


P2012-A02

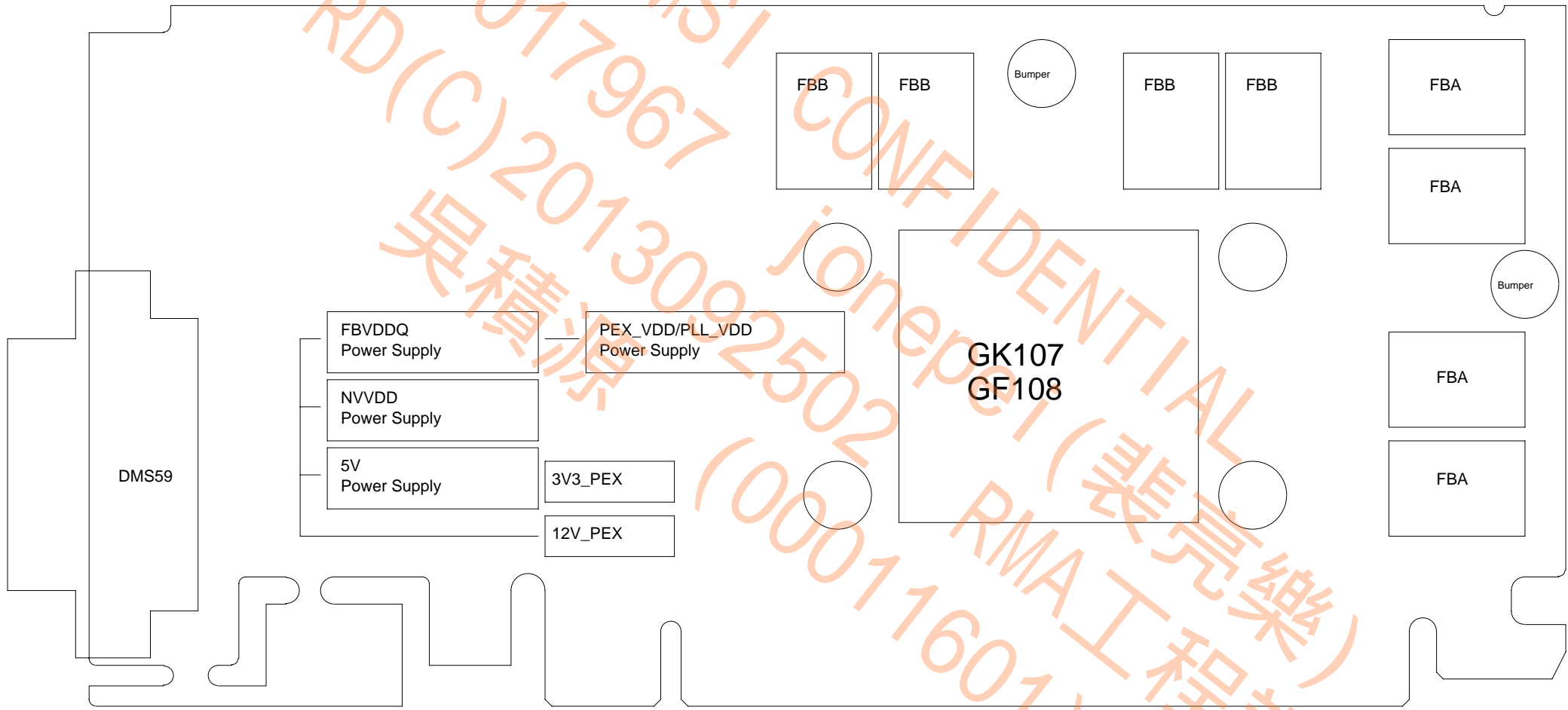
GK107/GF108 GB4-128 sDDR3,128bit/64bit, 256M/128M/64Mx16  
DVI-I DL/VGA+HDMI/DP+VGA

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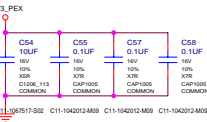
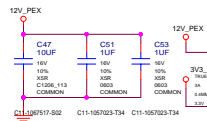
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Block Diagram



