

PG190-A02

GA104/GA106 GB5256

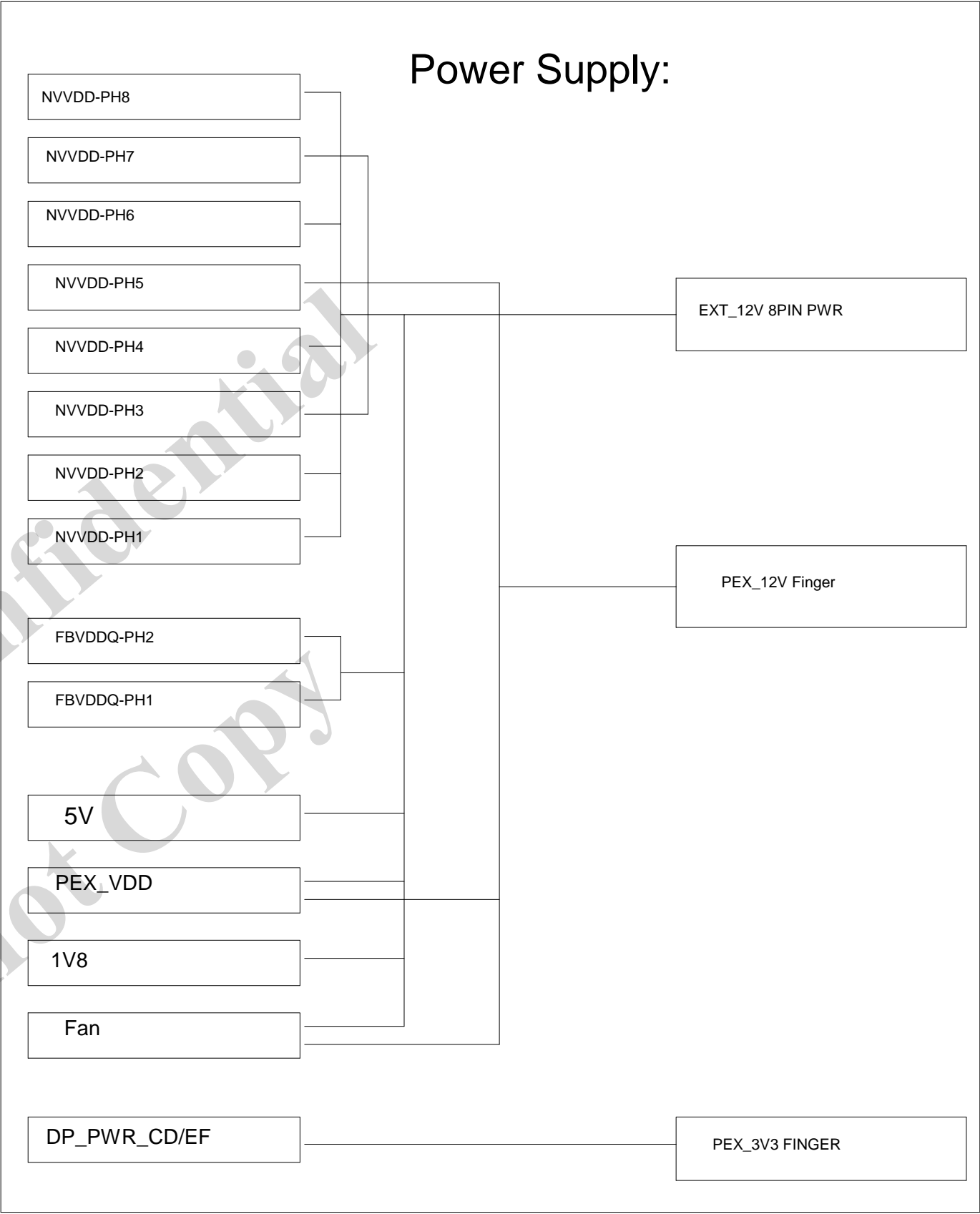
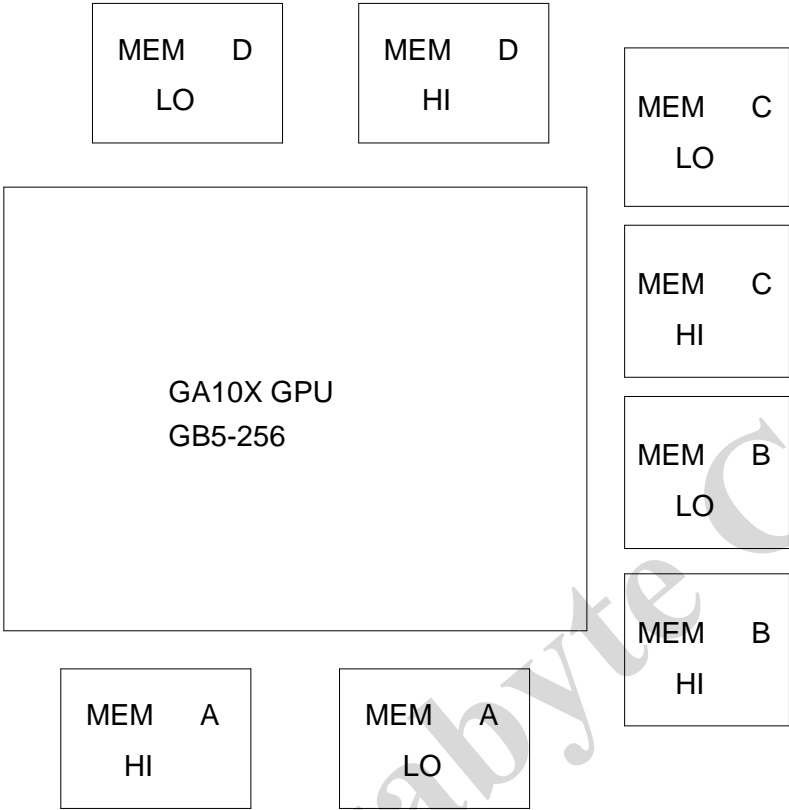
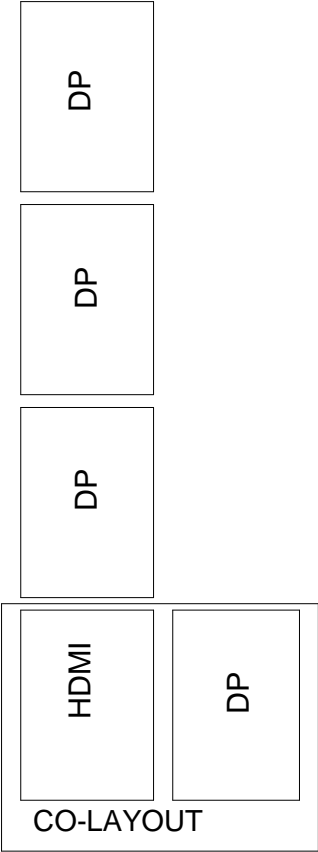
DP + DP + DP + HDMI/DP

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ASSEMBLY
PAGE DETAIL

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BLOCK DIAGRAM

GIGABYTE			
Title PCIE			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
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<p>ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.</p>		<p>express</p>
<p>Title</p>	<p>PCIE</p>	<p>Rev</p>
<p>Size</p>	<p>Document Number</p>	<p>Rev</p>

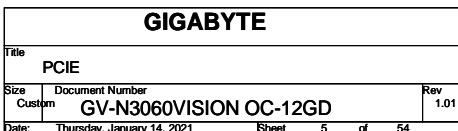


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ASSEMBLY
PAGE DETAIL

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PCIe GEN4 RC Termination

GIGABYTE			
Title PCIE			
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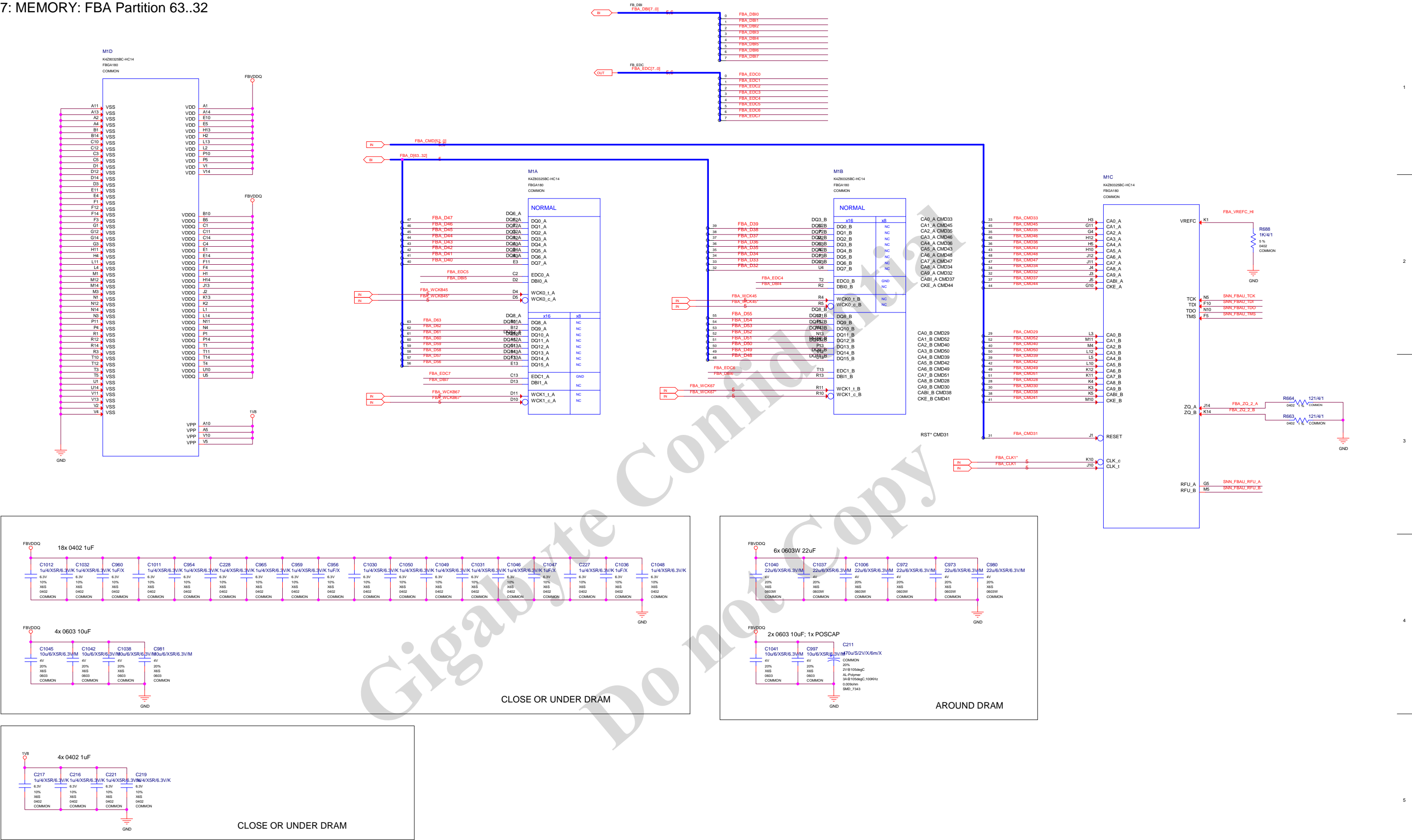
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2

3

4

5

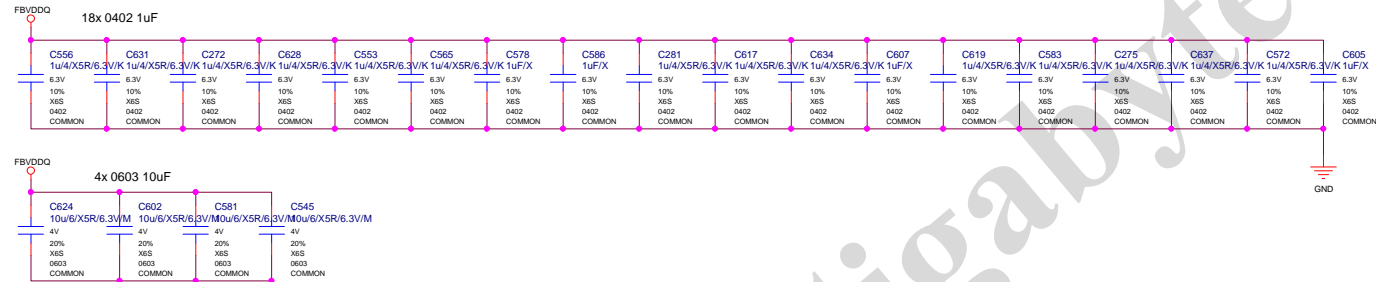


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GIGABYTE			
Title			
PCIE			
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4x 0402 1uF

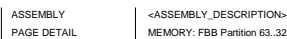
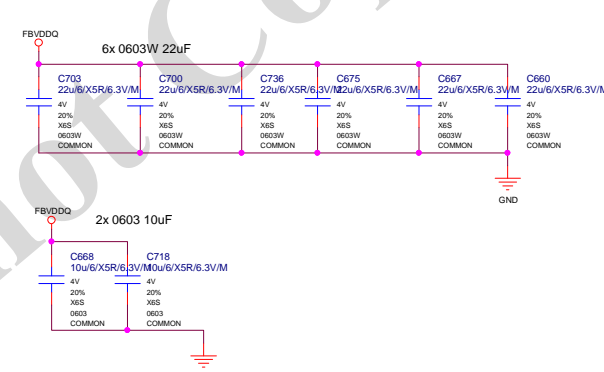
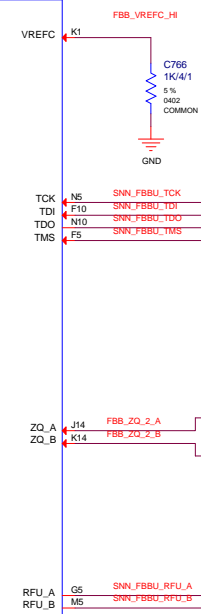
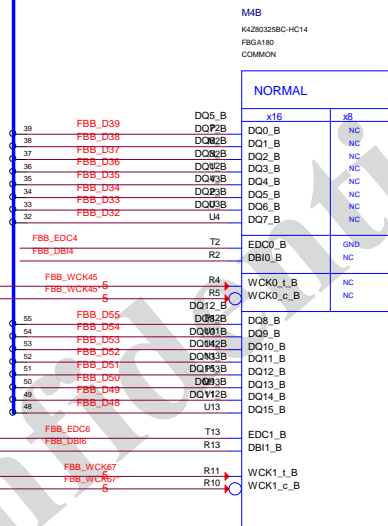
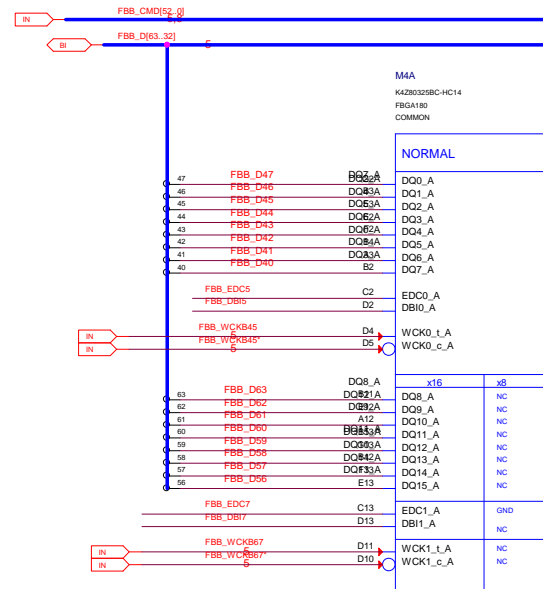
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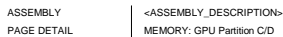
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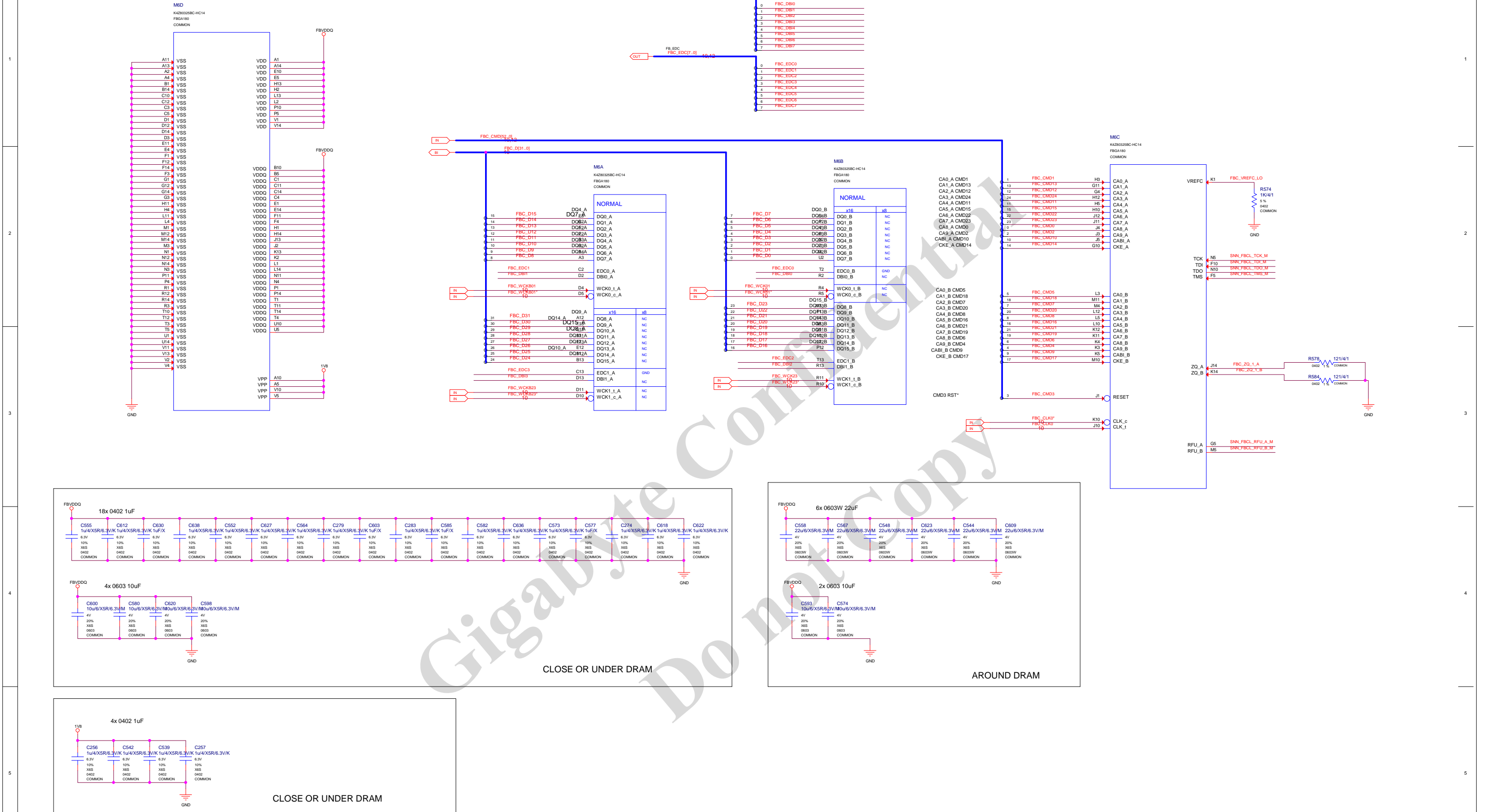
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C258 1u4/X5R/6.3V/K 10% XES 0402 COMMON

