PG611 A00

12GB GDDR5X, 384b, 256Mx32
TALL DVI-D + DP + DP + HDMI/DP + DP

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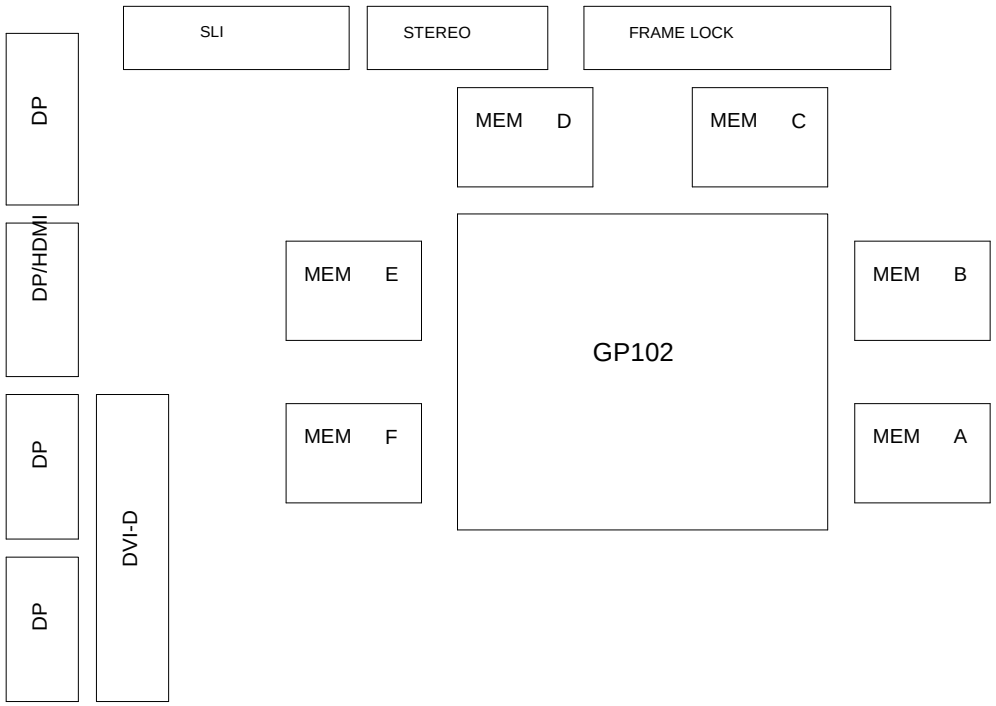

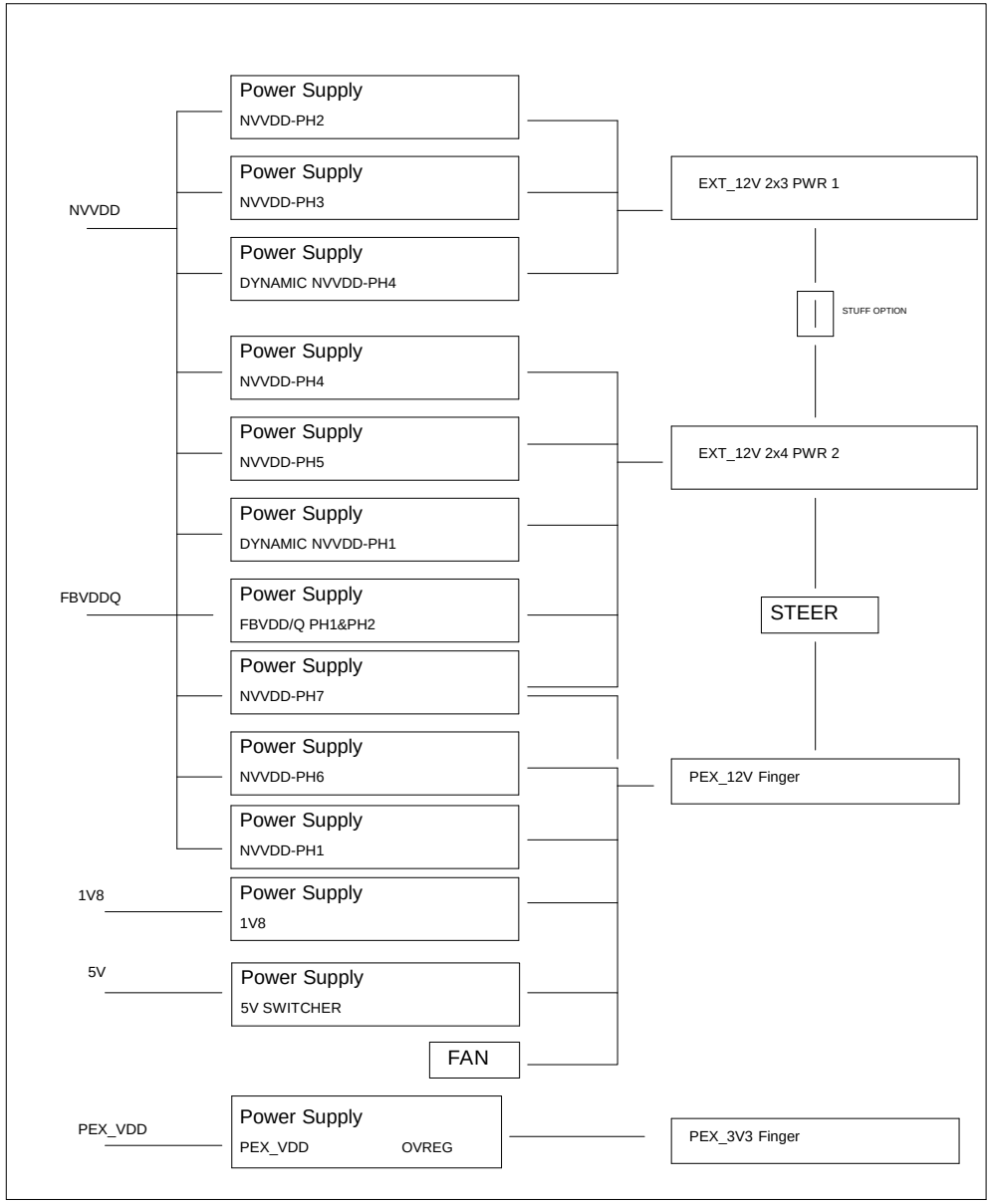

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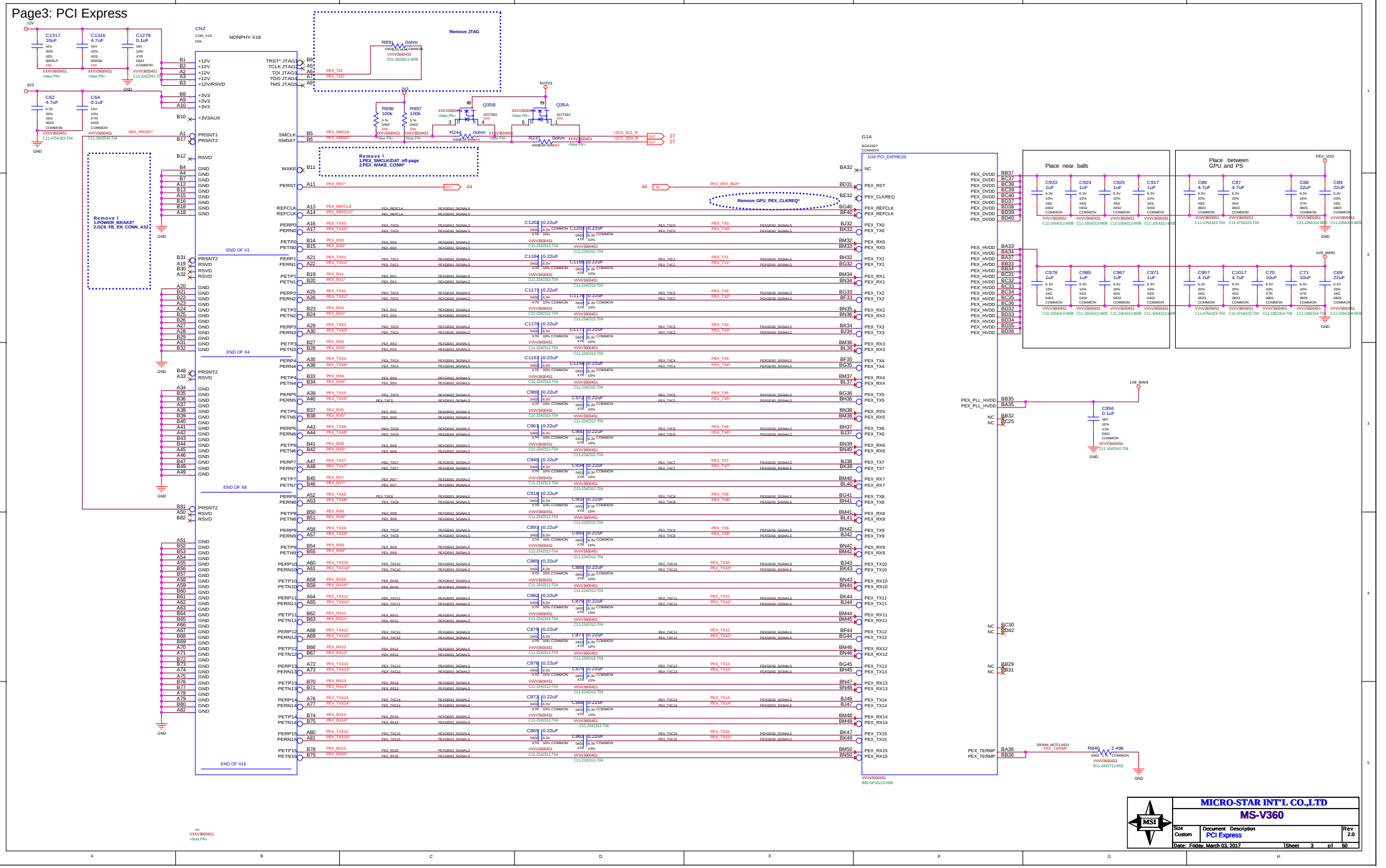

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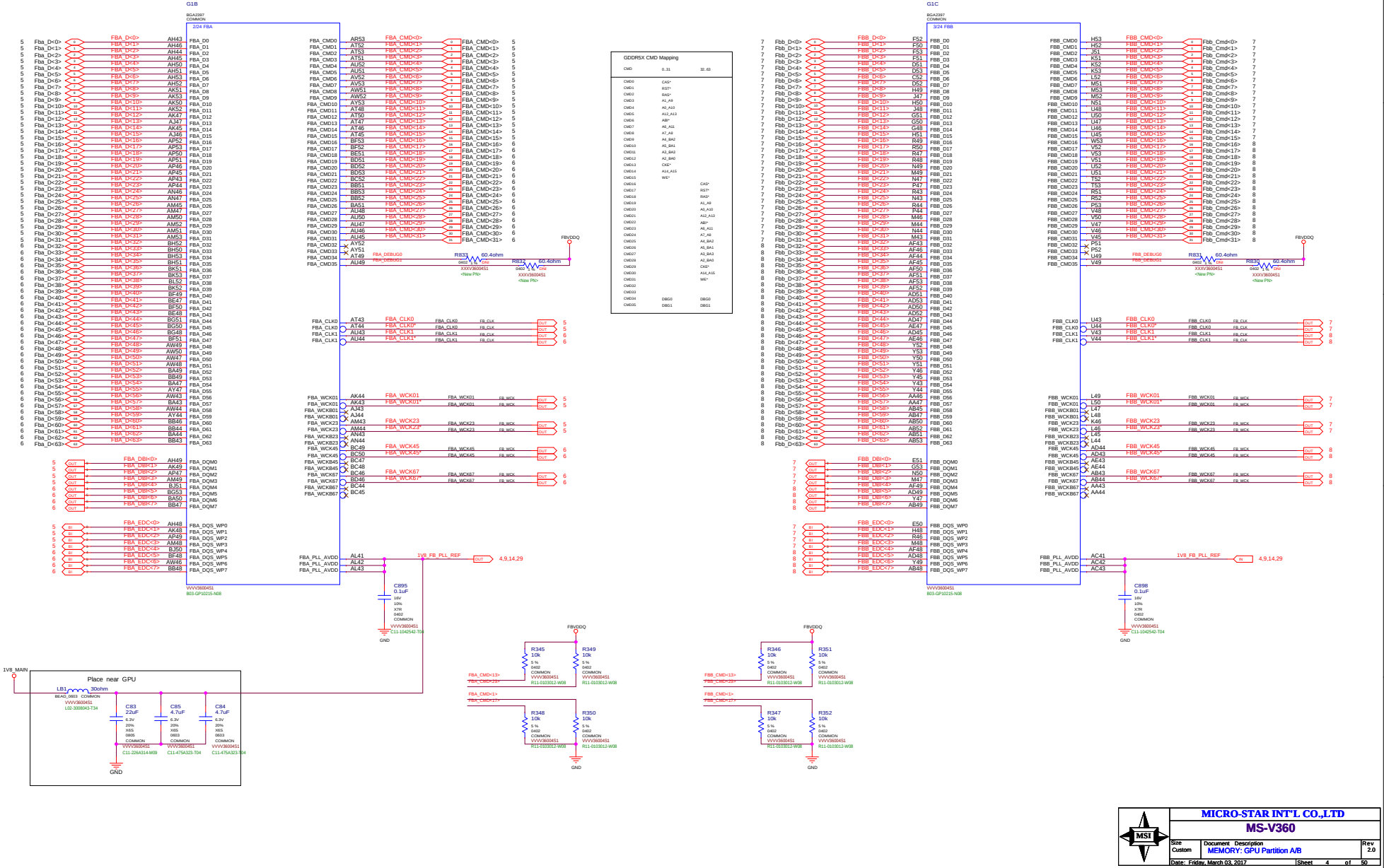

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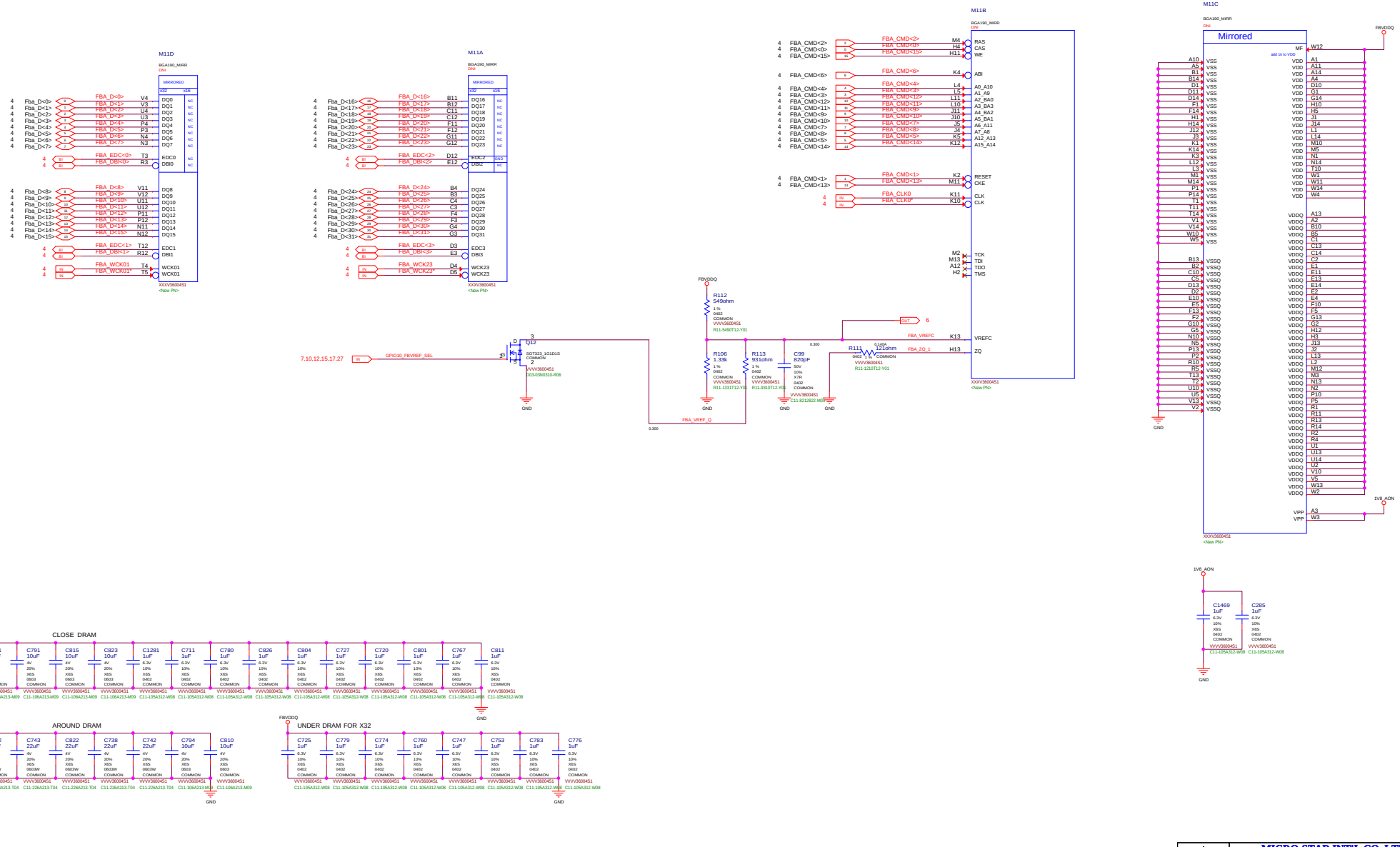

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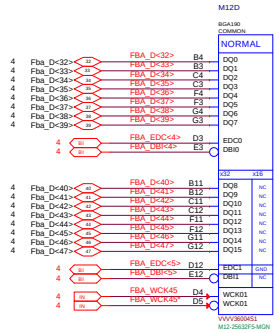

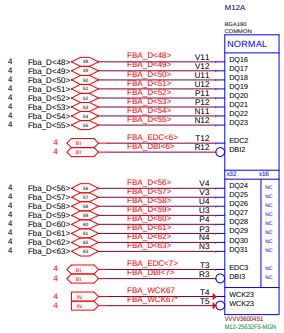

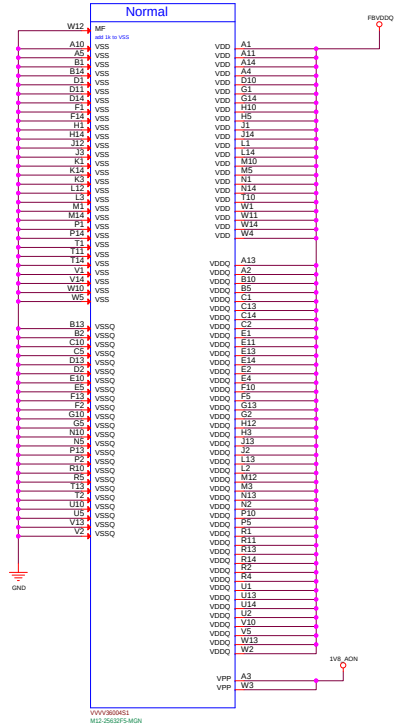

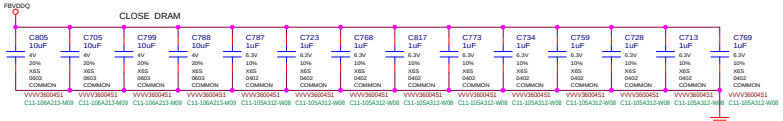

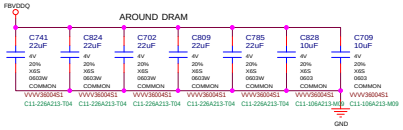

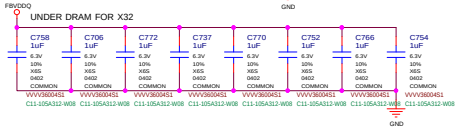

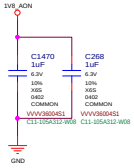

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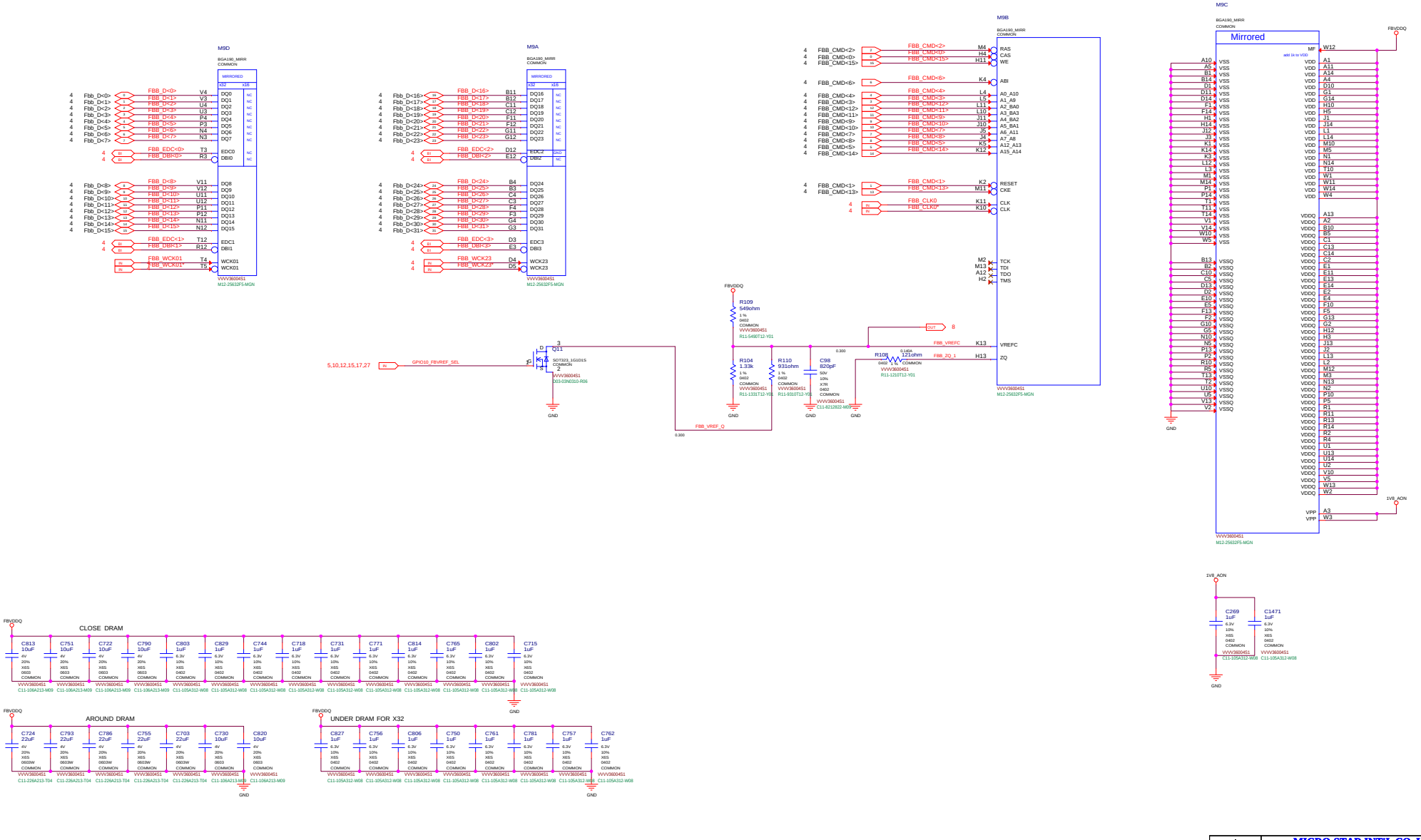

