

P2010-A02

75W/100W GK107/GF108 128-BIT GDDR5 in x32/x16 MODE
DVI-I-DL + DVI-D-DL/HDMI +mHDMI/DP

TABLE OF CONTENTS

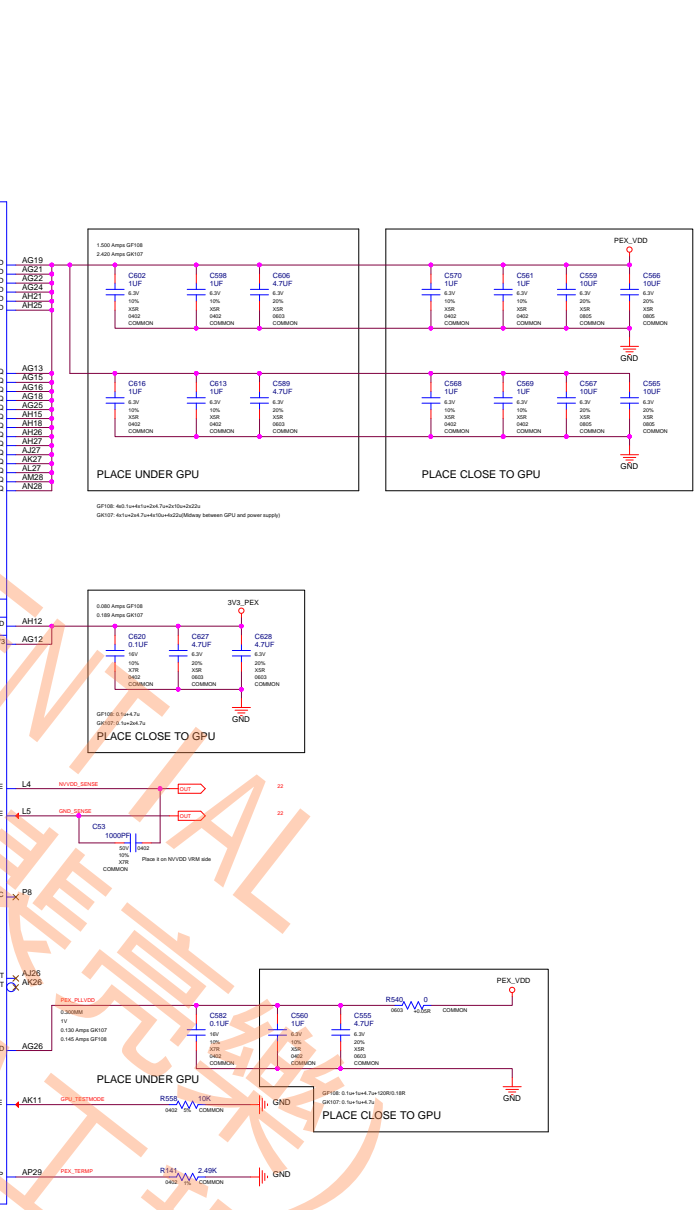
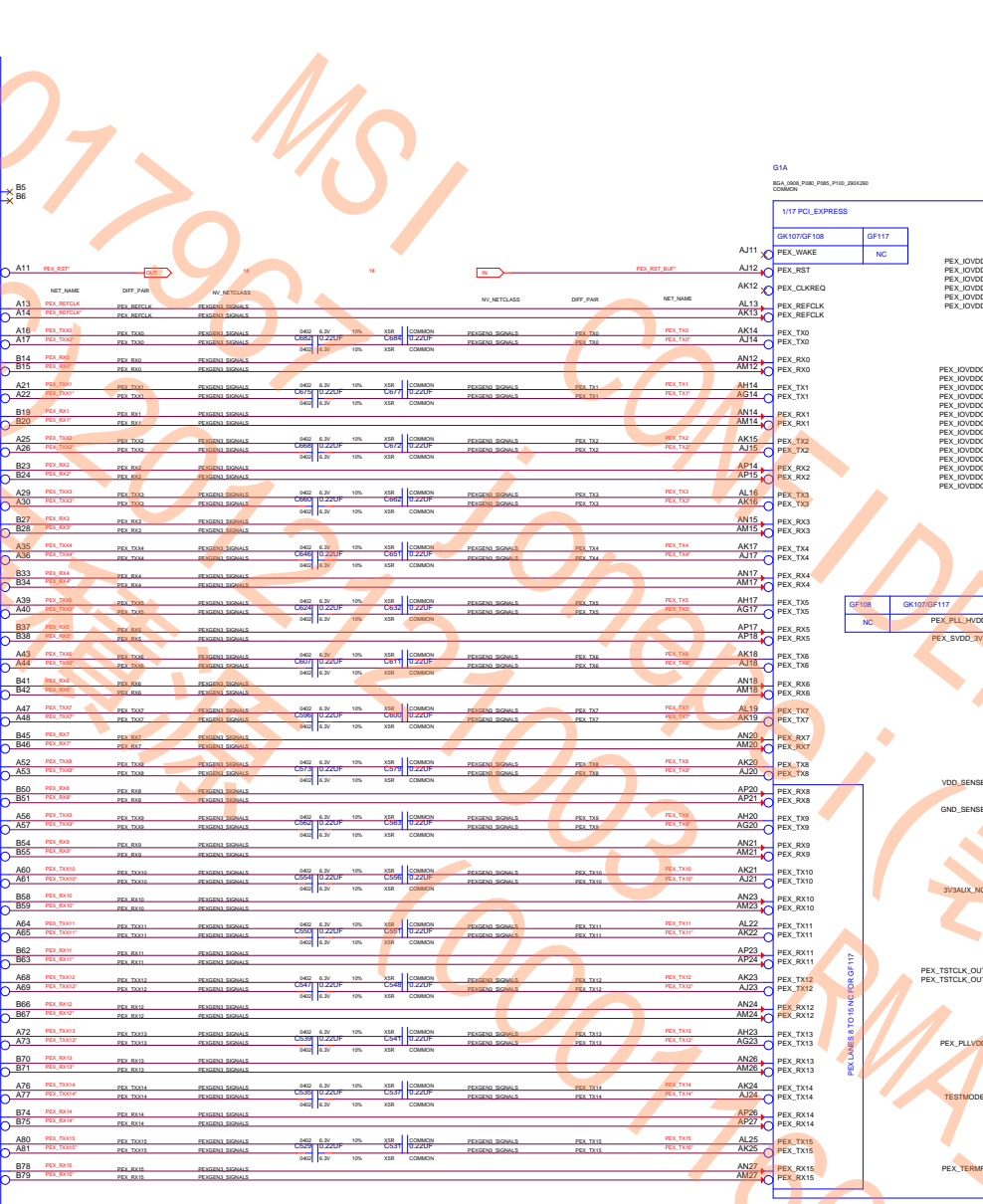
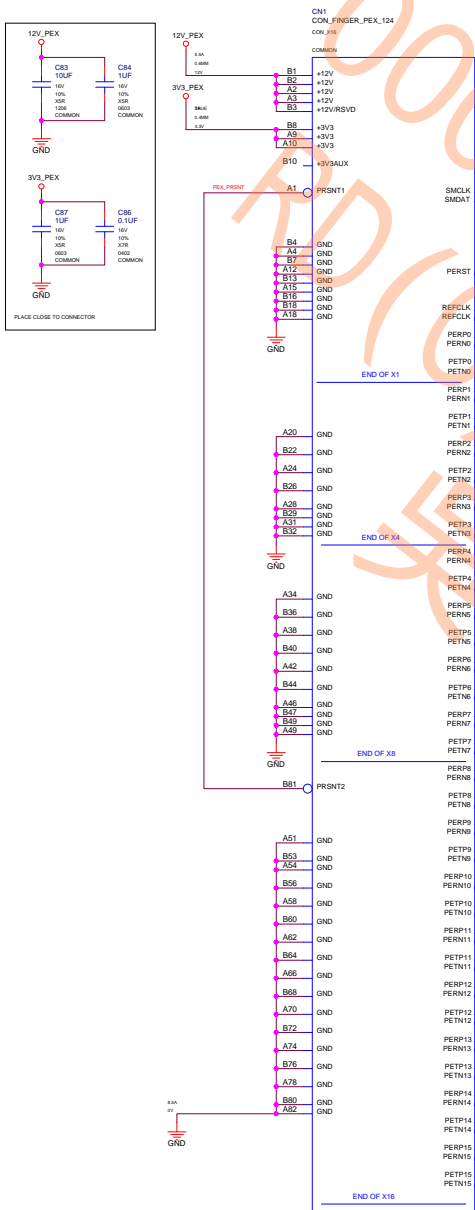
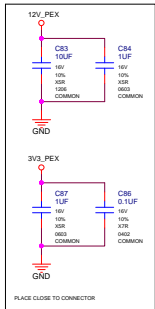
Page Description