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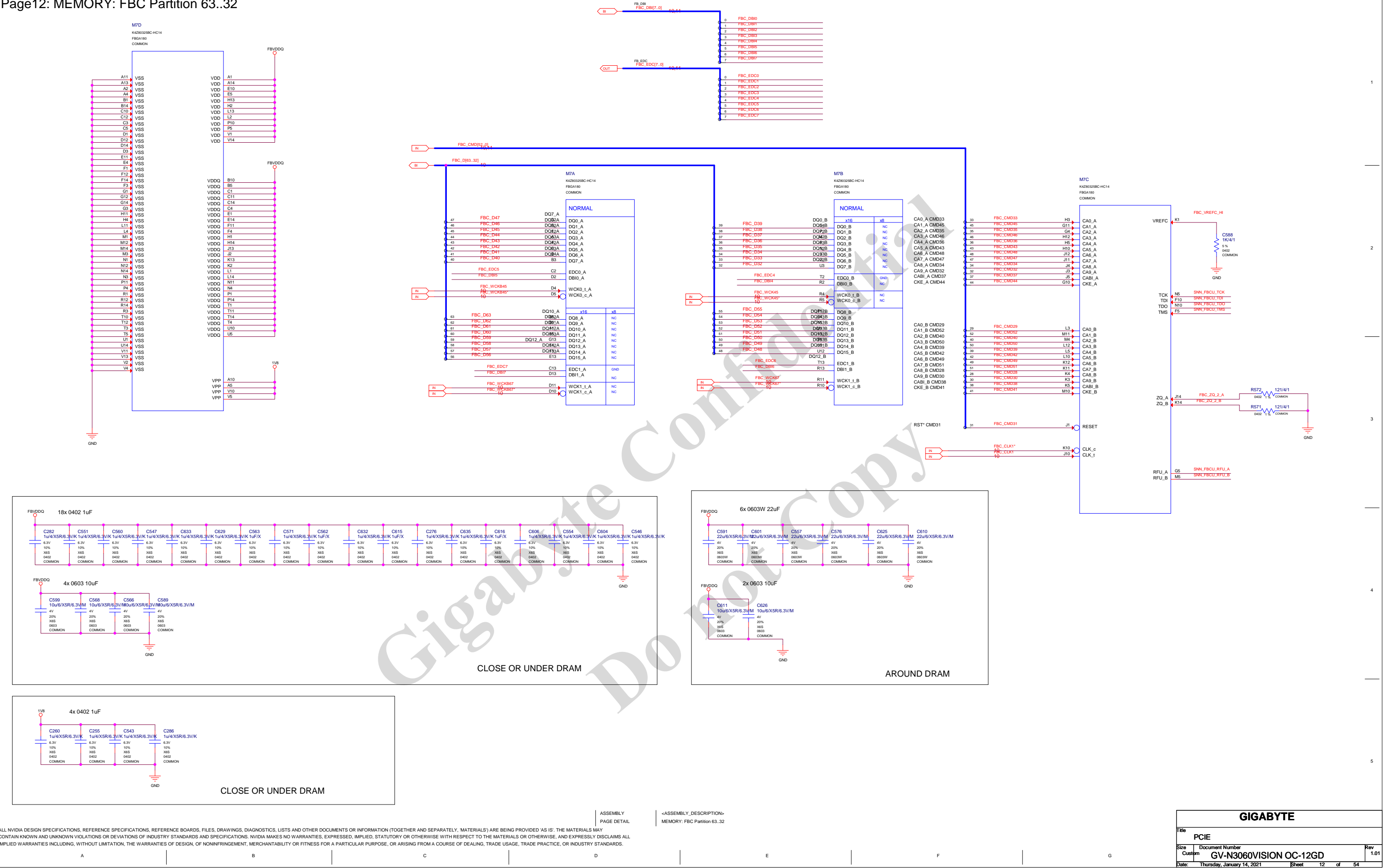


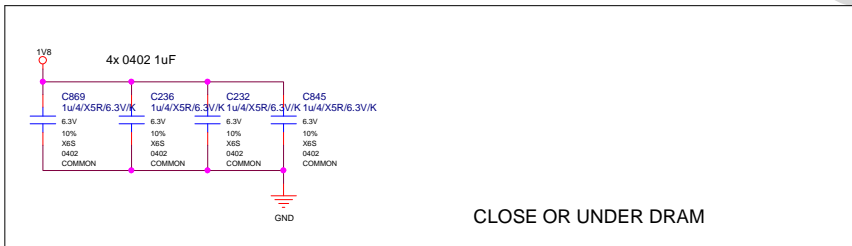
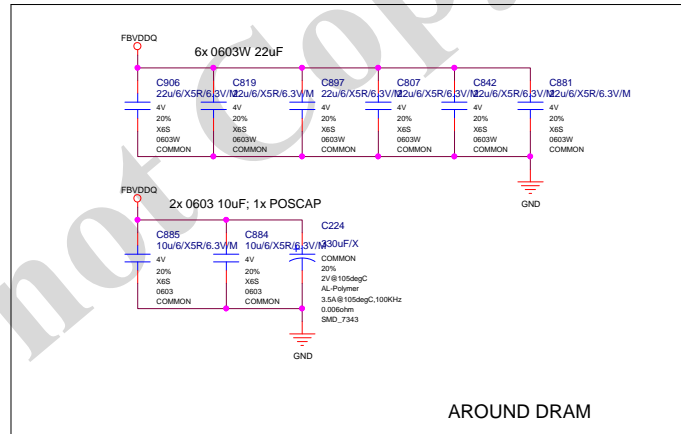
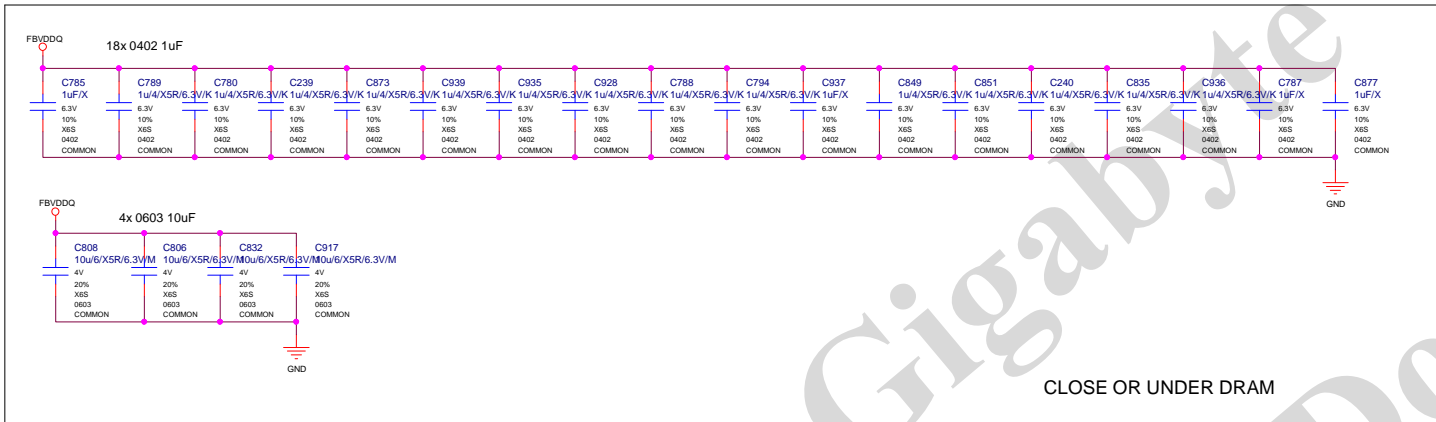
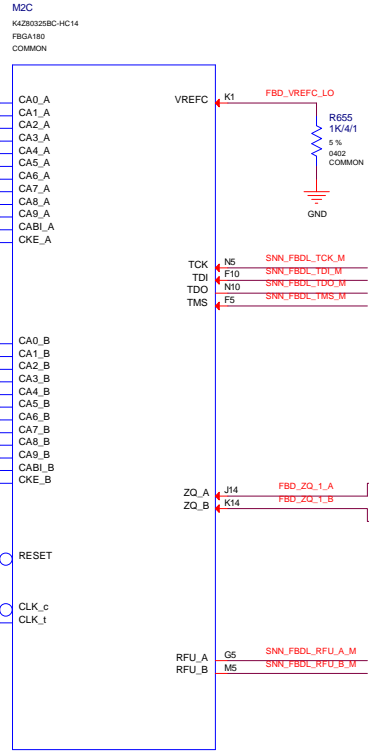
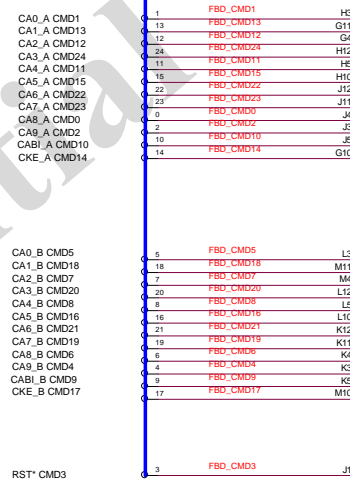
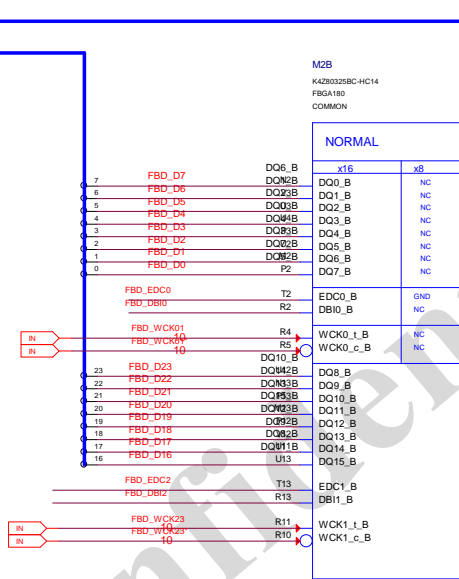
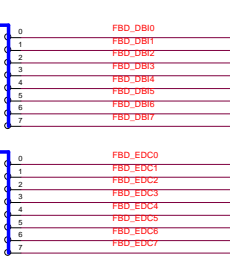
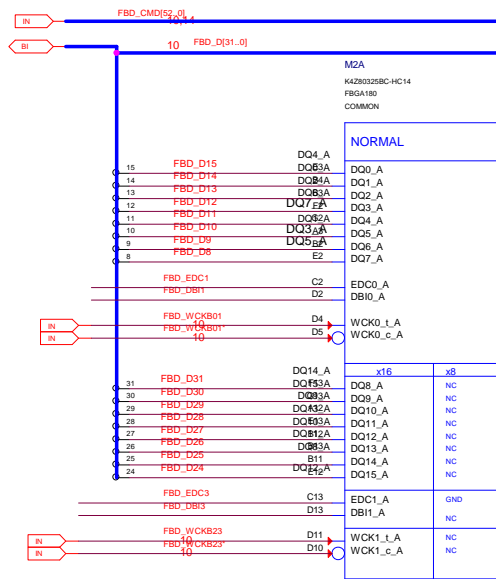
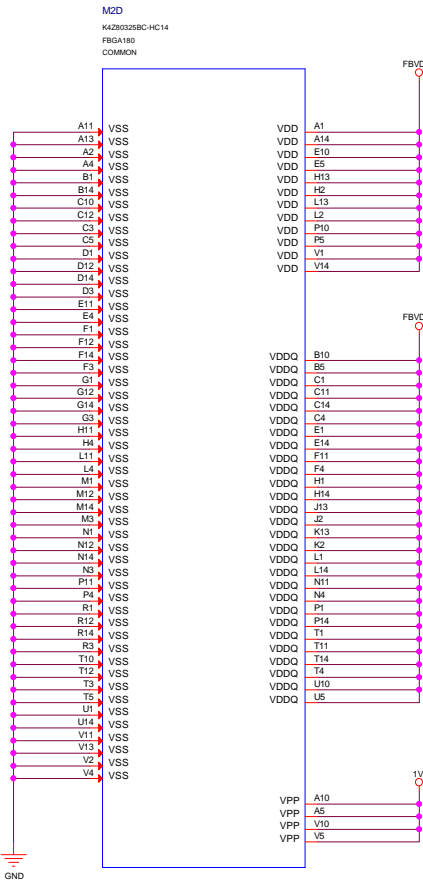
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Title PCIE			
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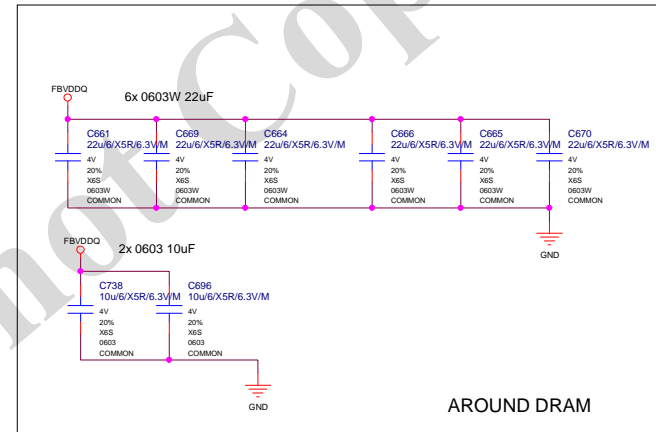


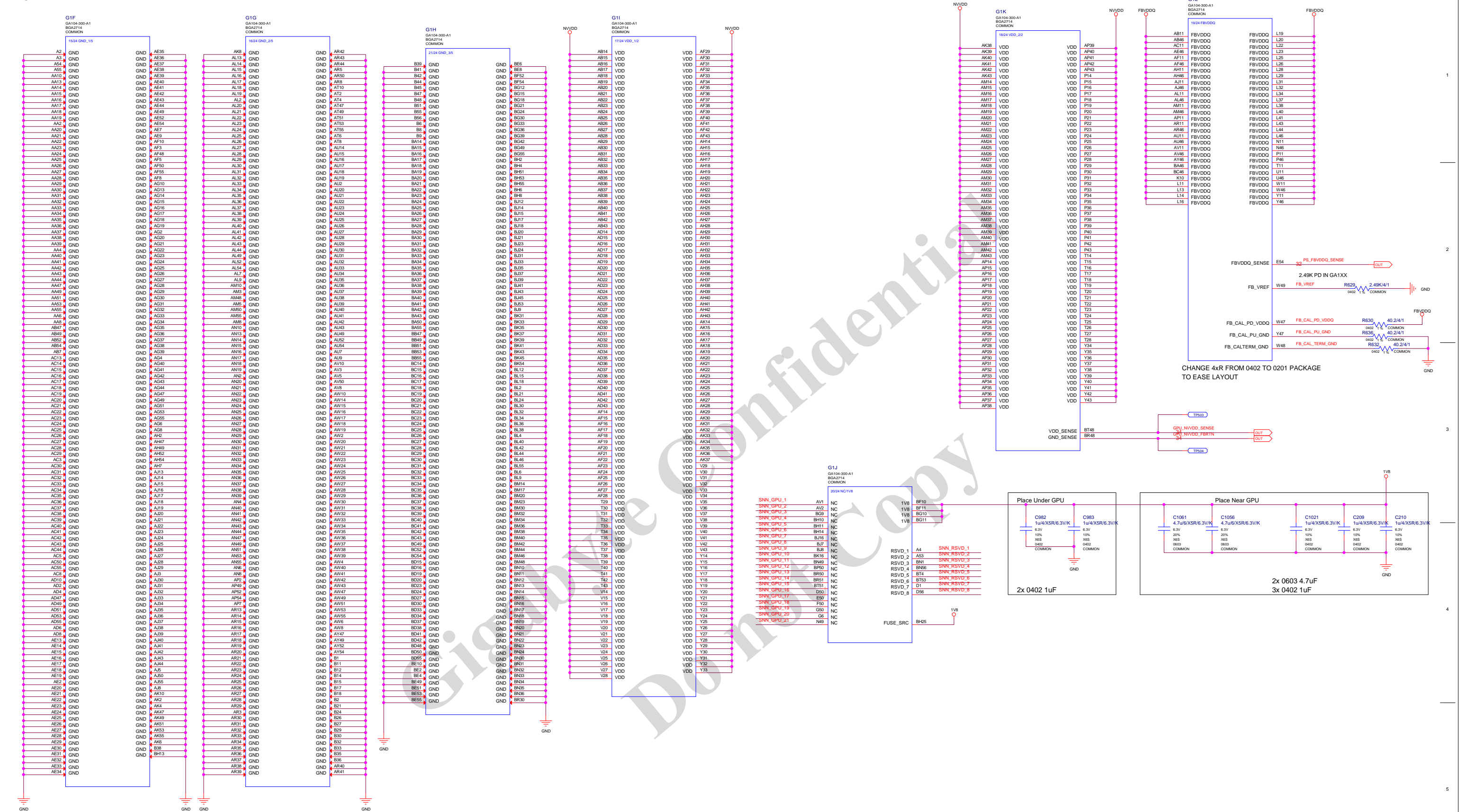
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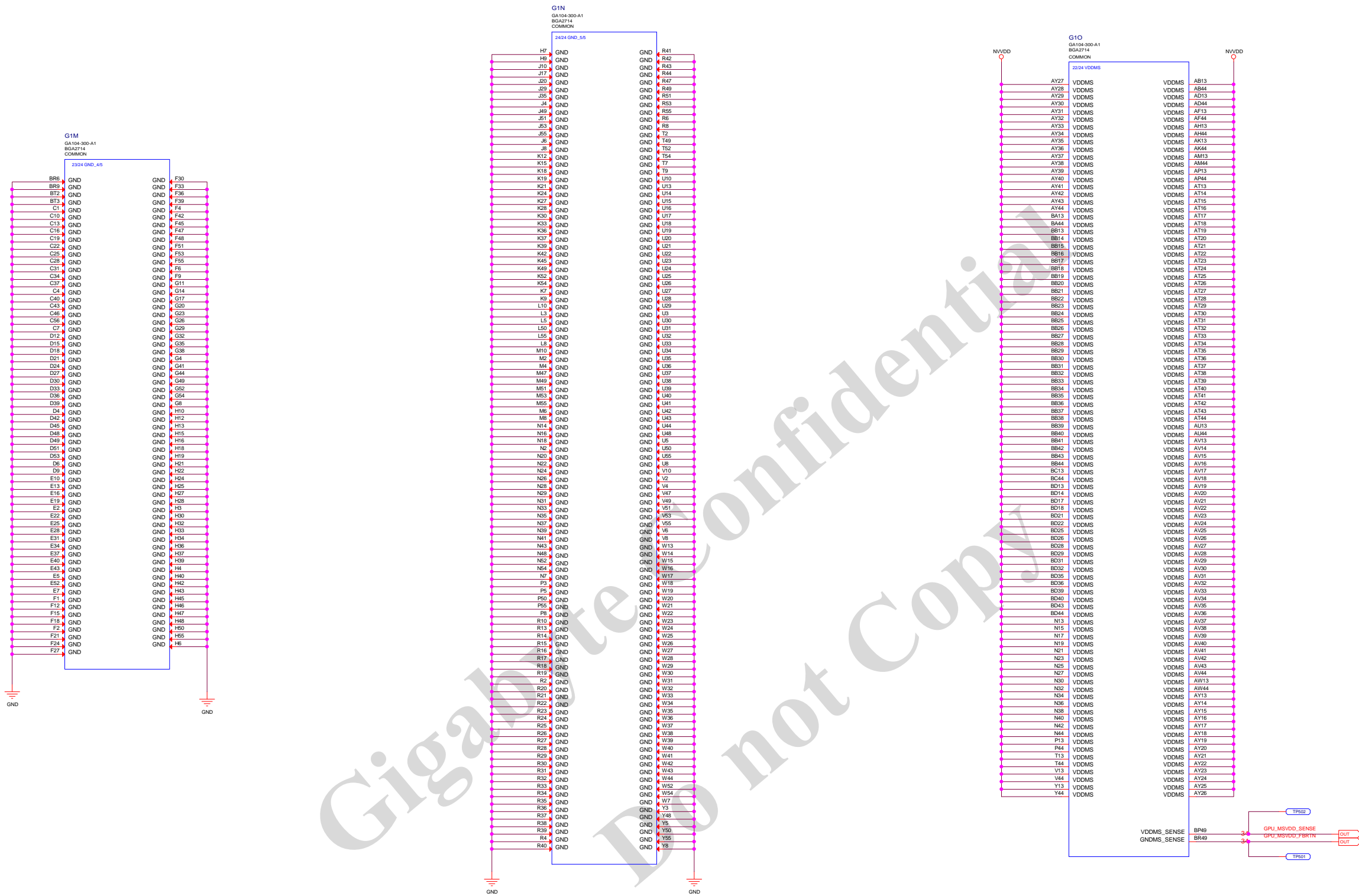
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Size	Custom	Document Number	Rev
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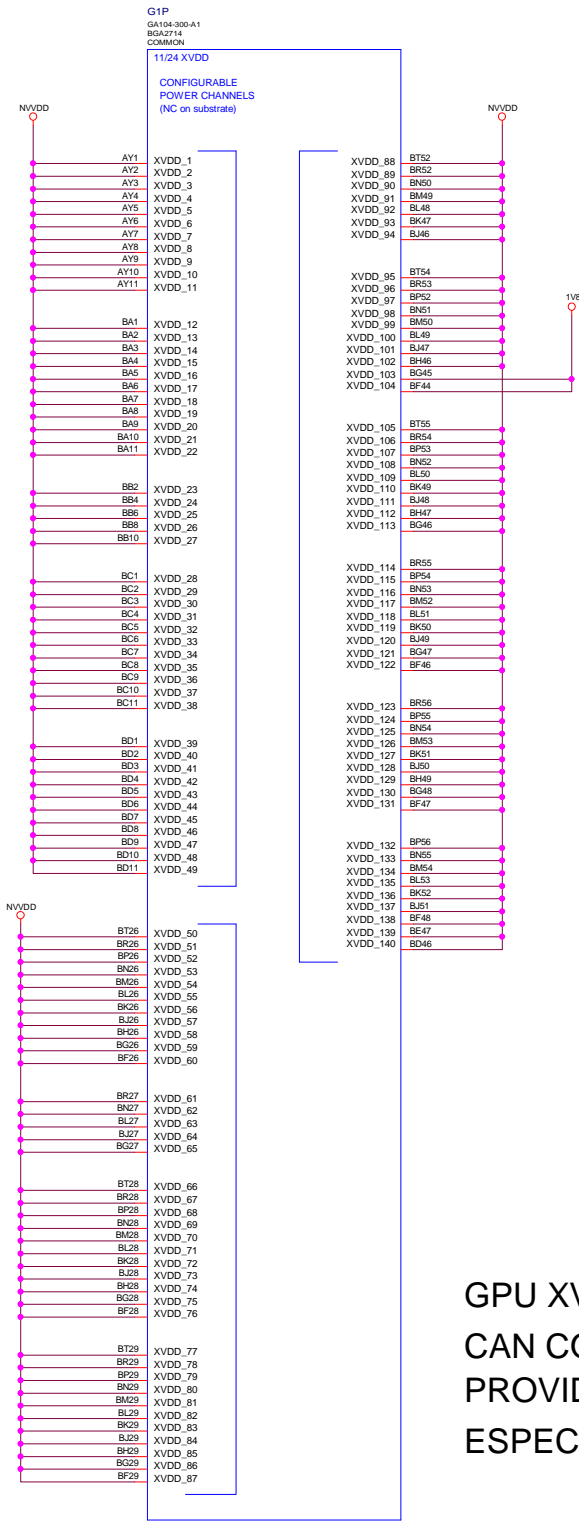




