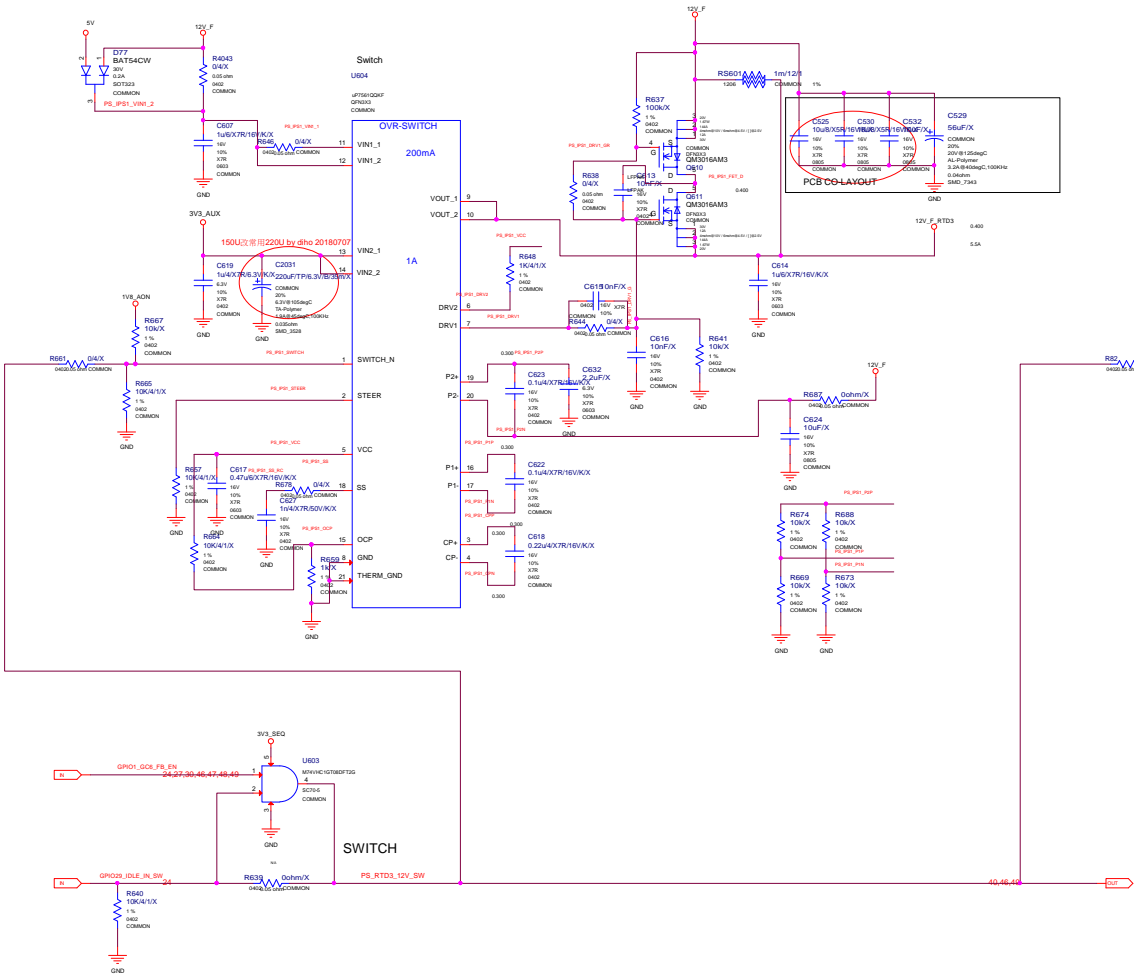


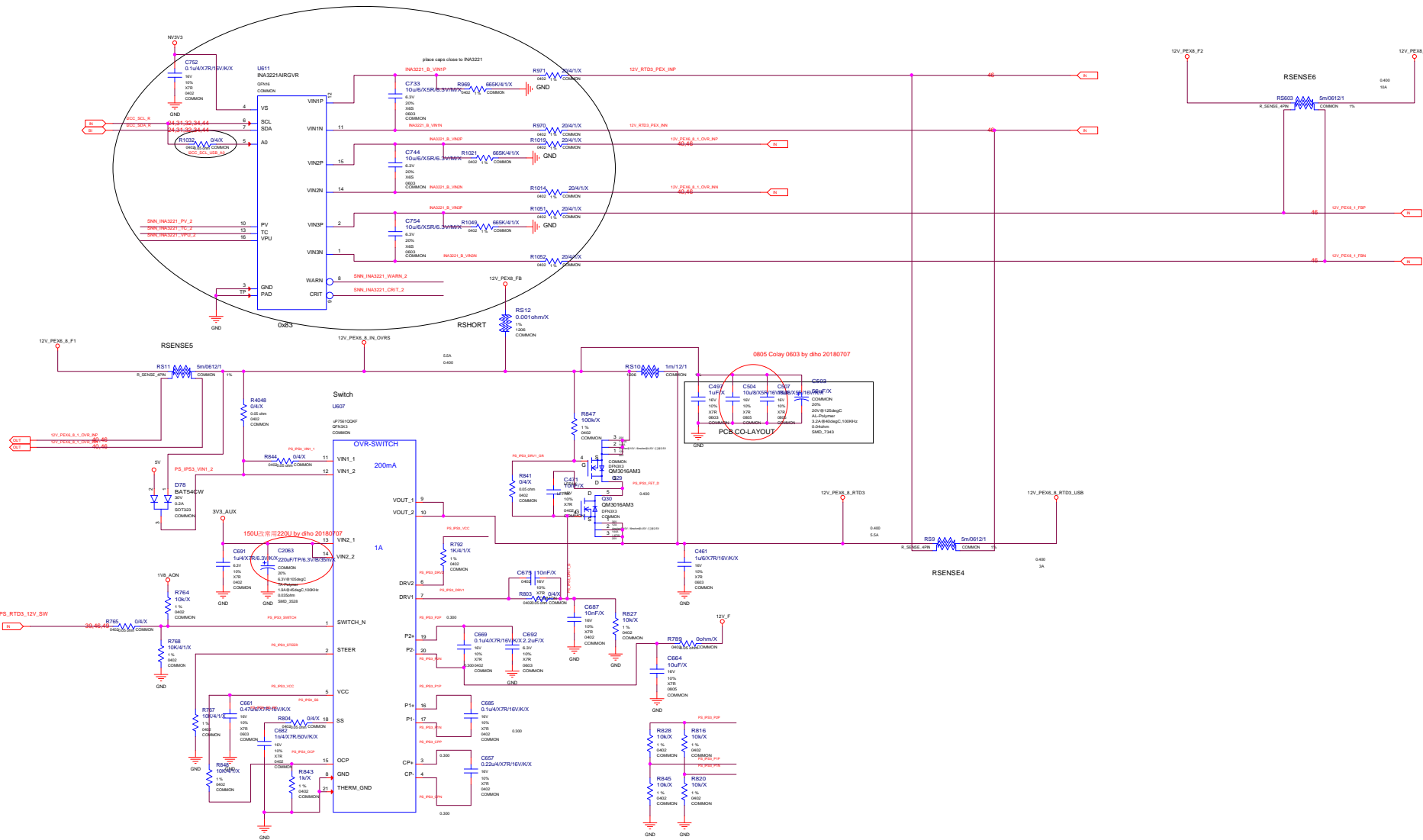
AND GATE LOGIC FOR P-BOARD

GPI01	GPI029	SWITCH	VOUT
0	0	0	12V_F
0	1	0	12V_F
1	0	0	12V_F
1	1	1	3V3A

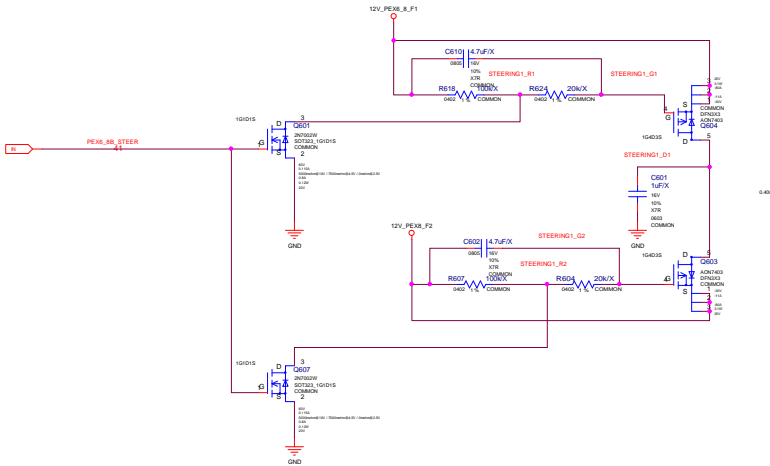
AND GATE LOGIC FOR P-BOARD