# PCI Express



PLACE CLOSE TO CONNECTOR



PLACE CLOSE TO CONNECTOR



PLACE CLOSE TO CONNECTOR



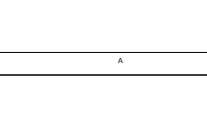
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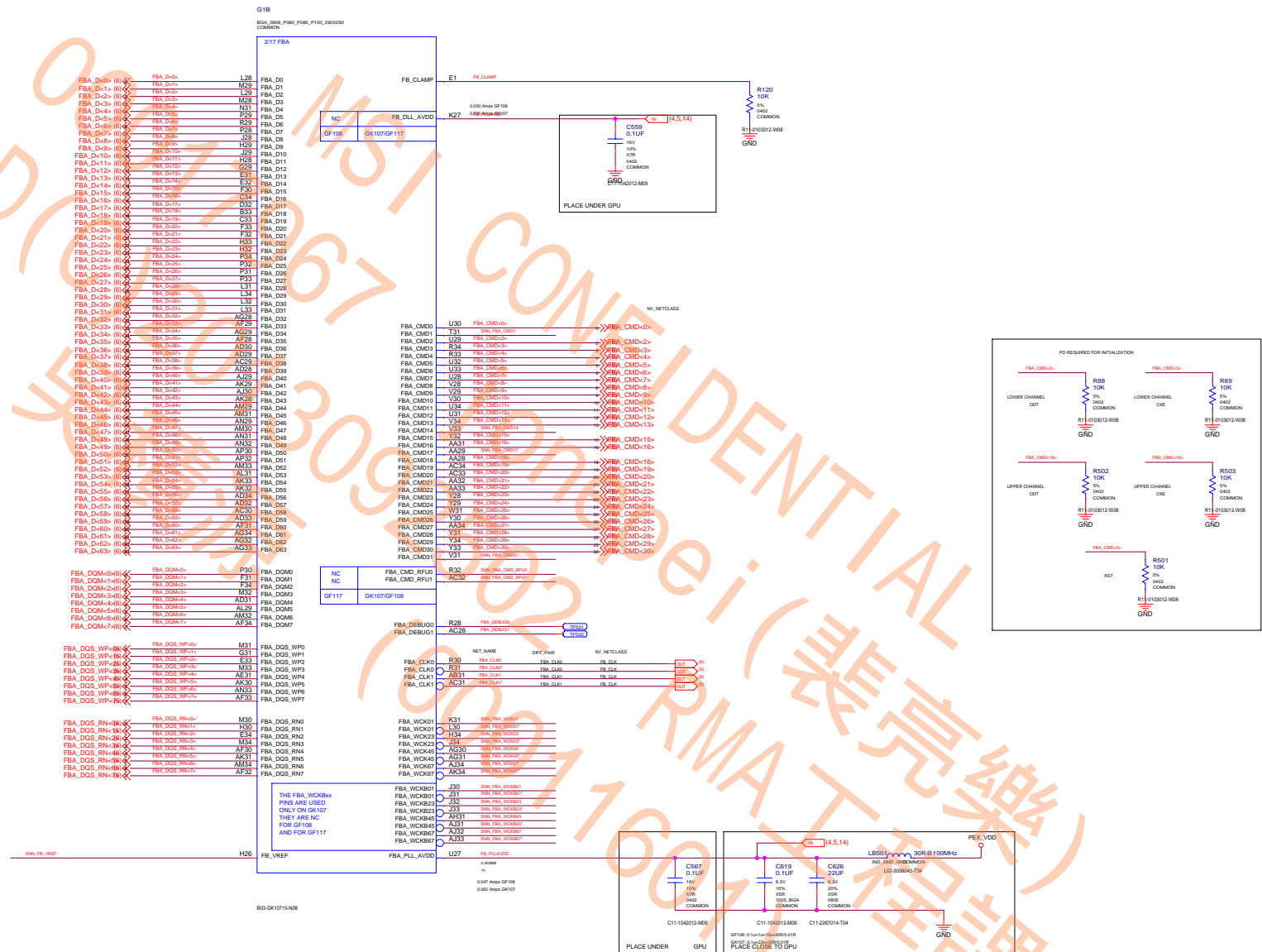
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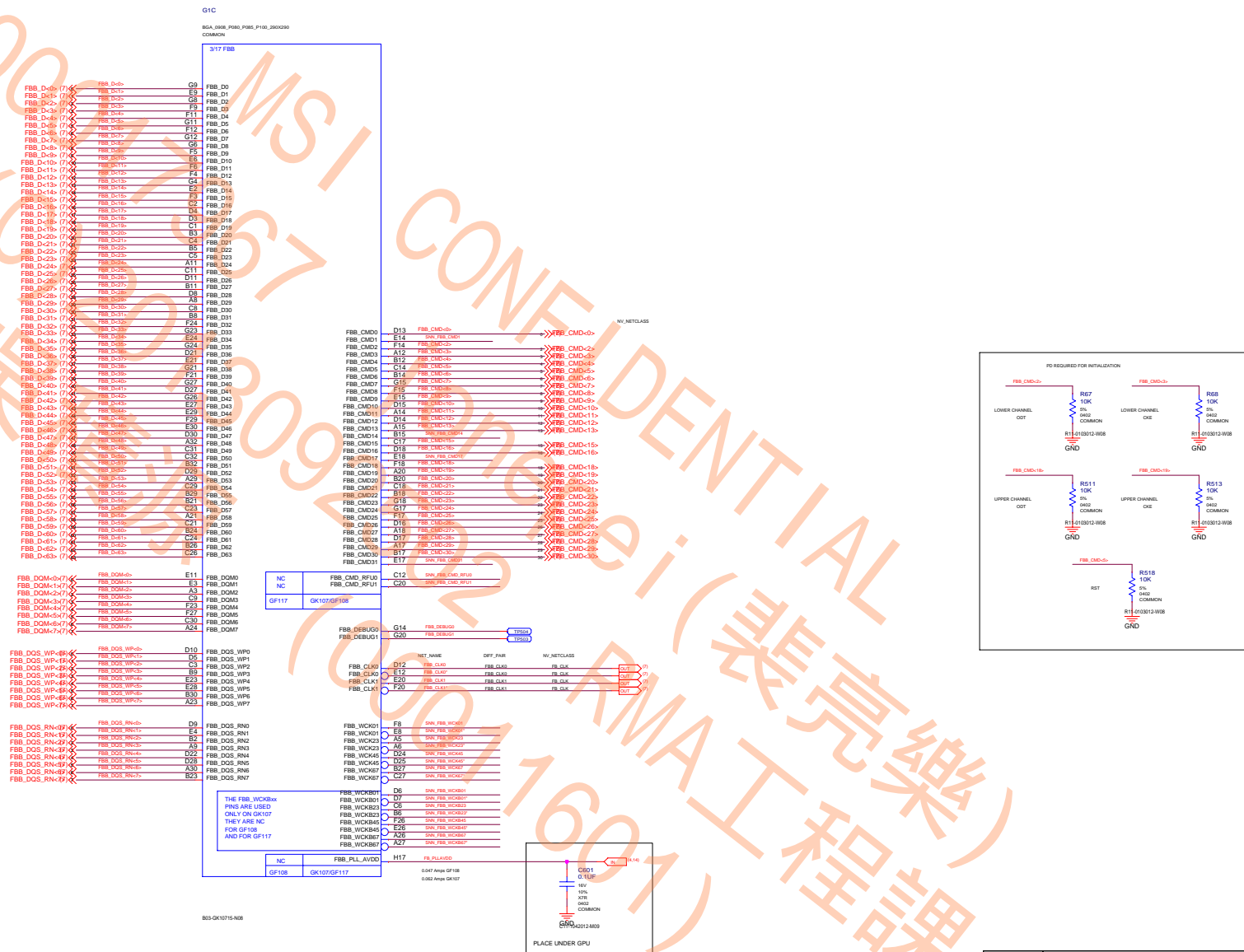
PLACE CLOSE TO CONNECTOR