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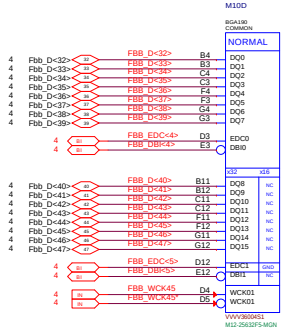

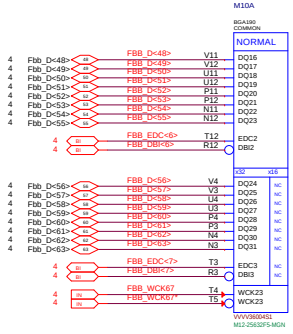

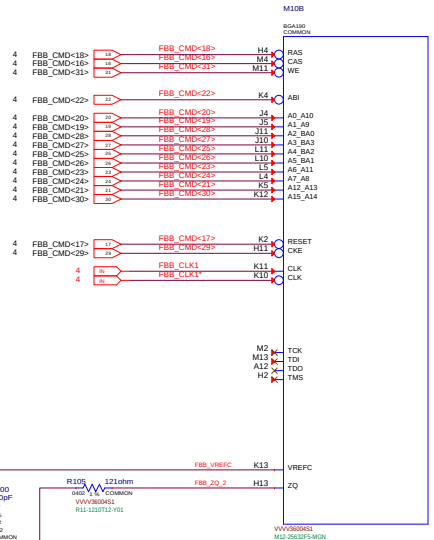

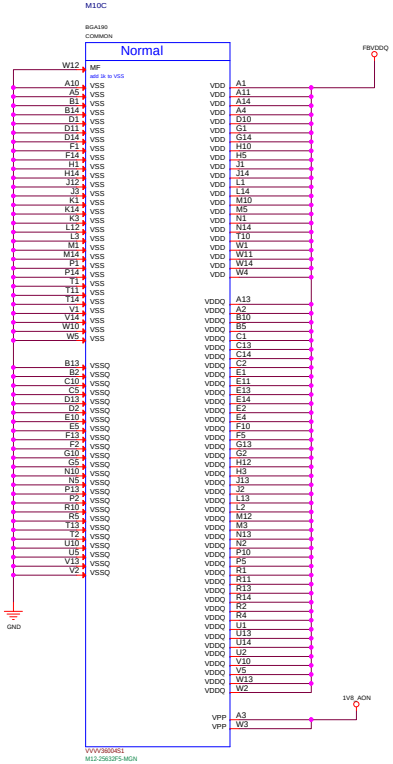

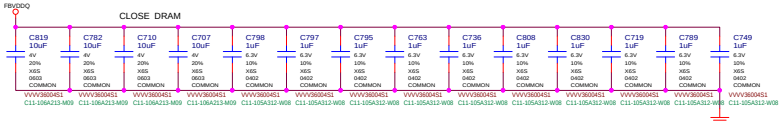

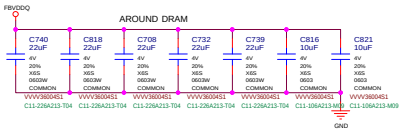

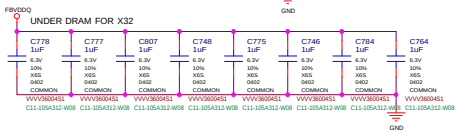

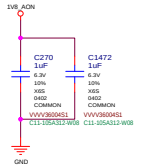

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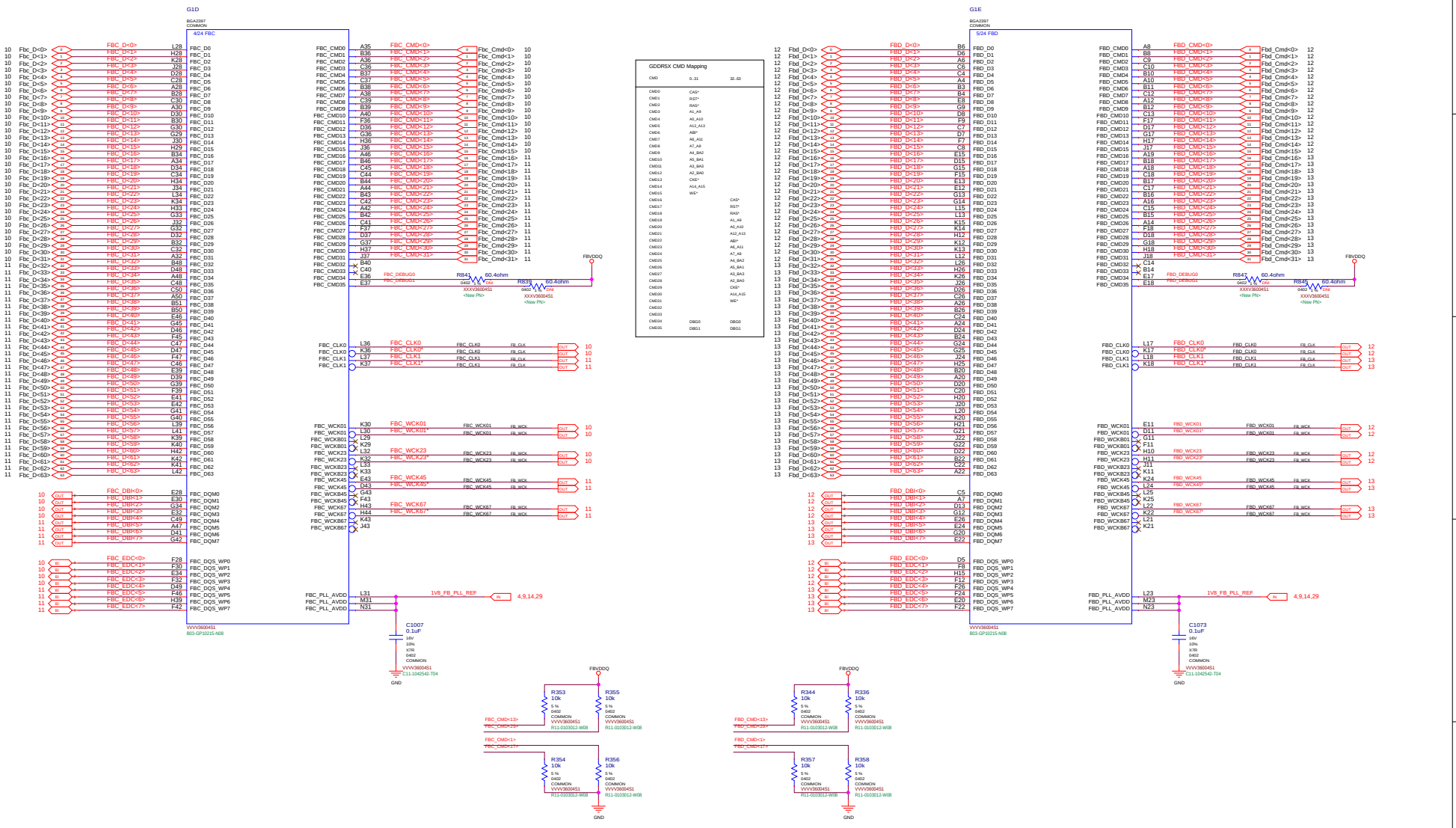

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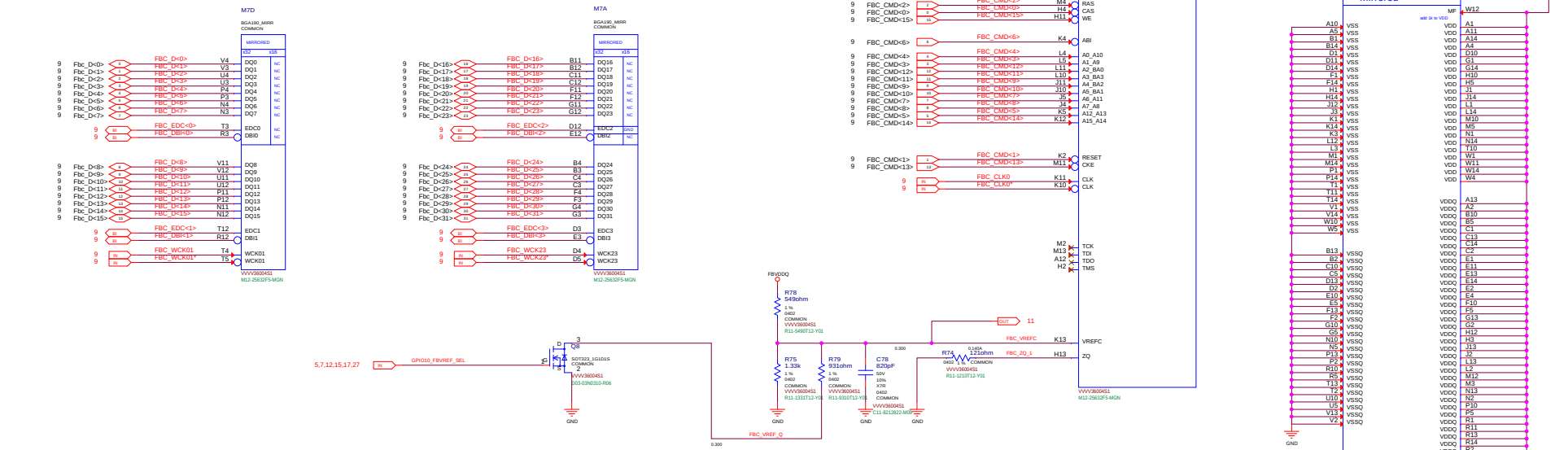

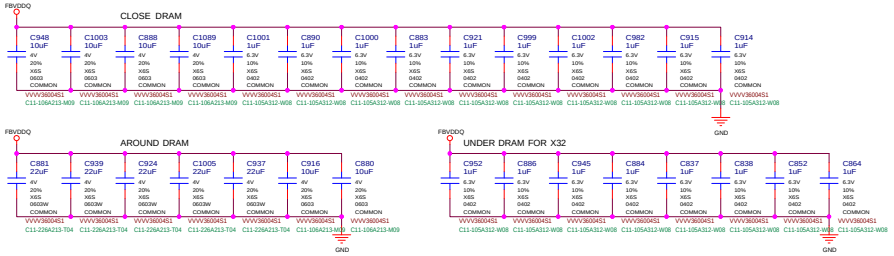

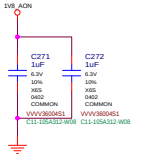

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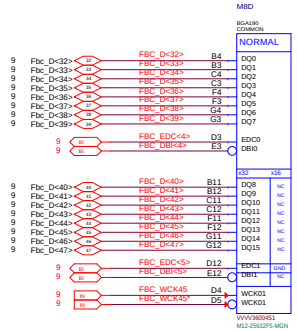

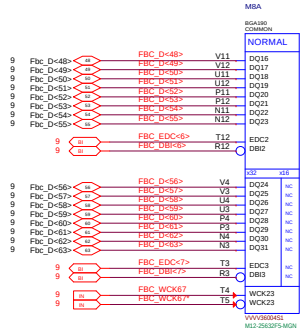

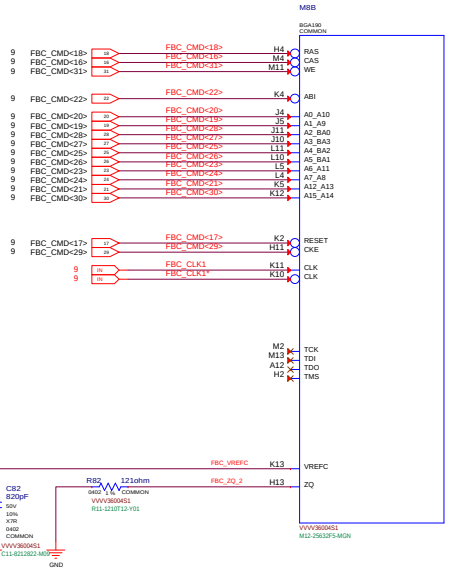

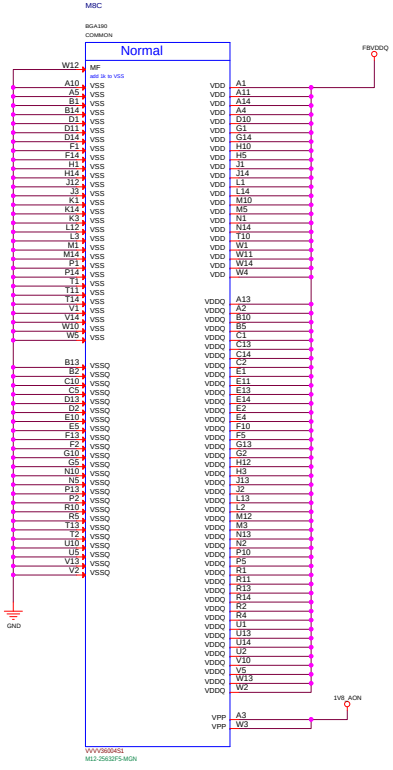

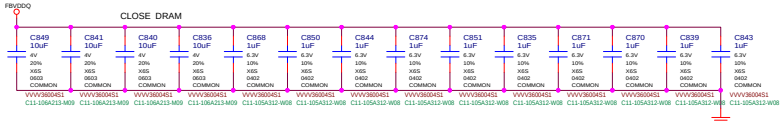

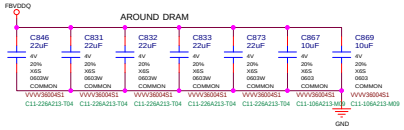

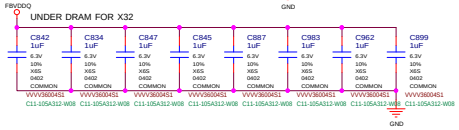

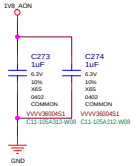

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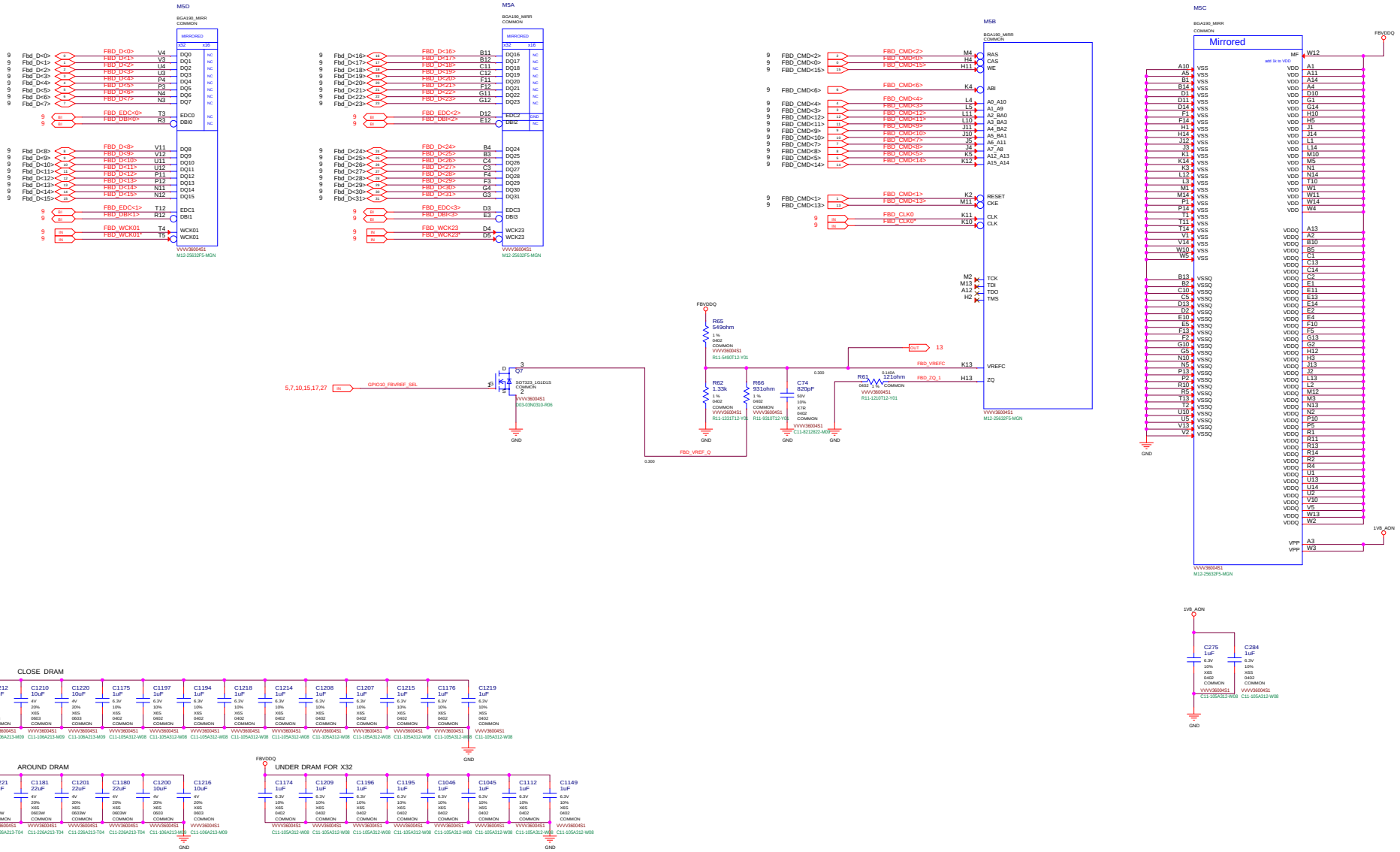

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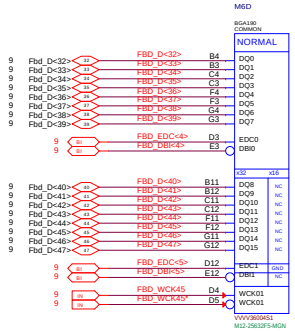