GPI01	GPI029	SWITCH	VOUT
0	0	0	3V3
0	1	0	3V3
1	0	0	3V3
1	1	1	3V3A

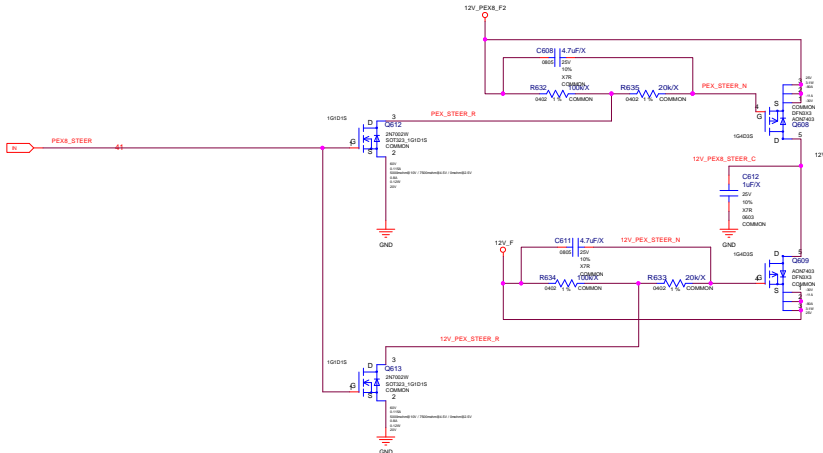




12V CURRENT STEERING (UNDER POWER BOOT):
GUIDES CURRENT FROM PEX EDGE TO PEX 6/8 PIN INPUT AREA