1	Table of Contents
2	PCI Express
3	GPU Frame Buffer Partition A/B
4	FBA Partition [31..0]
5	FBA Partition [63..32]
6	FBB Partition [31..0]
7	FBB Partition [63..32]
8	GPU FB Decoupling
9	DACA VGA
10	IFPAB TMDS
11	IFPC mHDMI
12	IFPC DP
13	IFPEF TMDS
14	IFPE Long HDMI
15	Core Decoupling,GPU VDD_3V3
16	Misc Interfaces
17	Straps, Thermal, Mechanical
18	Power Supply I: Misc Power
19	Power supply II:PEX_VDD
20	FBVDDQ
21	NVVDD CTRL
22	NVVDD MOS
23	12V EXT / 12V PEX Power Select Circuit

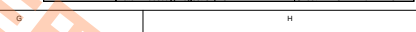
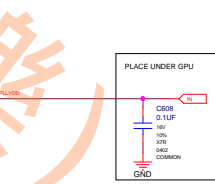
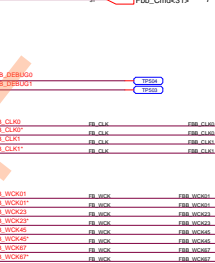
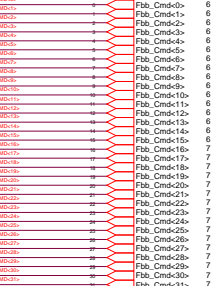
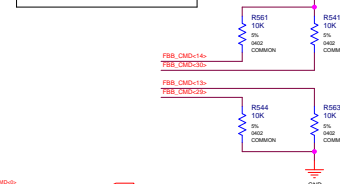
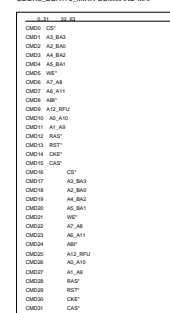
2012/07/05 MS-V280-1.0 changed list