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ASSEMBLY
PAGE DETAIL
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GPU PWR and GND 2

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Title PCI-E			
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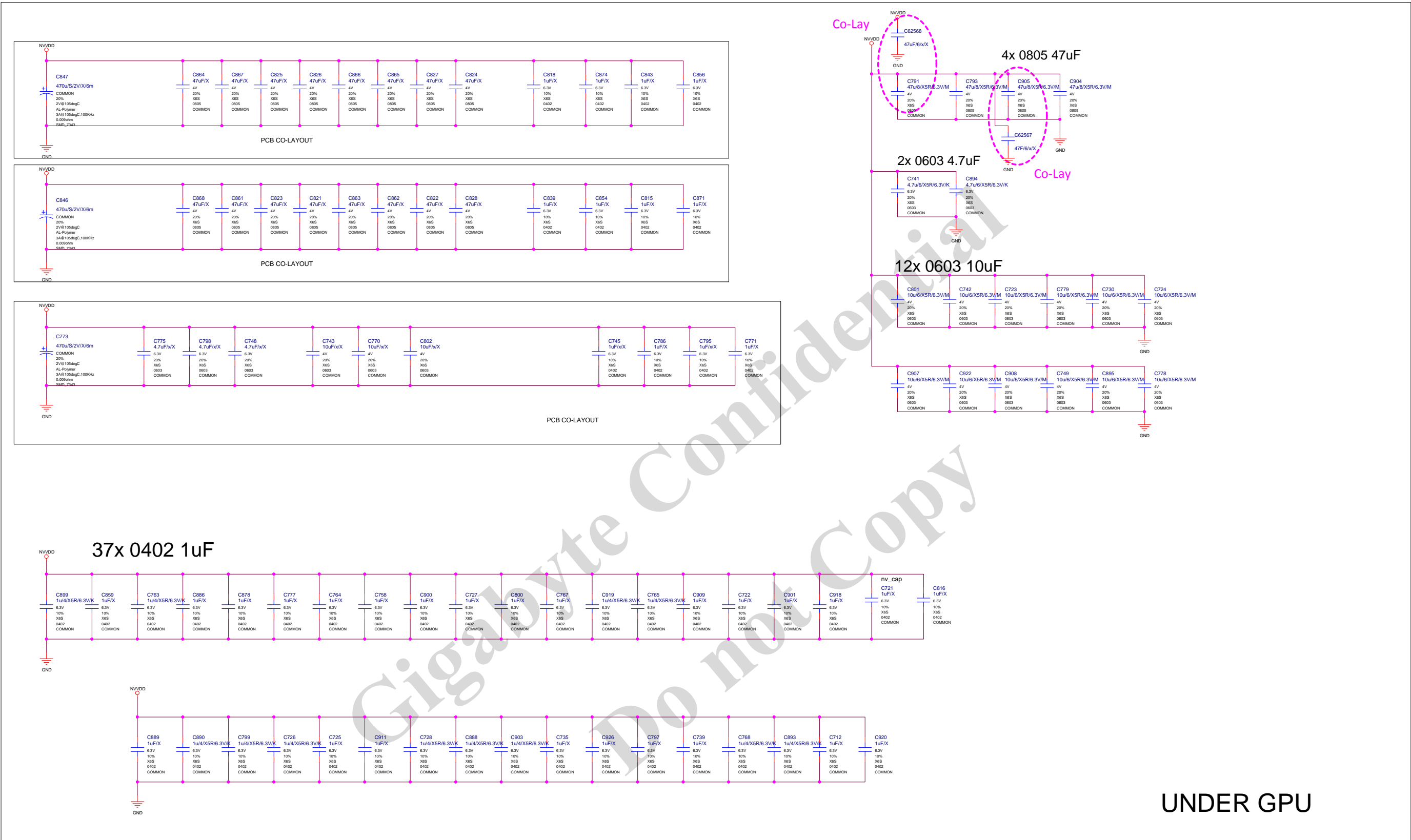
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ASSEMBLY
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GPU XVDD

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Title PCIE			
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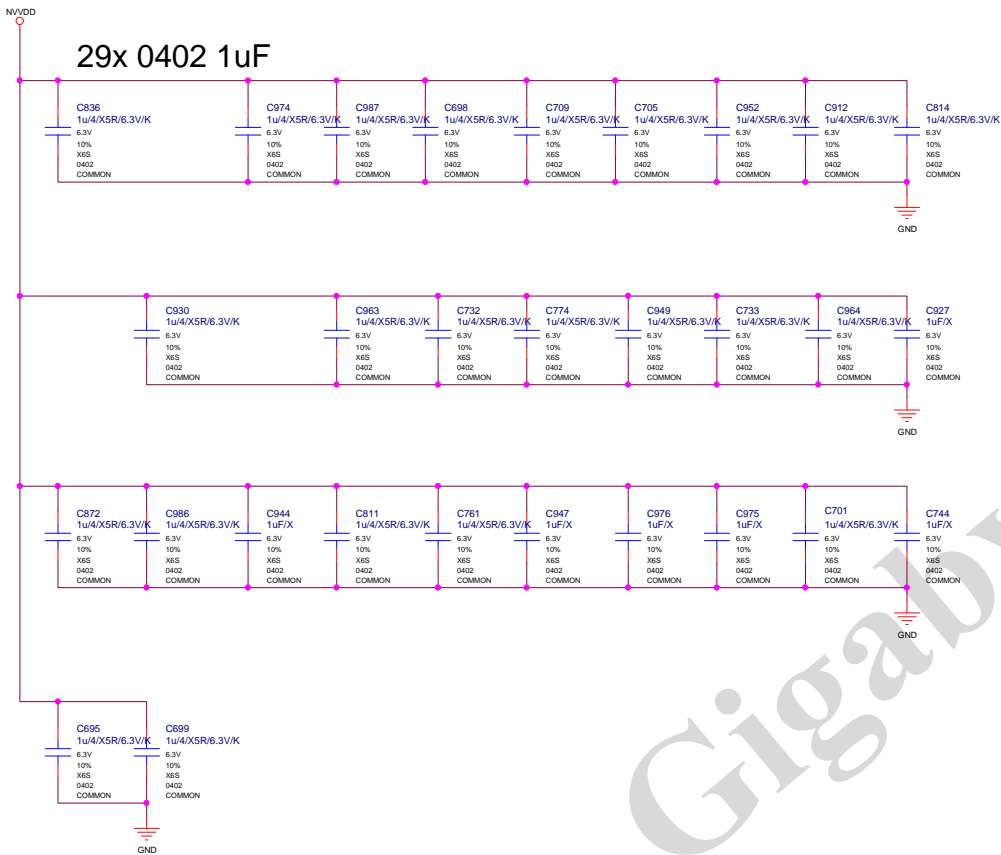
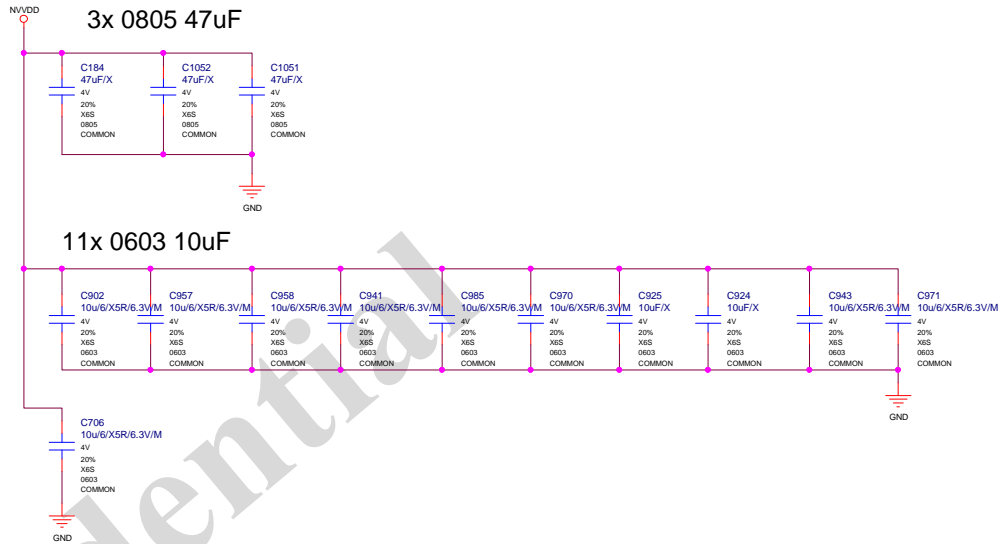
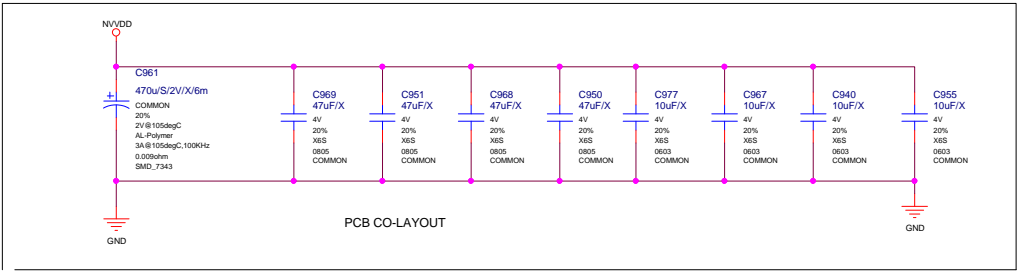


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GPU DECOUPLING NVVDD

GIGABYTE			
Title PCI-E			
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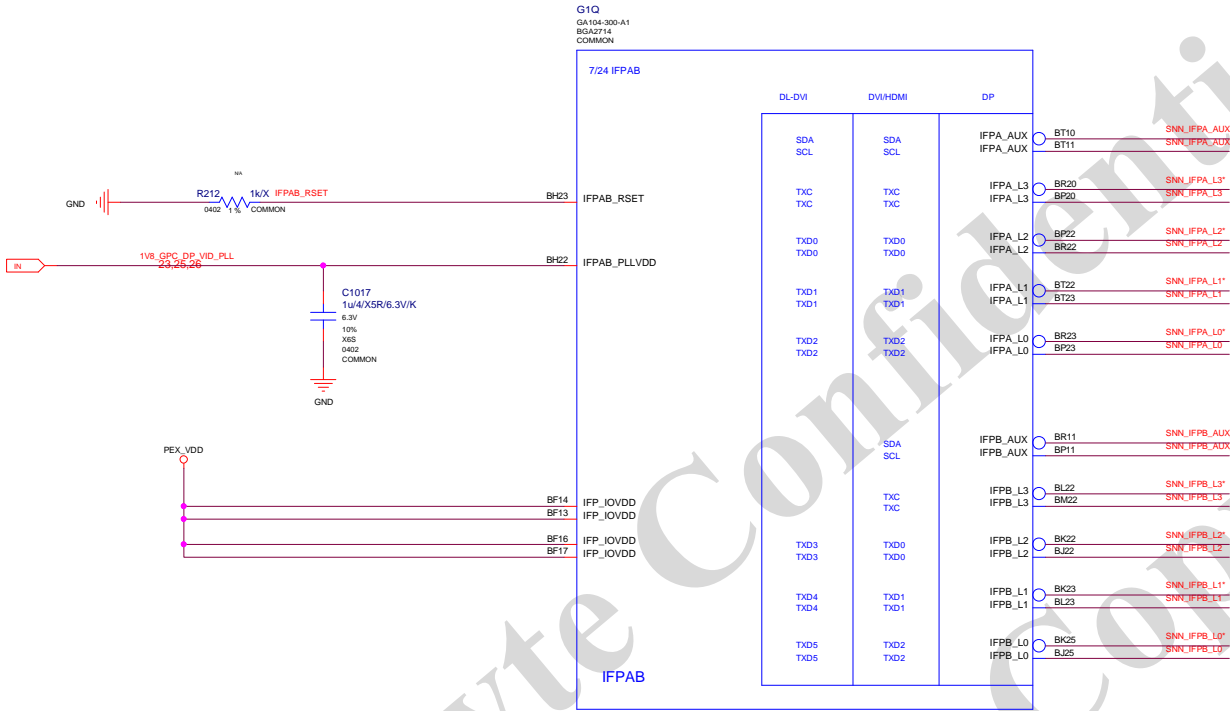
UNDER GPU