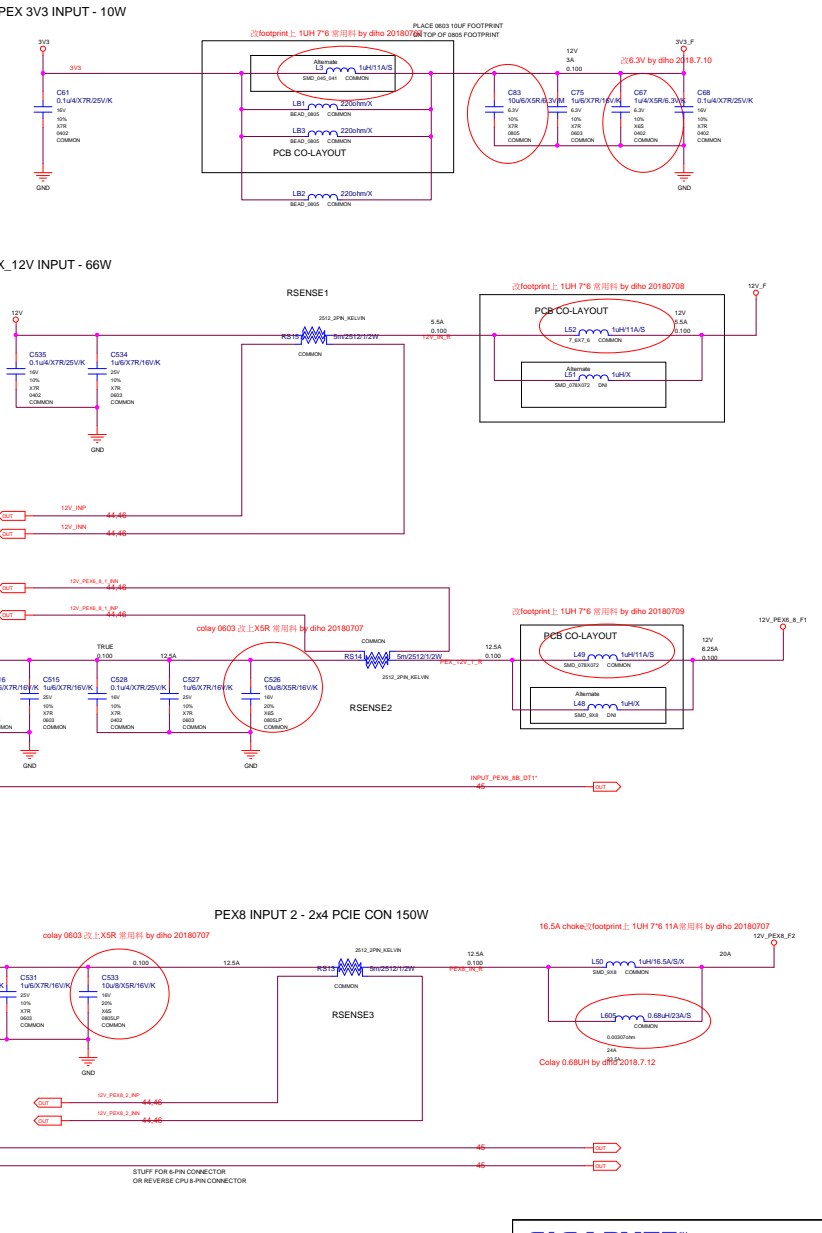
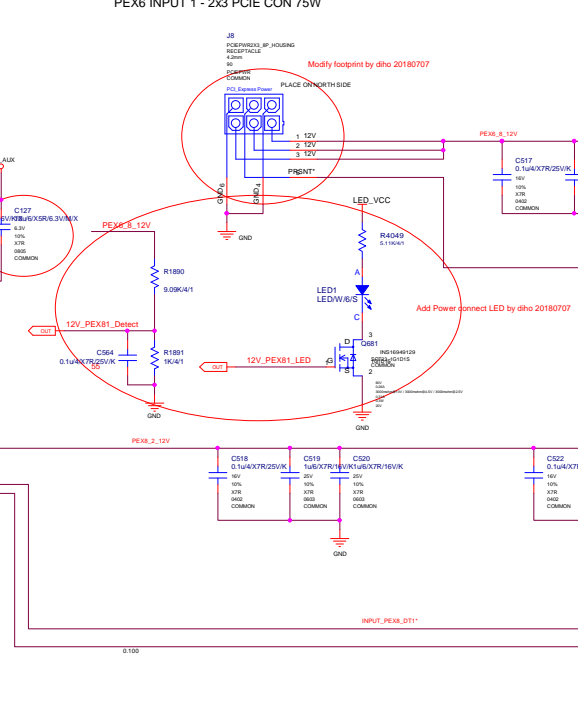
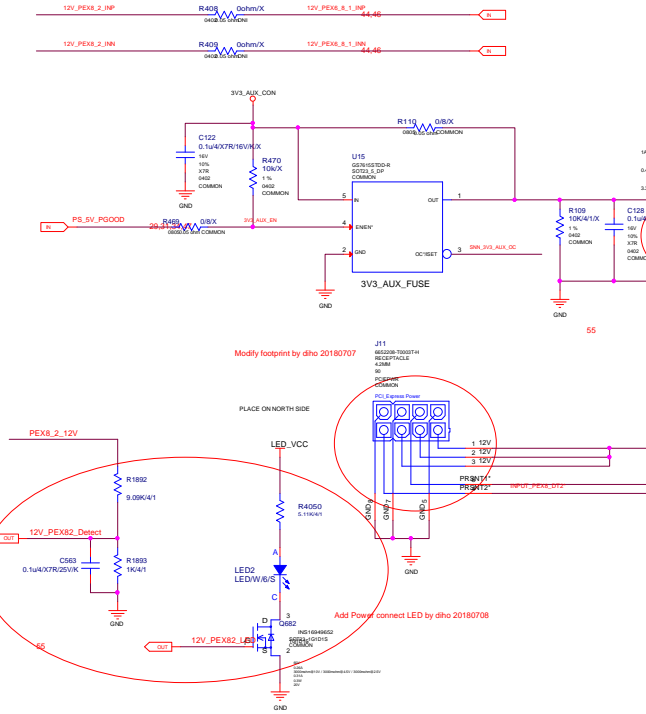
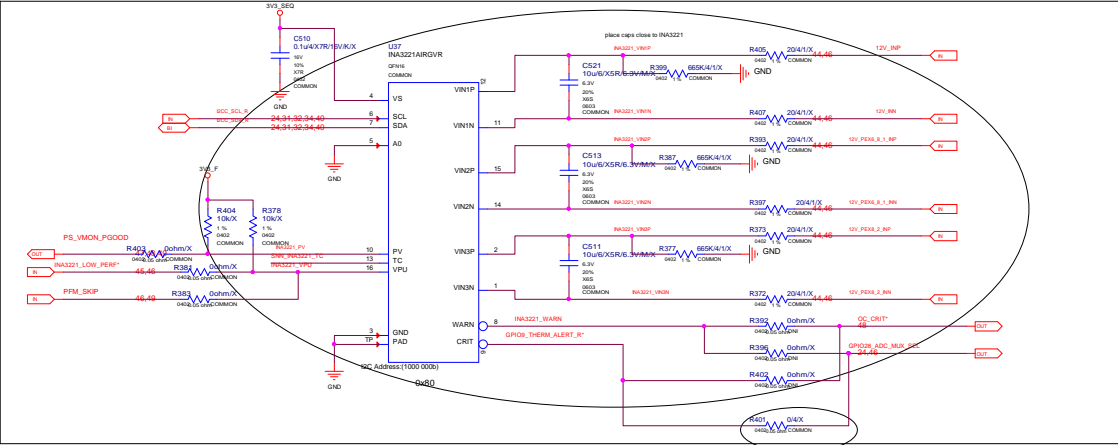
12V CURRENT STEERING (UNDER POWER BOOT):
GUIDES CURRENT FROM PEX EDGE TO PEX 8 PIN INPUT AREA