## GPU Frame Buffer Partition A



## GPU Frame Buffer Partition B



# Memory FBA Partition

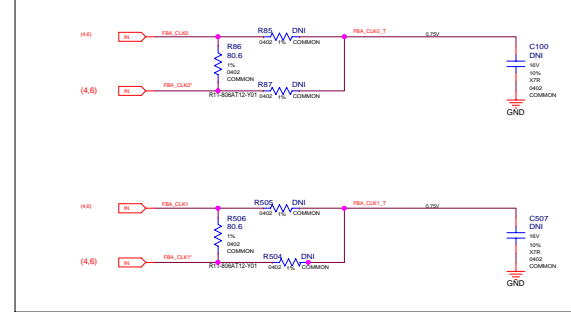
GK107/GF108

CMD	<0.3V>	<0.3V>
CMD0	CSP	NA
CMD1	NA	NA
CMD2	ODT	NA
CMD3	CSE	NA
CMD4	A14	A14
CMD5	REIT	REIT
CMD6	A6	A6
CMD7	A7	A7
CMD8	A2	A2
CMD9	A0	A0
CMD10	A4	A4
CMD11	A1	A1
CMD12	BA0	BA0
CMD13	WE*	WE*
CMD14	NA	NA
CMD15	CSP	CSP
CMD16	NA	NA
CMD17	NA	ODT
CMD18	NA	CSE
CMD19	A13	A13
CMD20	A6	A6
CMD21	A1	A1
CMD22	A2	A2
CMD23	A14	A14
CMD24	A0	A0
CMD25	BA2	BA2
CMD26	BA1	BA1
CMD27	A13	A13
CMD28	A10	A10
CMD29	RA0	RA0
CMD30	RA0	RA0
CMD31	NA	NA

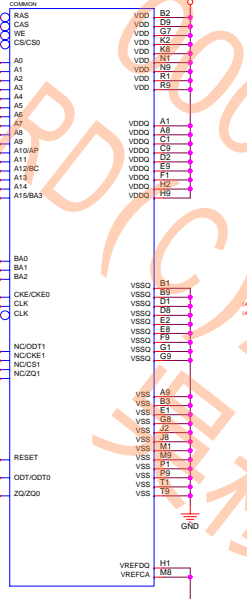
SKU2 128Mx16  
1st Hynix 161-0086-000  
2nd Hynix 161-0082-100  
3rd Micron 161-0037-900

SKU1 64Mx16  
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3rd Micron 161-0036-900

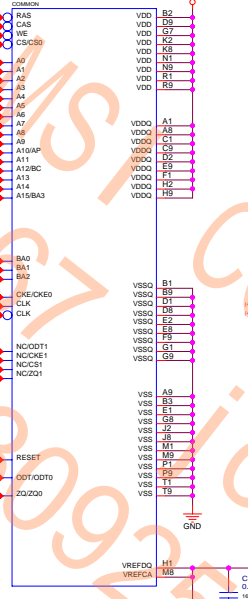
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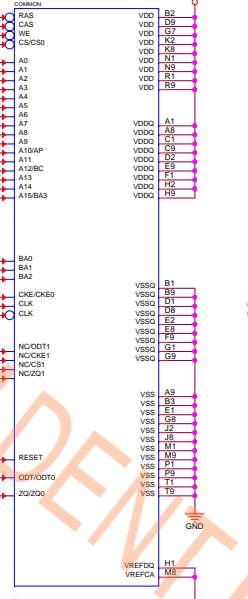
MSC



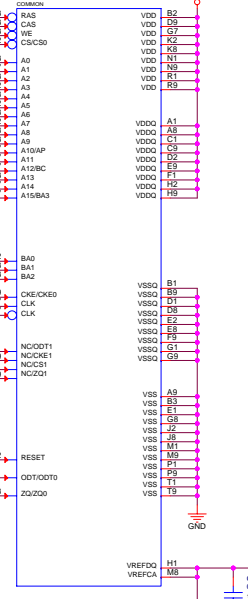
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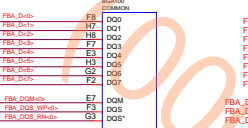
M7C



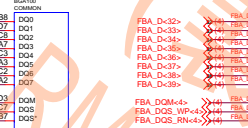
MBA



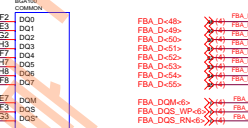
MEA



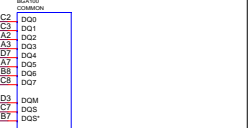
MSB



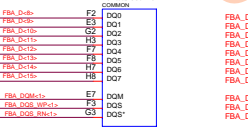
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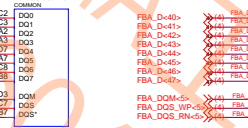
M8B