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Title PCIE			
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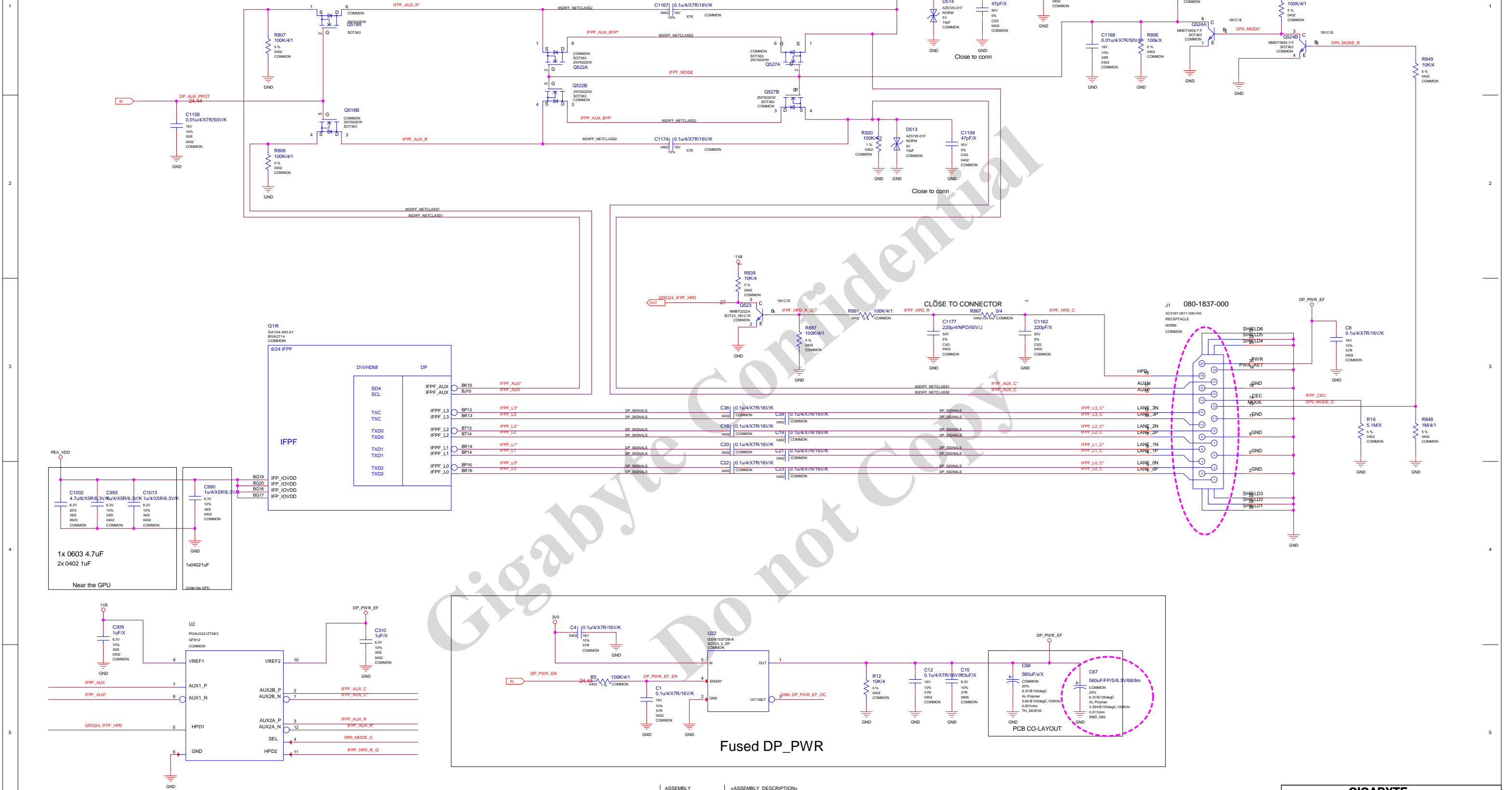


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ASSEMBLY
PAGE DETAIL

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IFPAB DVI-D-DL

GIGABYTE			
Title PCIE			
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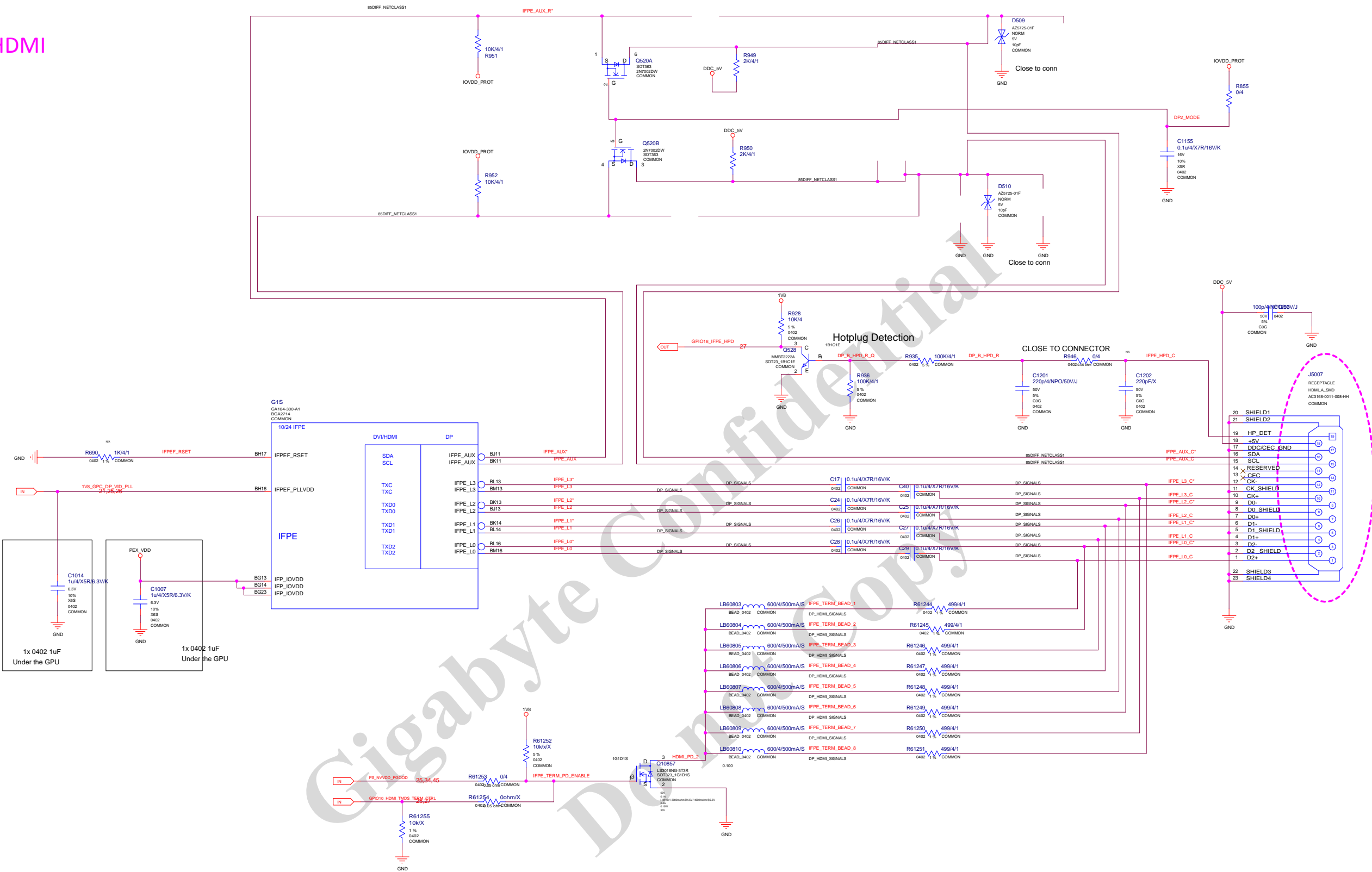


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ASSEMBLY
PAGE DETAIL
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IFPF DP

GIGABYTE			
Title PCI-E			
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Change to HDMI

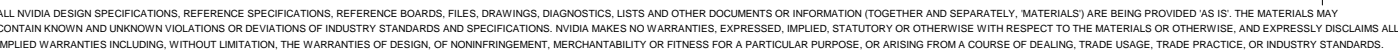


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ASSEMBLY PAGE DETAIL
-ASSEMBLY DESCRIPTION-
IFPE DP

GIGABYTE			
Title	PCIE		
Size	Custom	Document Number	GV-N3060VISION OC-12GD
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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

RAMCFG[4:0]	DENSITY	WIDTH	VENDOR	DIE
00000	8Gb	256-bit	Samsung	C
00001	8Gb	256-bit	Micron	A
00010	8Gb	256-bit	Hynix	M
00011	8Gb	256-bit	Samsung	C
00100	8Gb	256-bit	Micron	A
00101	8Gb	256-bit	Hynix	M
00110	16Gb	256-bit	Samsung	M

ROM_SO	ROM_SI	ROM_SCLK	SMARTFAN[2:0].FS_OVERT	1:ENABLE 0:DISABLE
H	H	H	4'd7	FS_OVERT ENABLE
L	M	L	4'd9	FS_OVERT DISABLE

STRAP5	STRAP4	STRAP3	SMB_ALT_ADDR	DEVID_SEL	PCIE_CFG	VGA_DEVICE
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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

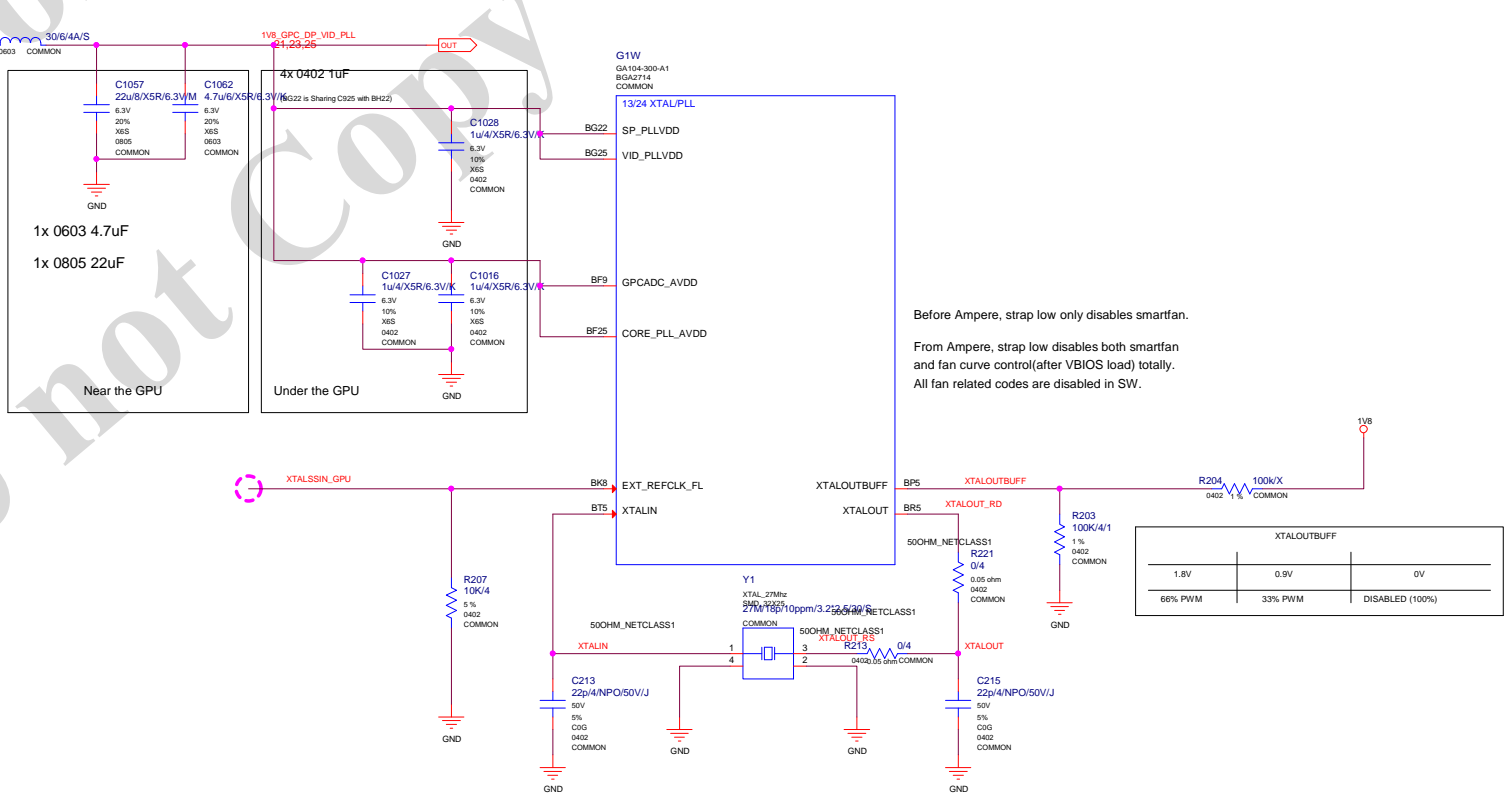
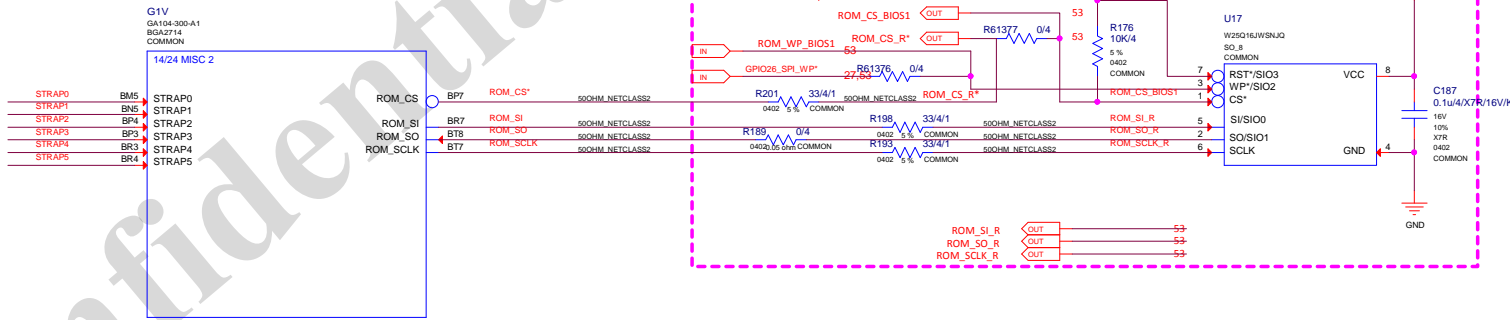
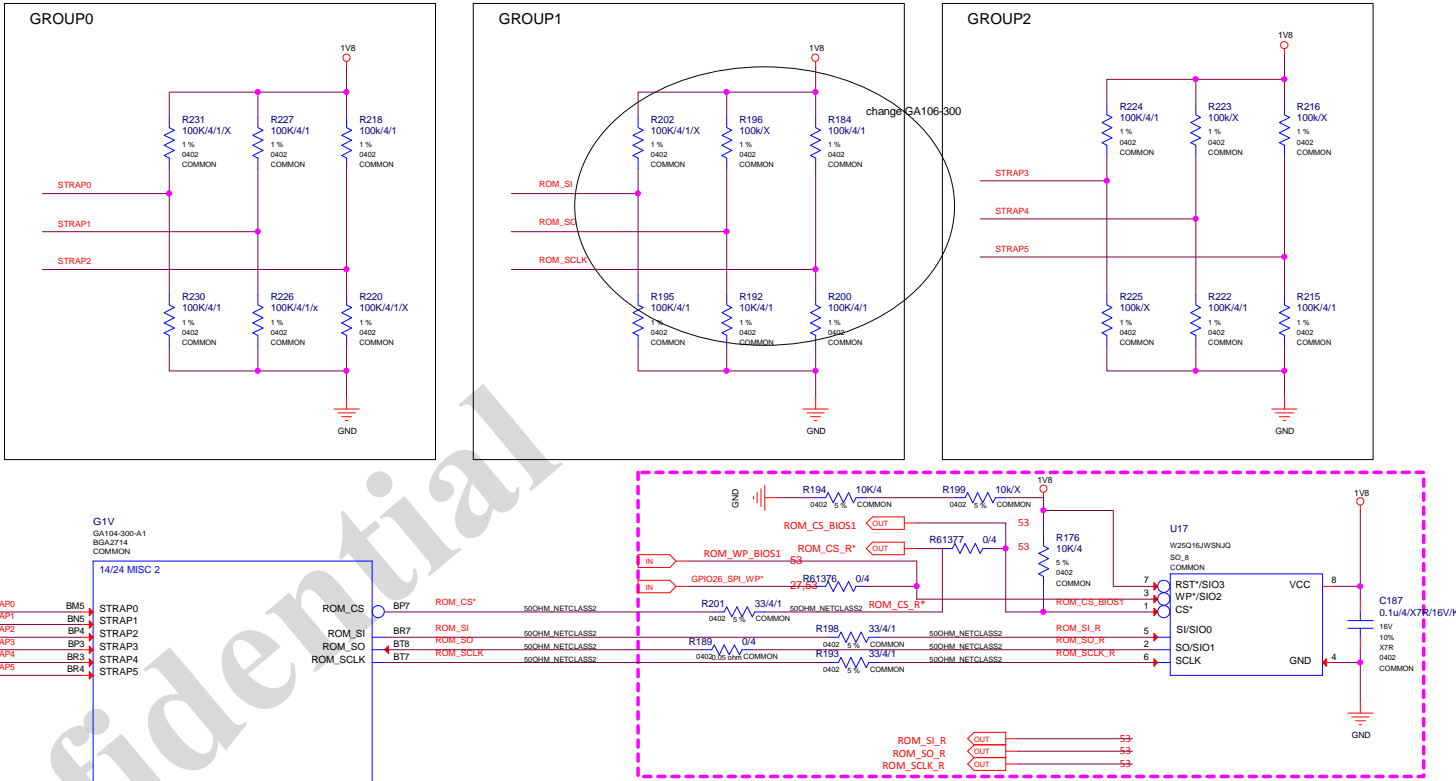
H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGNAL

1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE



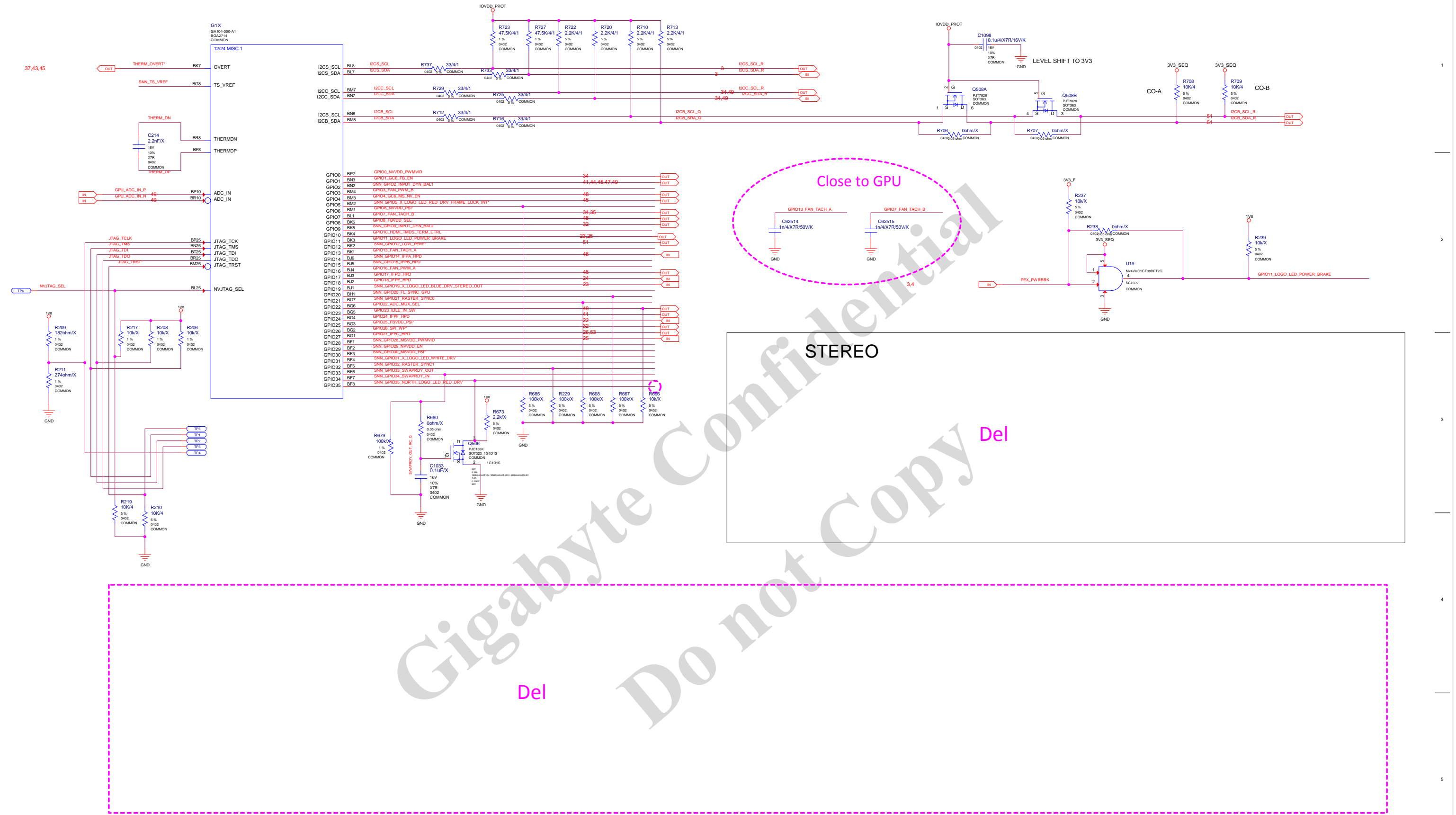
Before Ampere, strap low only disables smartfan.
From Ampere, strap low disables both smartfan
and fan curve control(after VBIOS load) totally.
All fan related codes are disabled in SW.