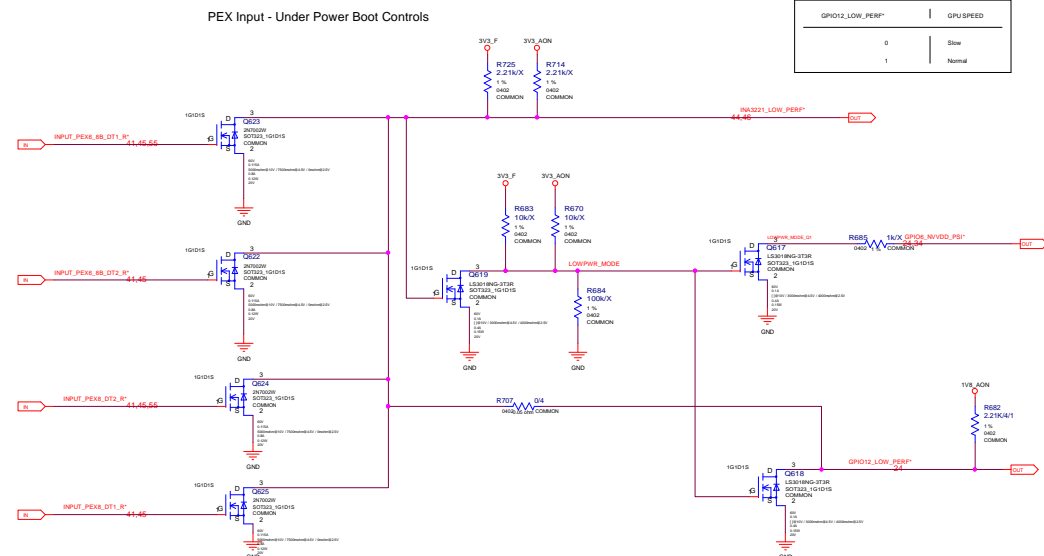
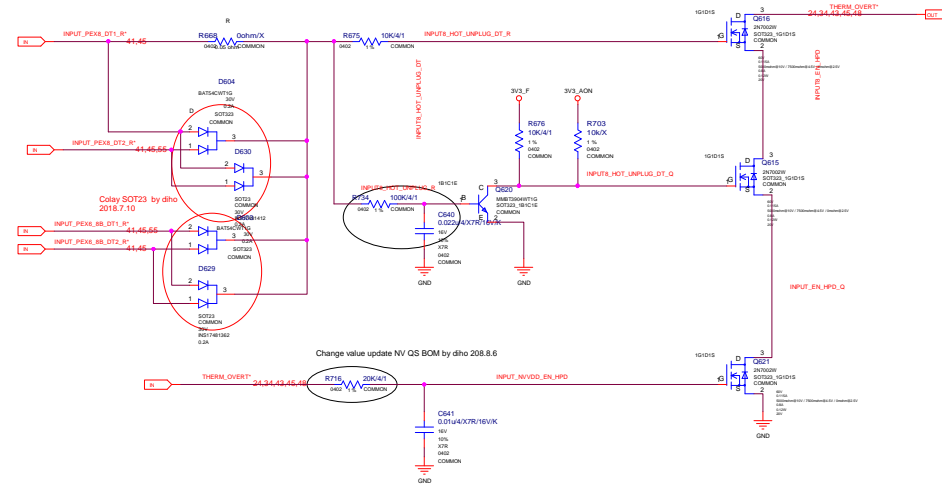
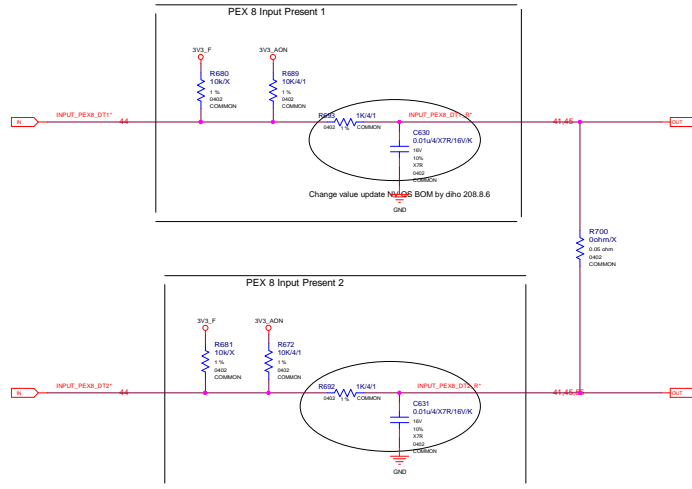
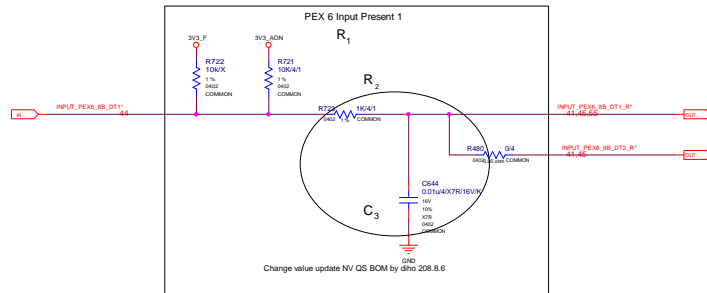