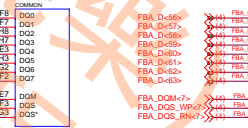
MSA



MSB



MSC



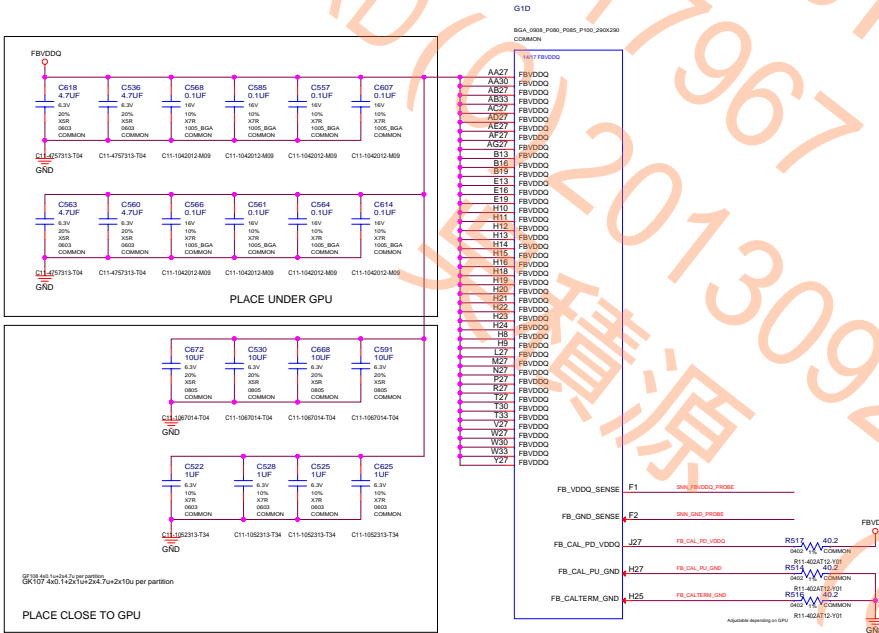
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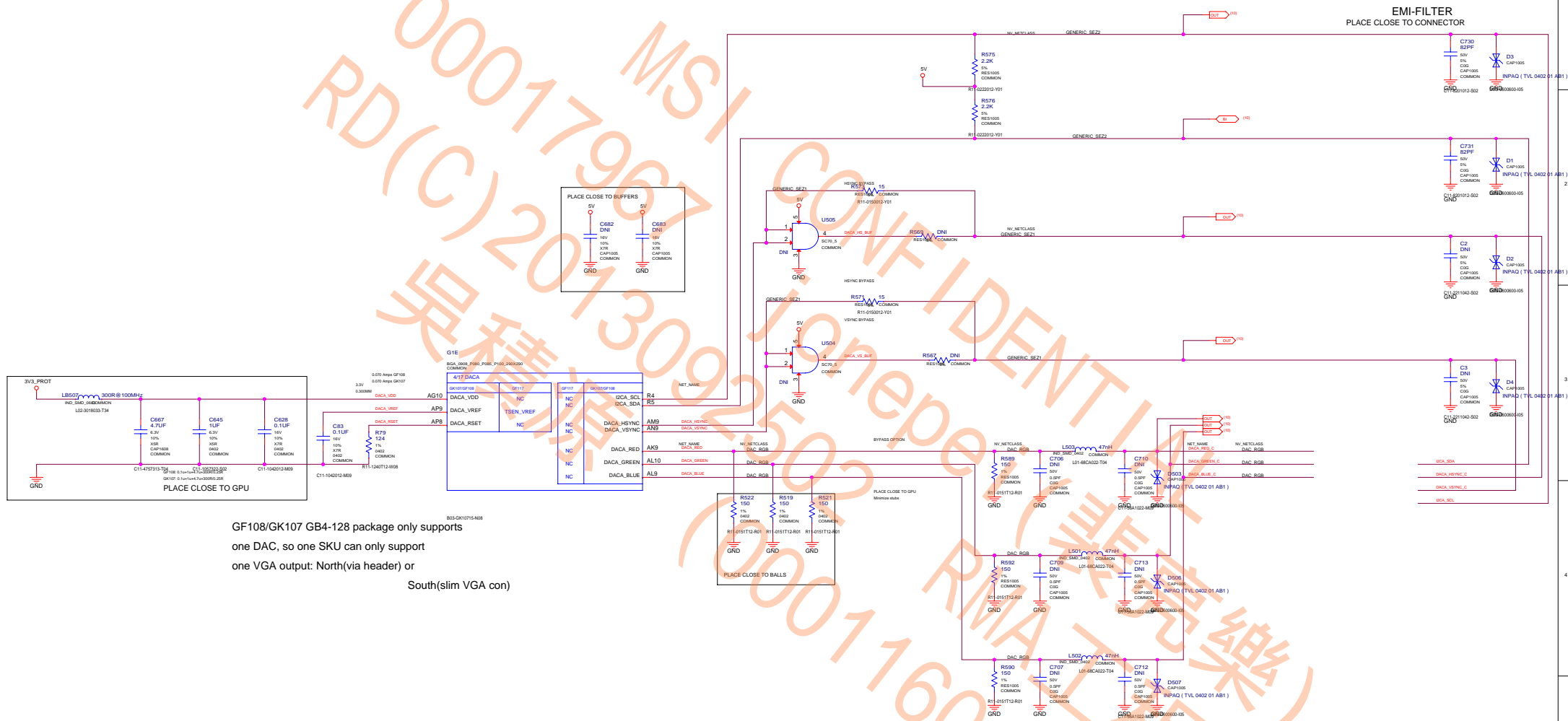


FB Decoupling(GPU,MEMORY)