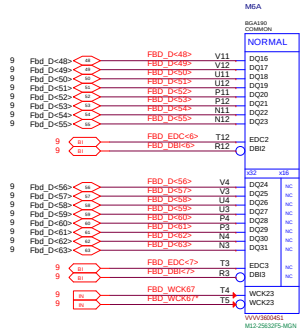

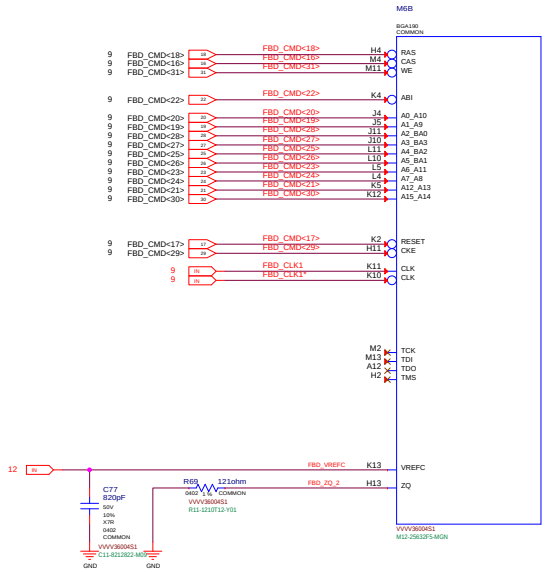

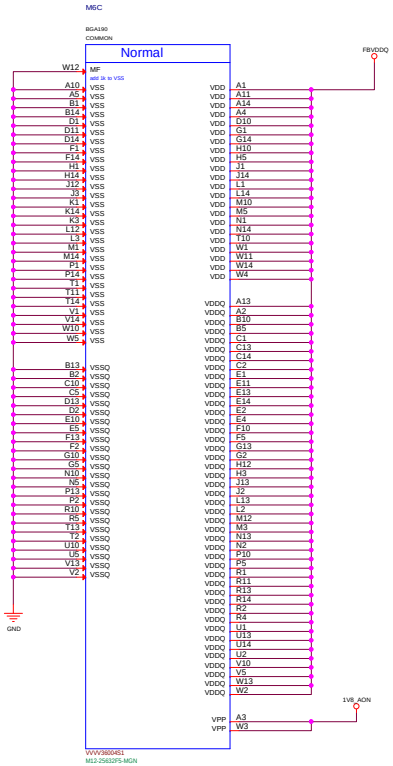

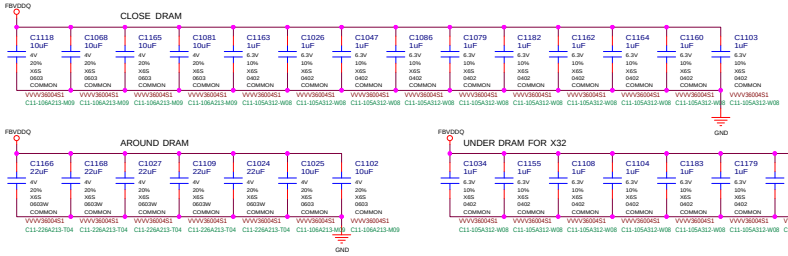

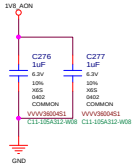

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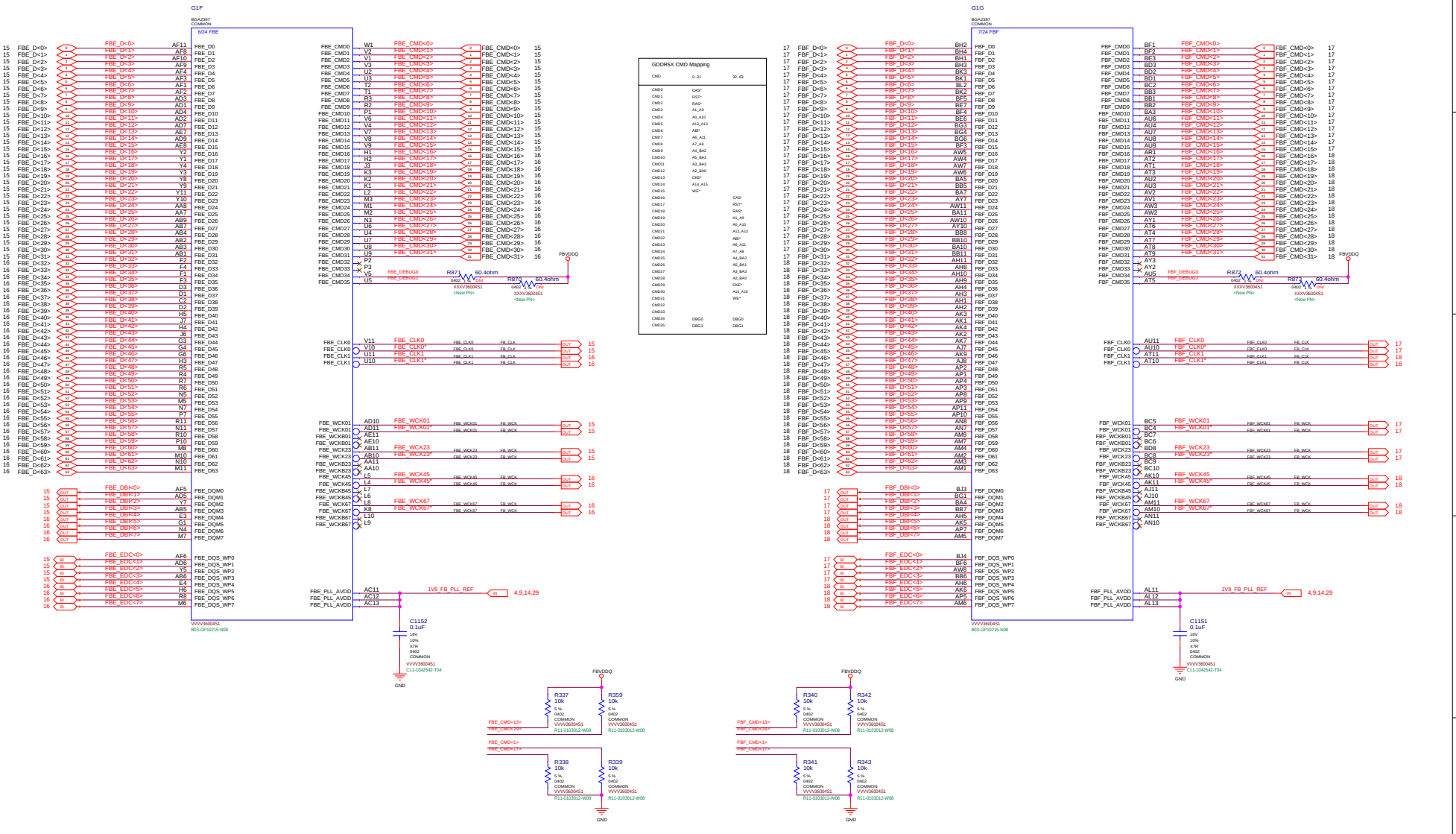

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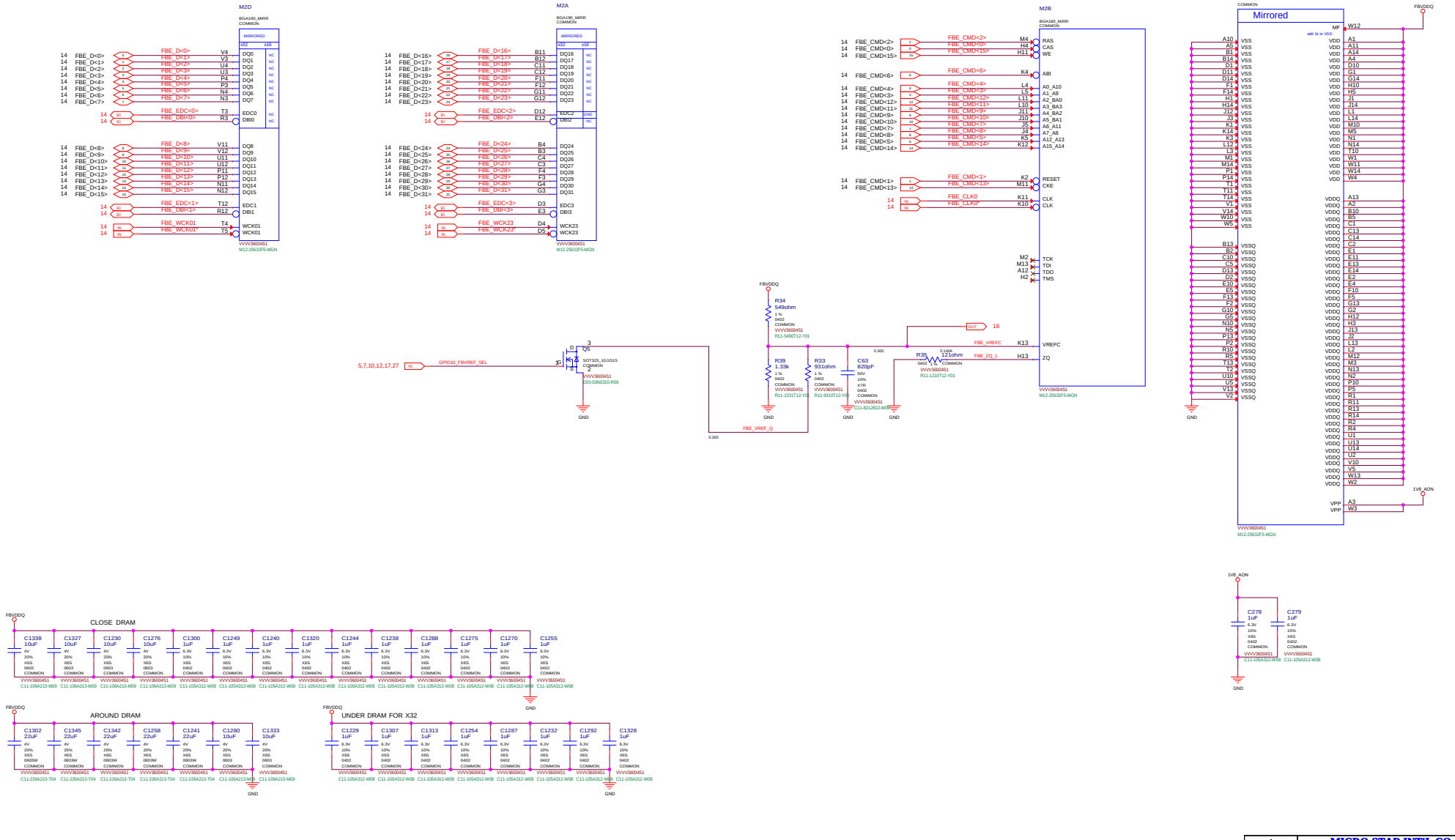

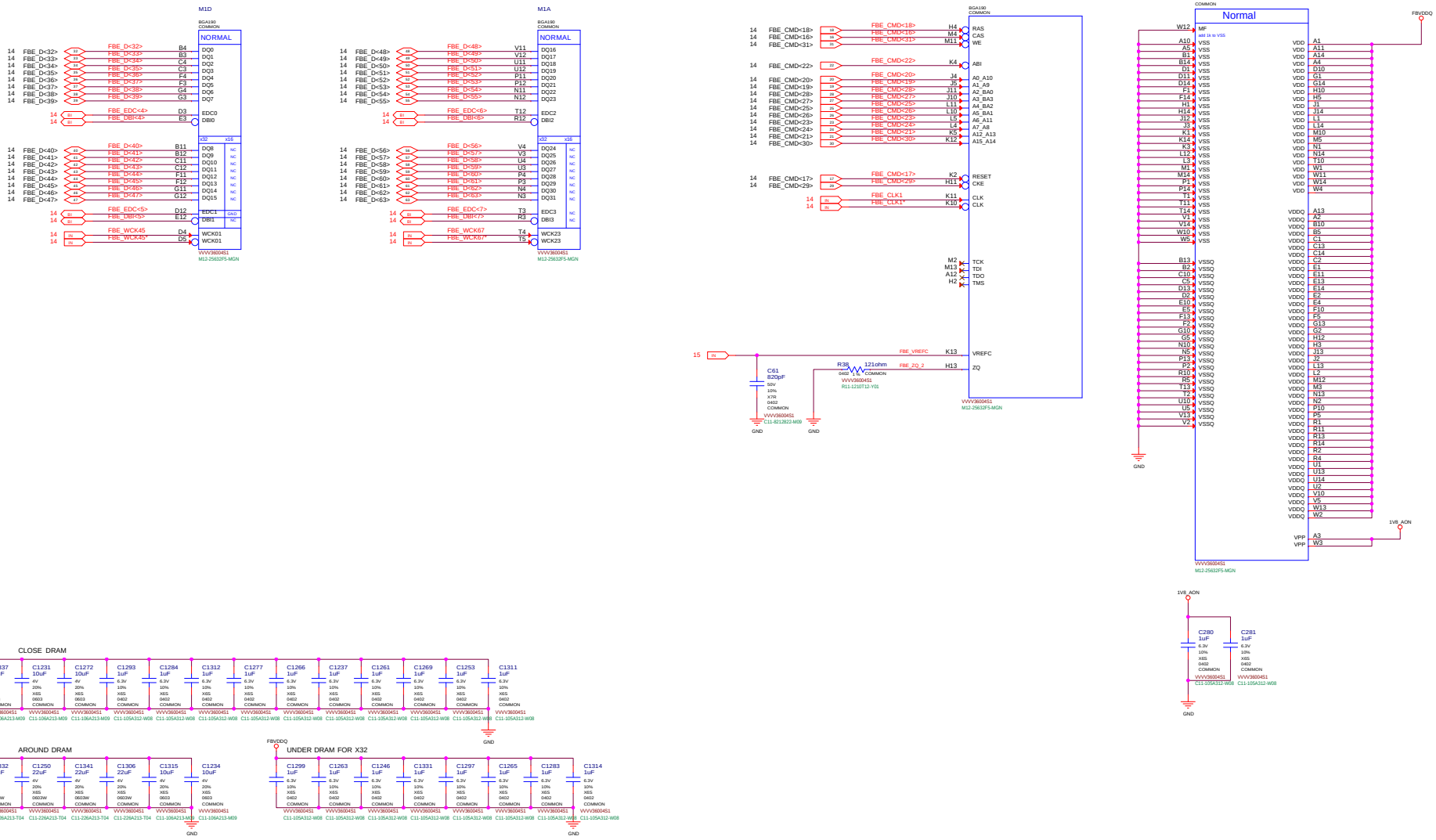

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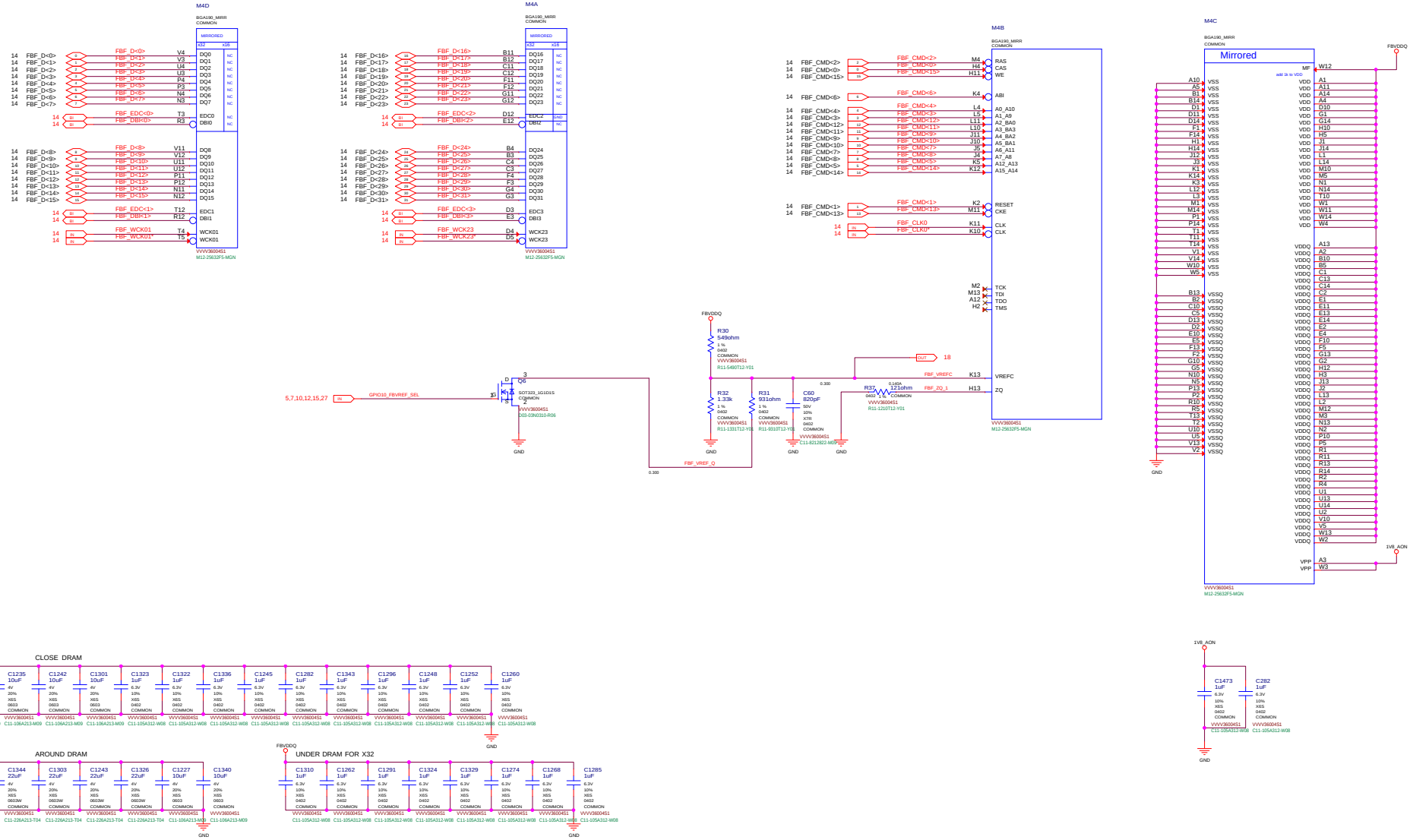

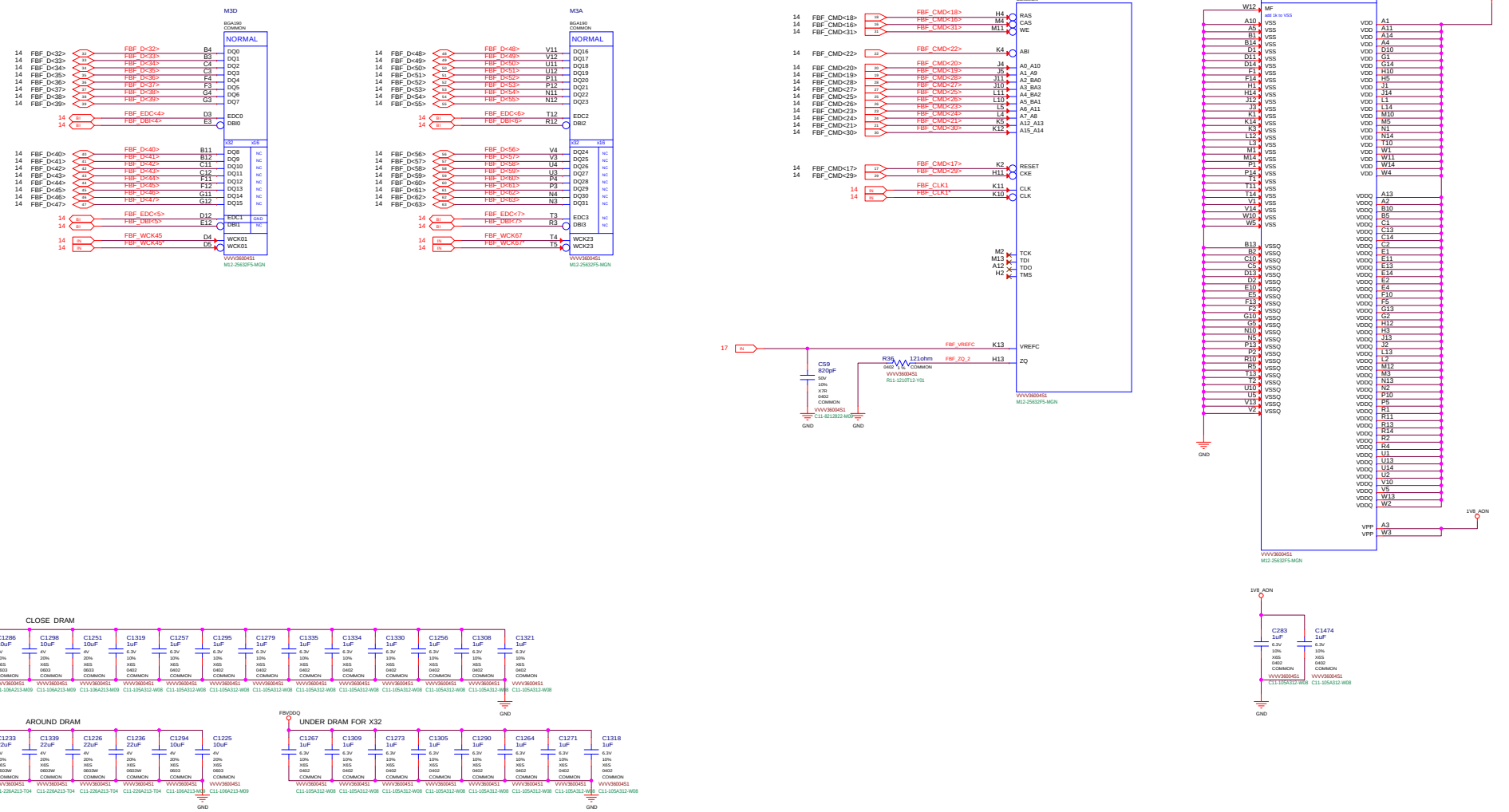
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M3A
M3B
M3C
NORMAL
Normal
CLOSE DRAM
AROUND DRAM
UNDER DRAM FOR X32
FBVDDQ
1V8_AON
GND
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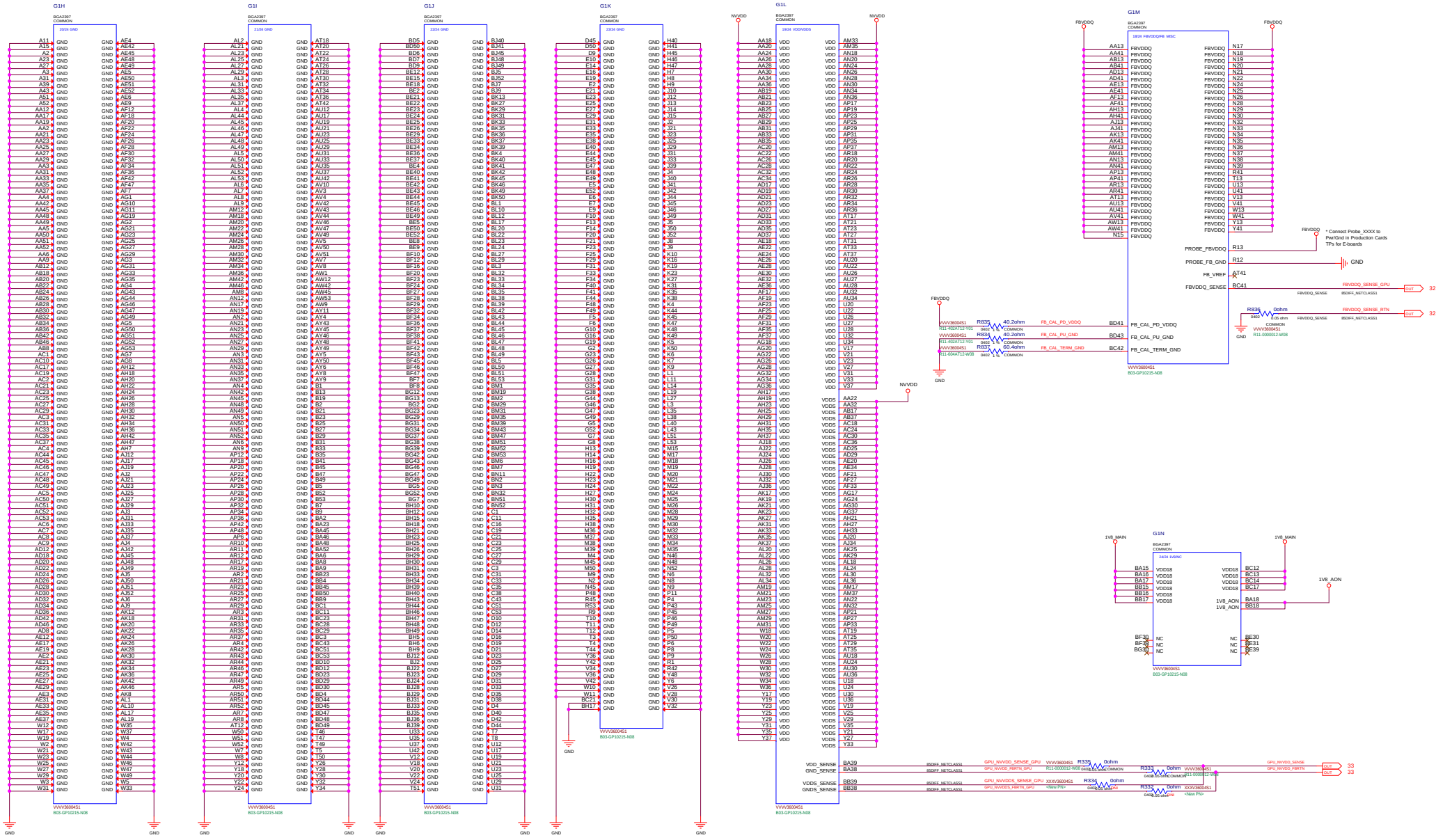