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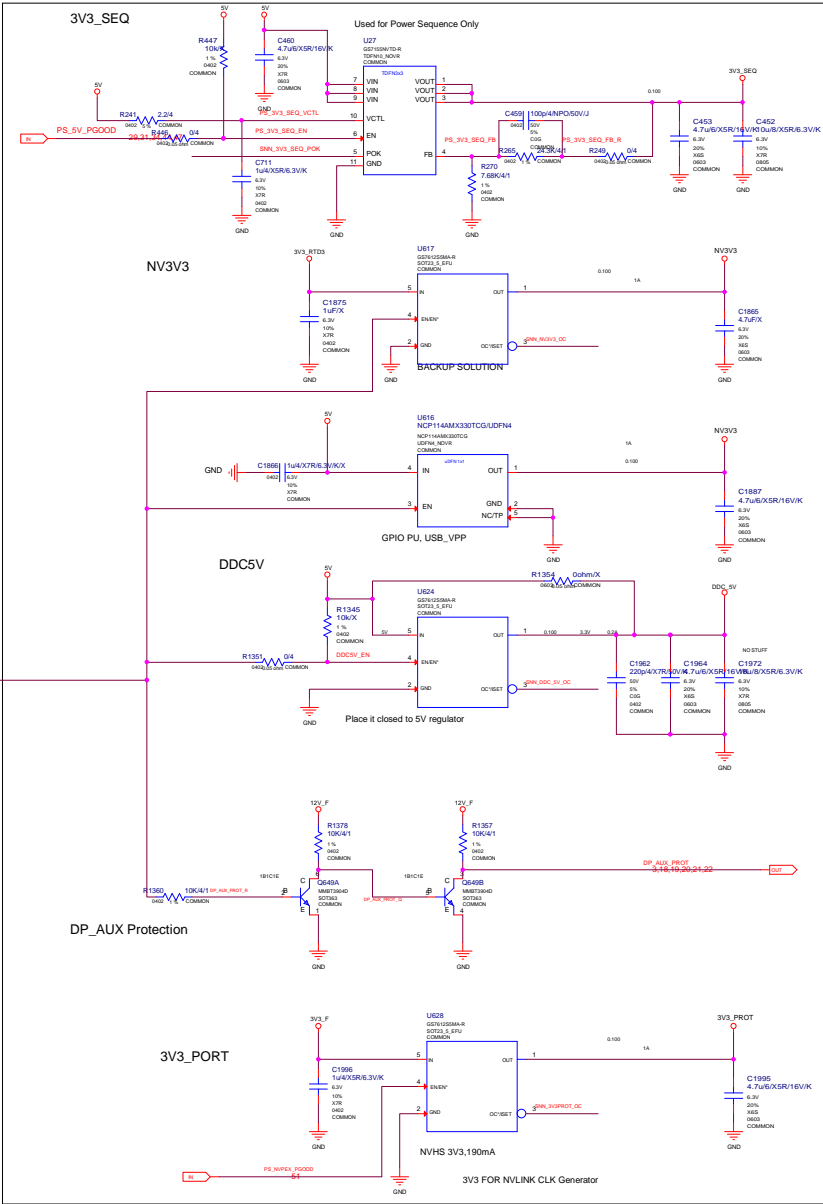
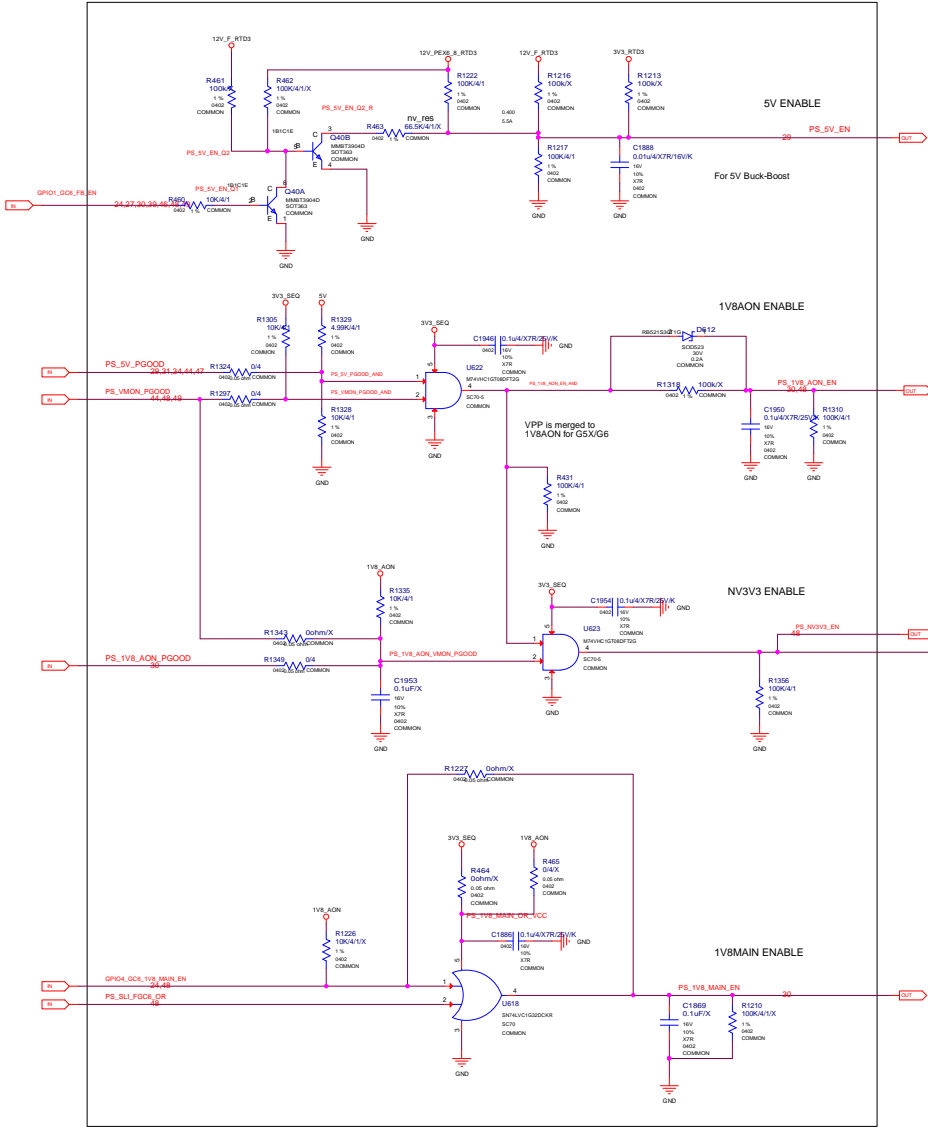