## DACA Slim VGA (South)



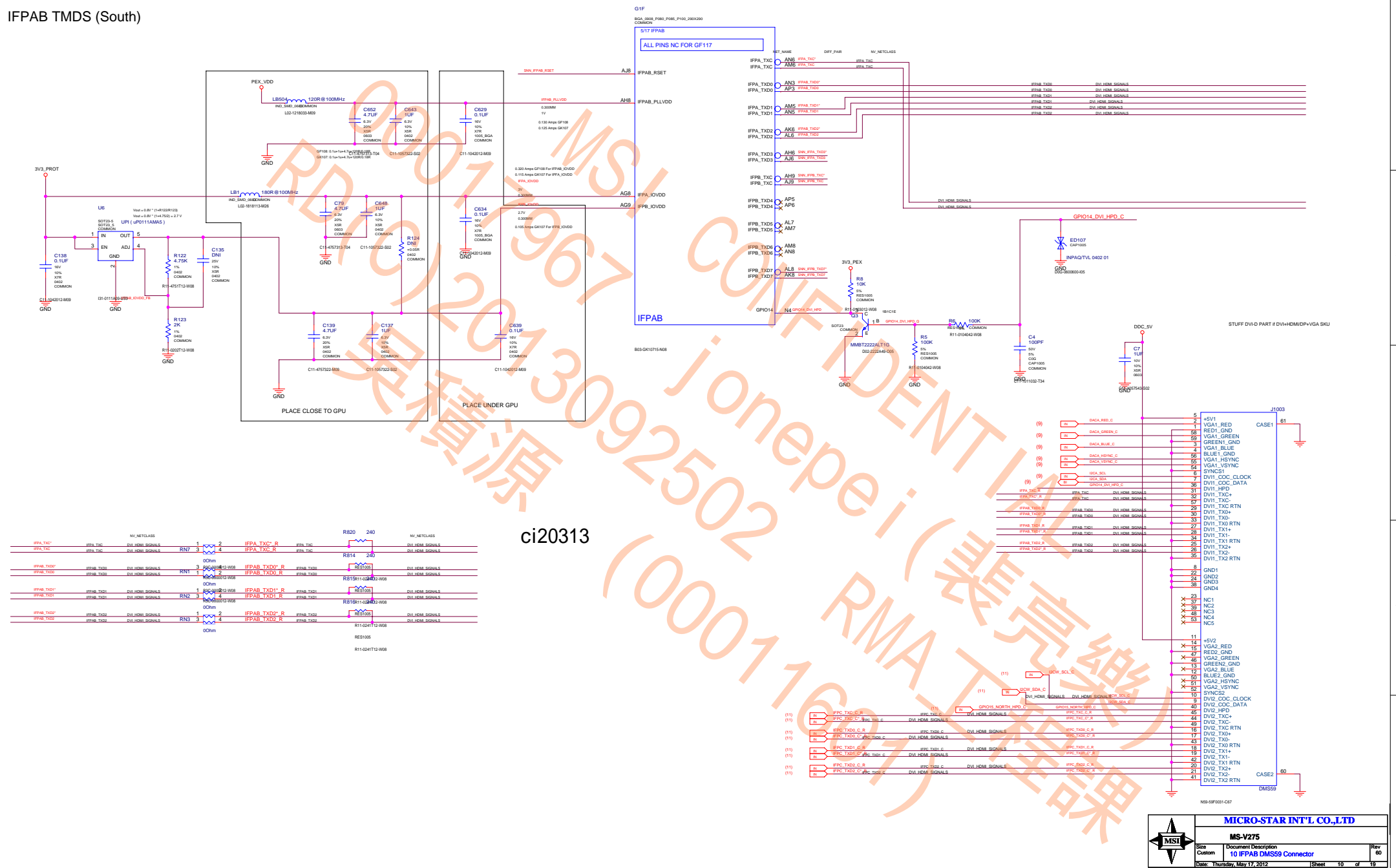
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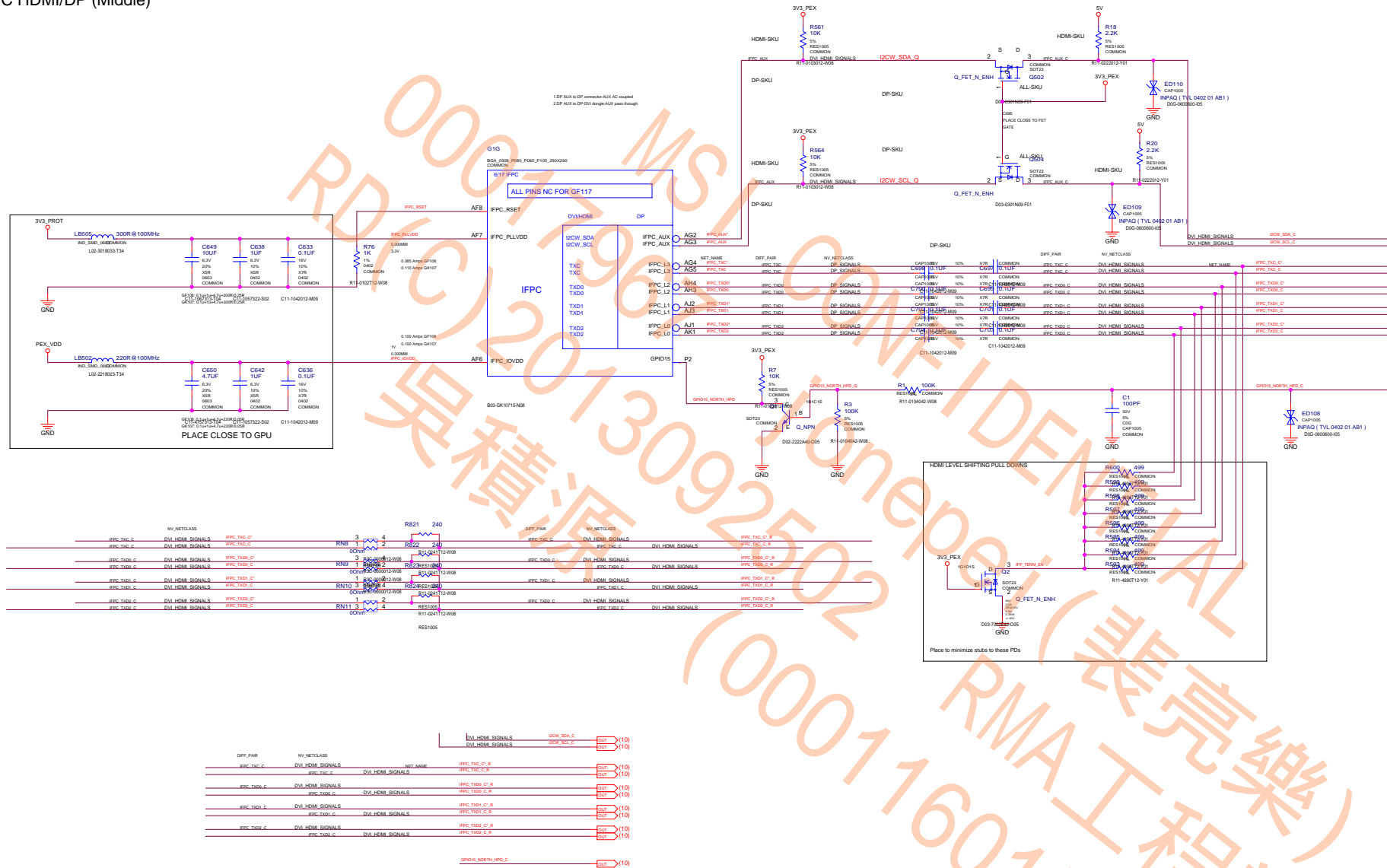
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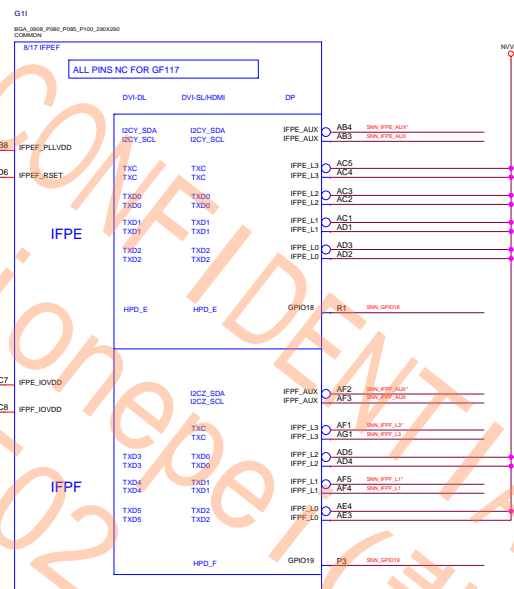
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## IFPAB TMDS (South)