XTALOUTBUFF		
1.8V	0.9V	0V
66% PWM	33% PWM	DISABLED (100%)

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ASSEMBLY PAGE DETAIL
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MISC: ROM, XTAL, STRAPS

GIGABYTE		
Title	PCIE	
Size	Document Number	Rev
Custom	GV-N3060VISION OC-12GD	1.01
Date:	Thursday, January 14, 2021	Sheet 26 of 54



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ASSEMBLY PAGE DETAIL
ASSEMBLY DESCRIPTION:
MISC2: JTAG,GPIO,ADC,I2C,OVERT

GIGABYTE			
Title	PCIE		
Size	Custom	Document Number	GV-N3060VISION OC-12GD
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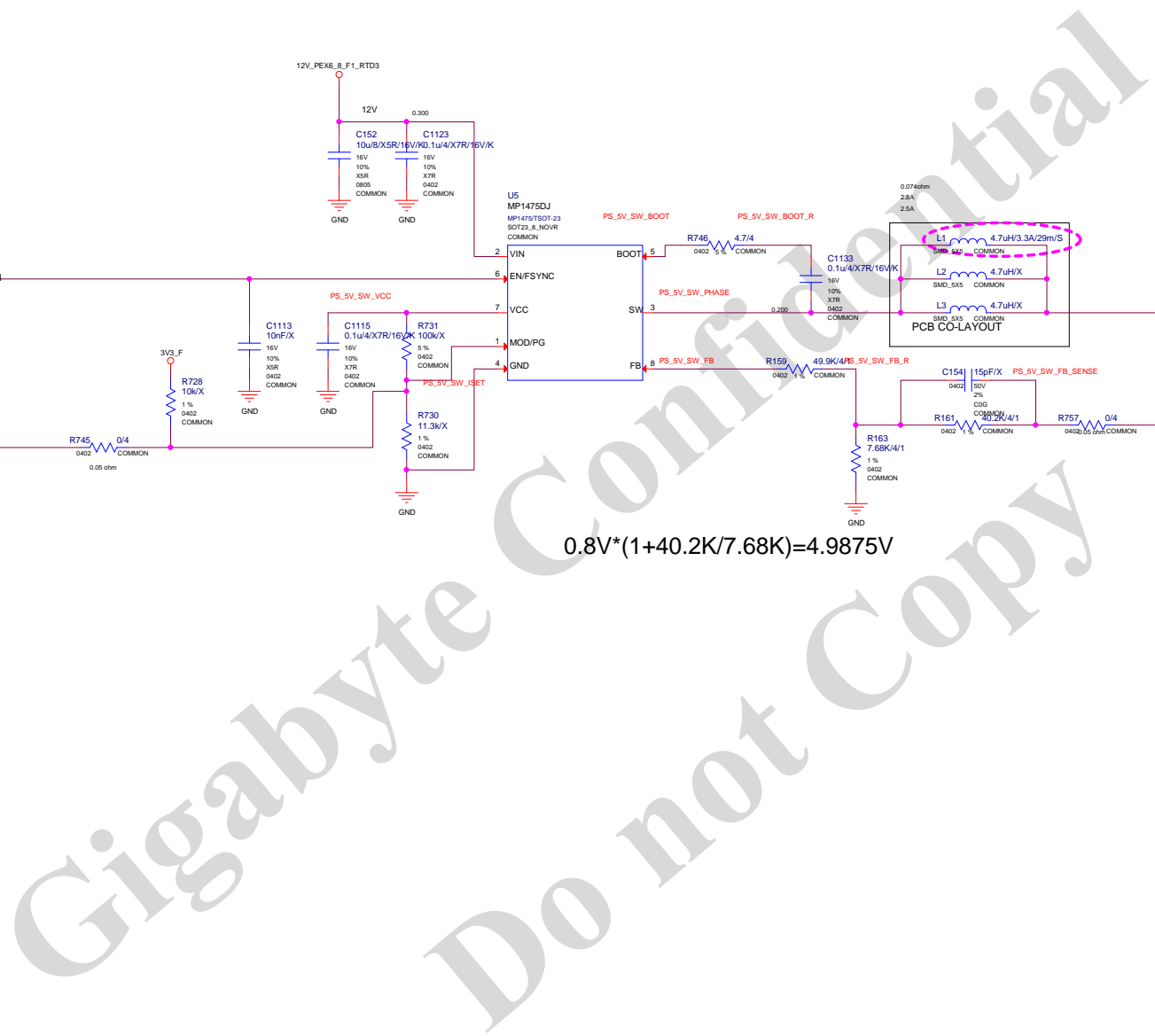
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PAGE DETAIL

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TitlePCIE			
Size	Document Number		Rev
Custom	GV-N3060VISION OC-12GD		1.01
Date:	Thursday, January 14, 2021	Sheet 28 of 54	

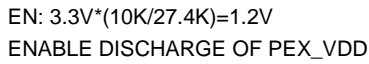


GIGABYTE			
Title PCIE			
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$$0.8V^*(1+40.2K/7.68K)=4.9875V$$

A	B	C	D	E	F	G
					Custom	GV-N3060VISION

GIGABYTE			
Title PCIE			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
Date: Thursday, January 14, 2021	Sheet	30	of 54

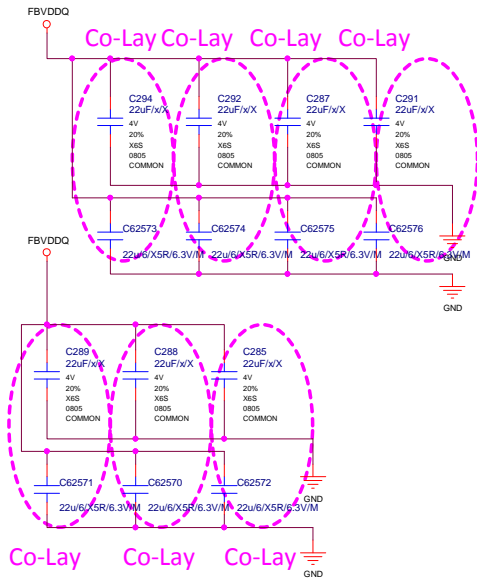
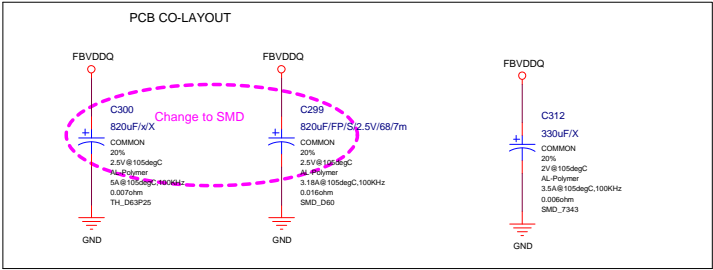
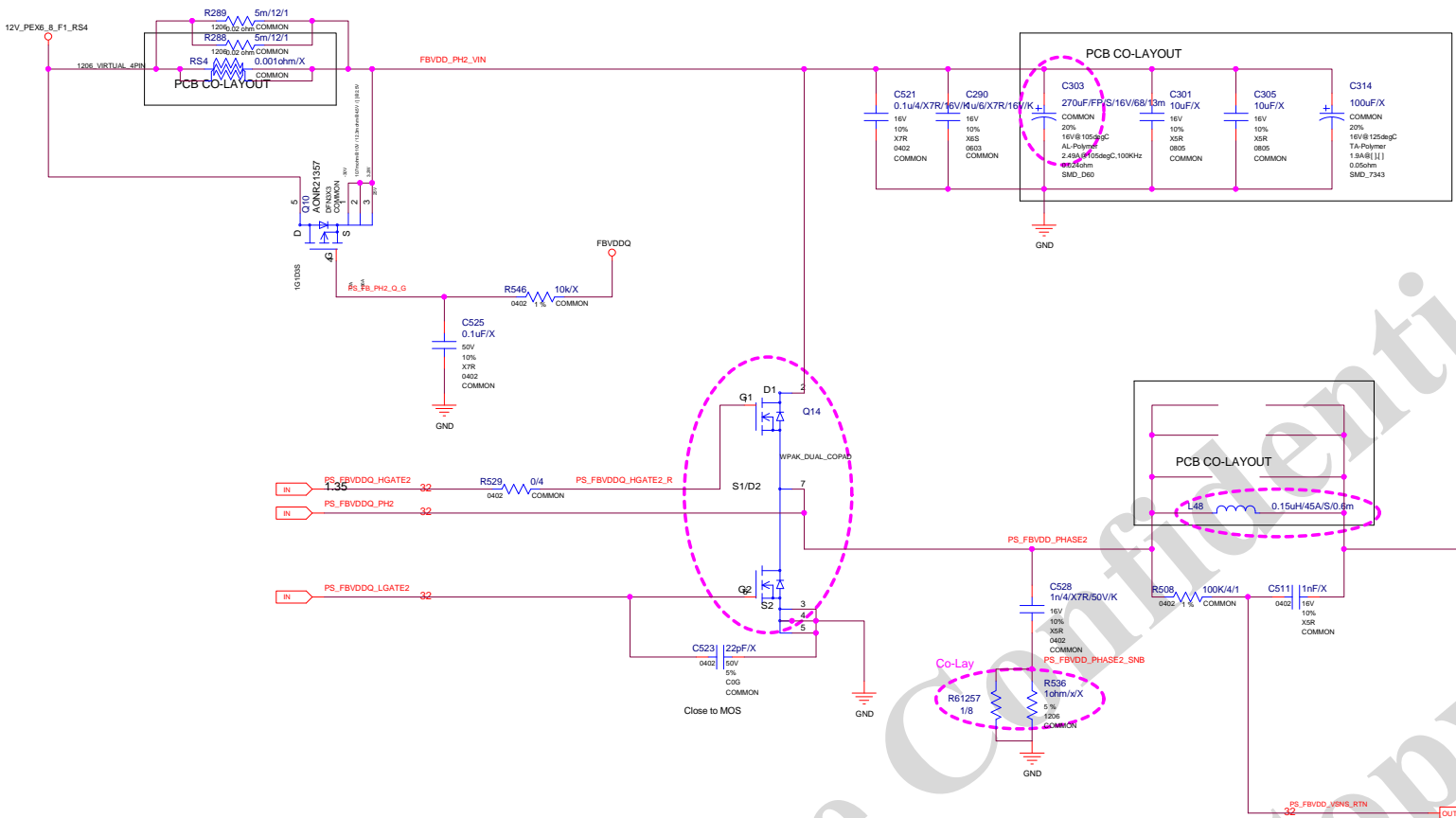
$$0.6V \cdot (1 + 10K/16.9K) = 0.9550V$$


$$0.6V \cdot (1 + 10K/16.9K) = 0.9550V$$

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	PS: PEXVDD

GIGABYTE			
Title PCIE			
Size	Document Number		Rev
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FBVDD PH2 INPUT ANTI-BACKDRIVE