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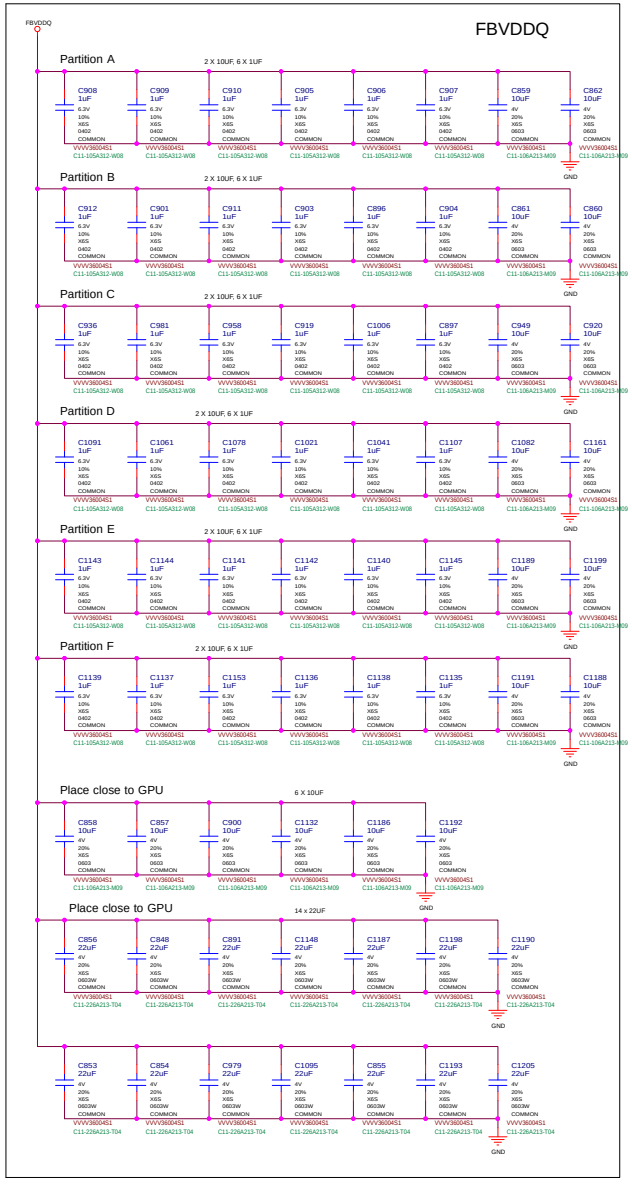

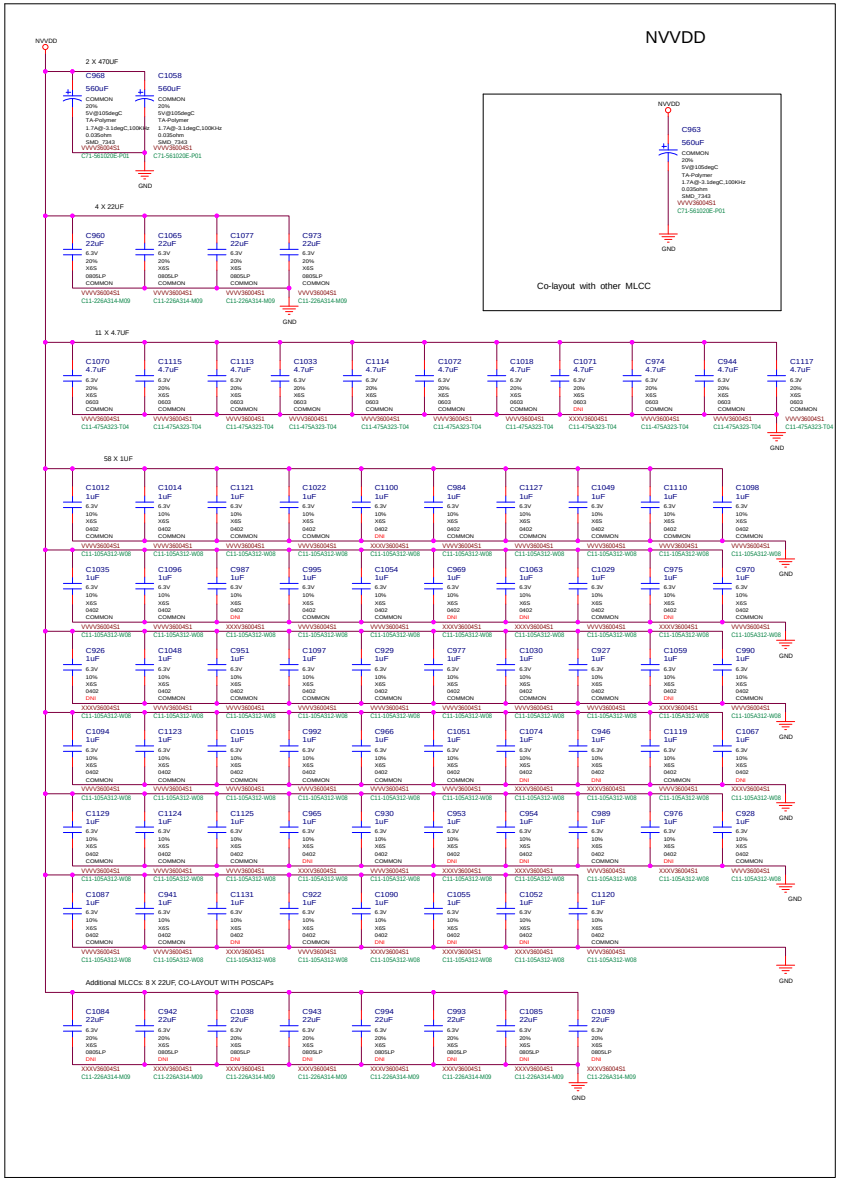

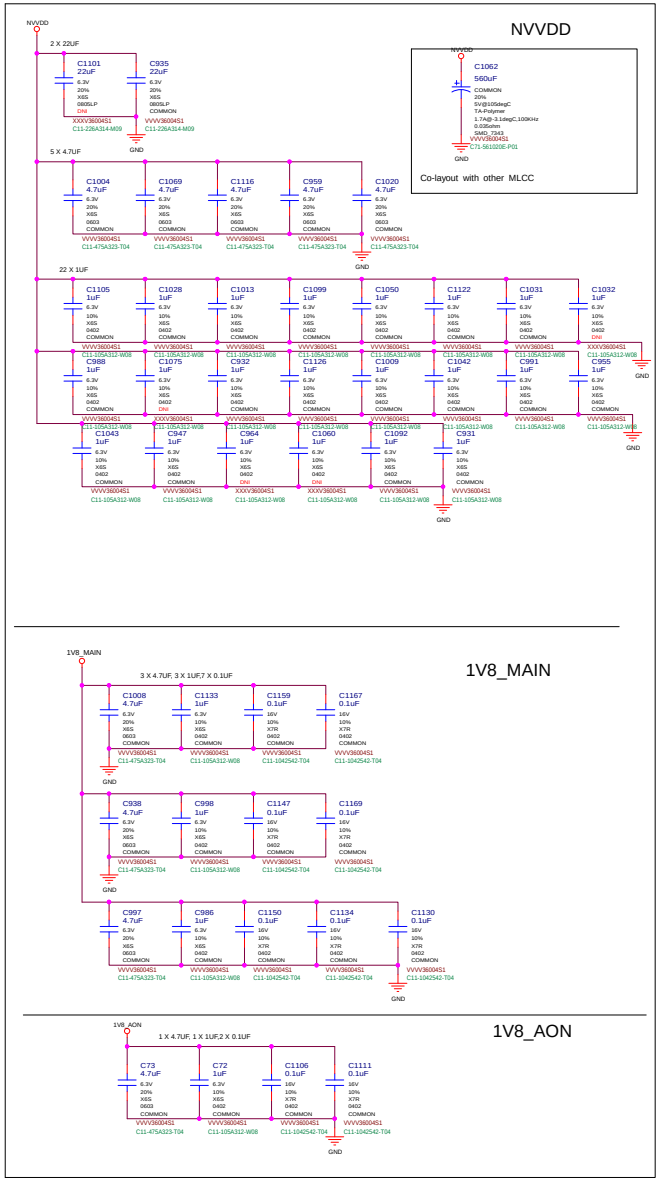

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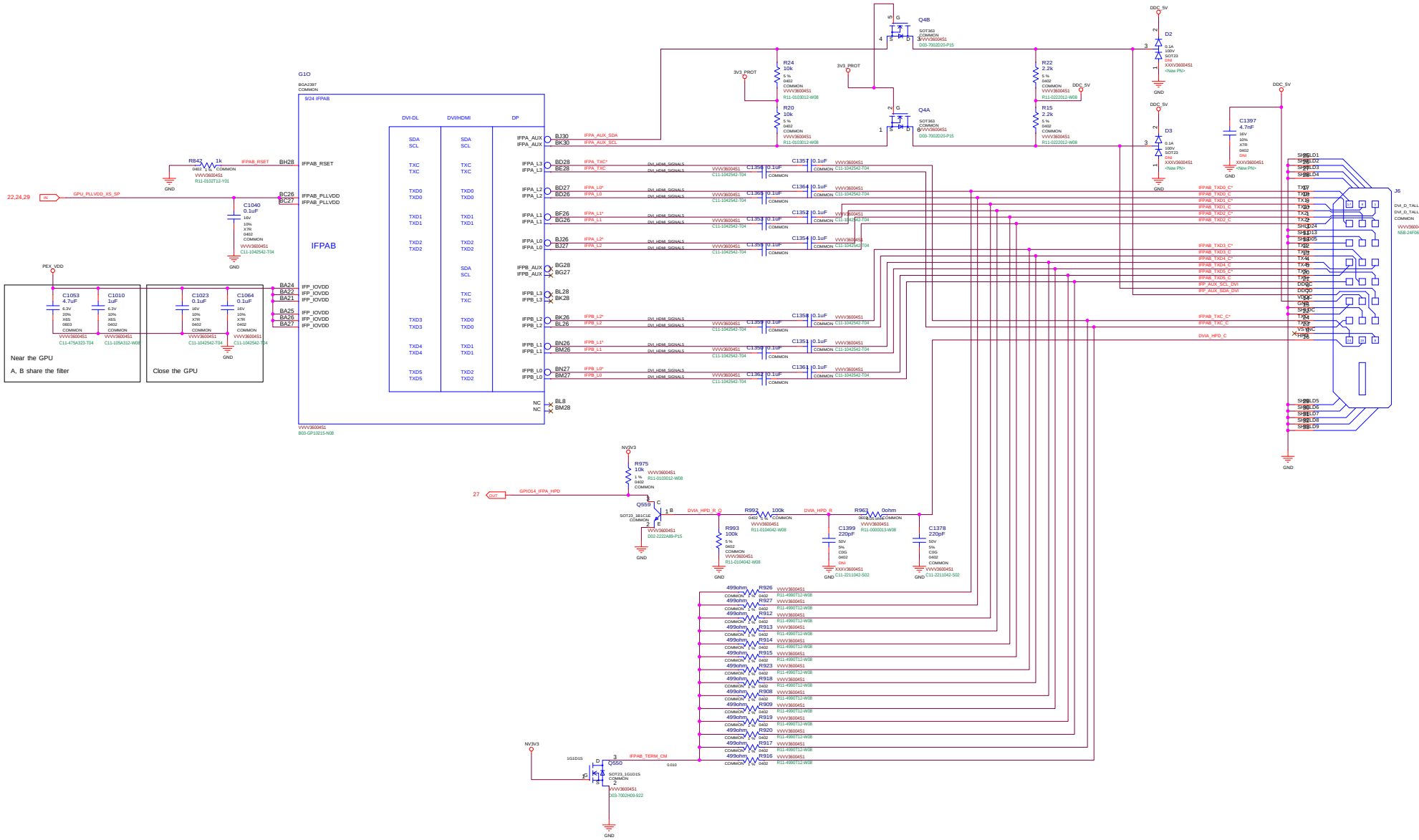

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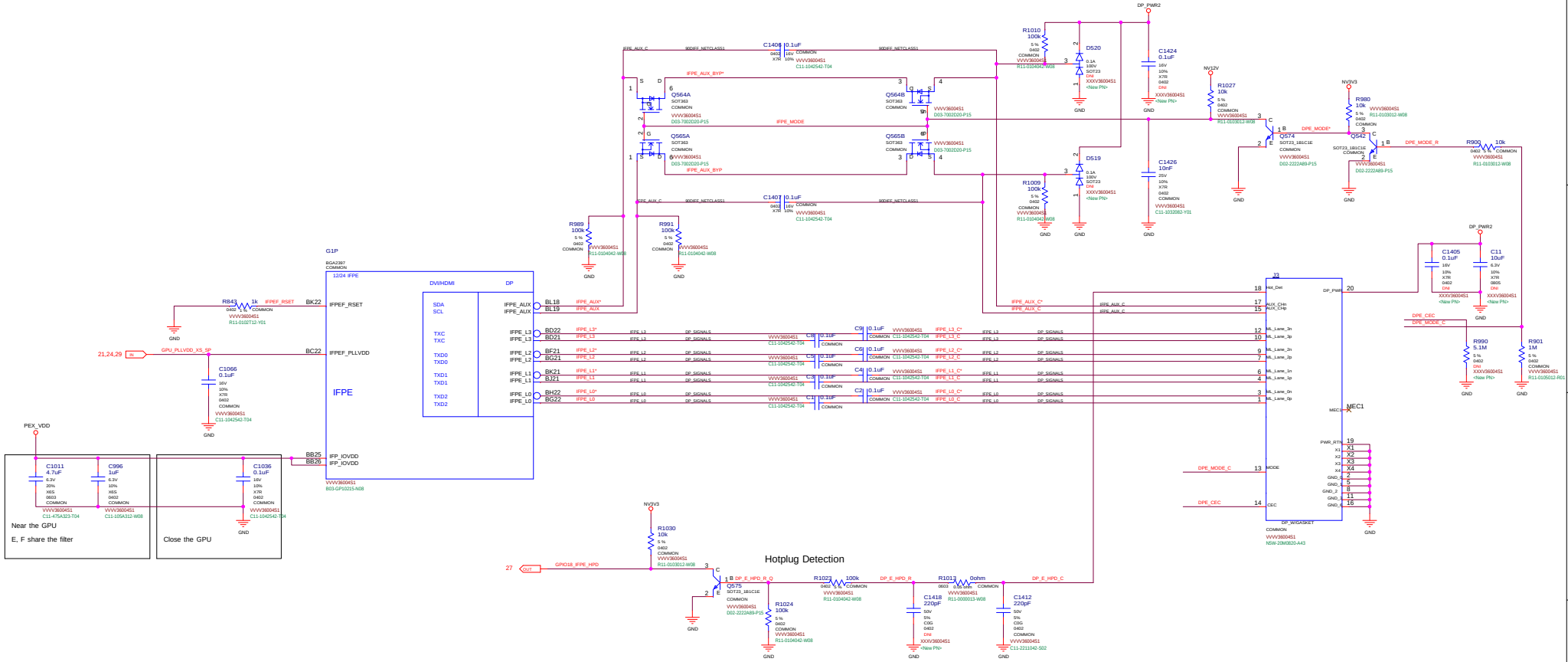

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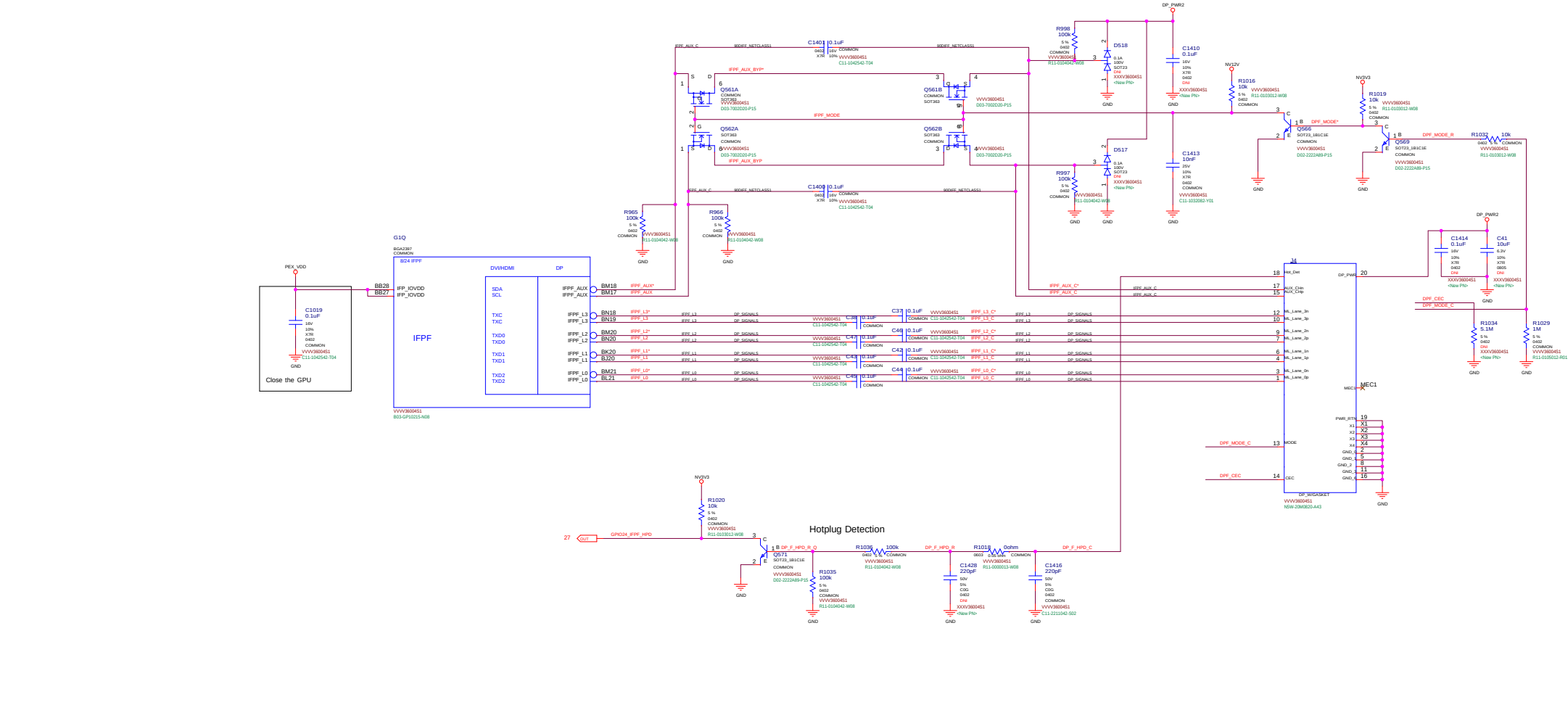
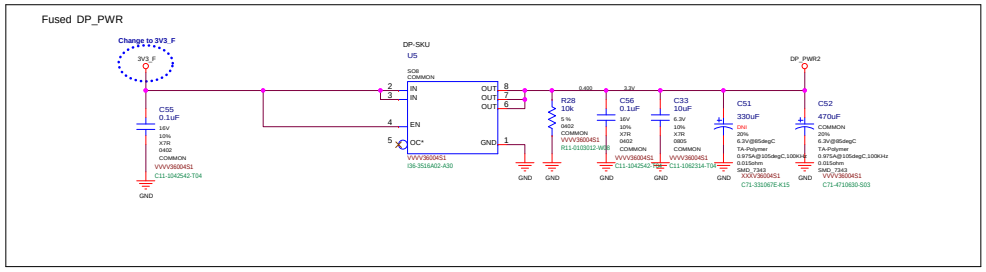
Page23: IFPF DP