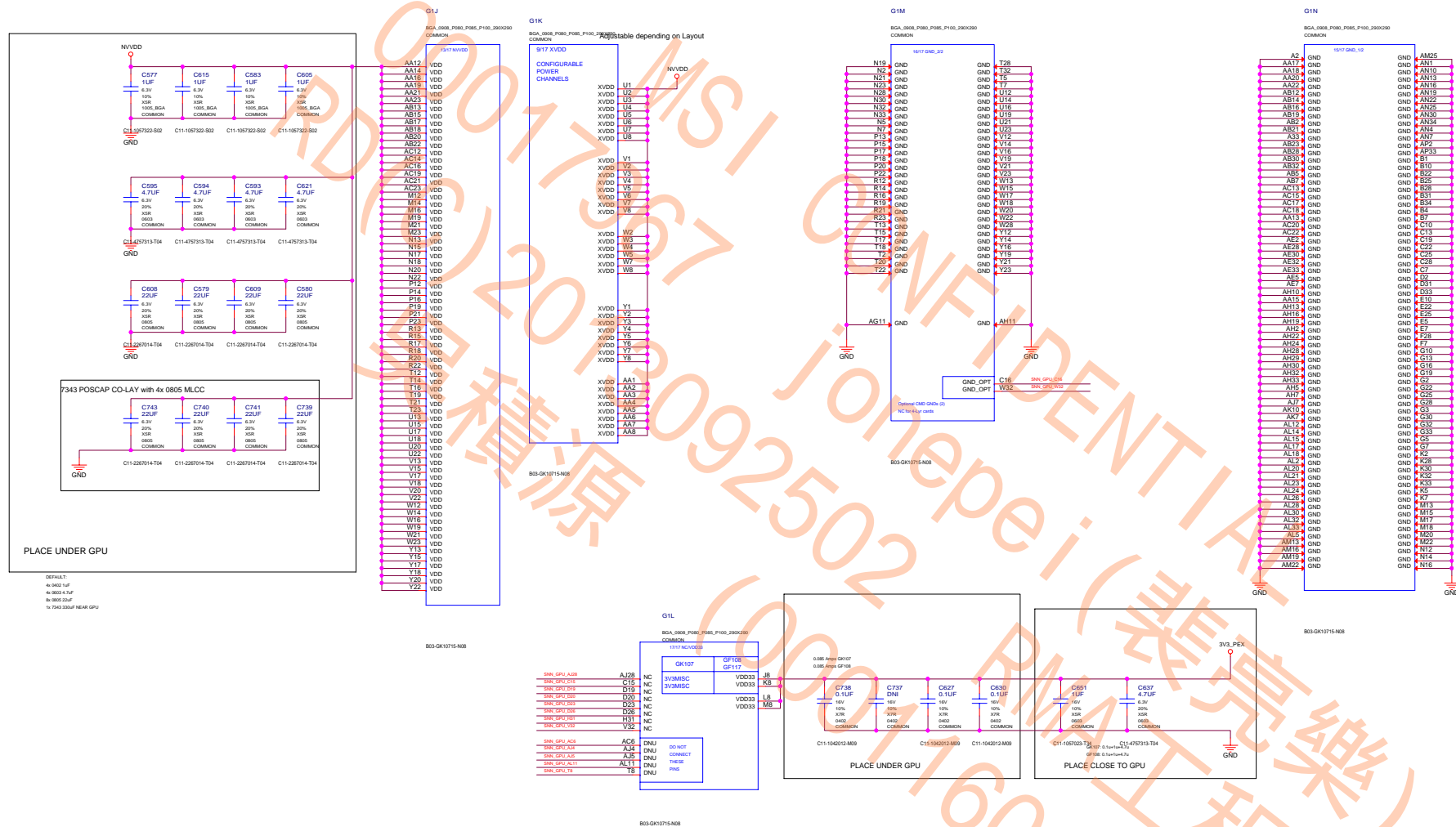


IFPC HDMI/DP (Middle)