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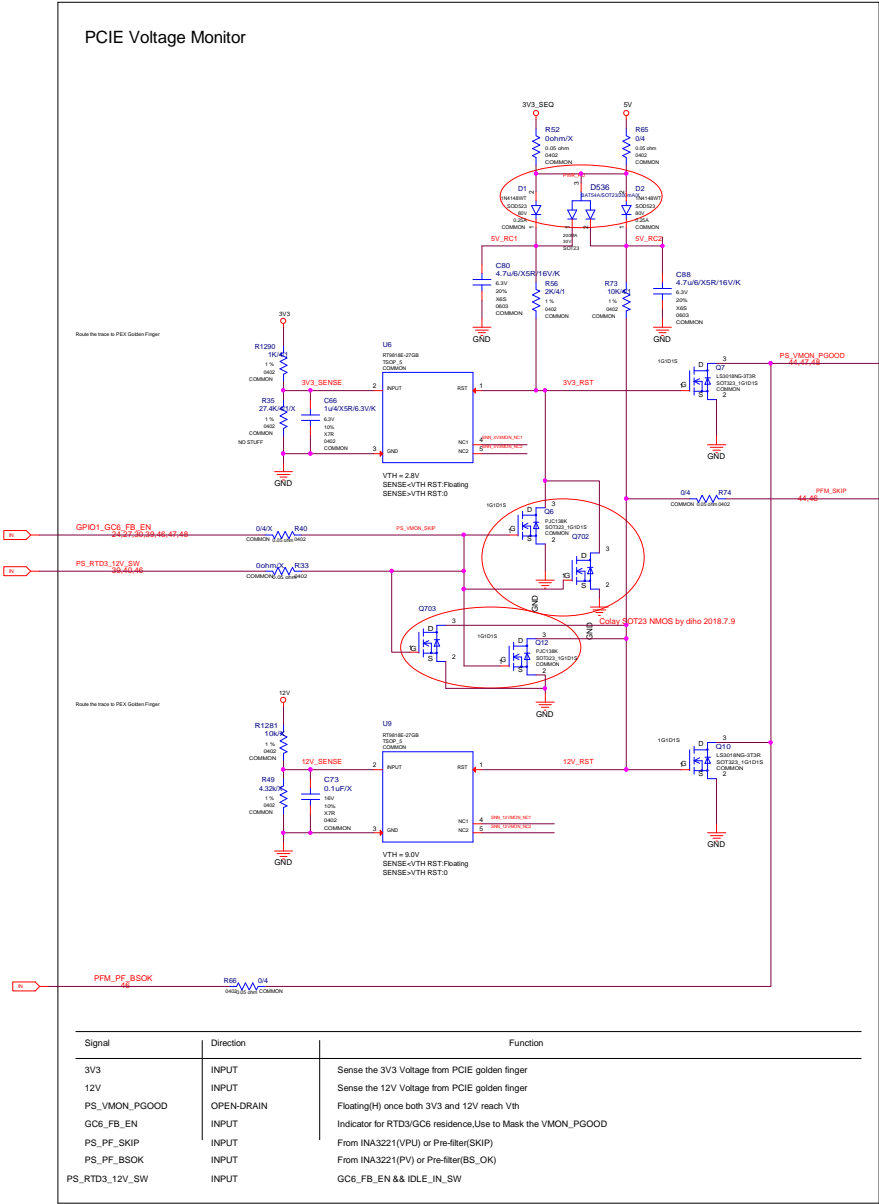