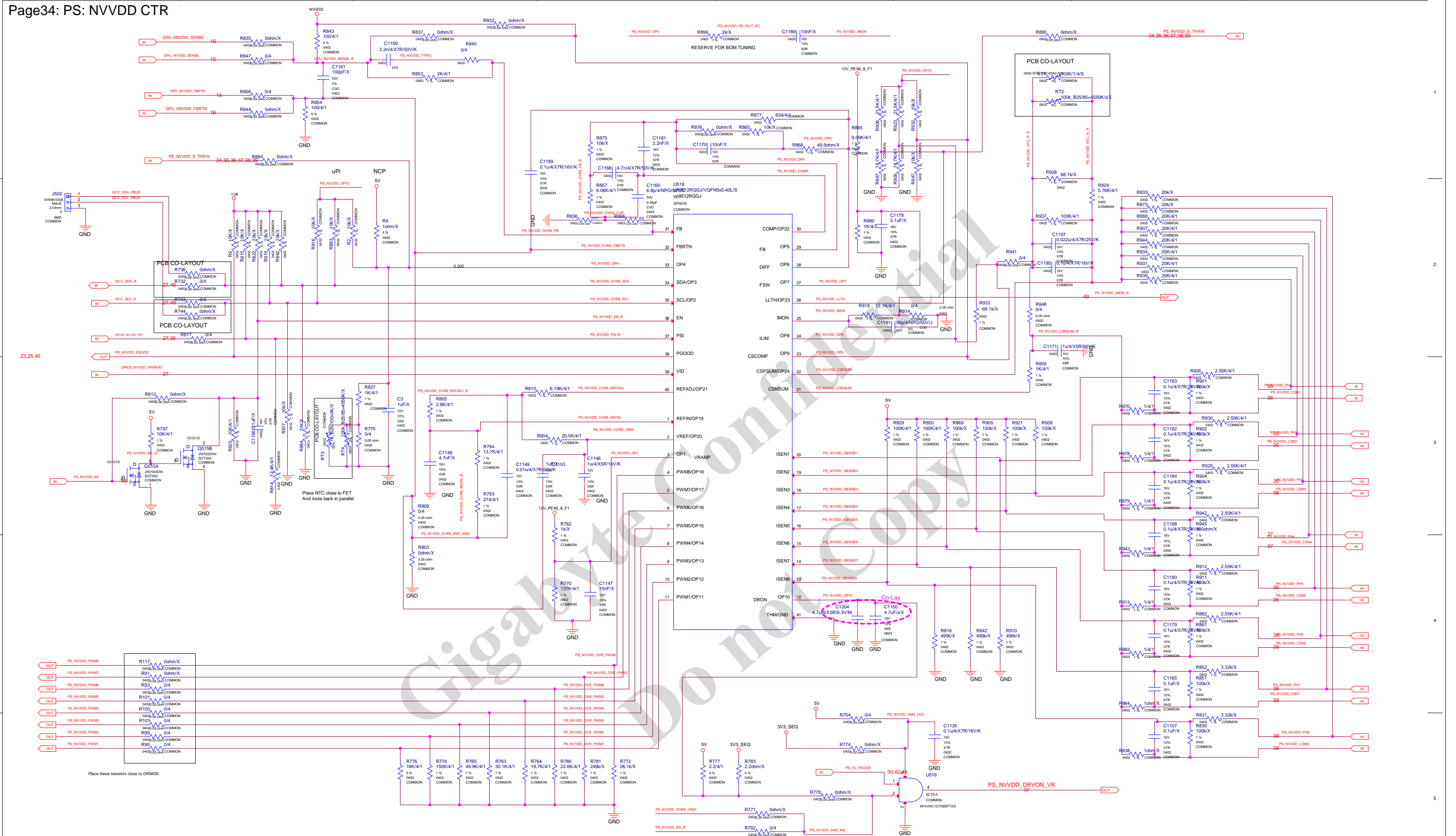


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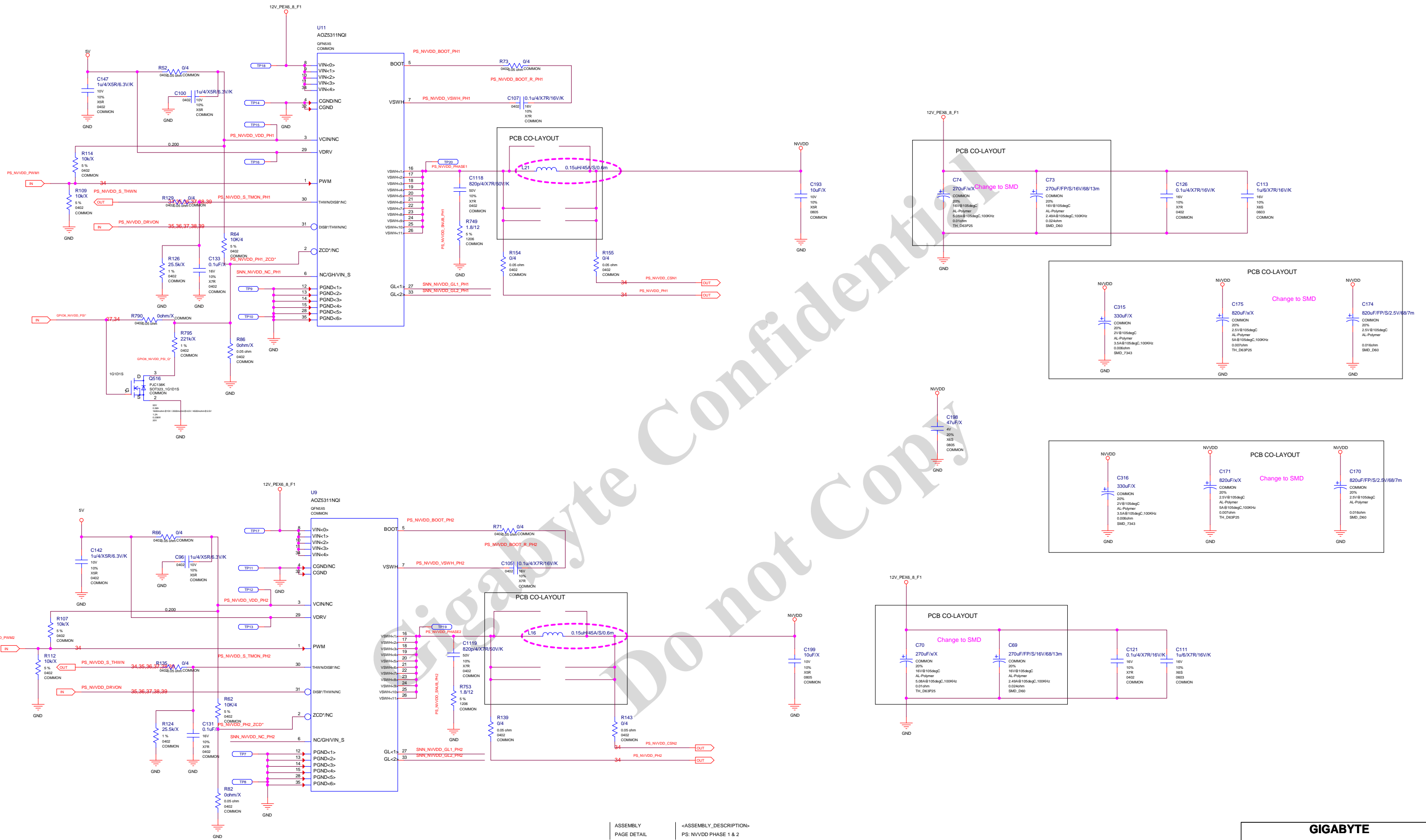
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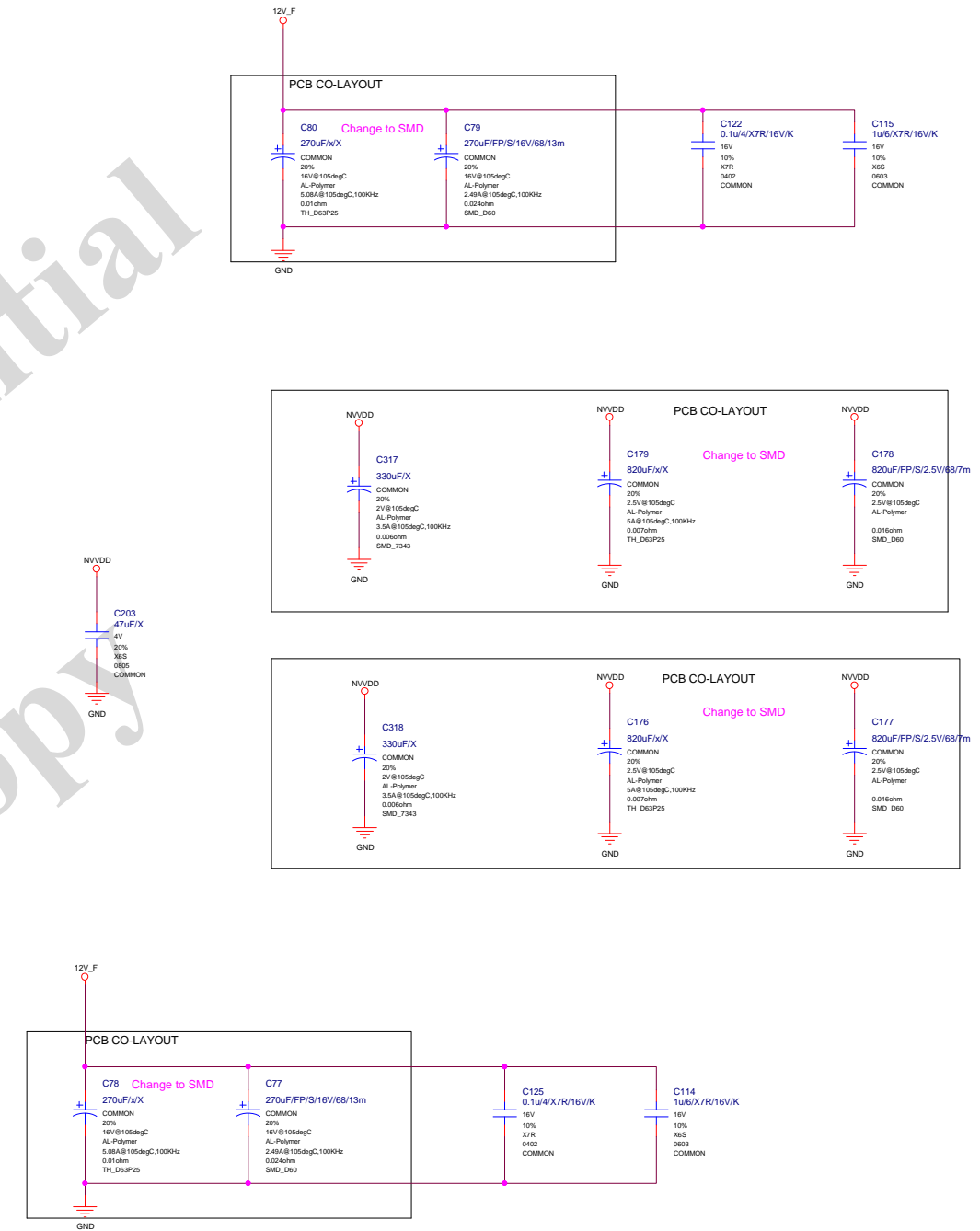
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PS: FBVDDQ PH2

GIGABYTE			
Title PCIe			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
Date: Thursday, January 14, 2021	Sheet 33	of 54	

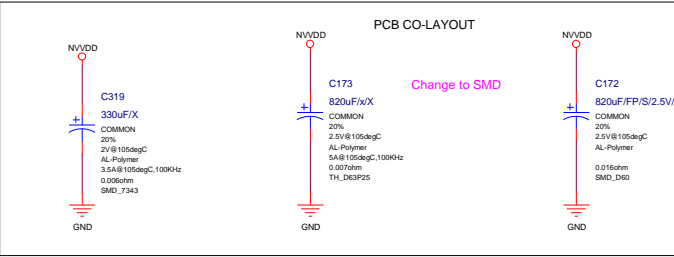
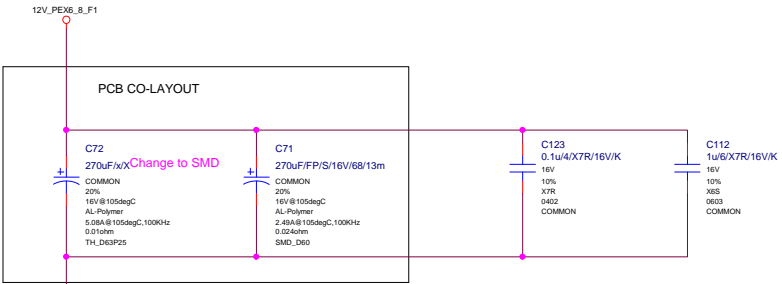
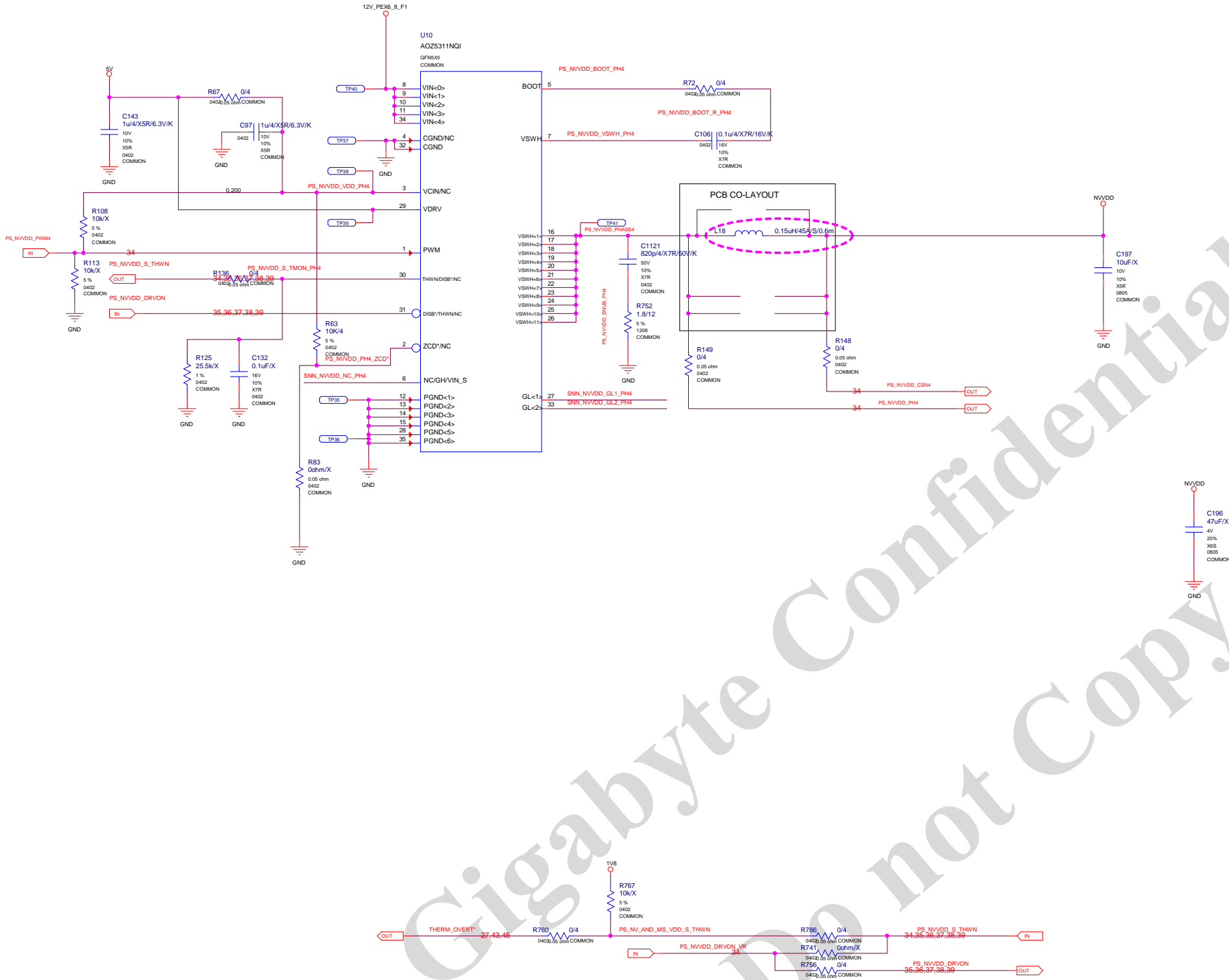


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GIGABYTE			
Title PCIE			
Size	Document Number	Rev	
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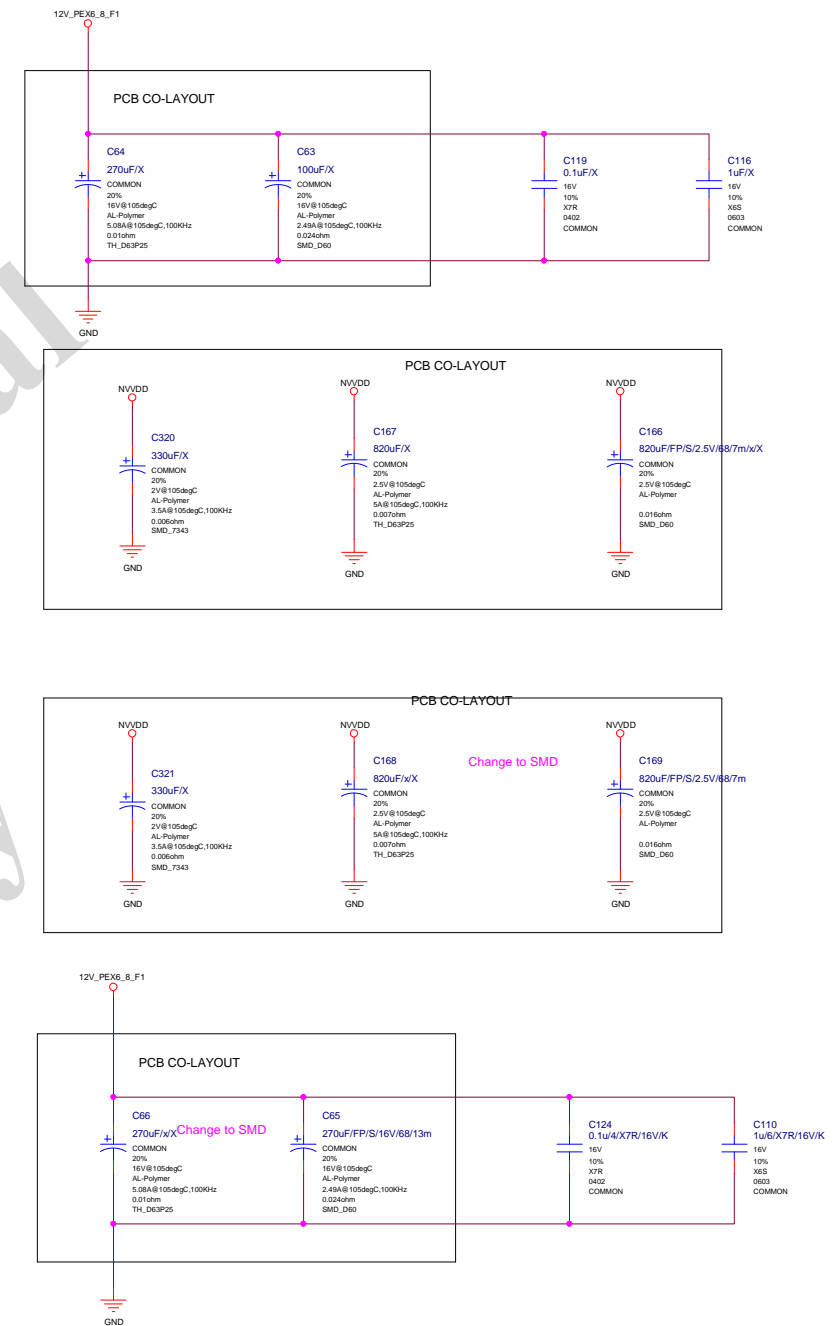


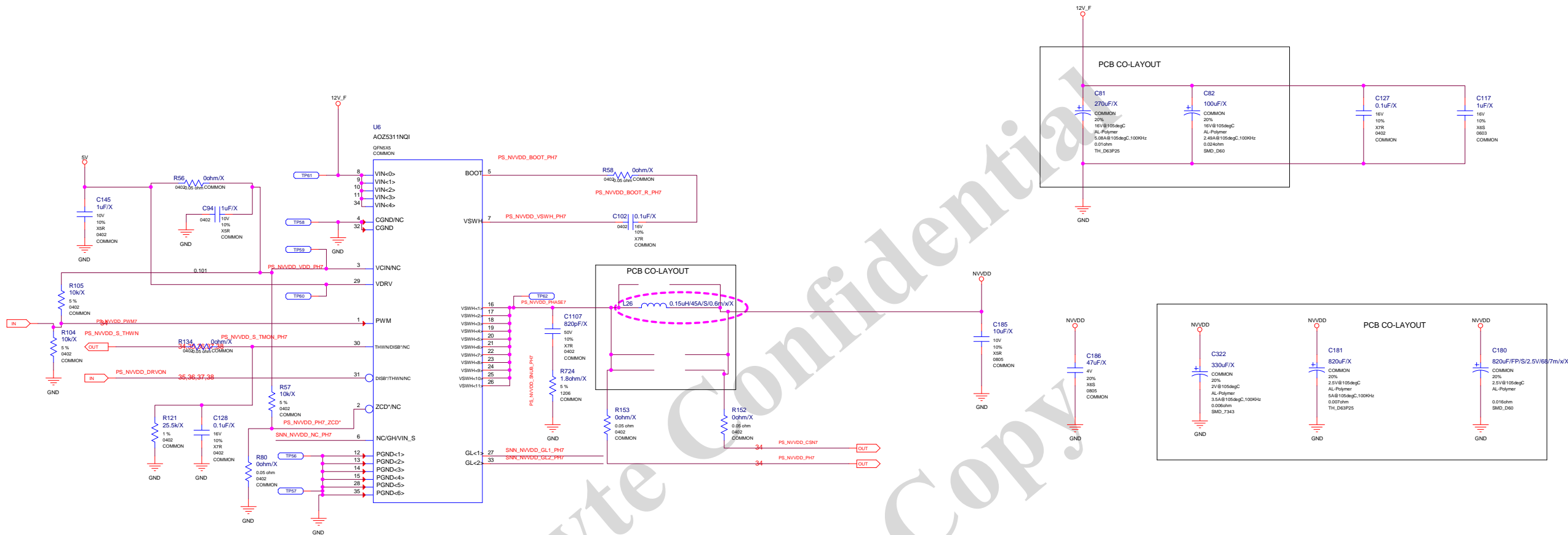
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ASSEMBLY
PAGE DETAIL

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PS: NVVDD PHASE 4

GIGABYTE			
Title PCIE			
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ASSEMBLY
PAGE DETAIL

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PS: NVVDD PHASE 7

GIGABYTE			
Title PCI E			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
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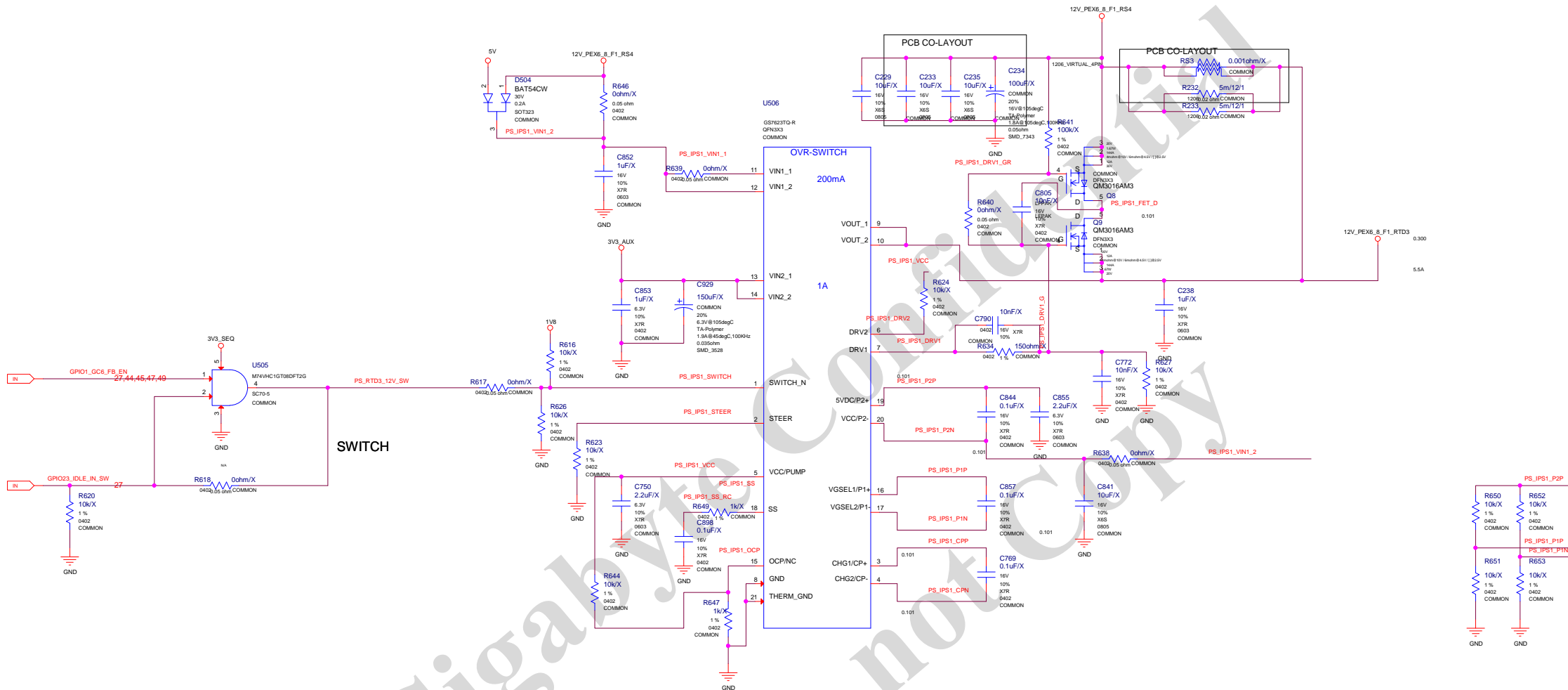
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PAGE DETAIL