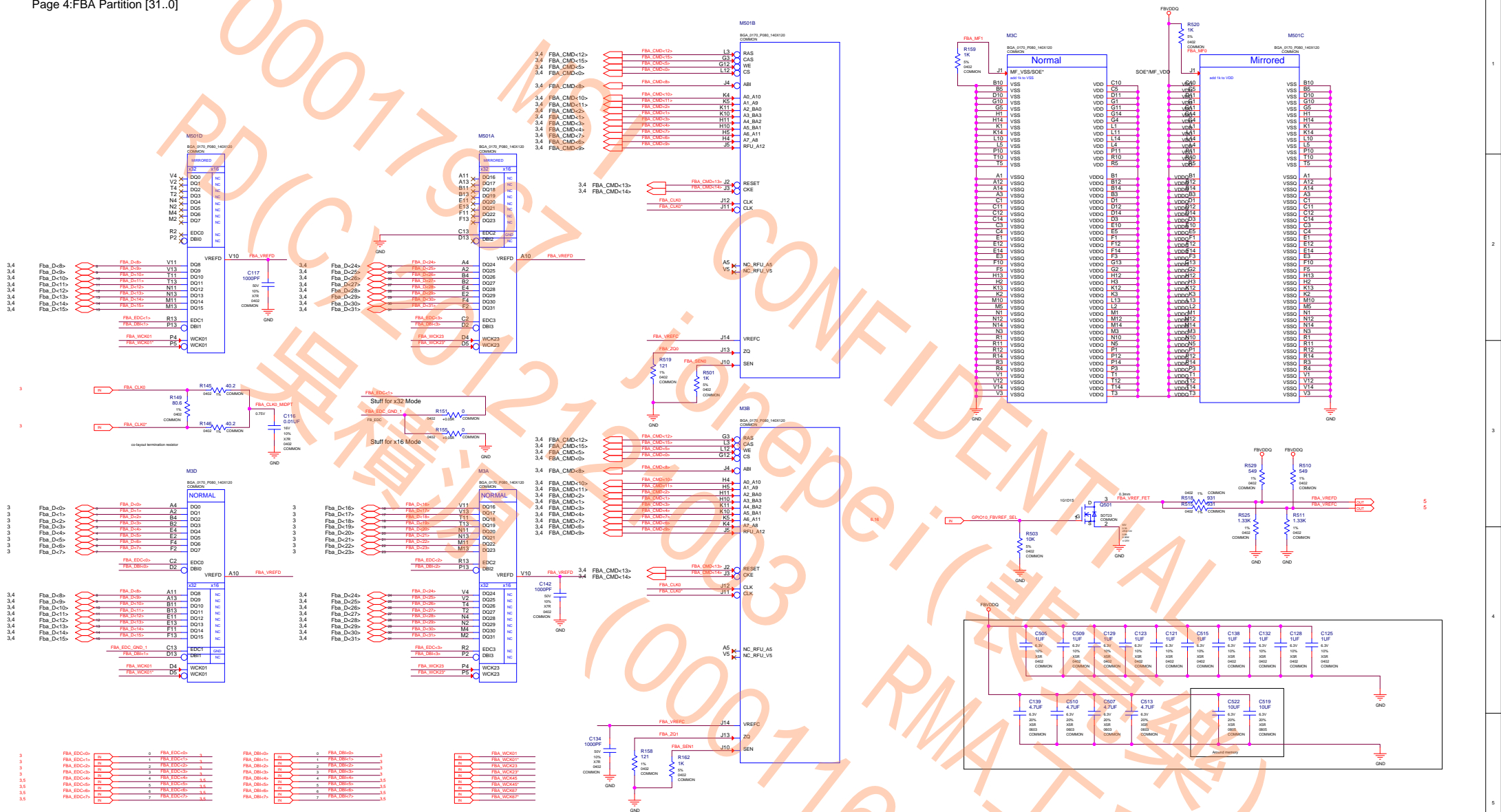
Page	Description
12	Remove colay DP (J1)
14	Remove colay HDMI (J5)
17	Remove 2pin fan control,add 4pin fan control X2,remove all bumper
18	Romove U501 PEX_VDD / U503 PEX_PLL / U3
21	Change FBVDDQ PWM to UP1529
21	Add PSI control circuit
22	Change PWM to 4-phase (ON Semiconductor/NCP5395GMNR2G)
25	Add 6262 voltage control circuit,thermal shutdown circuit and NVVDD power sequence