A 2 x 4 auxiliary power connector plug from the power supply unit must not use the 75 W sense coding (Sense1=Open and Sense0=Ground) to avoid end-user confusion.

GPIO12_LOW_PERF*	GPU SPEED
0	Slow
1	Normal





BOM Configuration

OPTIONS	PEX3V3_SENSE	PEX12V_SENSE	OTHER_12V_SENSE
Use Pre-Filter	Pre-Filter NO STUFF U12 NO STUFF Q3.Q5 NO STUFF D15	Pre-Filter NO STUFF U13 NO STUFF Q4	Pre-Filter
Use INA3221	Voltage_Monitor	INA3221 NO STUFF U12 NO STUFF Q4	INA3221
NO INA3221 NO Pre-Filter	Voltage_Monitor	Voltage_Monitor	N/A

Power Supply

INA3221:3V3_SEQ

Pre_Filter(ADC_MUX):3V3(PEX)

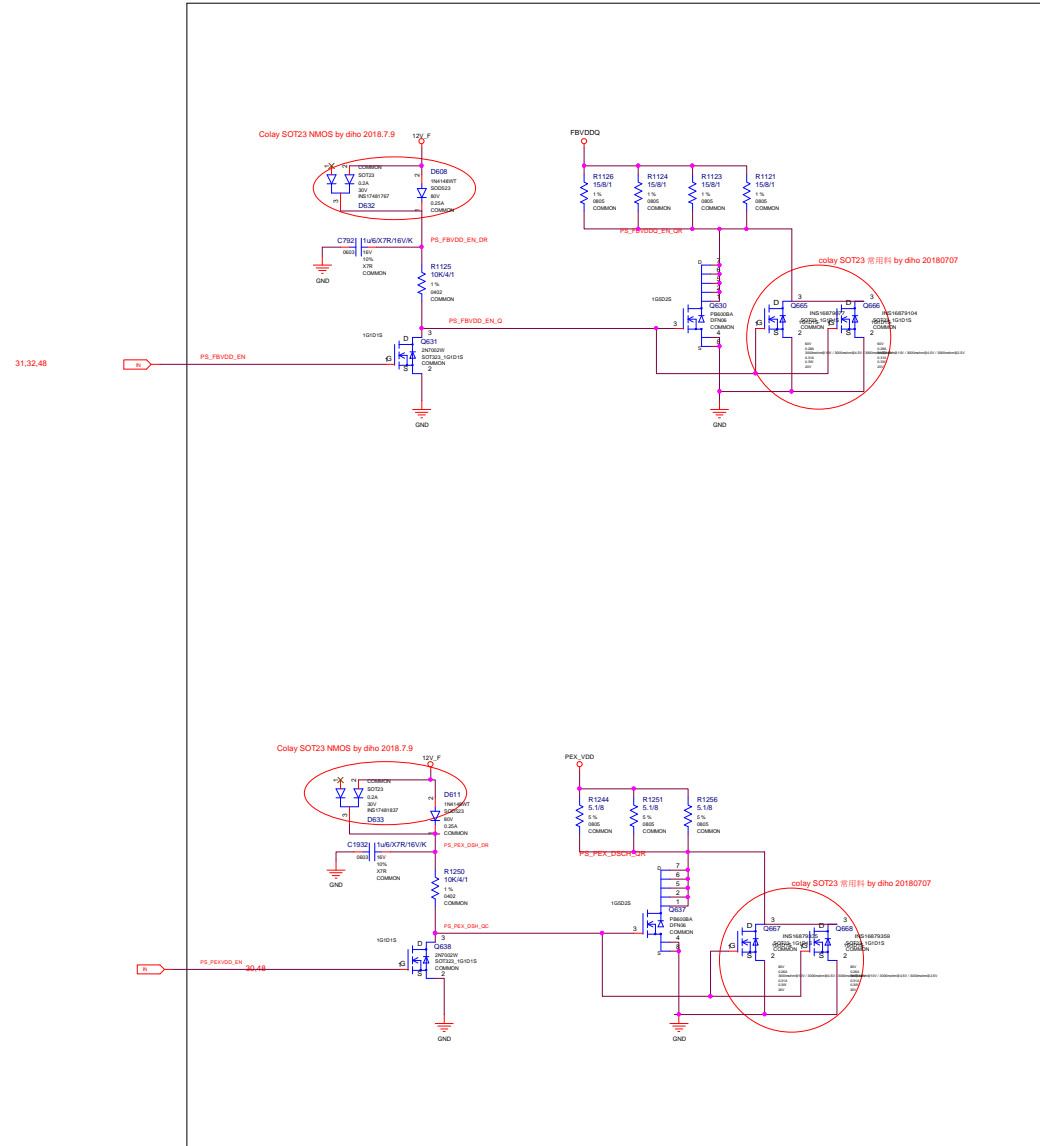
Dual Pre-Filter case:

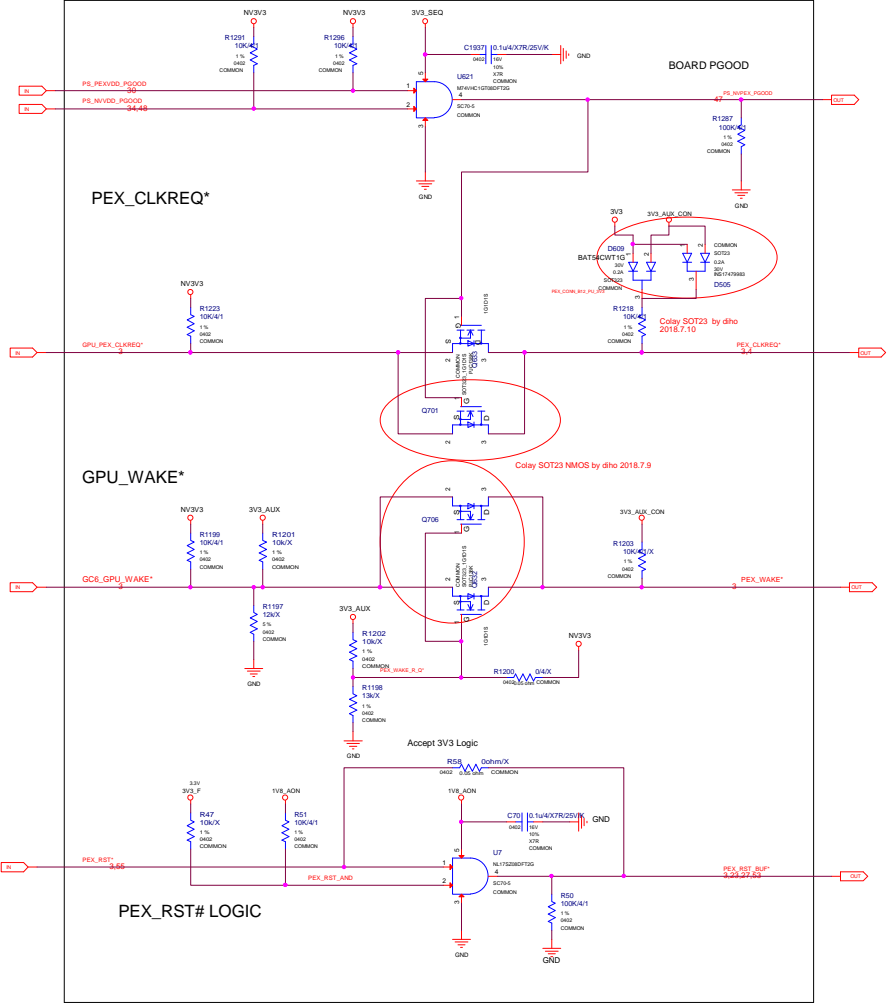
Only use the Primary Pre-Filter to sense 3V3PEX