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GIGABYTE			
TitlePCIE			
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AND GATE LOGIC					
GPIO1	GPIO29	SWITCH	VOUT	SWITCH	VOUT
0	0	0	12V	0	VOUT = VIN1
0	1	0	12V	1	VOUT = VIN2
1	0	0	12V		
1	1	1	3V3A		



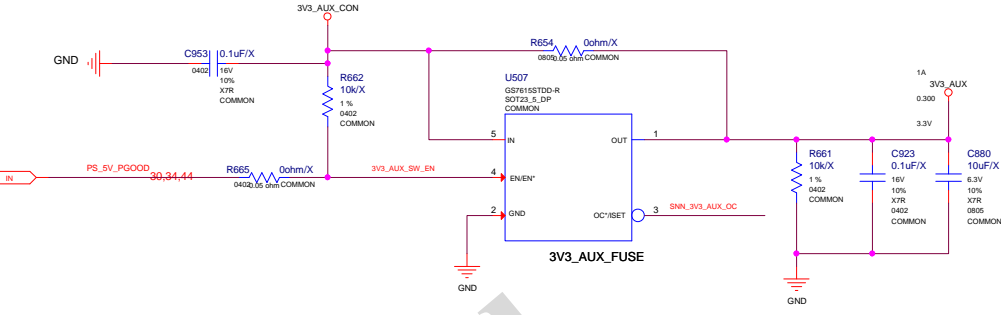
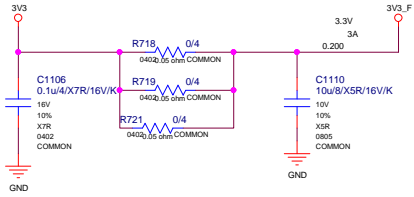
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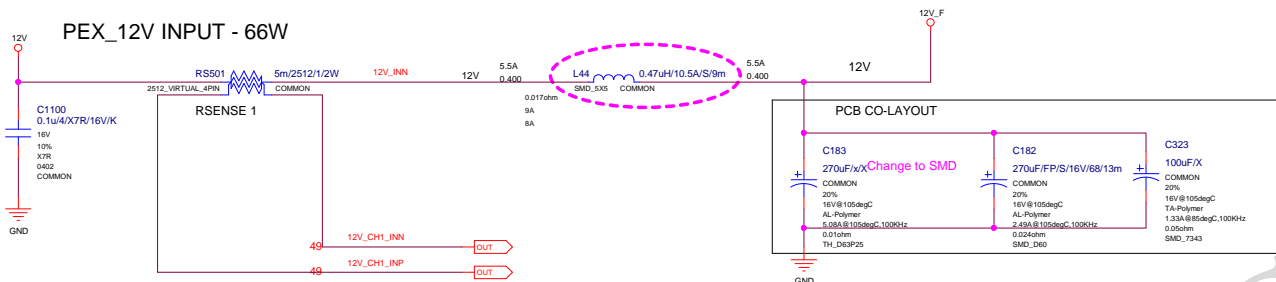
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INPUT SWITCH RTD3

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Title PCIE			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
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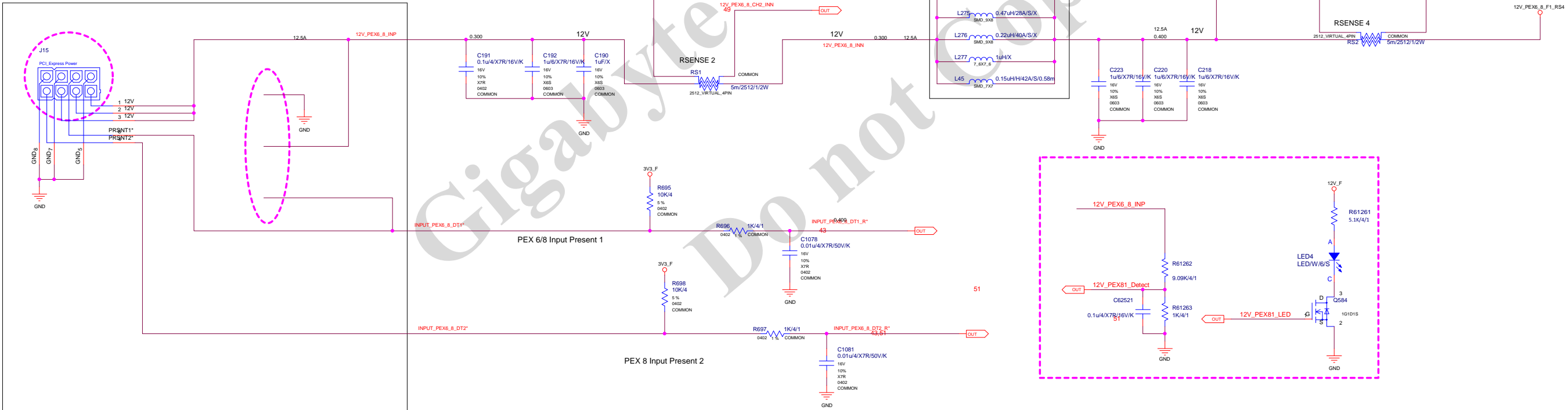
PEX 3V3 INPUT - 10W



PEX_12V INPUT - 66W



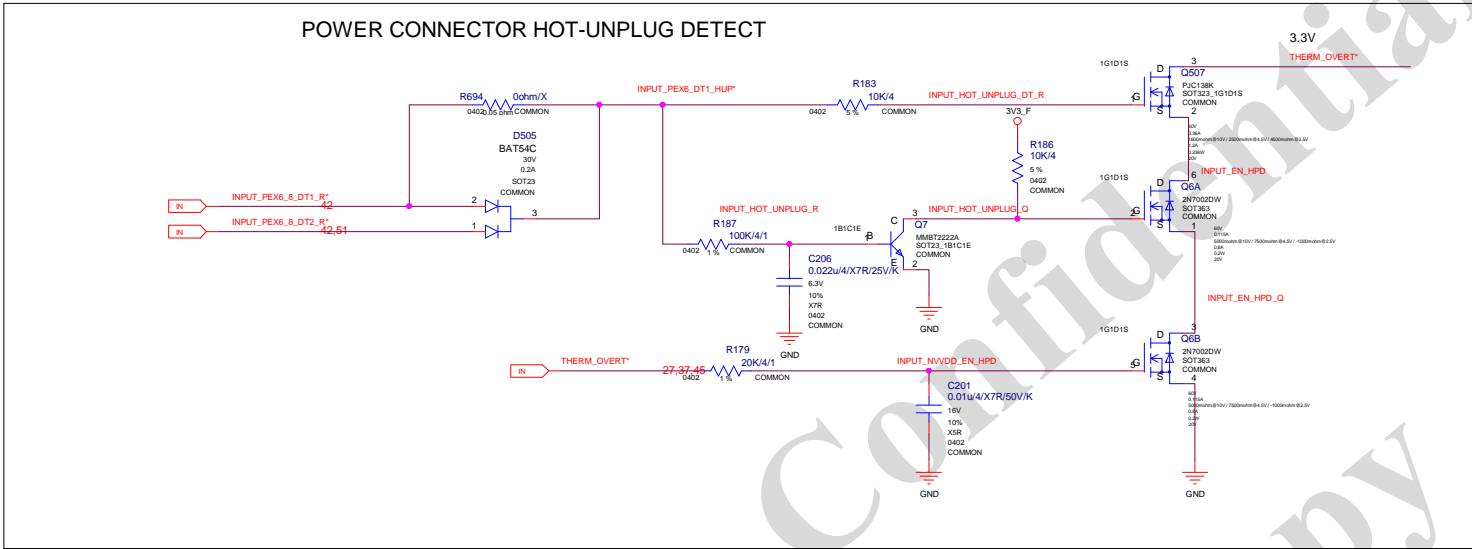
PEX8 INPUT 1 - 2x4 PCIE CON 150W



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ASSEMBLY PAGE DETAIL
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INPUT POWER, FILTERING

GIGABYTE			
Title	PCIE		
Size	Custom	Document Number	GV-N3060VISION OC-12GD
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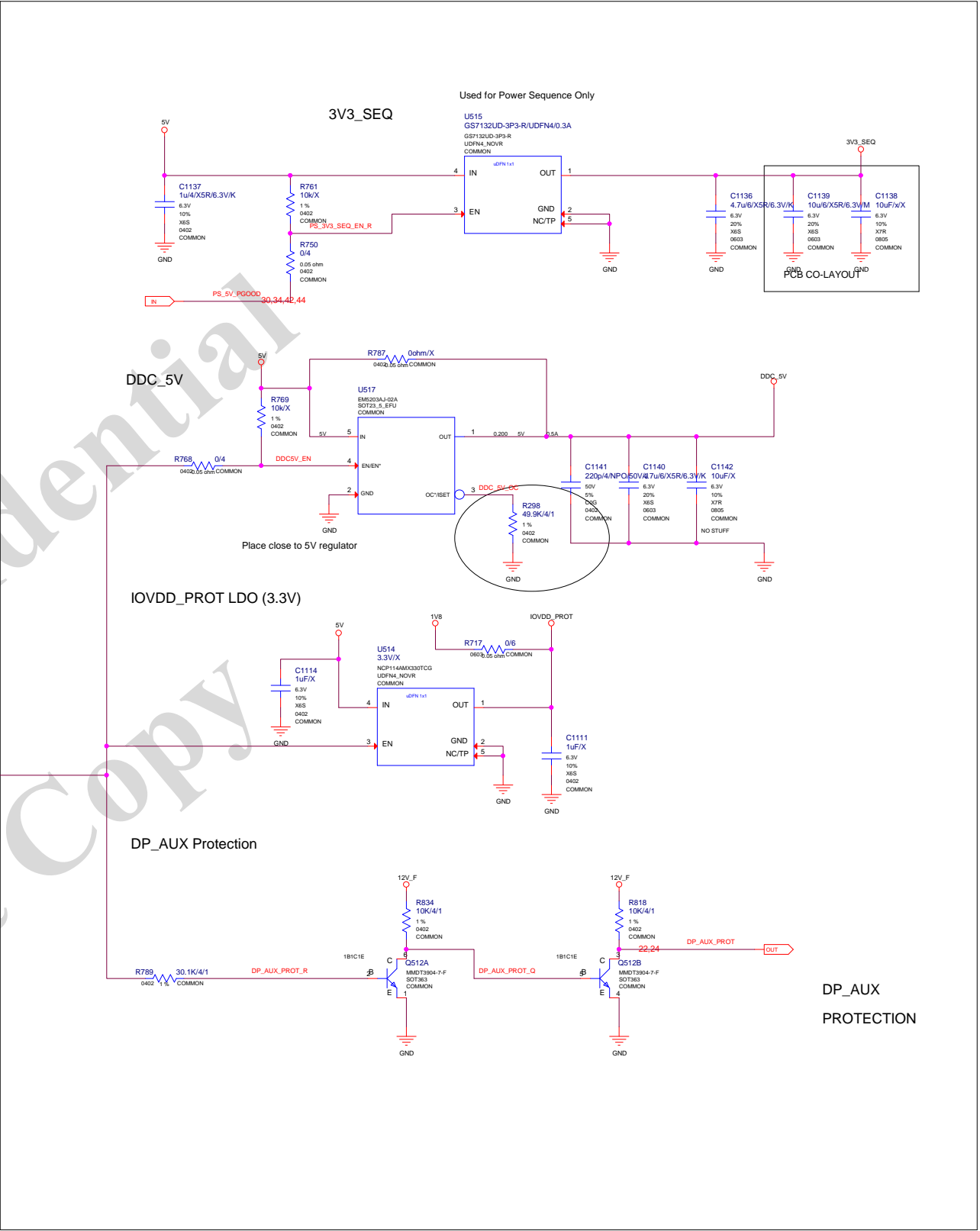
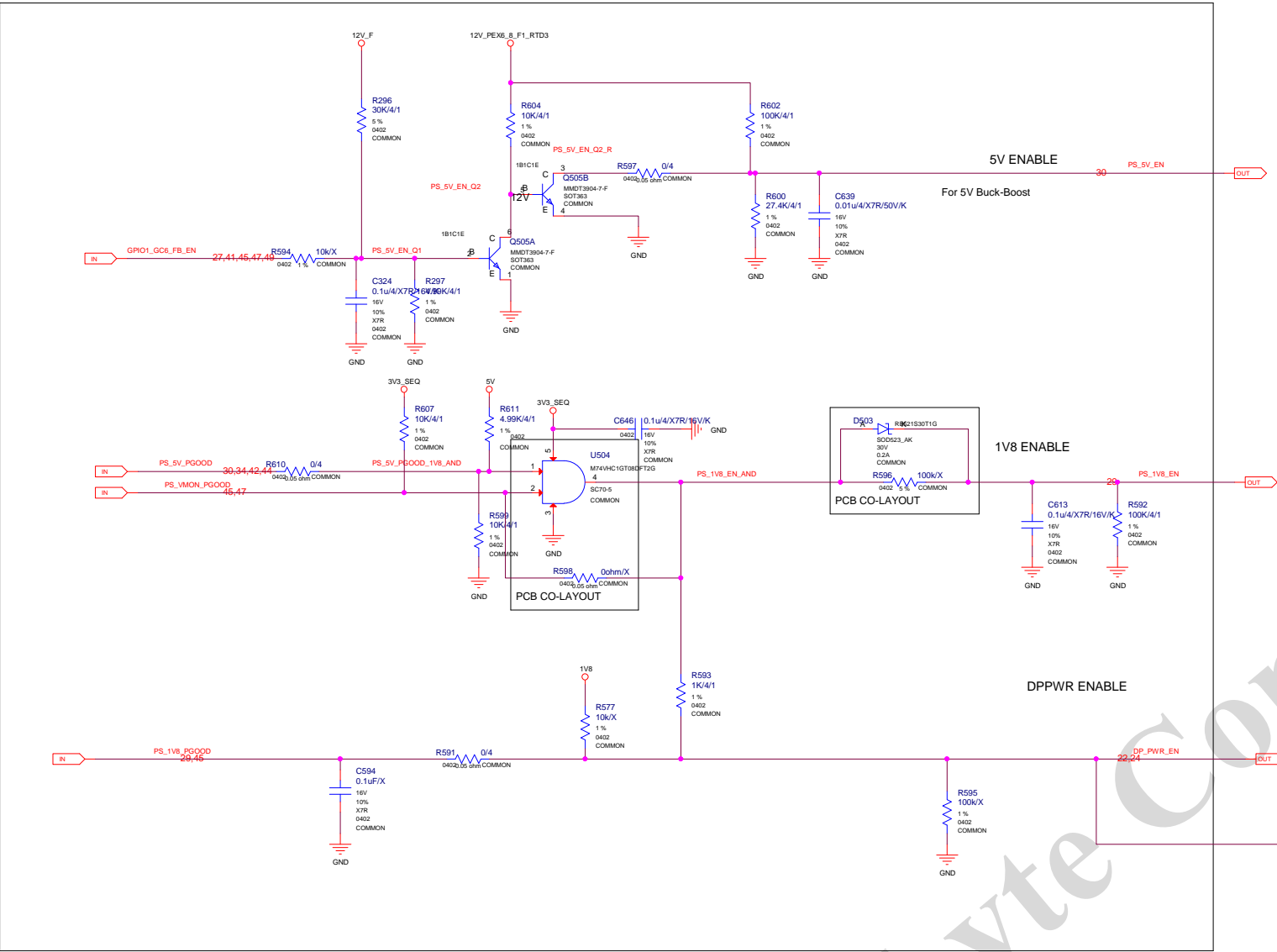


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ASSEMBLY
PAGE DETAIL

<ASSEMBLY_DESCRIPTION>
MISC: Hot Unplug

GIGABYTE			
Title PCIE			
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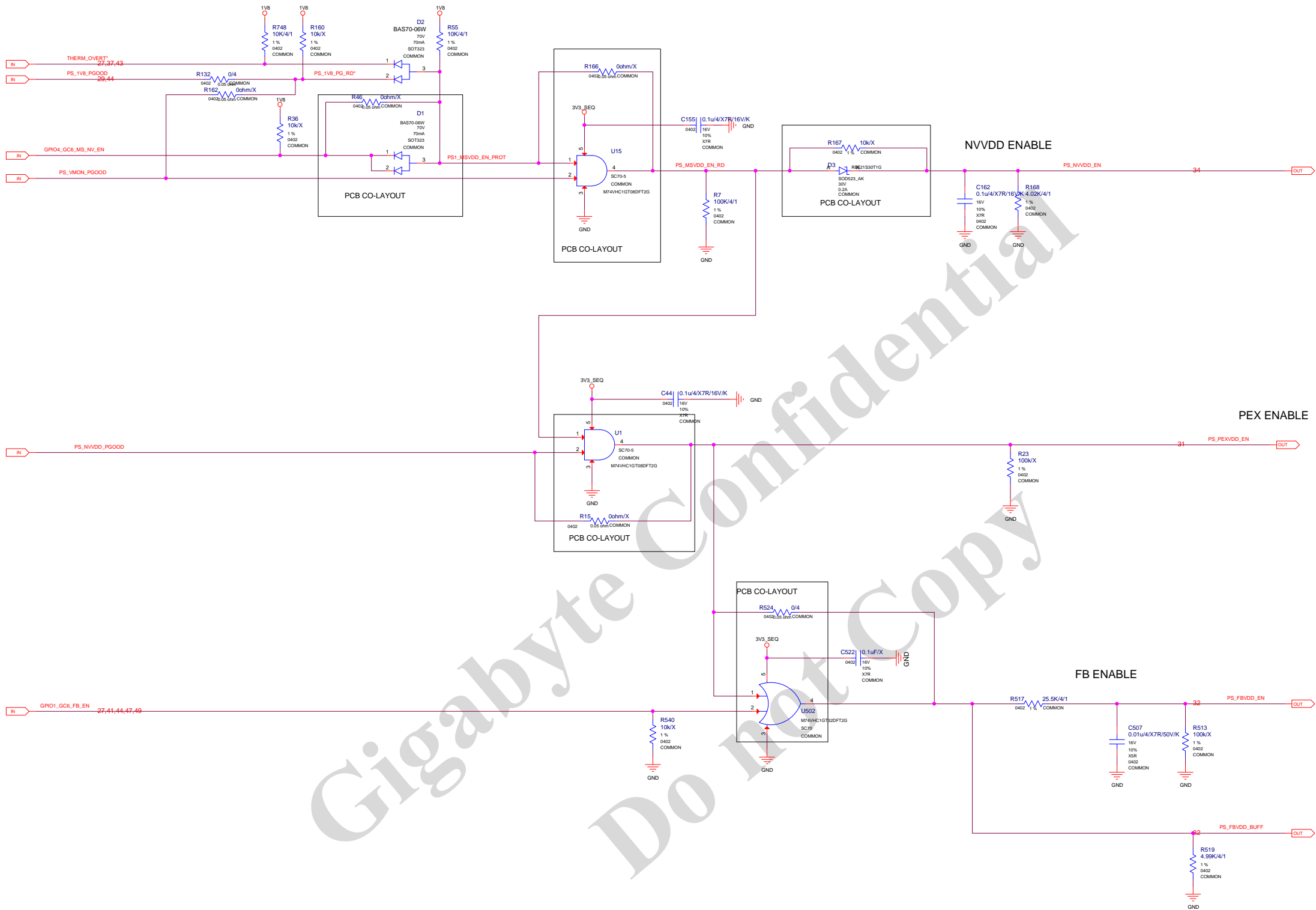
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ASSEMBLY
PAGE DETAIL