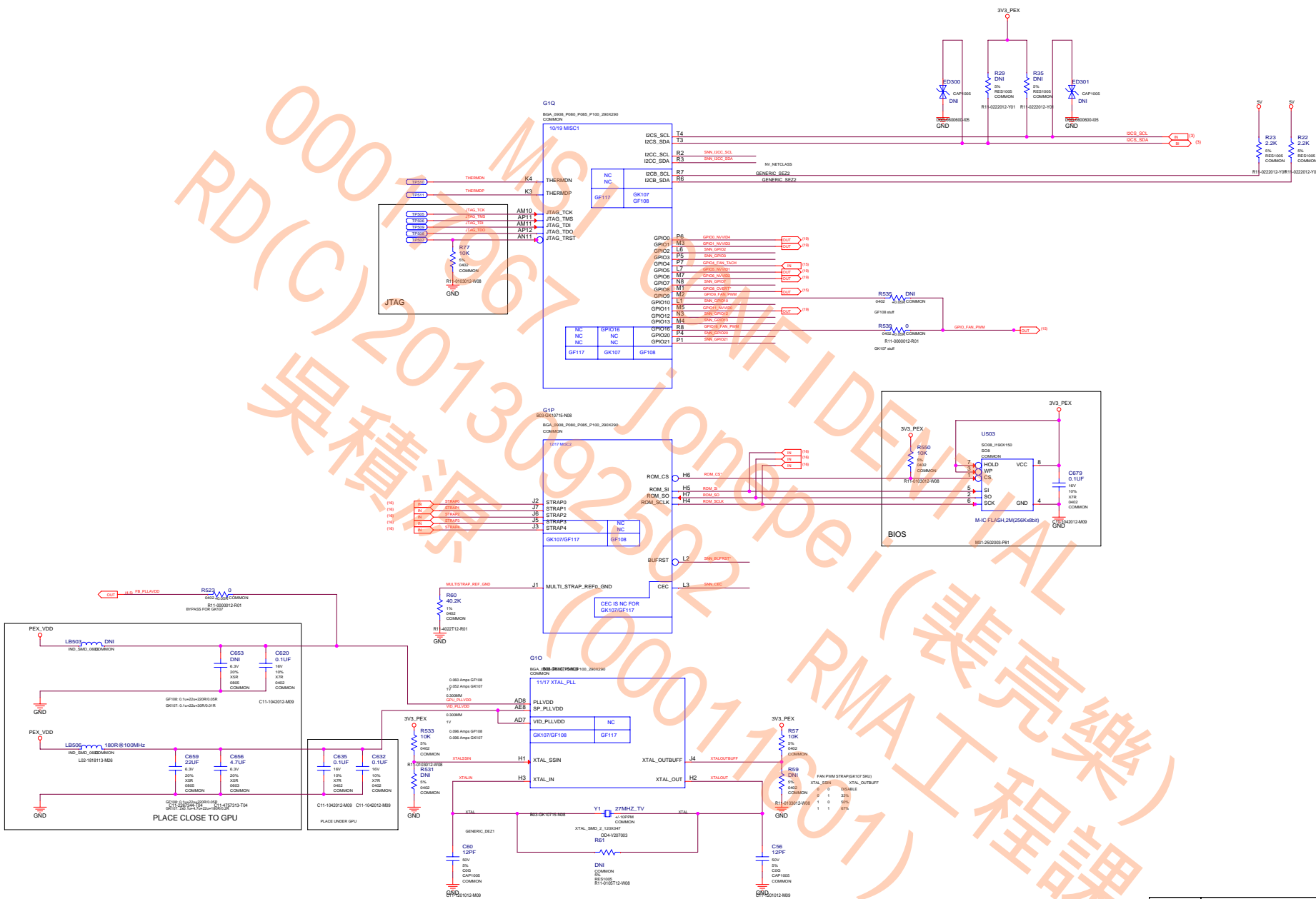




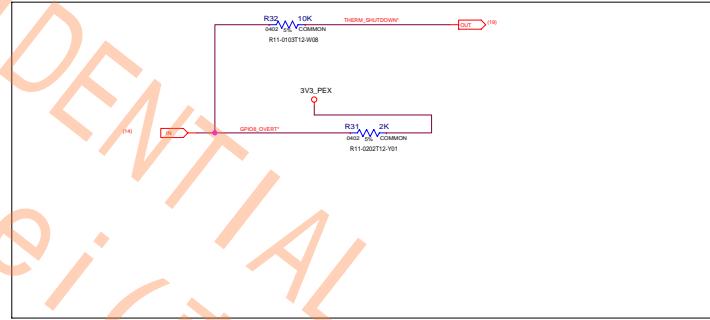
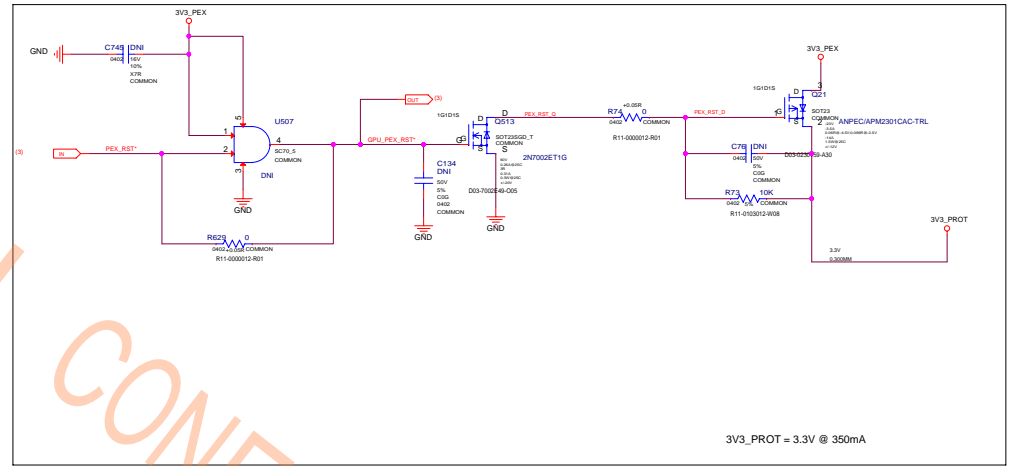
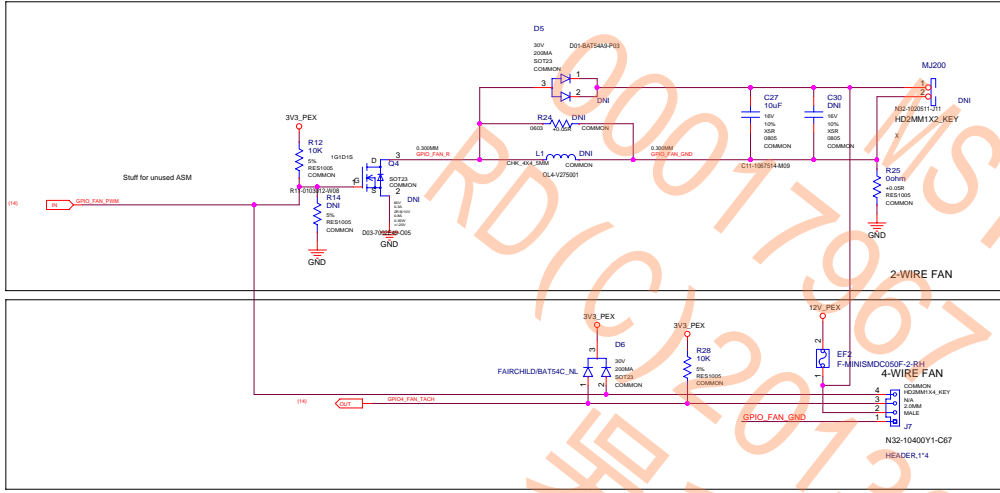
## GPU Core Decoupling



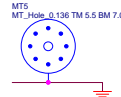
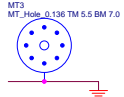
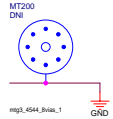
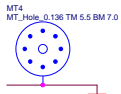
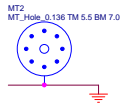
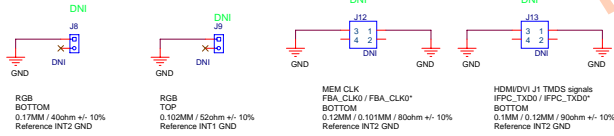
Misc Interfaces



# Thermal,Mechanical, Fan Control,Backdrive



Reserve J8 J9 J12 J13 for Impedance check



## For DSUB Connector

DVIDVI SCREWS with top tab

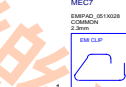