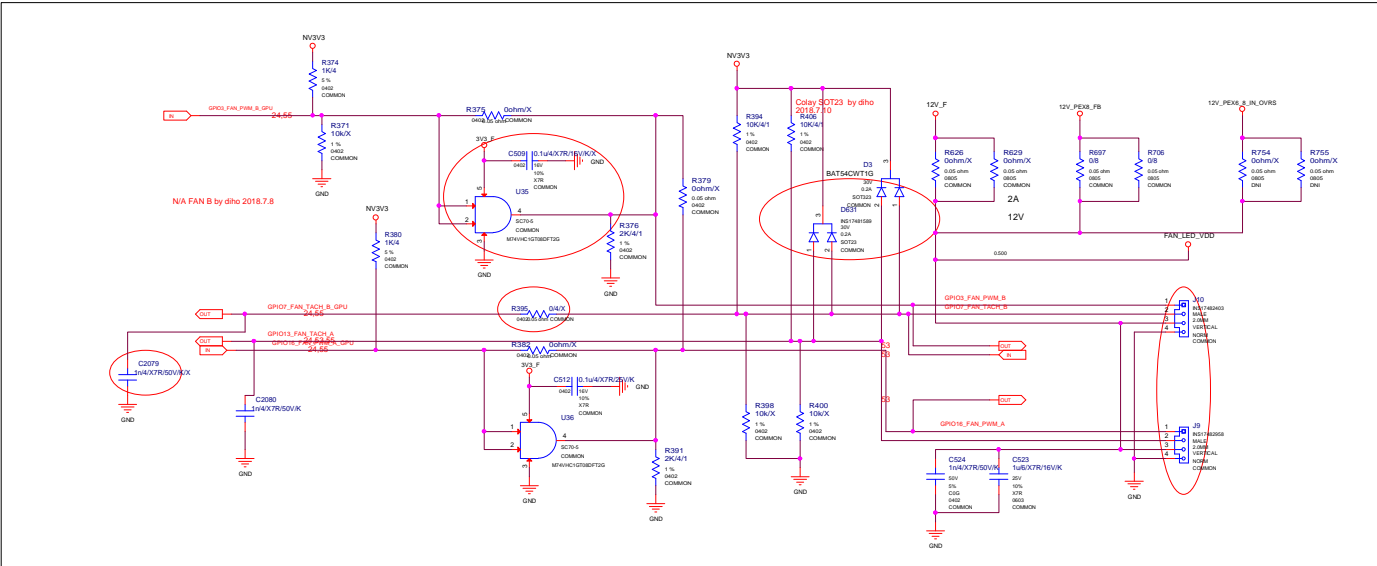
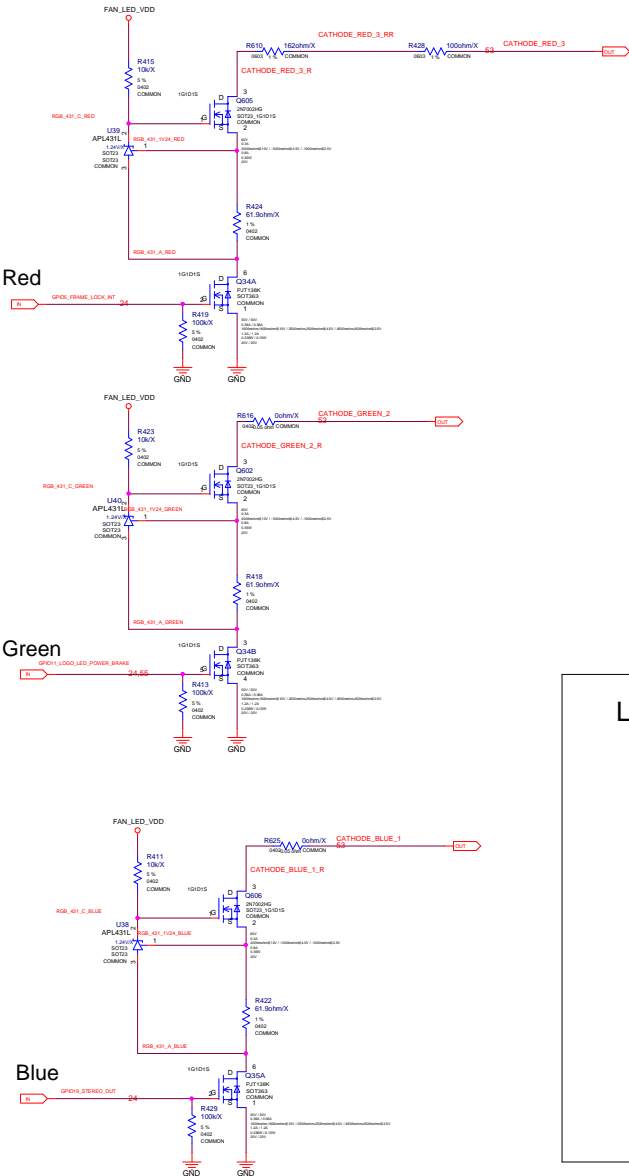
and All Input 12Vs

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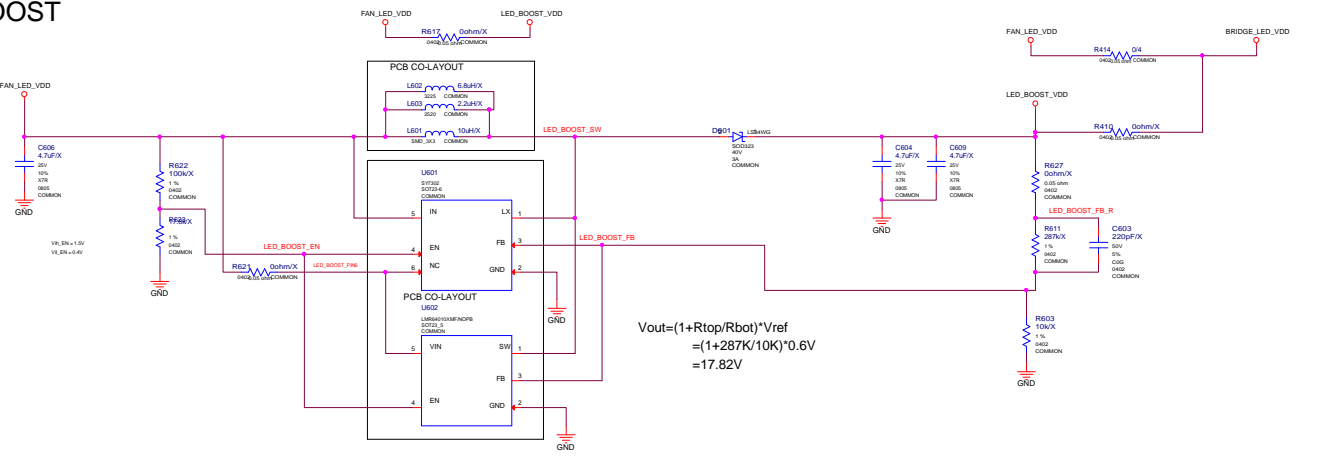
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LED BOOST



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