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SEQ: 3V3_SEQ, DDC_5V, DP_AUX_PROT

GIGABYTE			
Title	PCIe		
Size	Custom	Document Number	GV-N3060VISION OC-12GD
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1.01

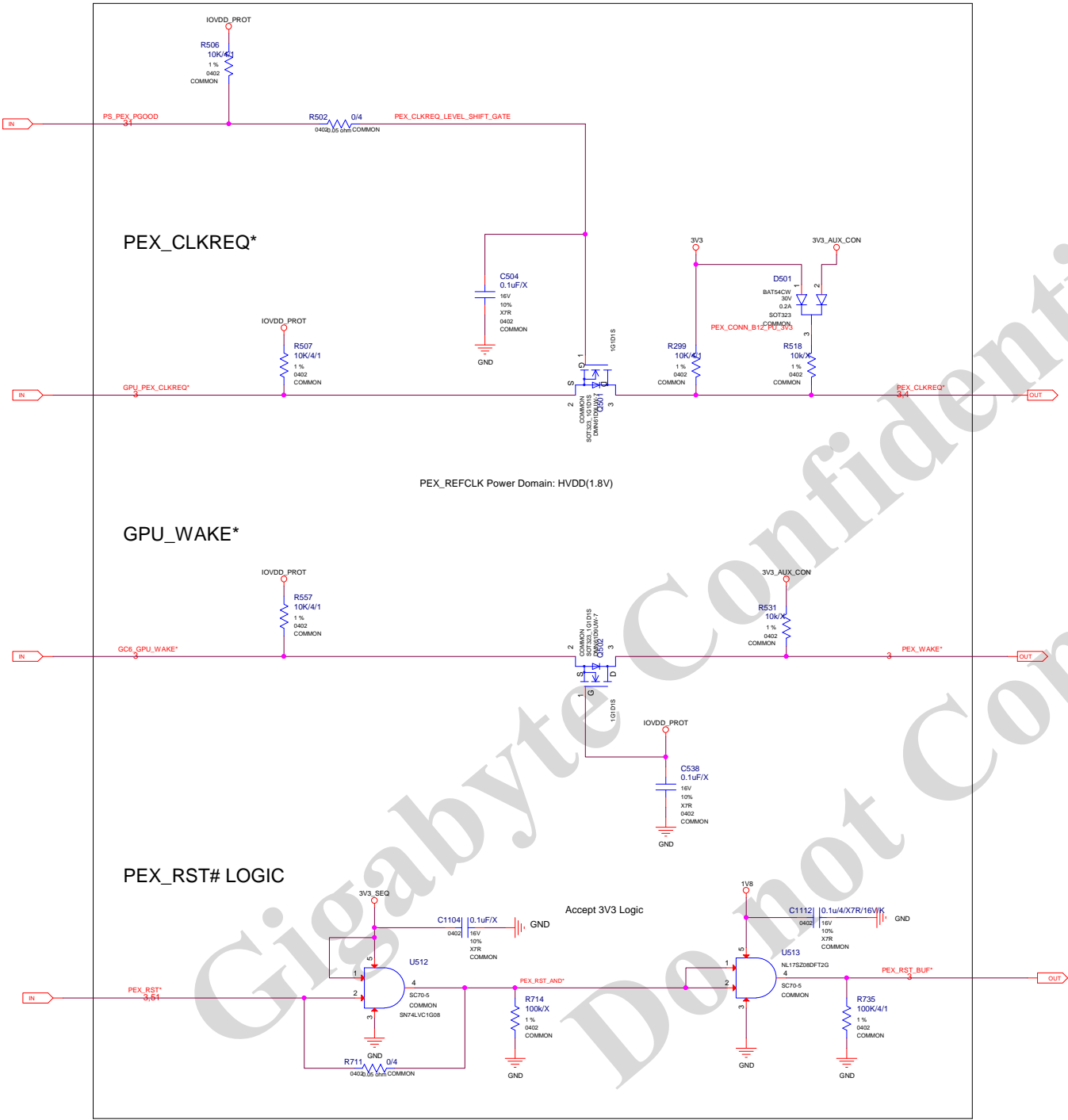


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ASSEMBLY
PAGE DETAIL

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SEQ: NVVDD, PEXVDD AND FBVDDQ ENABLE

GIGABYTE			
Title PCIE			
Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
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PAGE DETAIL

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Size Custom	Document Number GV-N3060VISION OC-12GD		Rev 1.01
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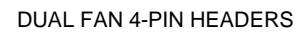


Signal	Direction	Function
3V3	INPUT	Sense the 3V3 Voltage from PCIE golden finger
12V	INPUT	Sense the 12V Voltage from PCIE golden finger
PS_VMON_PGOOD	OPEN-DRAIN	Floating(H) once both 3V3 and 12V reach Vth
GC6_FB_EN	INPUT	Indicator for RTD3/GC6 residence,Use to Mask the VMON_PGOOD
PS_PF_BSOK	INPUT	From Pre-filter(BS_OK)

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	SEQUENCE: VOLTAGE MONITOR

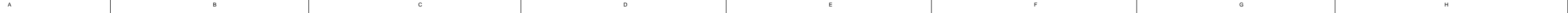
GIGABYTE

Title			
PCIE			
Size	Document Number	Rev	
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PAGE DETAIL	FAN & LED

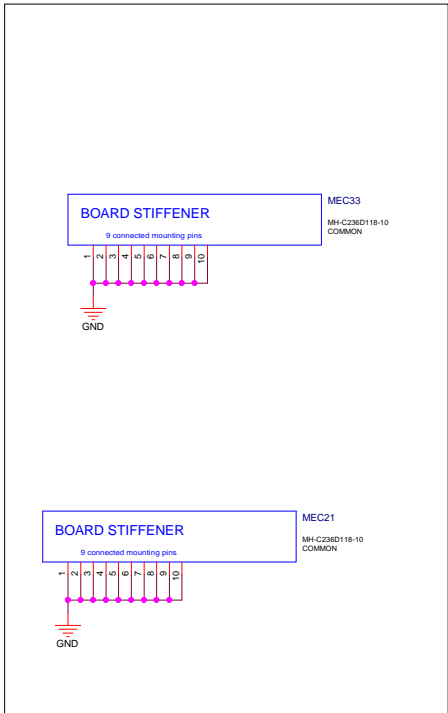
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Size	Document Number	Rev	
Custom	GV-N3060VISION OC-12GD	1.01	
Date:	Thursday, January 14, 2021	Sheet	48 of 54



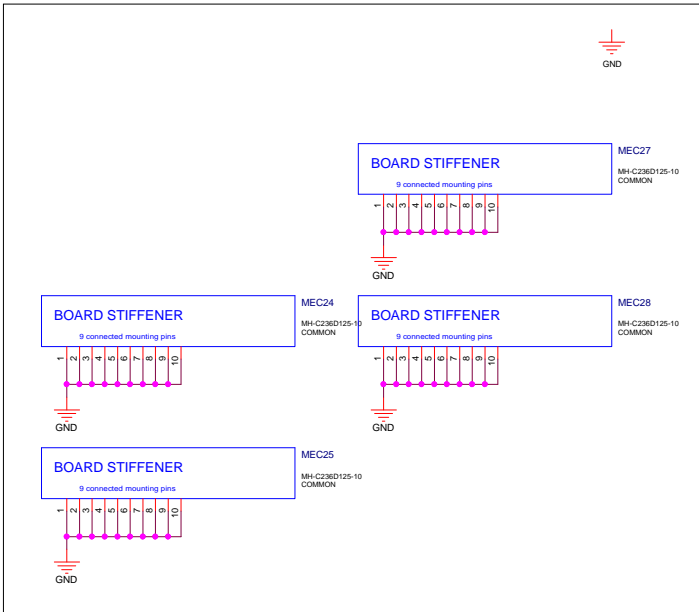
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Date: Thursday, January 14, 2021							Sheet 49 of 54

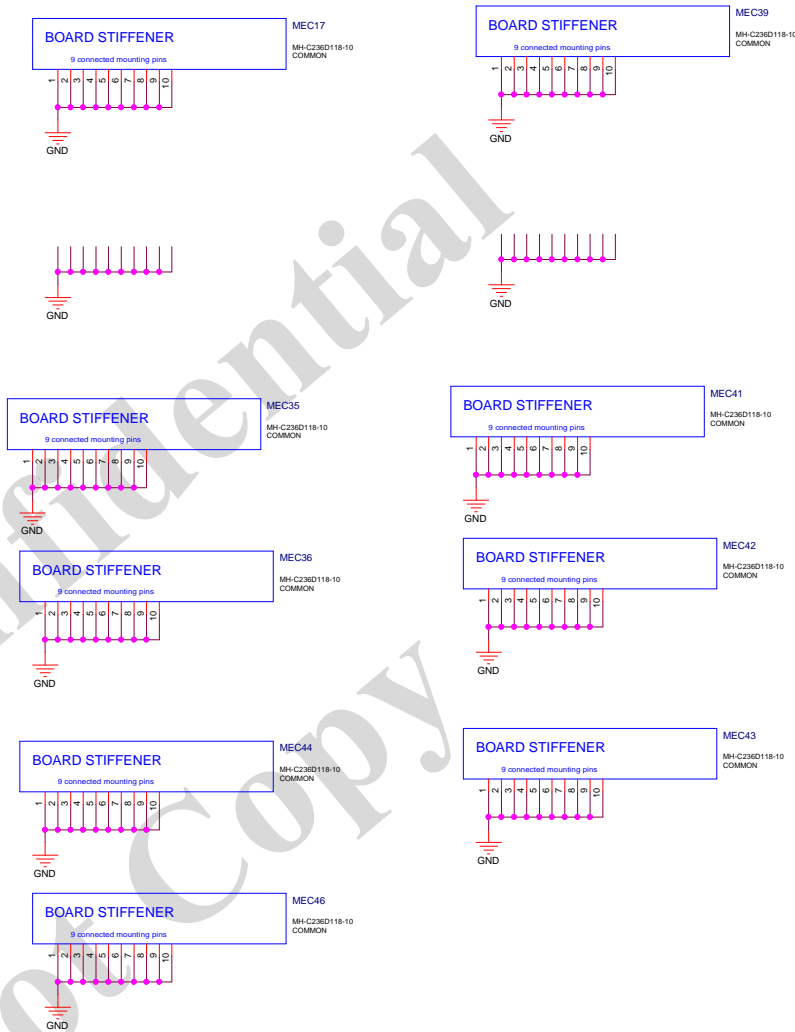
BKT SINK



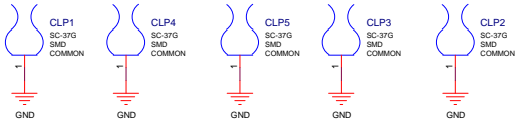
GPU SINK



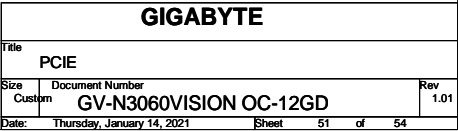
MOS
螺絲孔

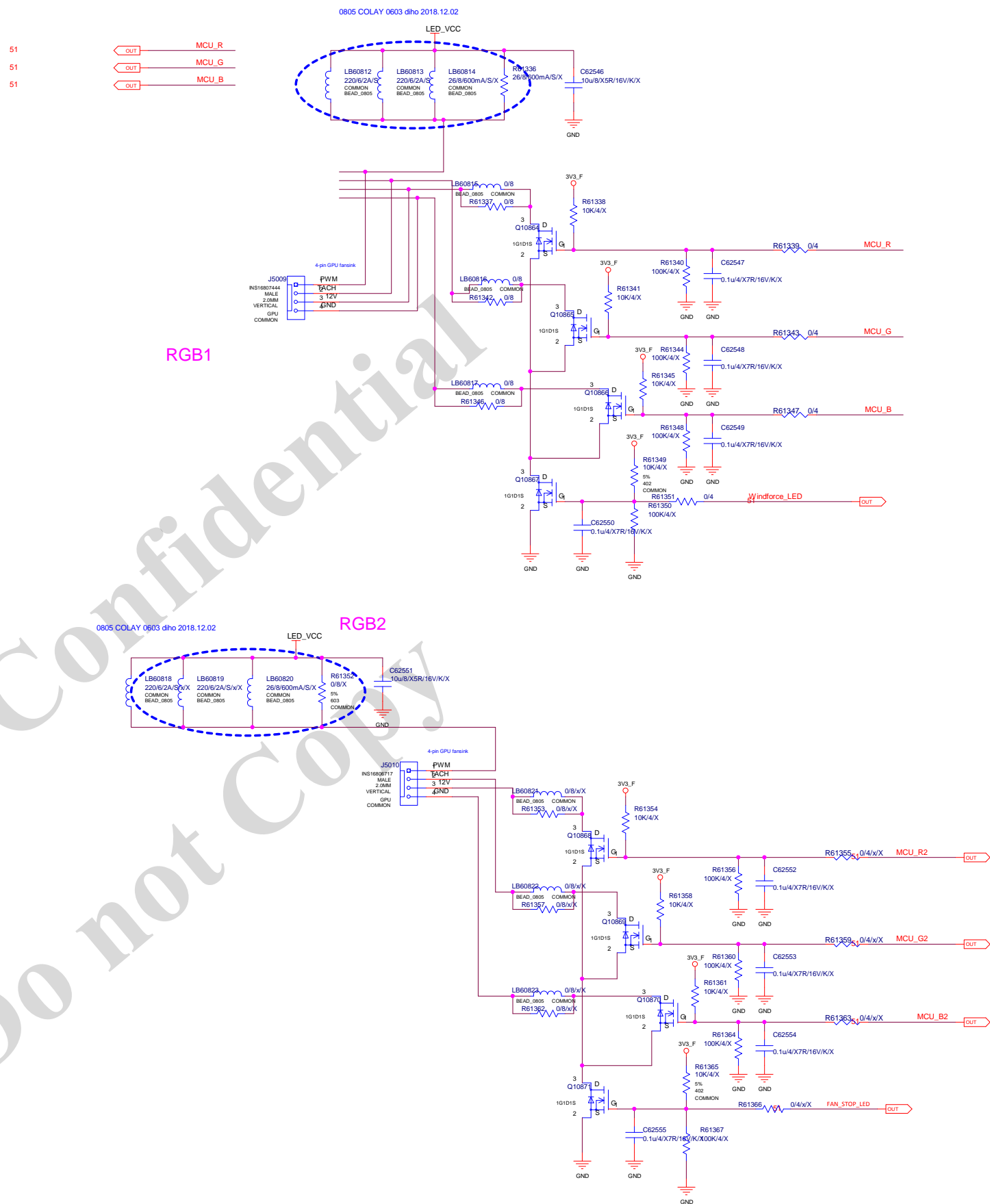


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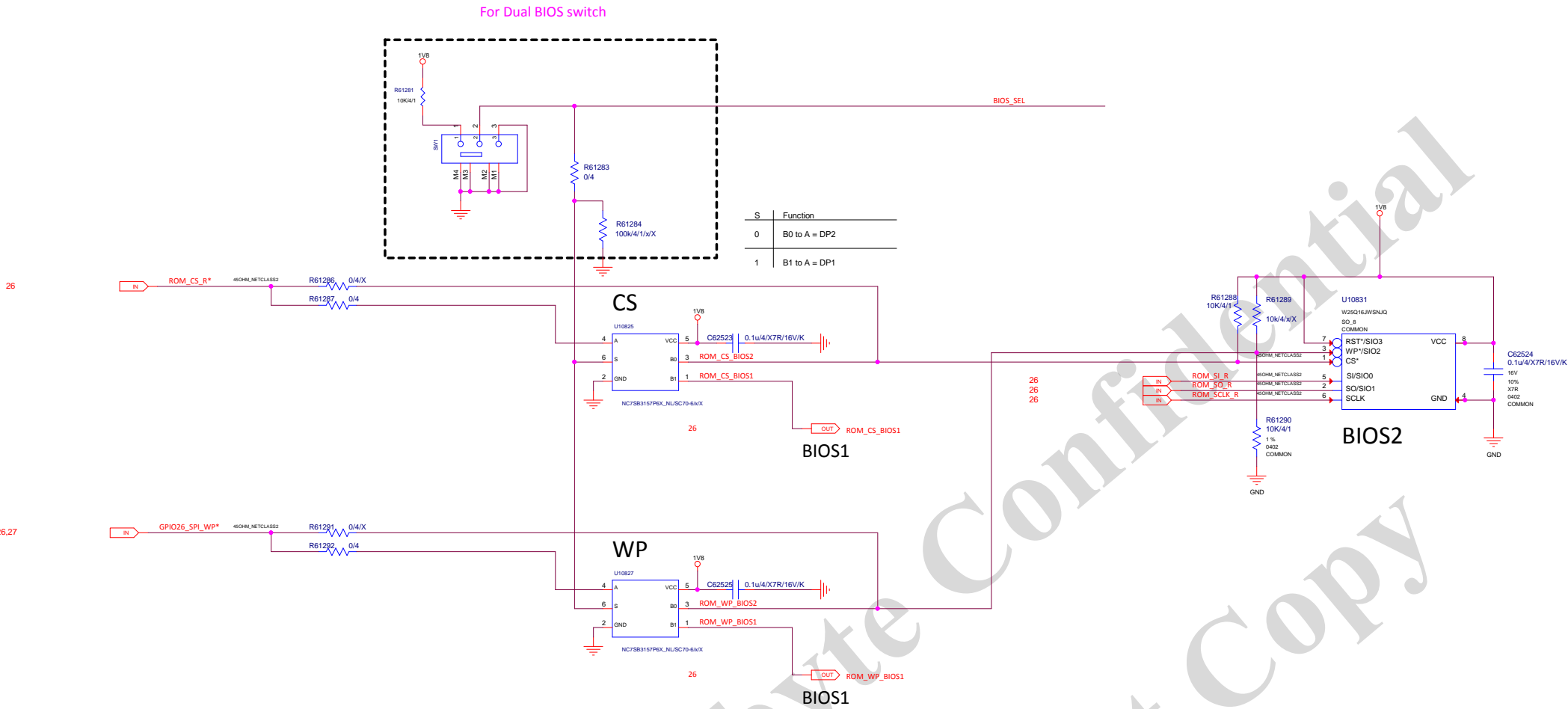




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History

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2020.08.06	First version

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