## For DVI Connector

DVIDVI SCREWS with top tab



## EMC CLIPS

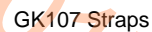


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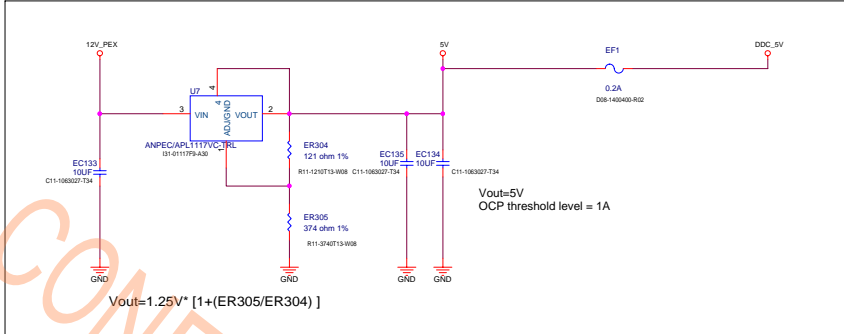
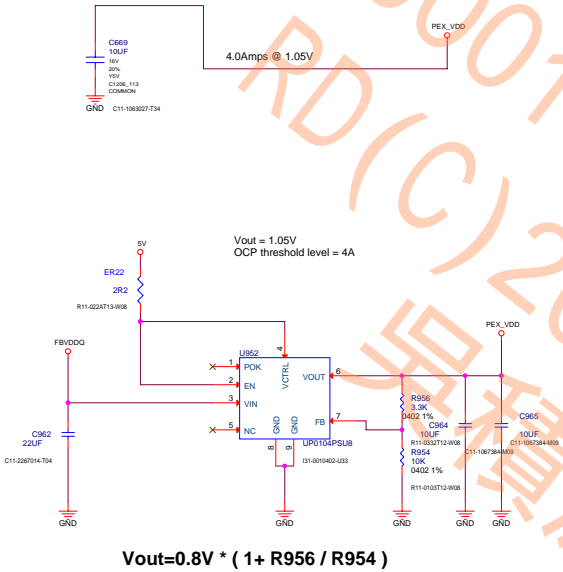


## GF108 Straps

### Multilevel Straps

0000	5.1K to GND	1000	5.1K to VCC
0001	10K to GND	1001	10K to VCC
0010	15K to GND	1010	15K to VCC
0011	20K to GND	1011	20K to VCC
0100	24.9K to GND	1100	24.9K to VCC
0101	30.1K to GND	1101	30.1K to VCC
0110	34.8K to GND	1110	34.8K to VCC
0111	40.2K to GND	1111	40.2K to VCC

Power Supply I: PEX\_VDD,PEX\_PLL,5V



ci20313



# Power Supply III: NVVDD