MICRO-STAR INT'L CO.,LTD		
MS-V360		
Size: Custom	Document Description: IFPF DP	Rev: 2.0
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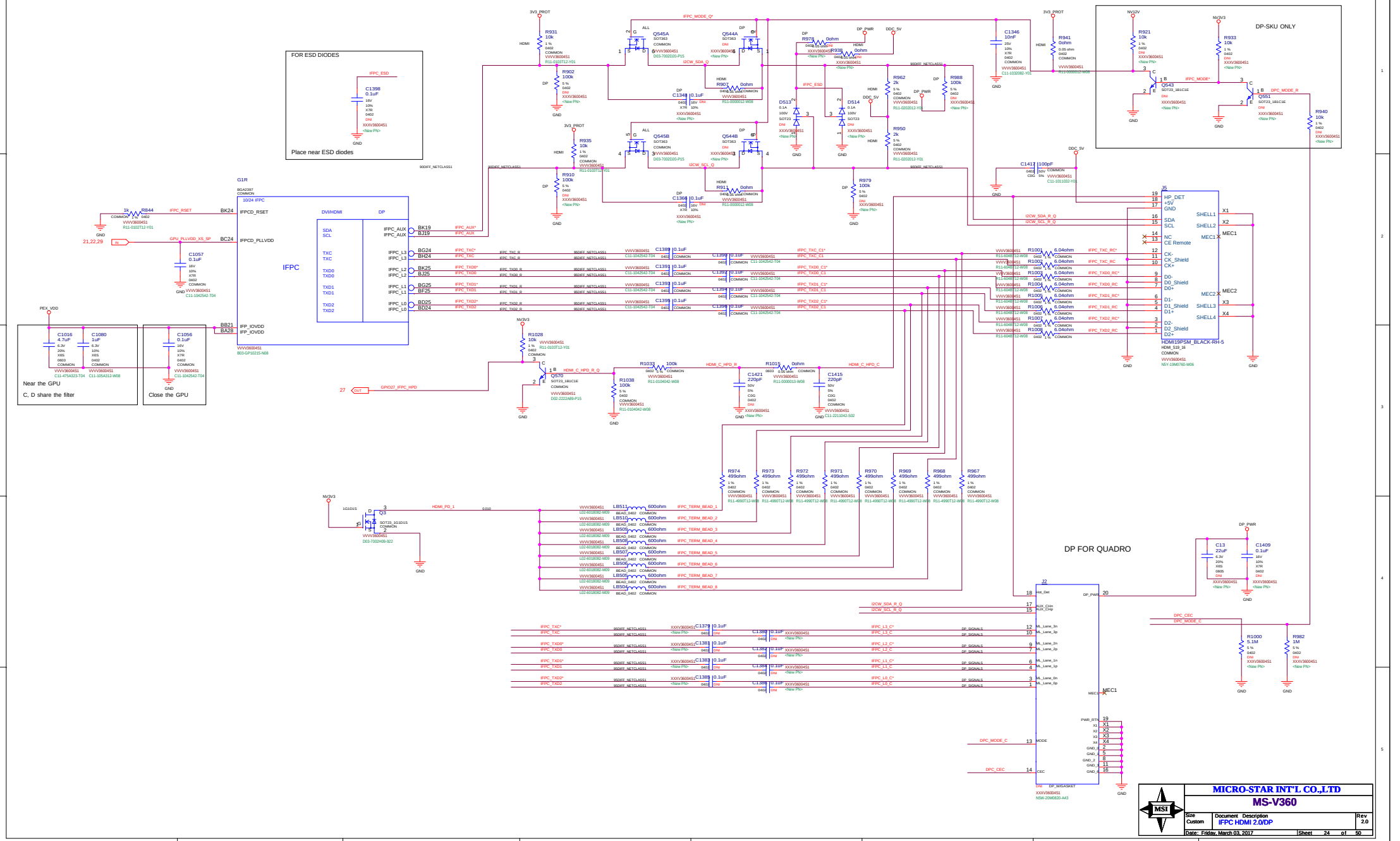
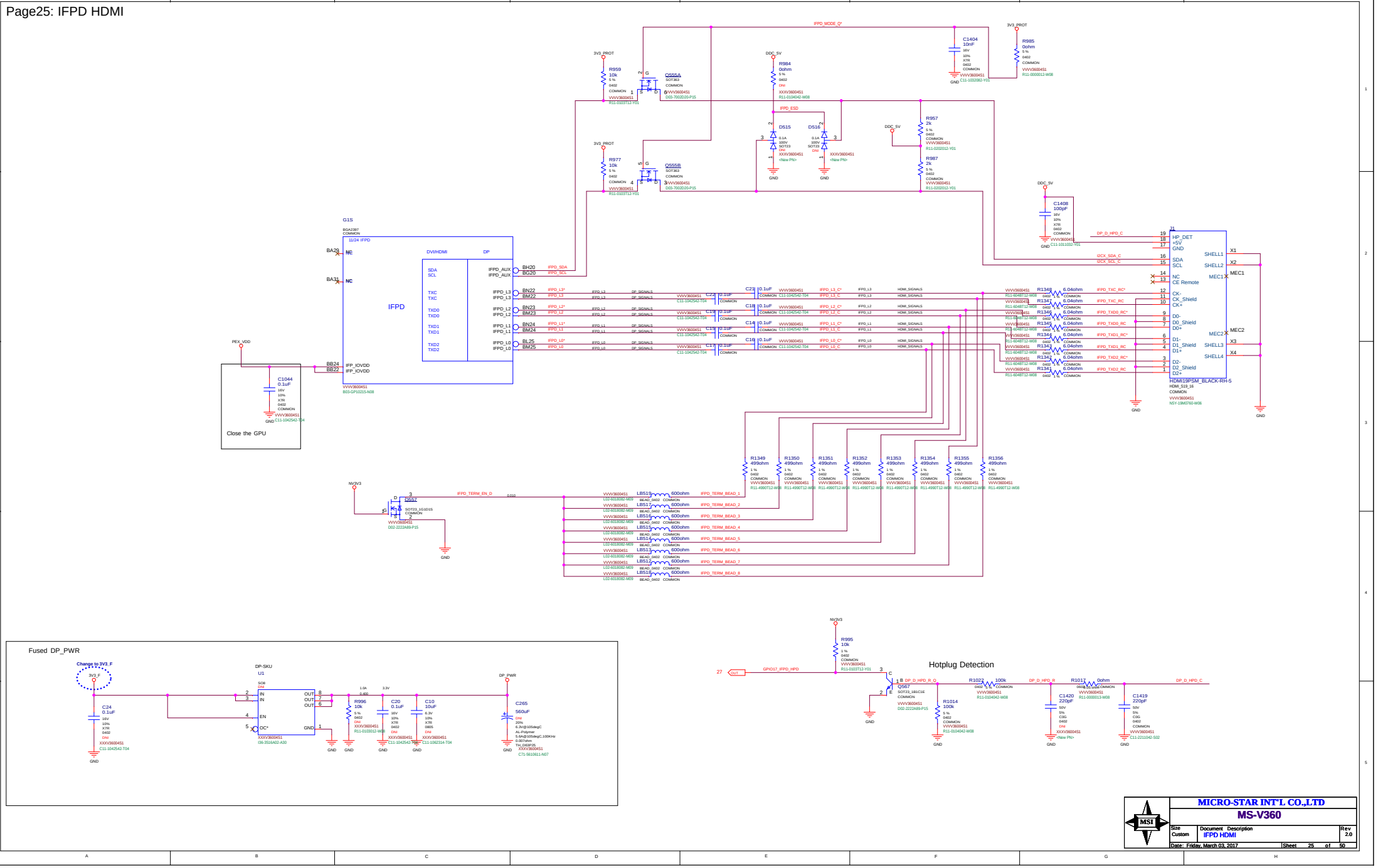
Page24: IFPC HDMI 2.0/DP



Page25: IFPD HDMI



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MS-V360			
Size: Custom	Document Description: IFPD HDMI		Rev: 2.0
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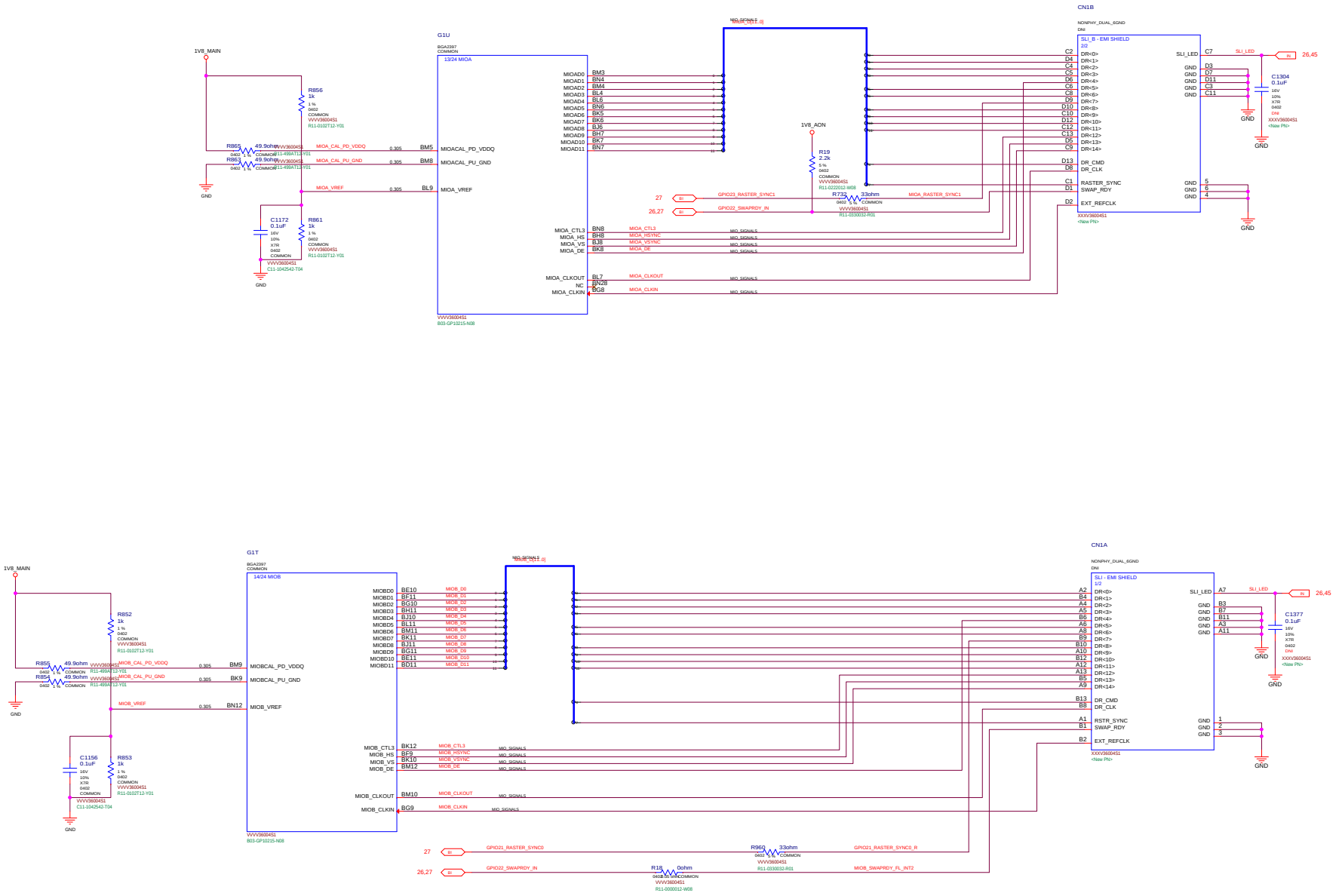
Page26: MIOA/B Interface



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Size: Custom	Document Description: MIOA/B Interface	Rev: 2.0
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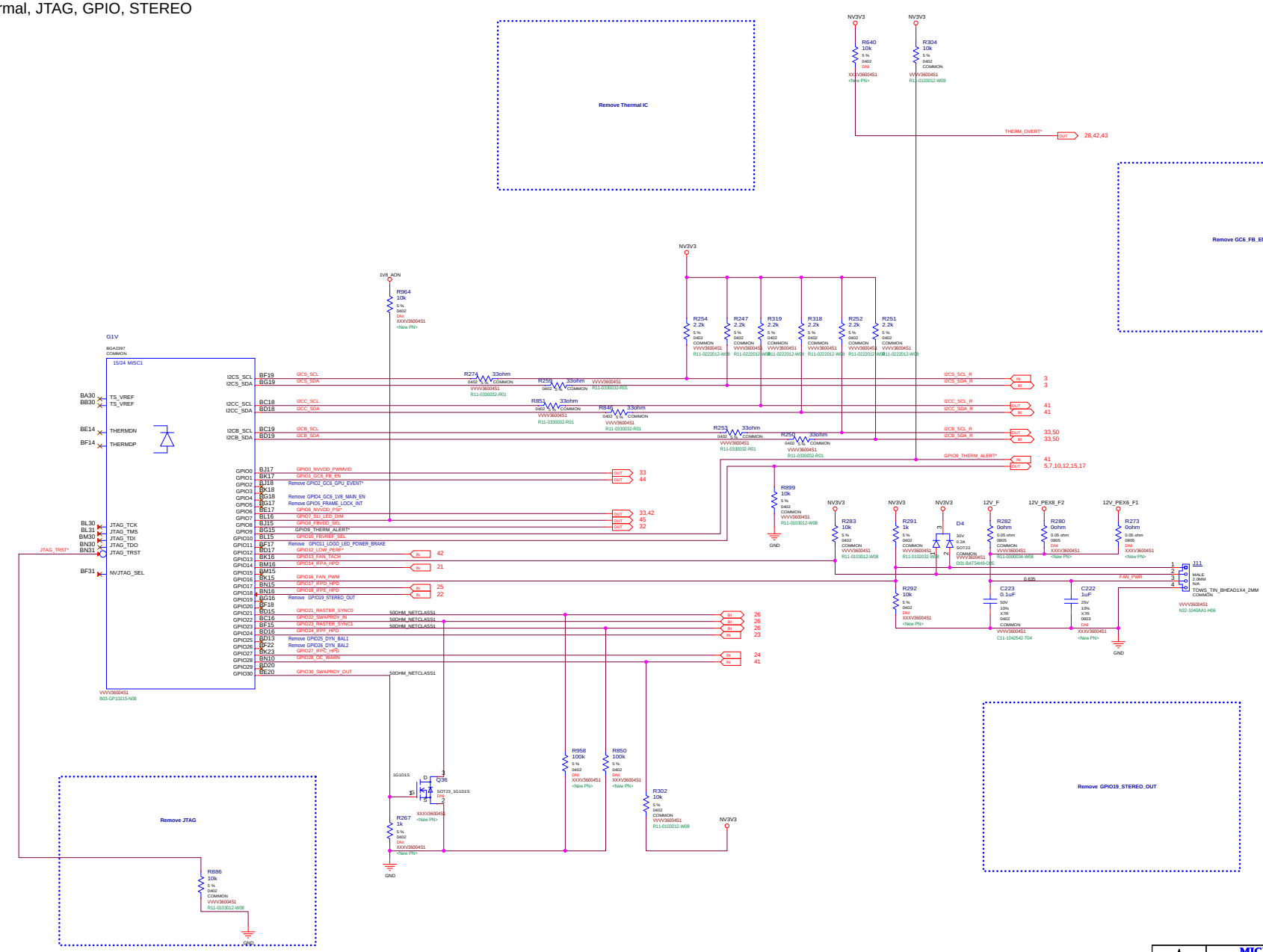
Page27: MISC1: Fan, Thermal, JTAG, GPIO, STEREO



MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: MISC1: Fan, Thermal, JTAG, GPIO, STEREO
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Page28: MISC2: ROM, Straps

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	SOR0/1/2/3 ENABLE
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	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

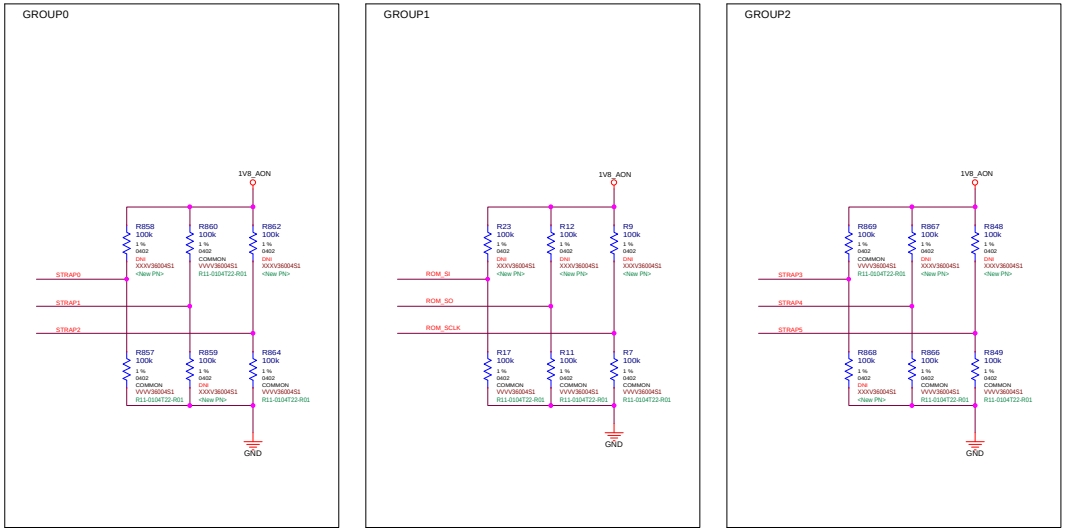
H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

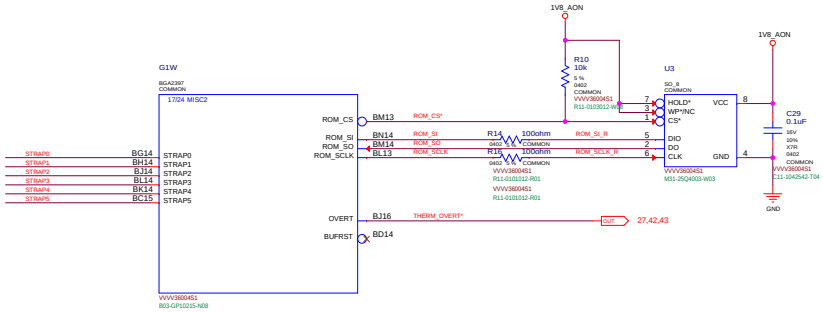
1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

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





MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: MISC2: ROM, Straps
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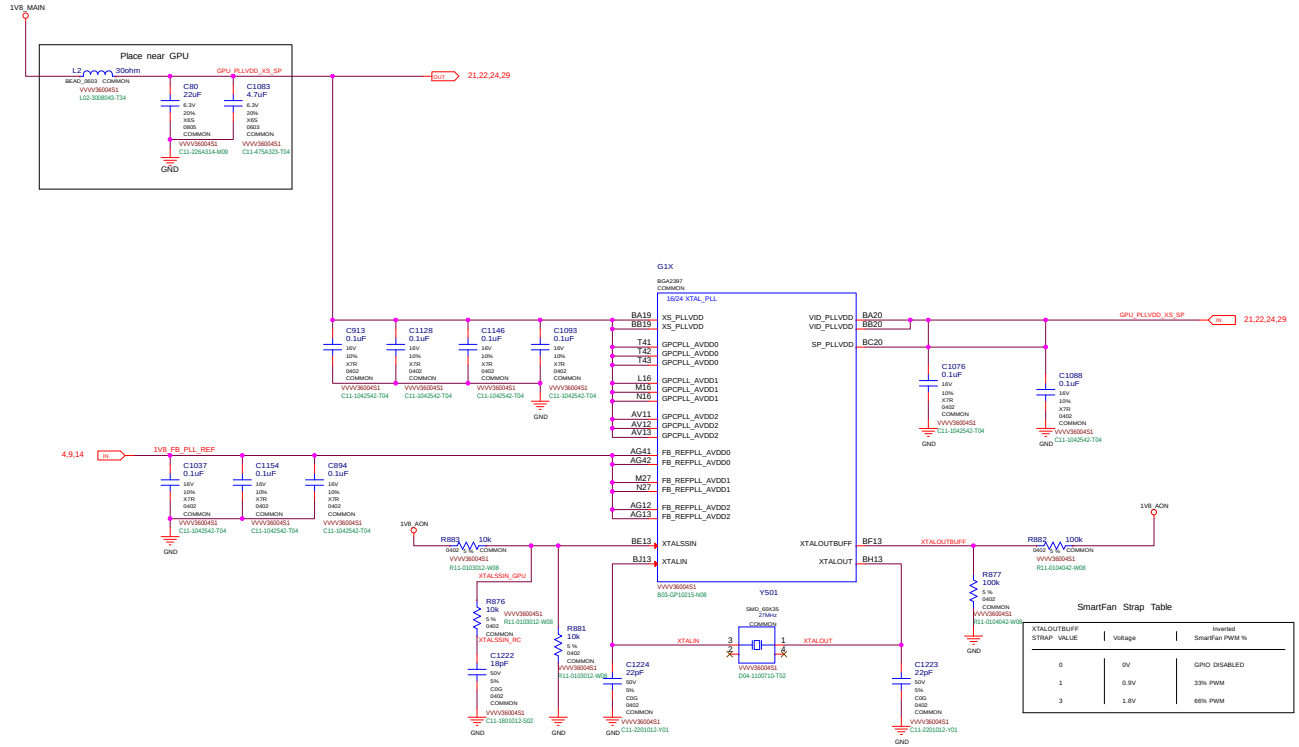

MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: MISC2: XTAL. PLL
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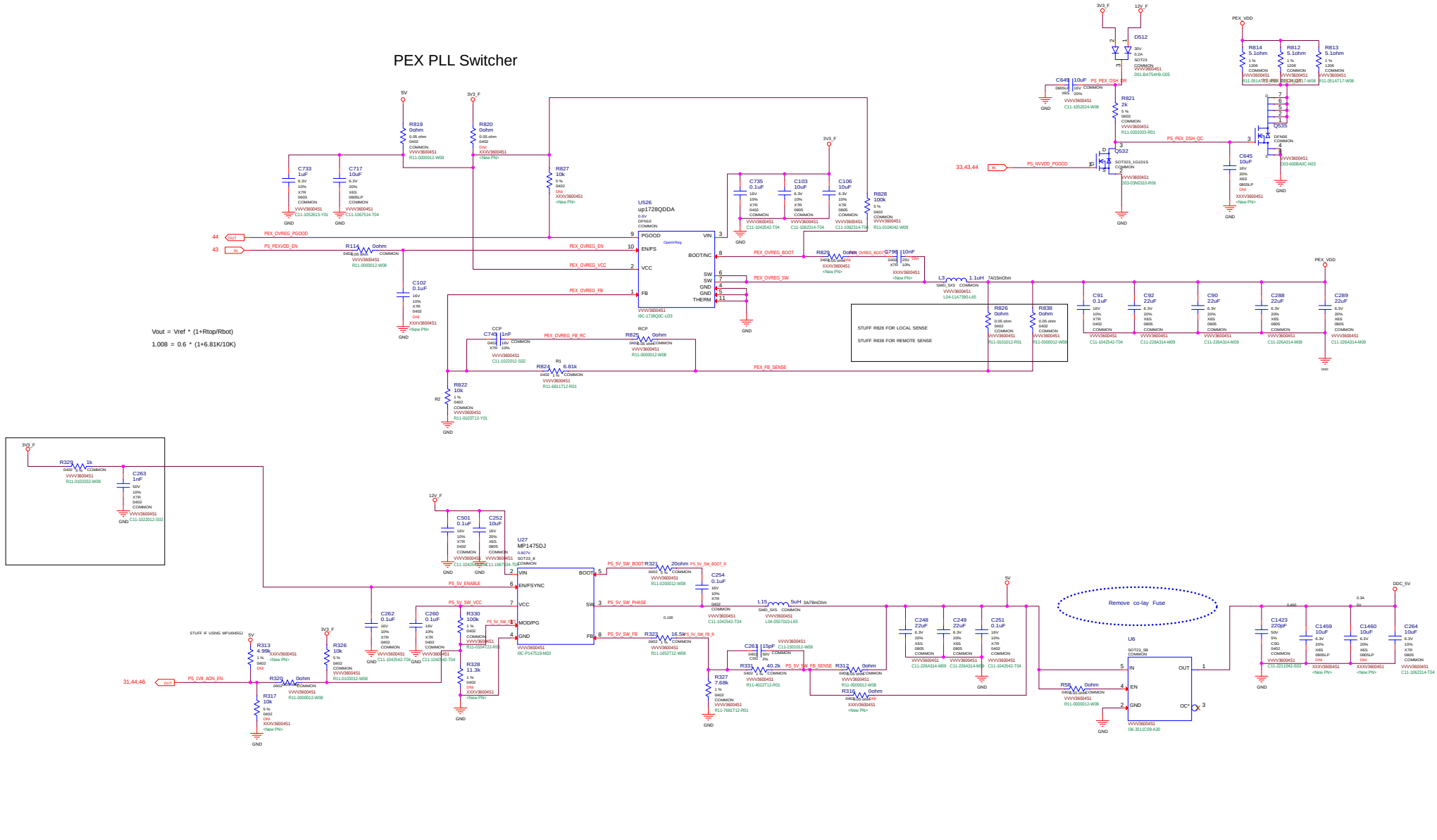
PEX PLL Switcher
Vout = Vref * (1+Rtop/Rbot)
1.008 = 0.6 * (1+6.81K/10K)
STUFF R826 FOR LOCAL SENSE
STUFF R838 FOR REMOTE SENSE
Remove co-lay Fuse
STUFF IF USING MP1495GJ
U526
up1728QDDA
U27
MP1475DJ
U6
PEX_VDD
PS_PEXVDD_EN
PS_PEX_OVREG_PGOOD
PS_PEX_OVREG_EN
PS_PEX_OVREG_VCC
PS_PEX_OVREG_FB
PS_PEX_OVREG_BOOT
PS_PEX_OVREG_SW
PS_PEX_OVREG_FB_RC
PS_PEX_FB_SENSE
PS_5V_ENABLE
PS_5V_SW_VCC
PS_5V_SW_BOOT
PS_5V_SW_PHASE
PS_5V_SW_FB
PS_5V_SW_FB_R
PS_5V_SW_FB_SENSE
PS_1V8_ADN_EN
PS_NVDD_PGOOD
PS_PEX_DSH_QC
PS_PEX_DSH_SR
DDC_5V
MICRO-STAR INT'L CO.,LTD
MS-V360
PS: 5V, PEX_VDD
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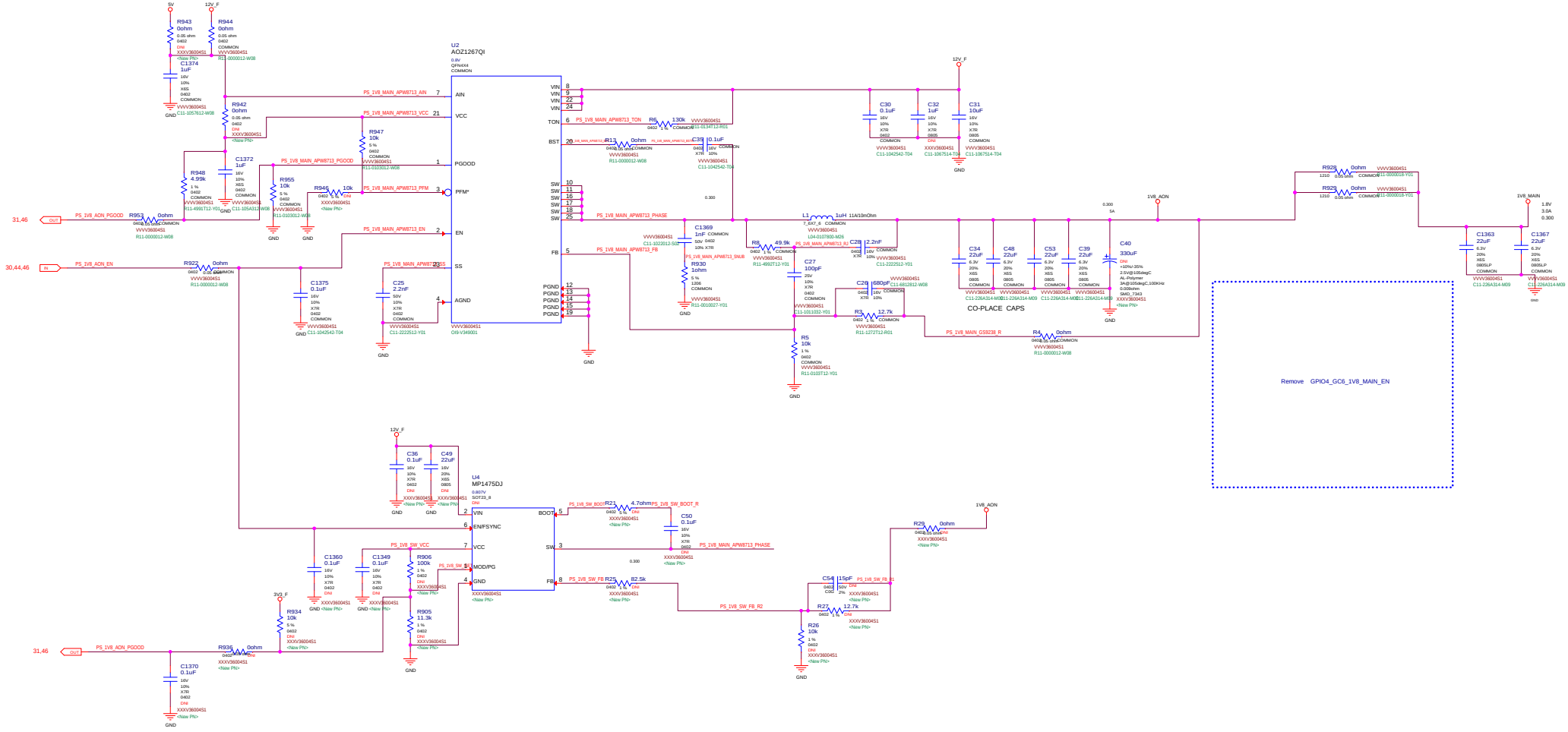
Page31: PS: 1V8 Rails



MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: PS: 1V8 Rails
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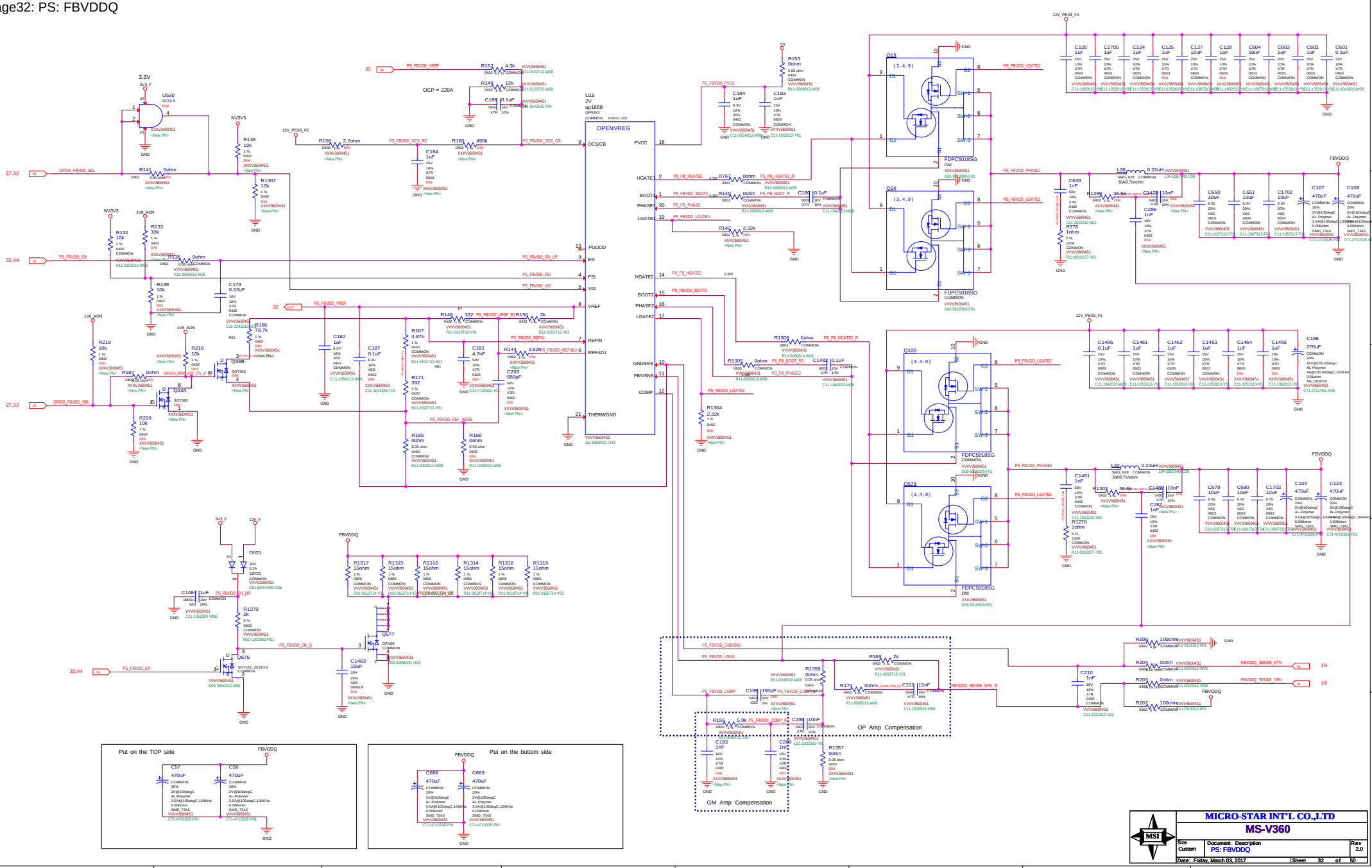
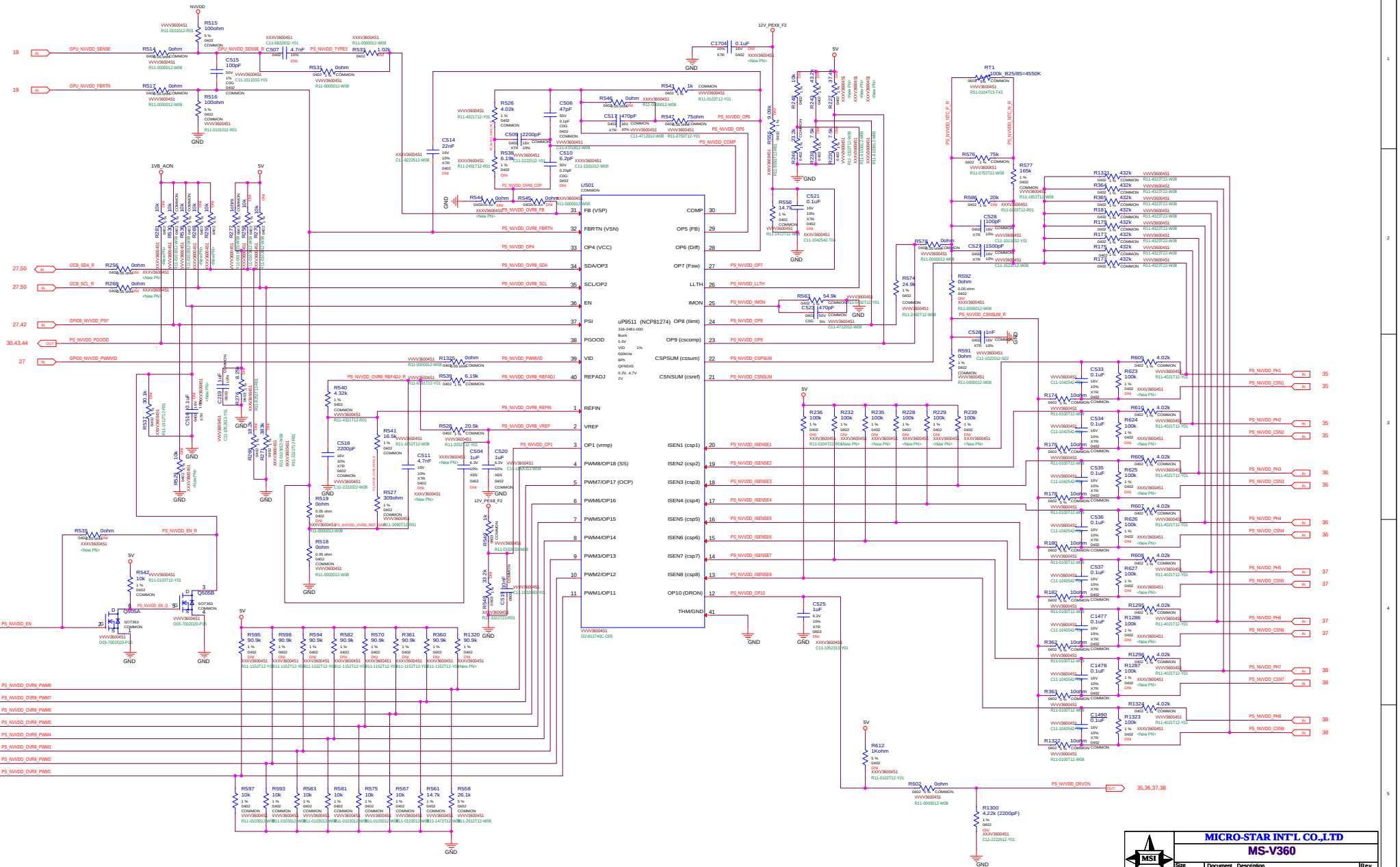
Page32: PS: FBVDDQ



Page33: PS: NVVDD Controller_OVR8



Page34: PS: NVVDD CONTROLLER_PWR-MODULE

MSI	MICRO-STAR INT'L CO.,LTD MS-V360	
Size: Custom	Document Description: PS: NVVDD CONTROLLER_PWR-MODULE	Rev: 2.0
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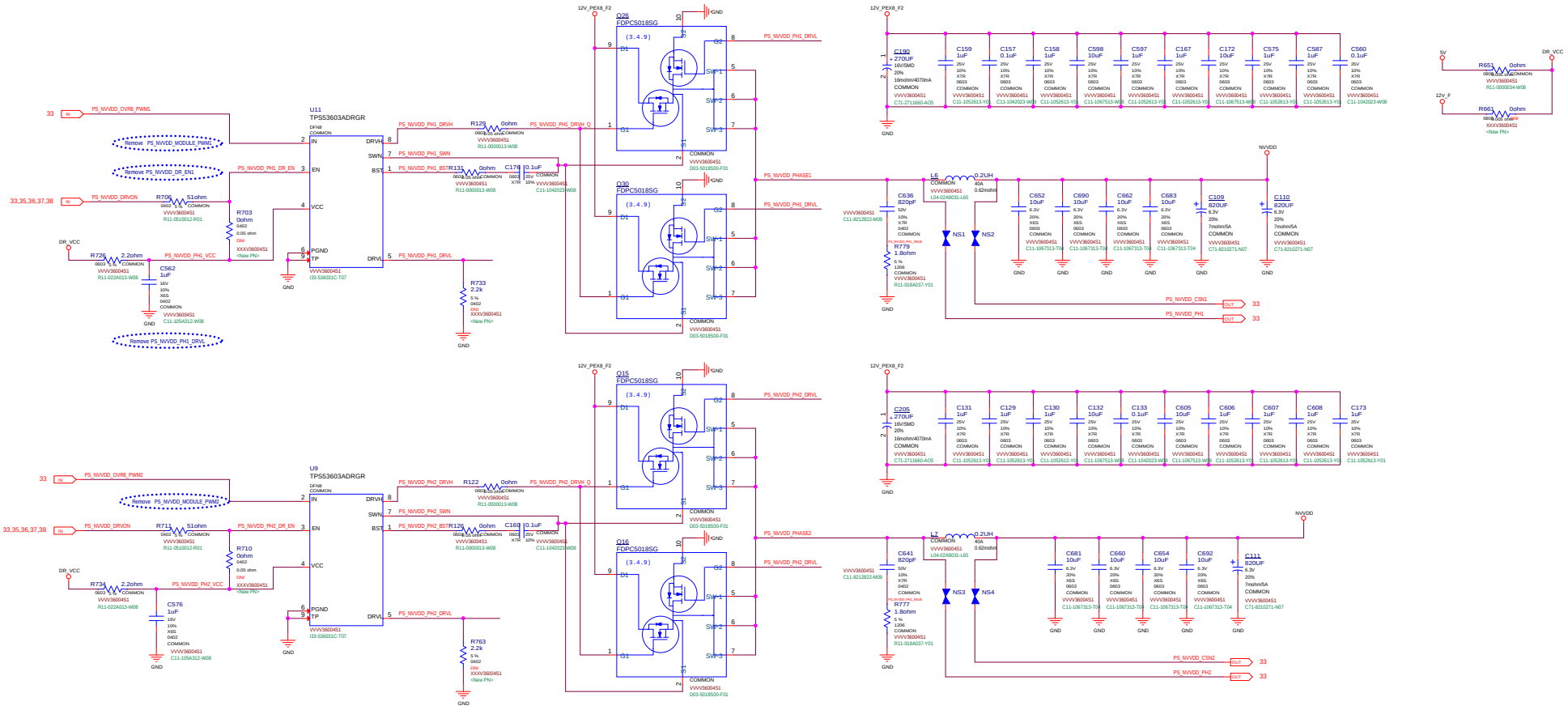
Page35: PS: NVVDD Phase 1,2