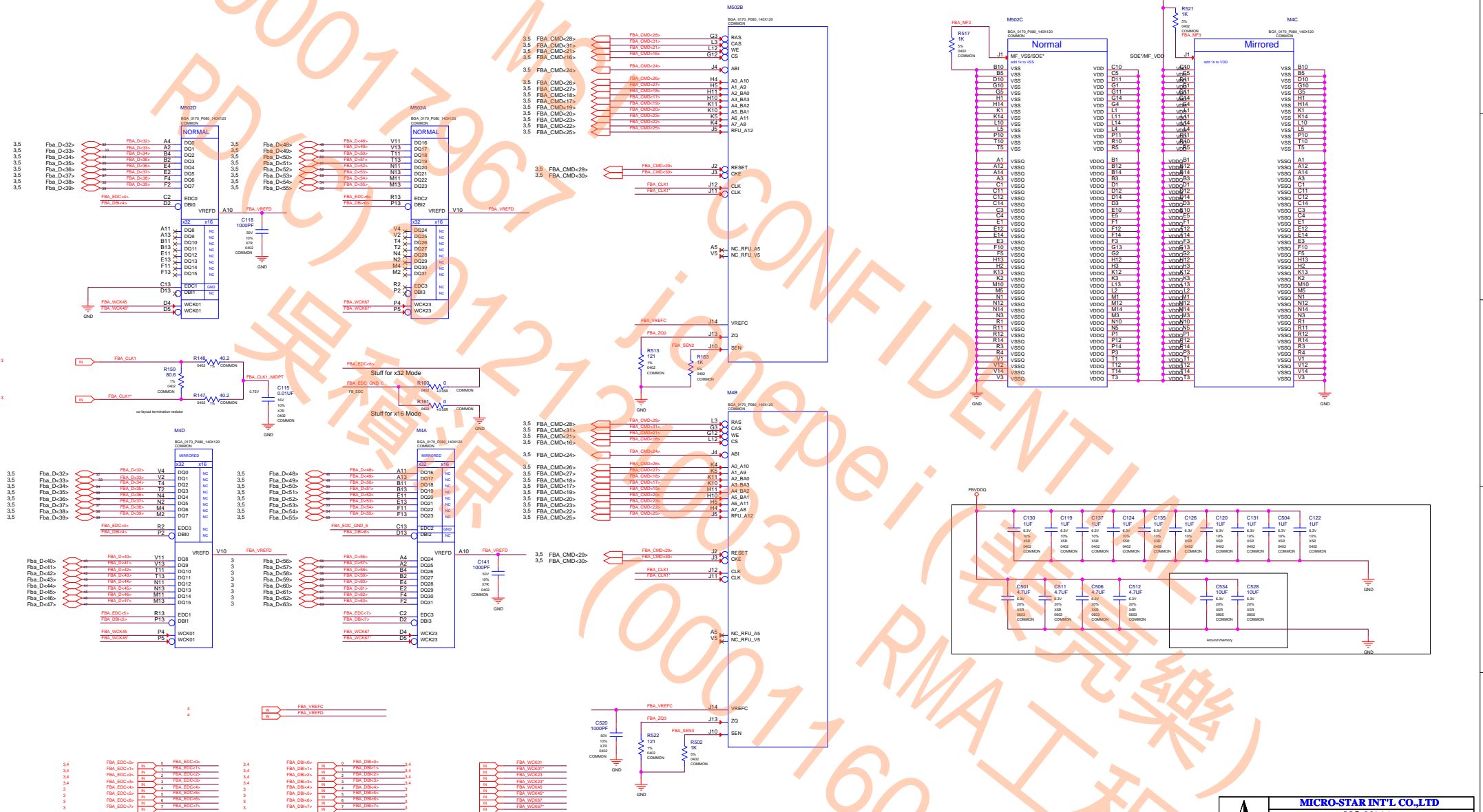
PCI Express

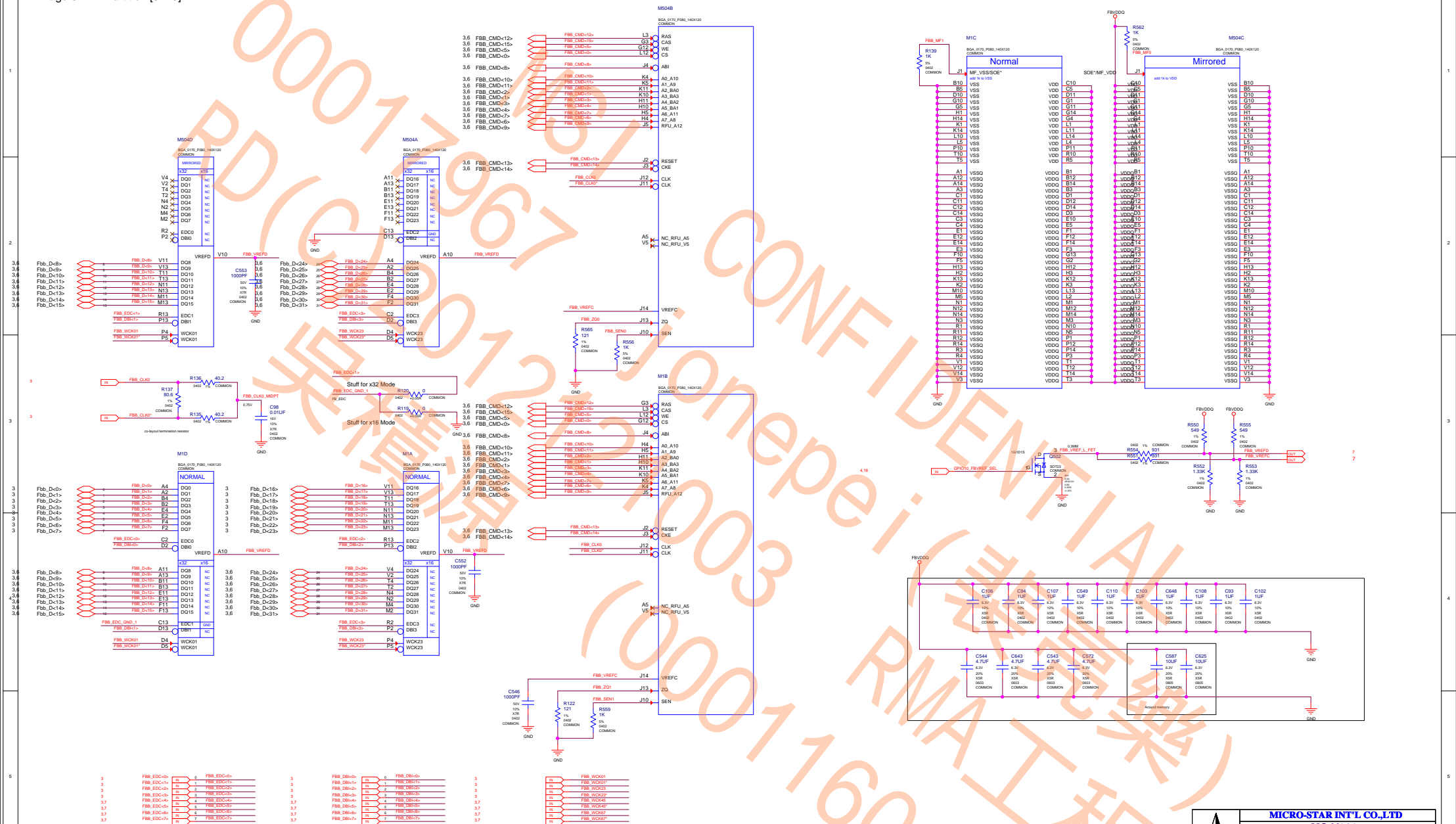


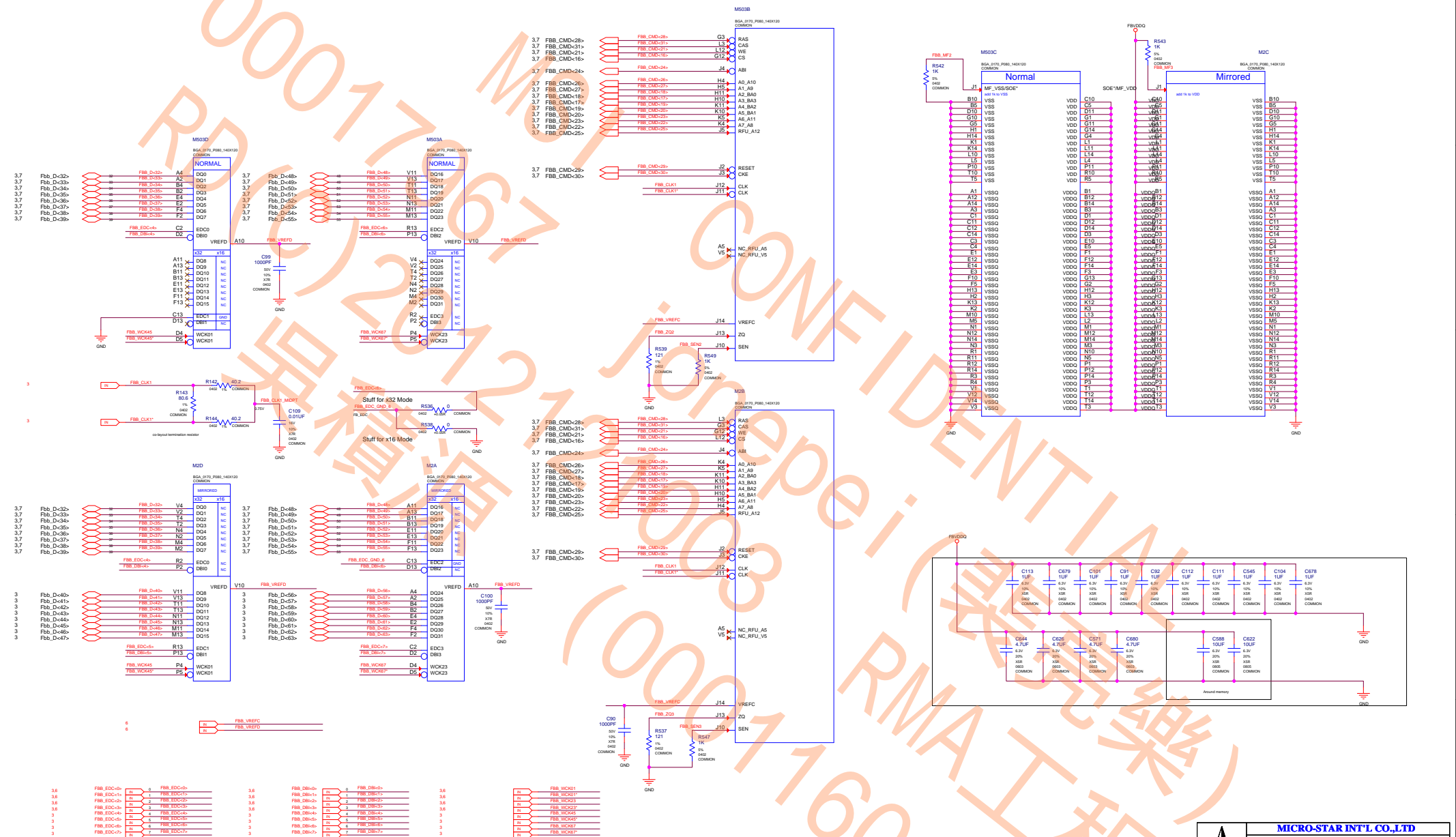
GPU Frame Buffer Partition A/B



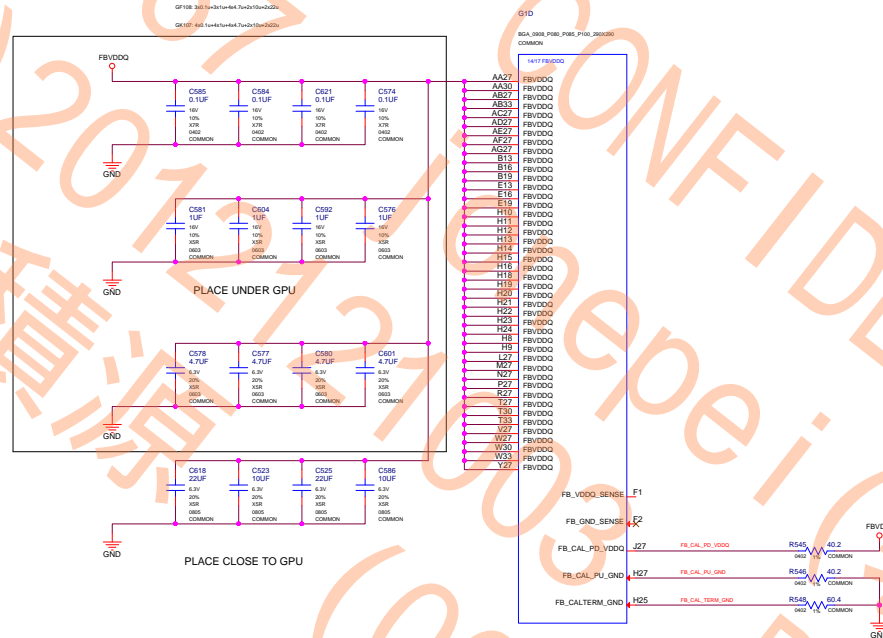




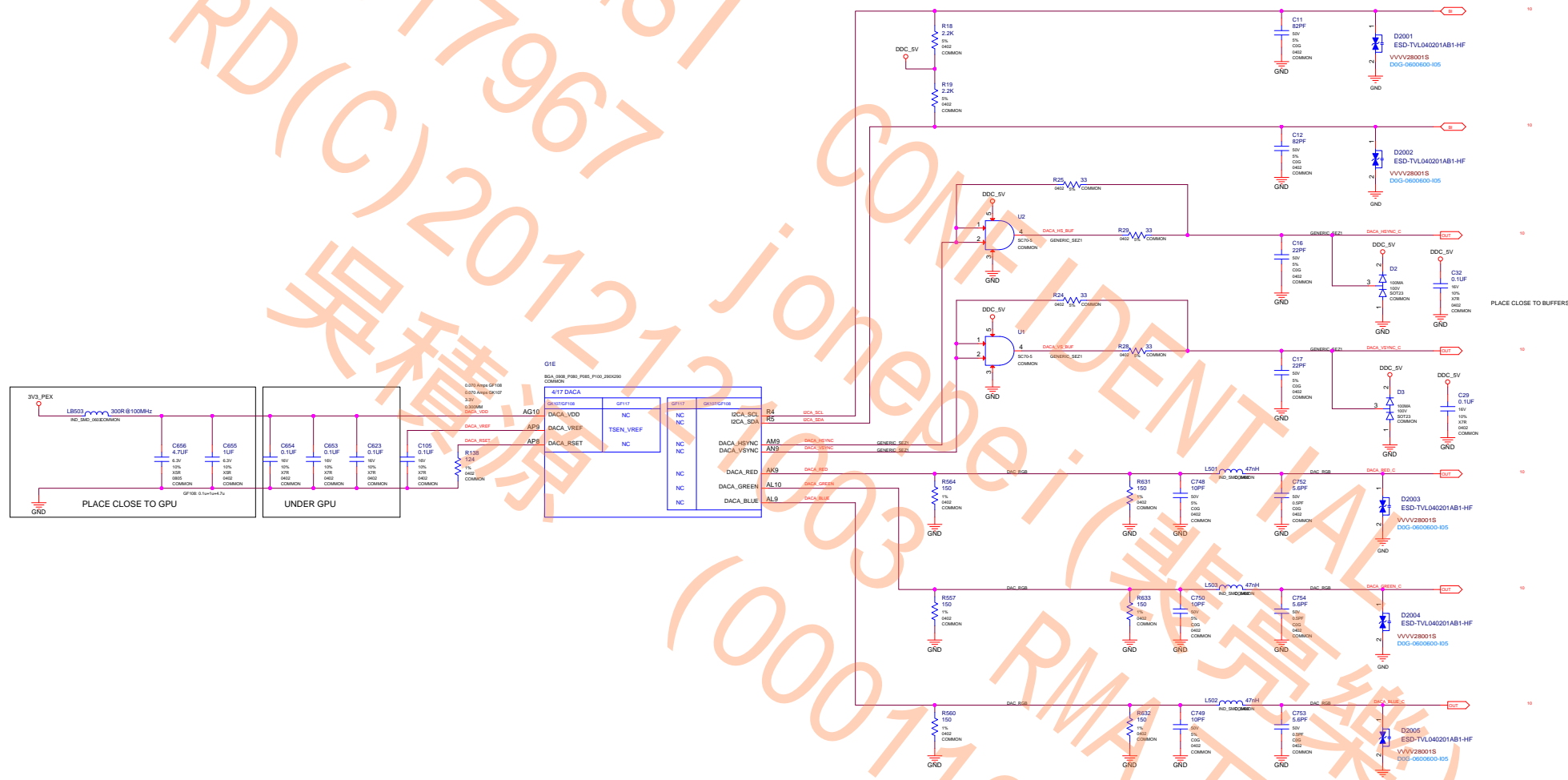




FB Decoupling



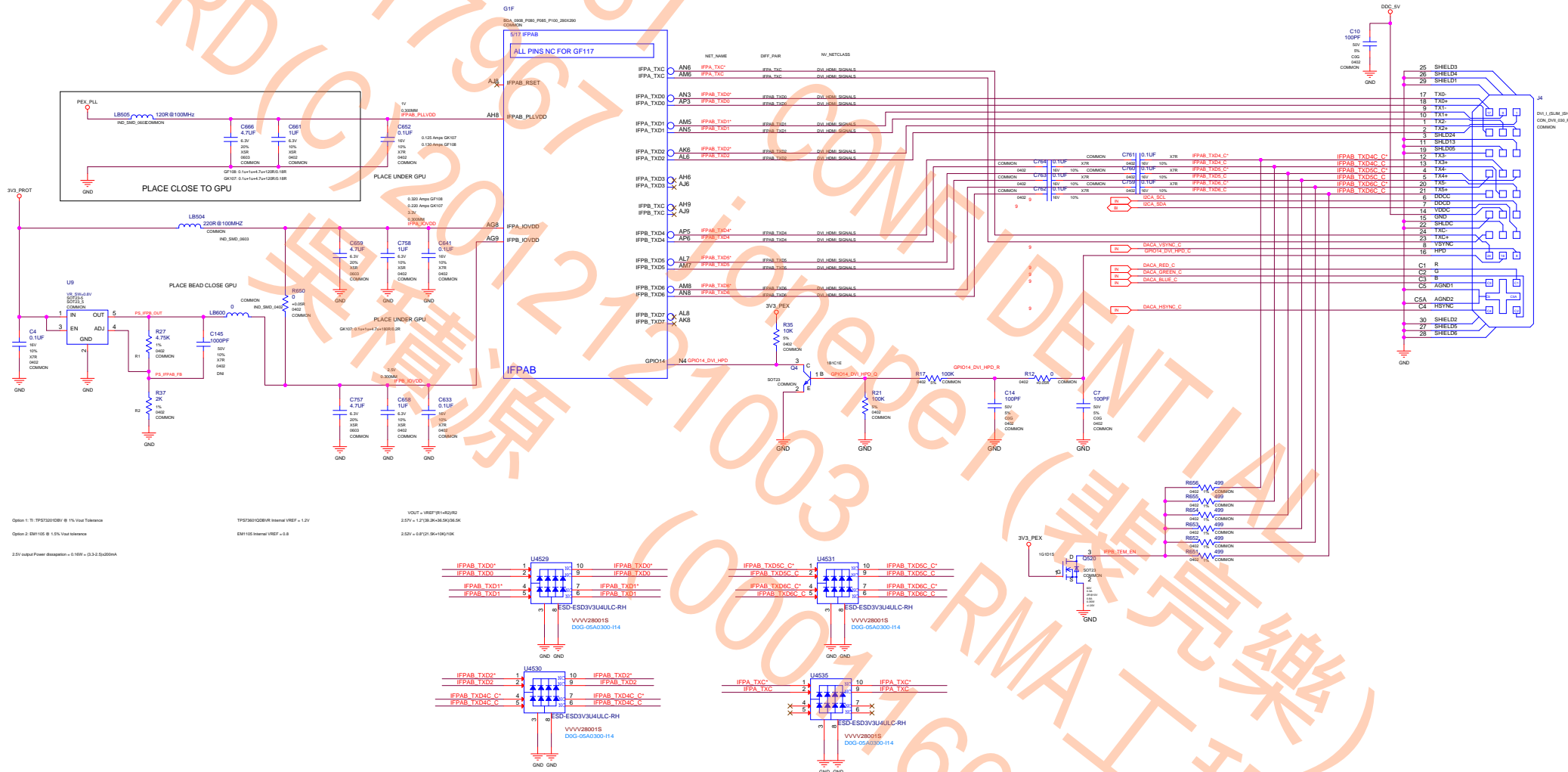