MICRO-STAR INT'L CO.,LTD	
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Size: Custom	Document Description: PS: NVVDD Phase 1,2
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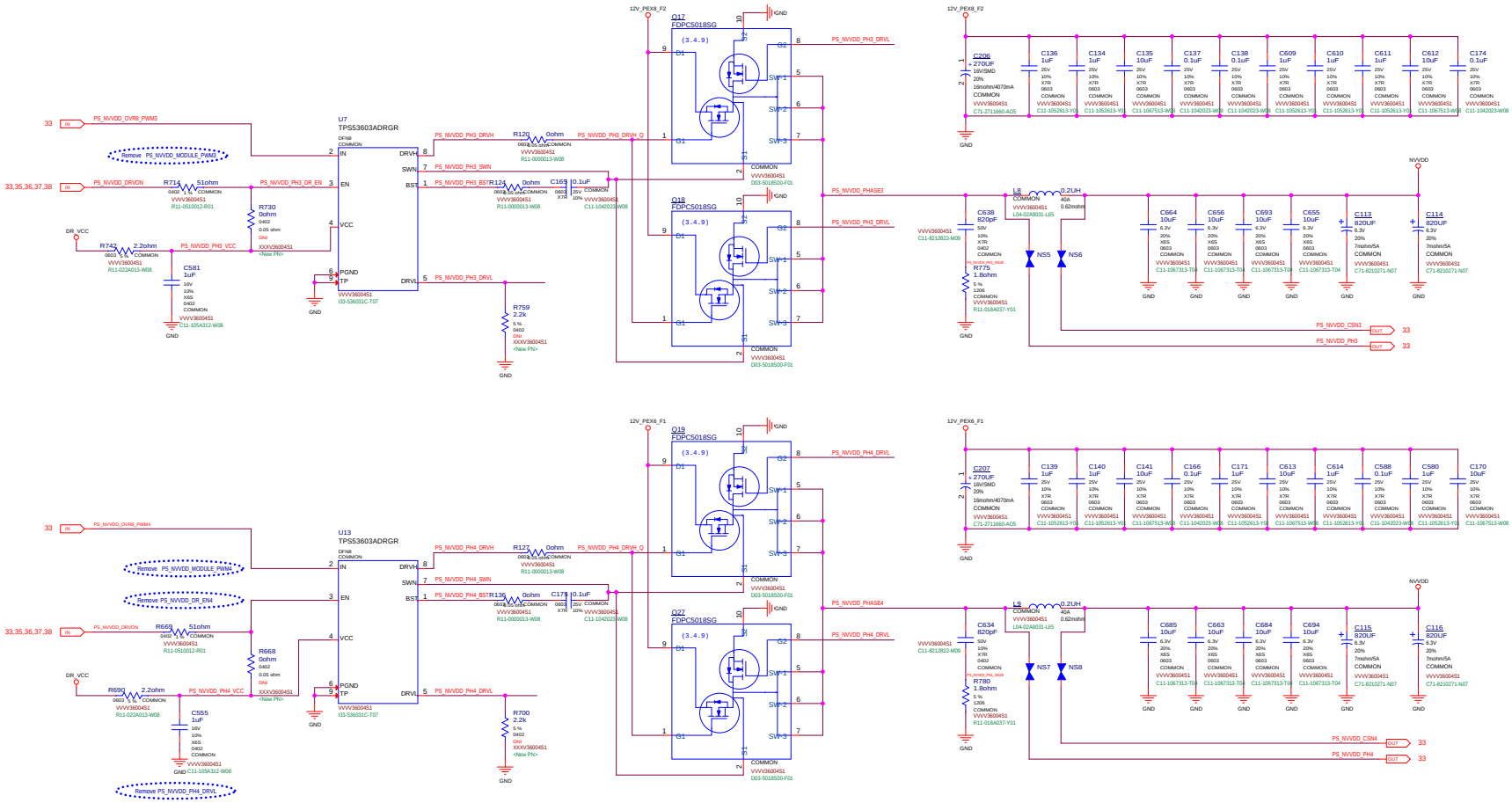
Page36: PS: NVVDD Phase 3,4



MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: PS: NVVDD Phase 3,4
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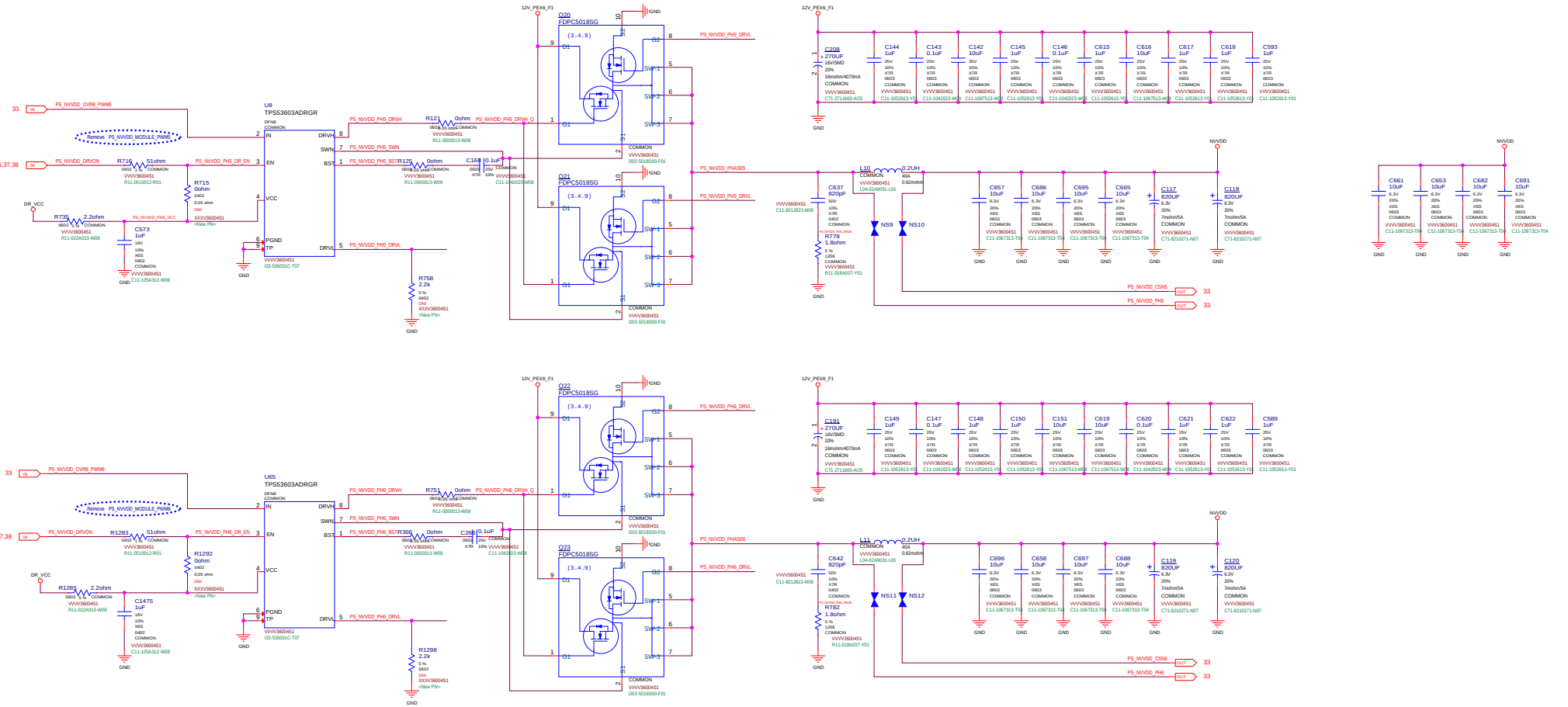
Page37: PS: NVVDD Phase 5,6



MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: PS: NVVDD Phase 5,6
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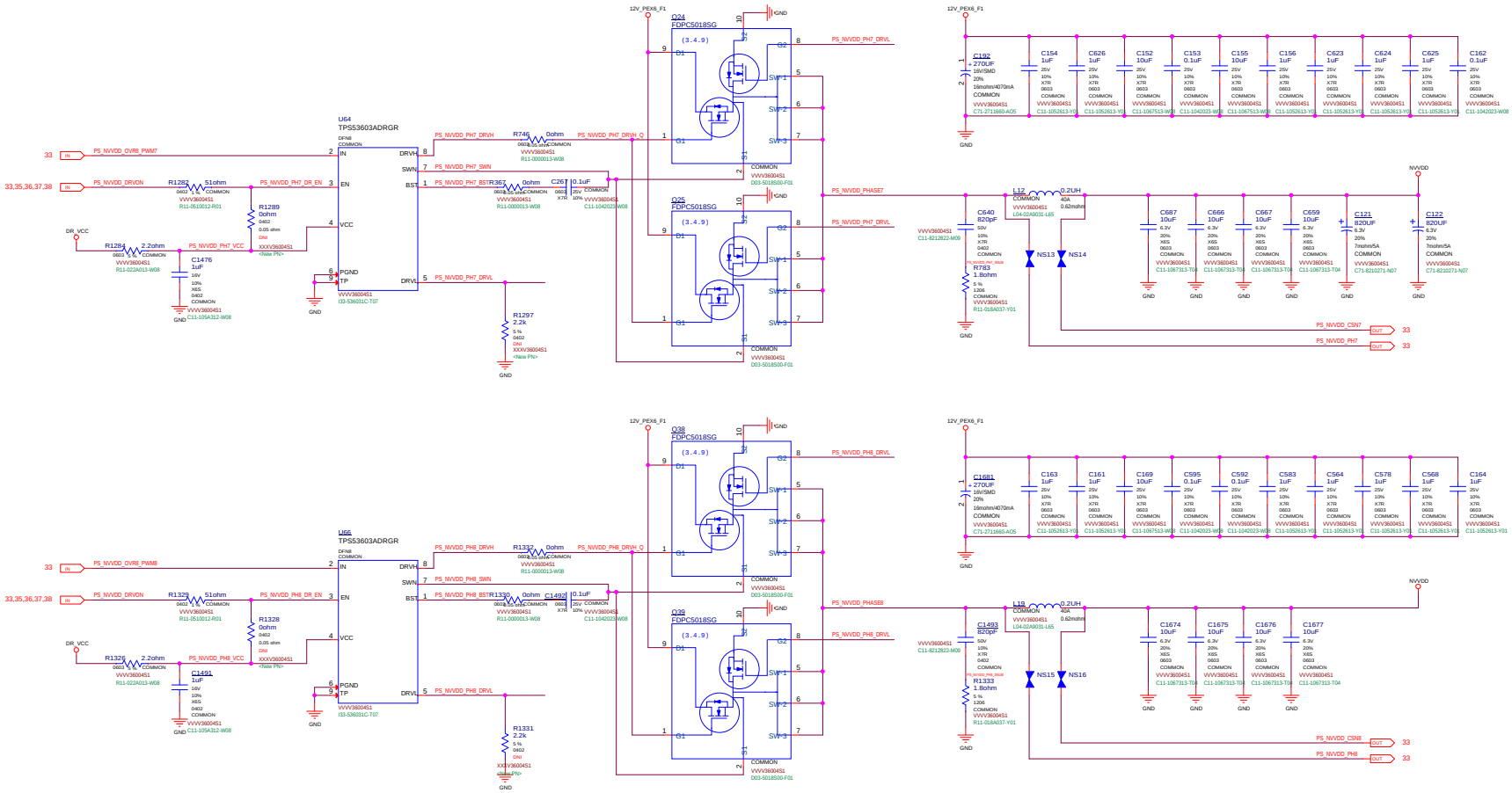

MICRO-STAR INT'L CO.,LTD			
MS-V360			
Size: Custom	Document Description: PS:NVVDD Phase 6,7		Rev: 2.0
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Page39: PS: Dynamic Power Balance Phases

MICRO-STAR INT'L CO.,LTD	
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Page40: PS: Dynamic Power Balance Logic

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Size: Custom	Document Description: PS: Dynamic Power Balance Logic
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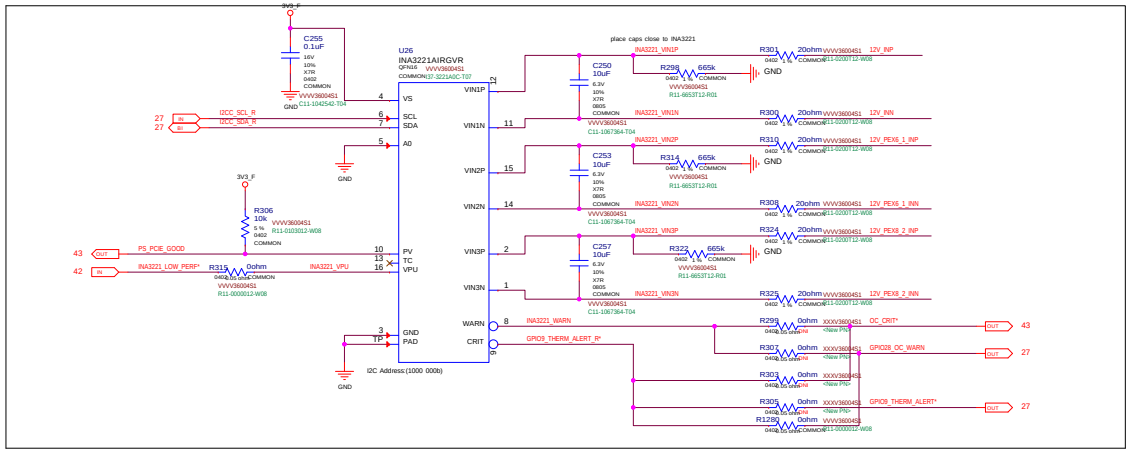
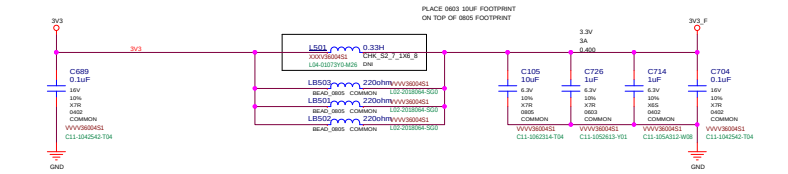
Page41: PS: Inputs, Filtering, and Monitoring



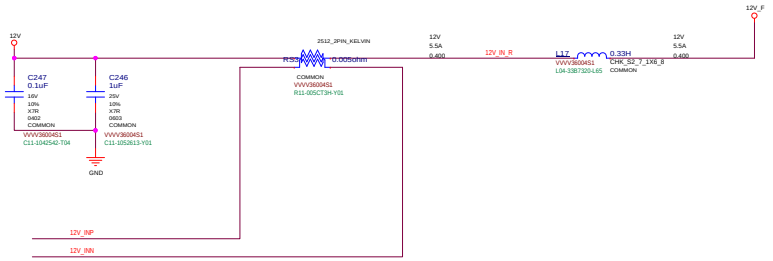
Remove PEX_12V bypass resistors

Remove CPU 8-PIN Power Connector

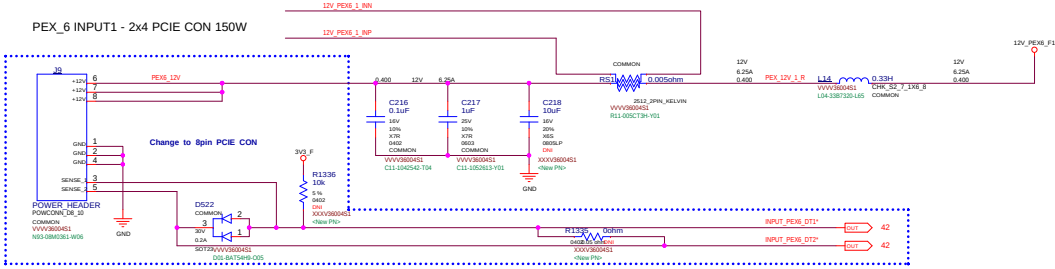
PEX 3V3 INPUT - 10W



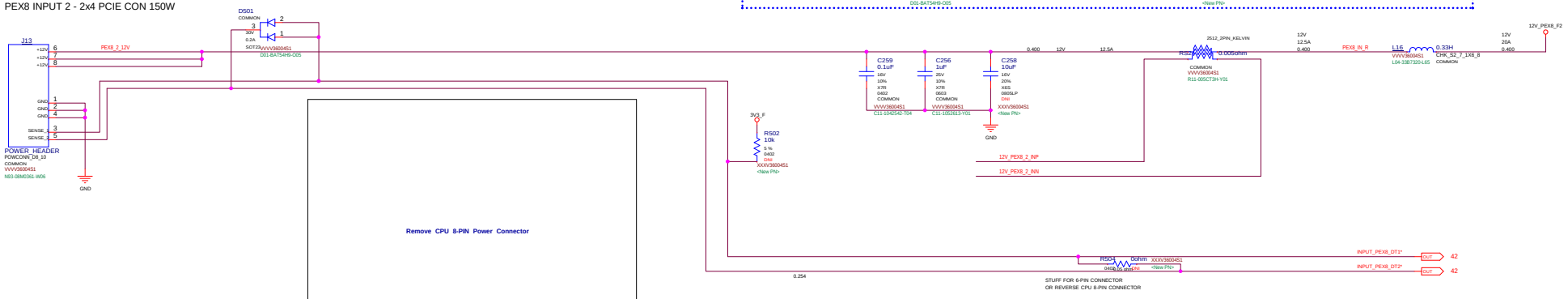
PEX_12V INPUT - 66W



PEX_6 INPUT1 - 2x4 PCIE CON 150W



PEX8 INPUT 2 - 2x4 PCIE CON 150W



MICRO-STAR INT'L CO.,LTD		
MS-V360		
Size: Custom	Document Description: PS: Inputs, Filtering, and Monitoring	Rev: 2.0
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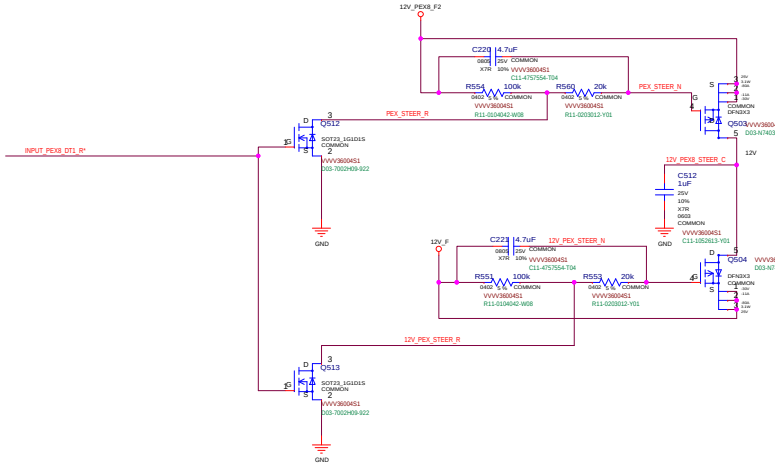
Page42: PS: 12V Current Steering & Hot Unplug Detect

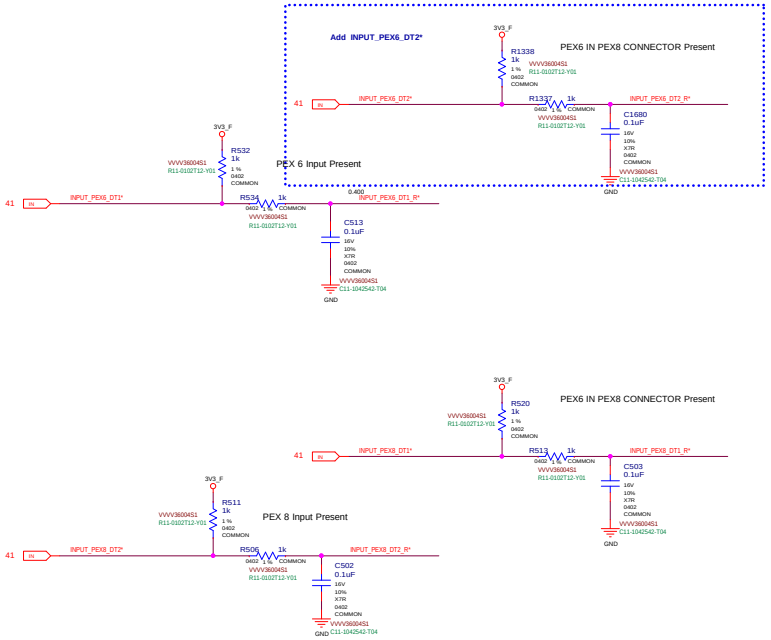
QUADRO/TESLA:

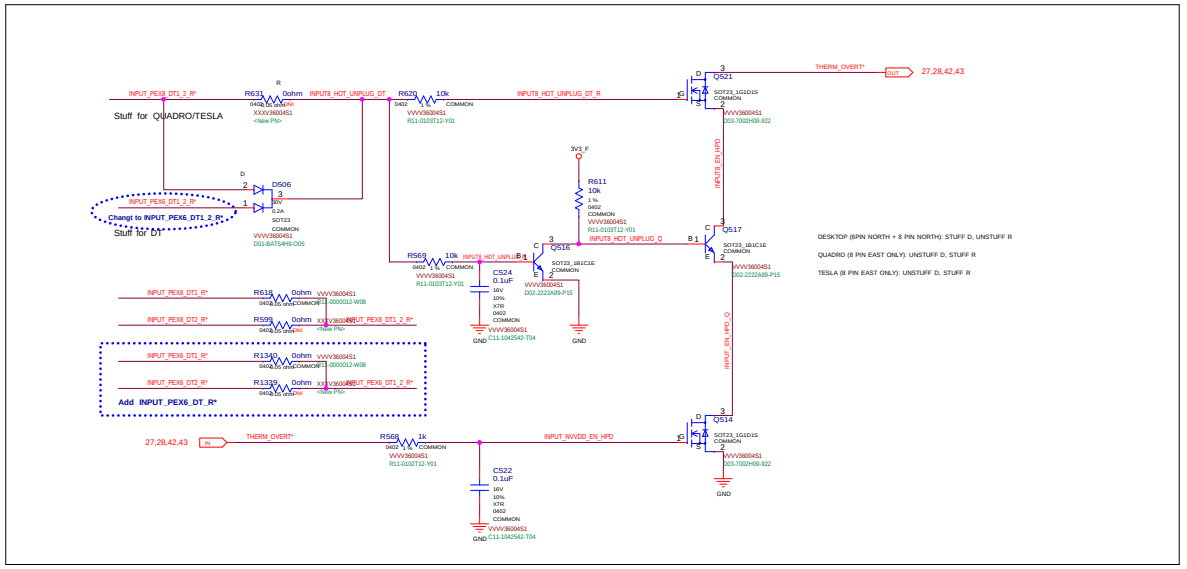
12V CURRENT STEERING (UNDER POWER BOOT):

GUIDES CURRENT FROM PEX EDGE TO PEX 8 PIN INPUT AREA

For OpenVreg Type4 + Phase Doubler, 2 phase PSI mode



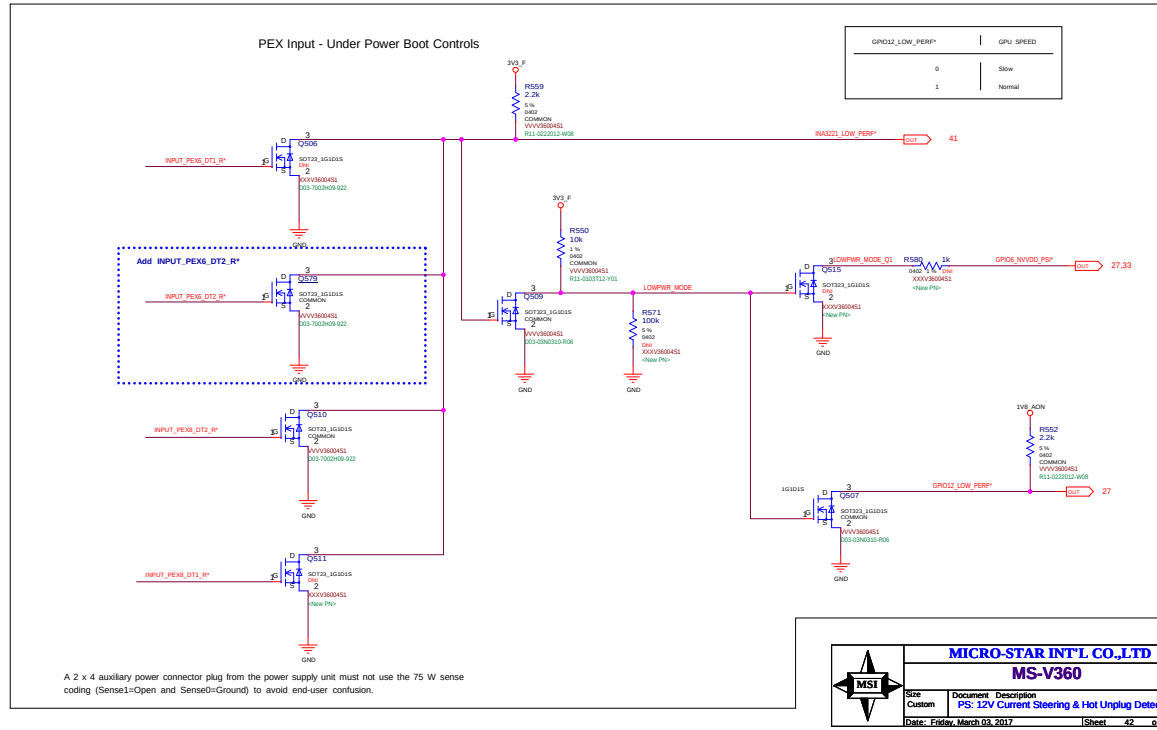




DESKTOP (6PIN NORTH + 8 PIN NORTH): UNSTUFF D, UNSTUFF R

QUADRO (8 PIN EAST ONLY): UNSTUFF D, STUFF R

TESLA (8 PIN EAST ONLY): UNSTUFF D, STUFF R



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.

MSI	MICRO-STAR INT'L CO.,LTD	
	MS-V360	
Size: Custom	Document Description: PS: 12V Current Steering & Hot Unplug Detect	Rev: 2.0
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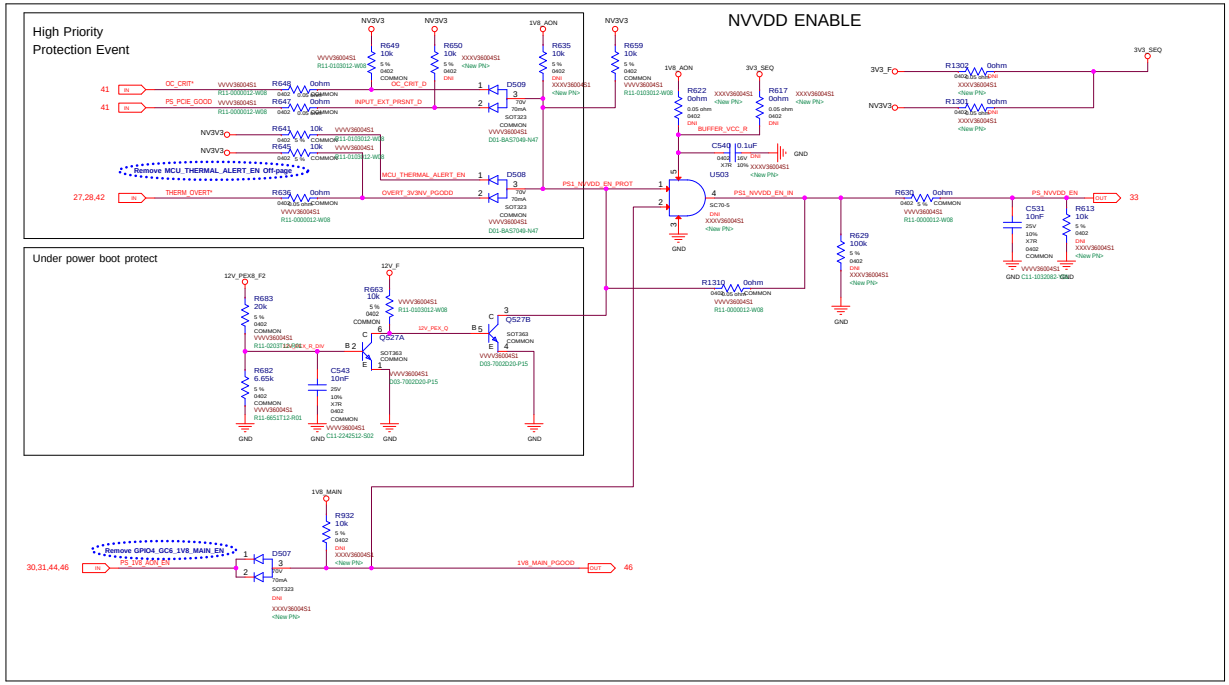
Page43: PS: NVVDD ENABLE



PEXVDD ENABLE

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Size: Custom	Document Description: PS: NVVDD ENABLE	Rev: 2.0
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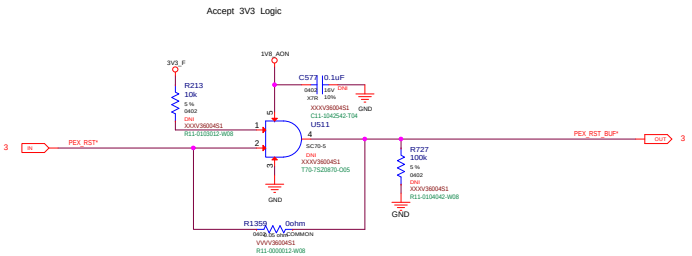
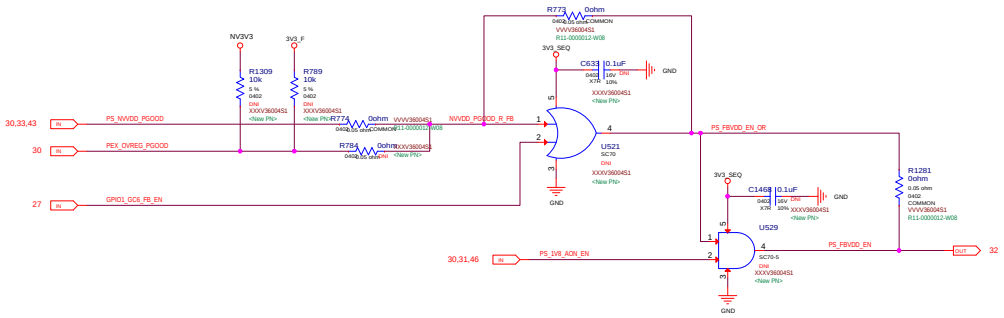
Remove PEX_CLKREQ*

Remove GPU_EVENT*

PEX_RST# LOGIC



FBVDD/Q ENABLE



MSI	MICRO-STAR INT'L CO.,LTD	
	MS-V360	
Size: Custom	Document Description: GC6 MISC	Rev: 2.0
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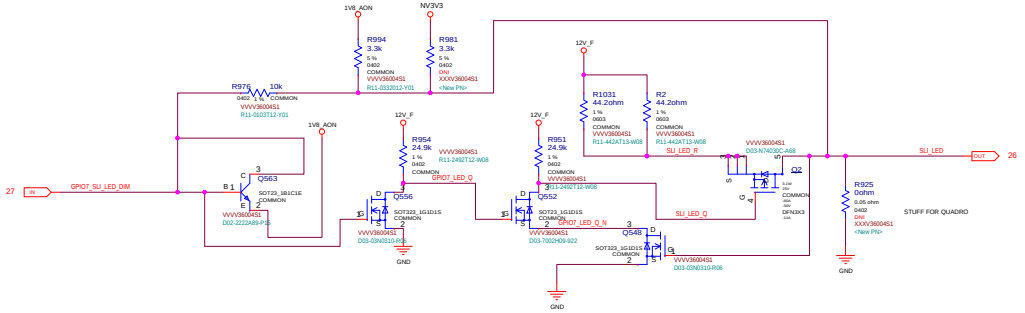
Remove LED HEADER(GEFORCE ONLY)

SLI LED (GEFORCE ONLY)



MSI	MICRO-STAR INT'L CO.,LTD	
	MS-V360	
Size: Custom	Document Description: GEFORCE LED & SLI LED	Rev: 2.0
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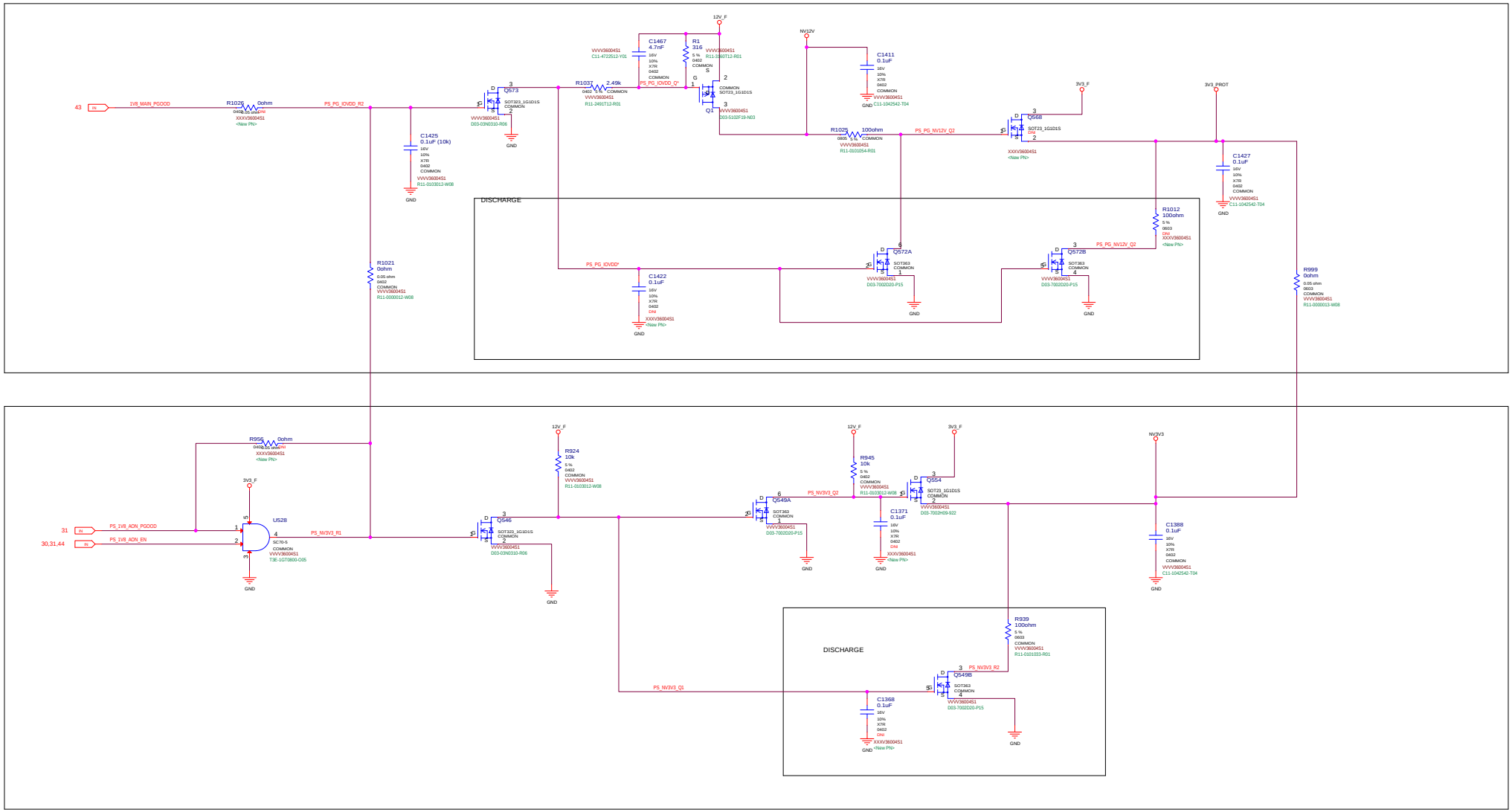

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Size: Custom	Document Description: NV3V3, NV12V	Rev: 2.0
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Page47: MCU

MICRO-STAR INT'L CO.,LTD	
MS-V360	
Size: Custom	Document Description: MCU
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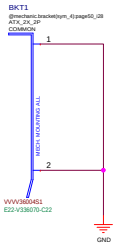
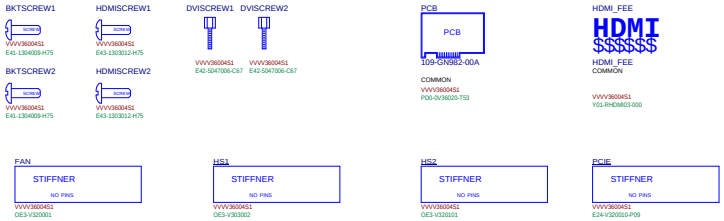
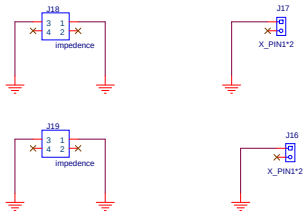
Page48: Mechanical: Bracket/Thermal Solution

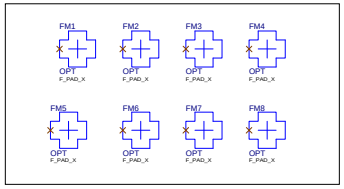
Brackets:



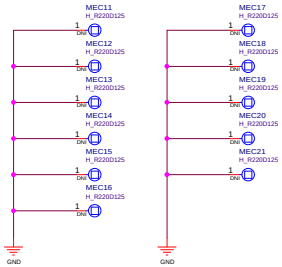
Screw



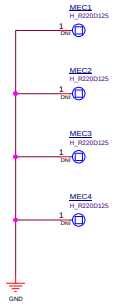




Mechanical Holes Symbol



GPU HOLES SYMBOL



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Size: Custom	Document Description: Mechanical: Bracket/Thermal Solution	Rev: 2.0
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Page49: VR THERMAL PROTECTION

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	MS-V360	
Size: Custom	Document Description: VR THERMAL PROTECTION	Rev: 2.0
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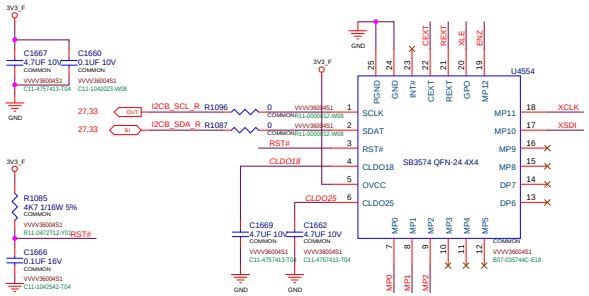
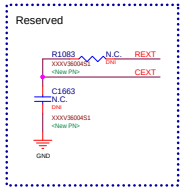
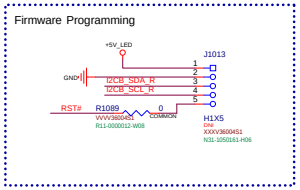
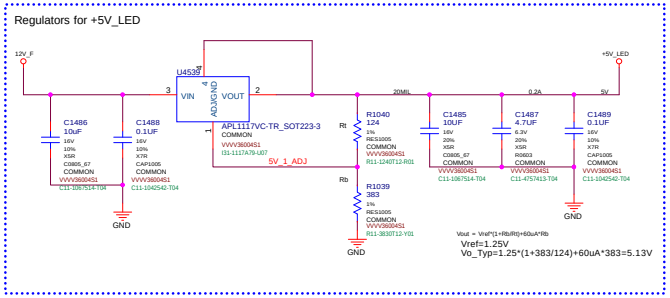
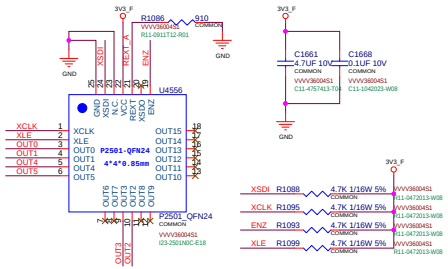
Page39: LED_CONTROLLER_ENE3574

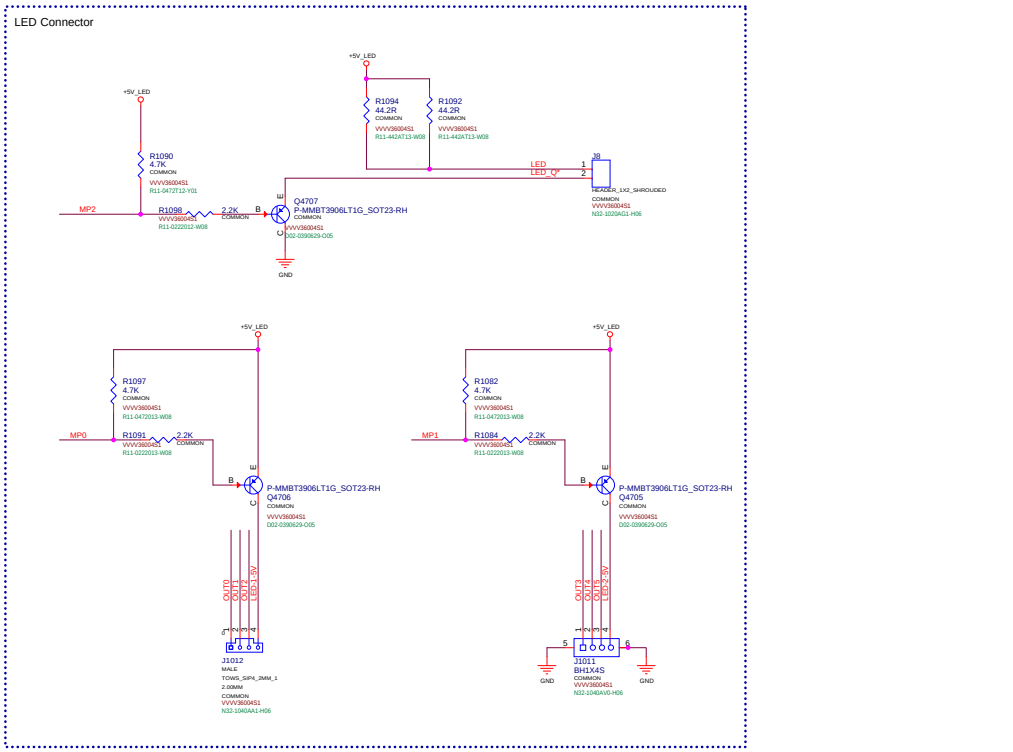












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