DACA VGA



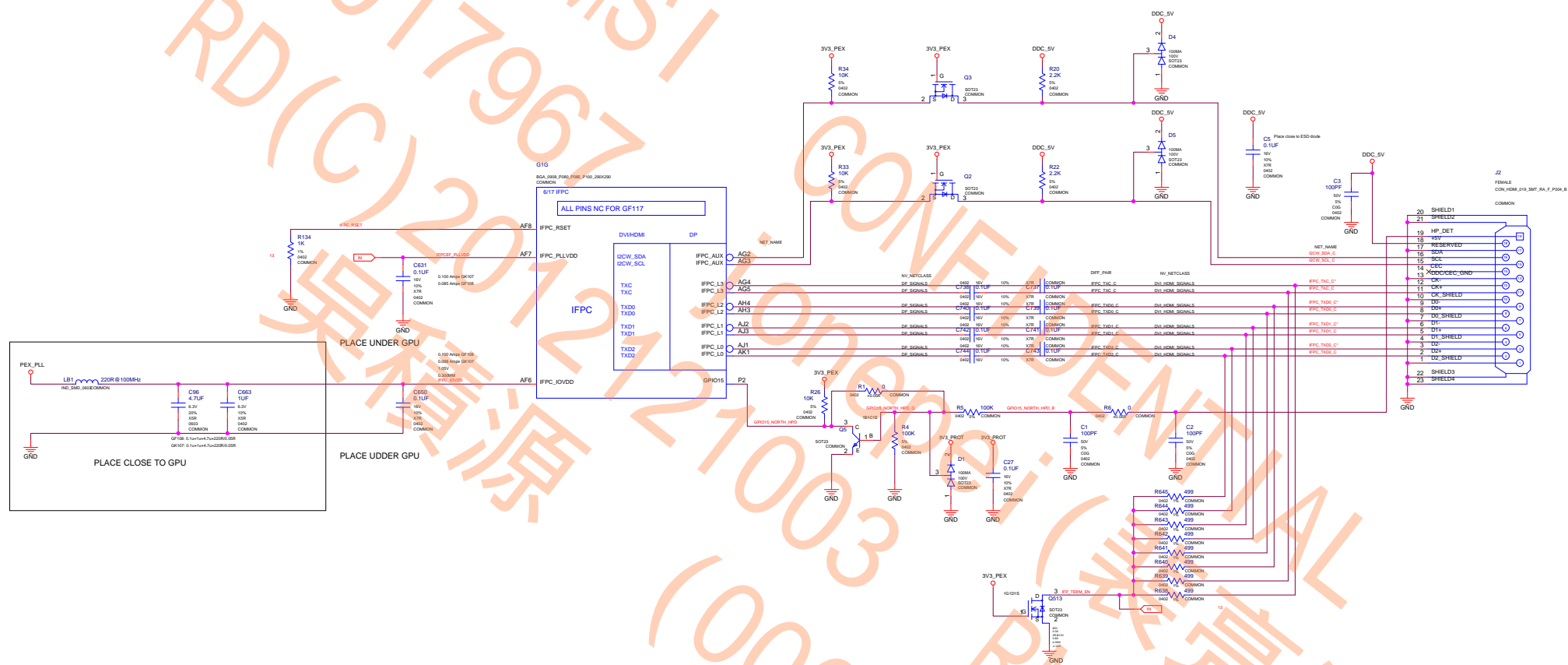
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Size Custom	Document Description 01_Table of Contents	Rev 1.0
Date: Tuesday, August 07, 2012		Sheet 9 of 25

IFPAB TMDS



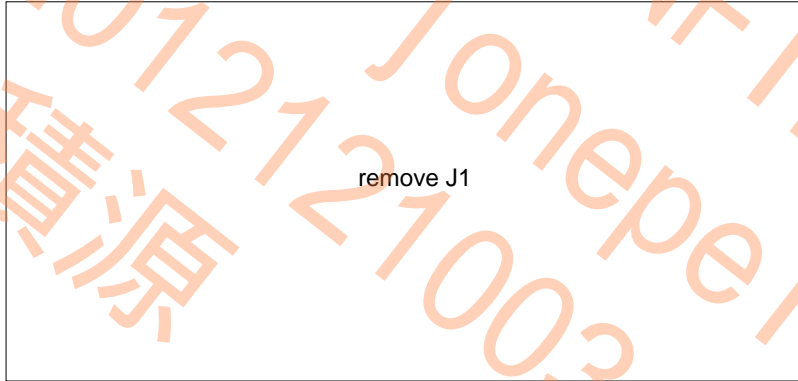
IFPC mHDMI



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MS-V280

Size Custom	Document Description 01_Table of Contents	Revisions 1
Date: Tuesday, August 07, 2012	Sheet 11 of 26	


IFPC DP



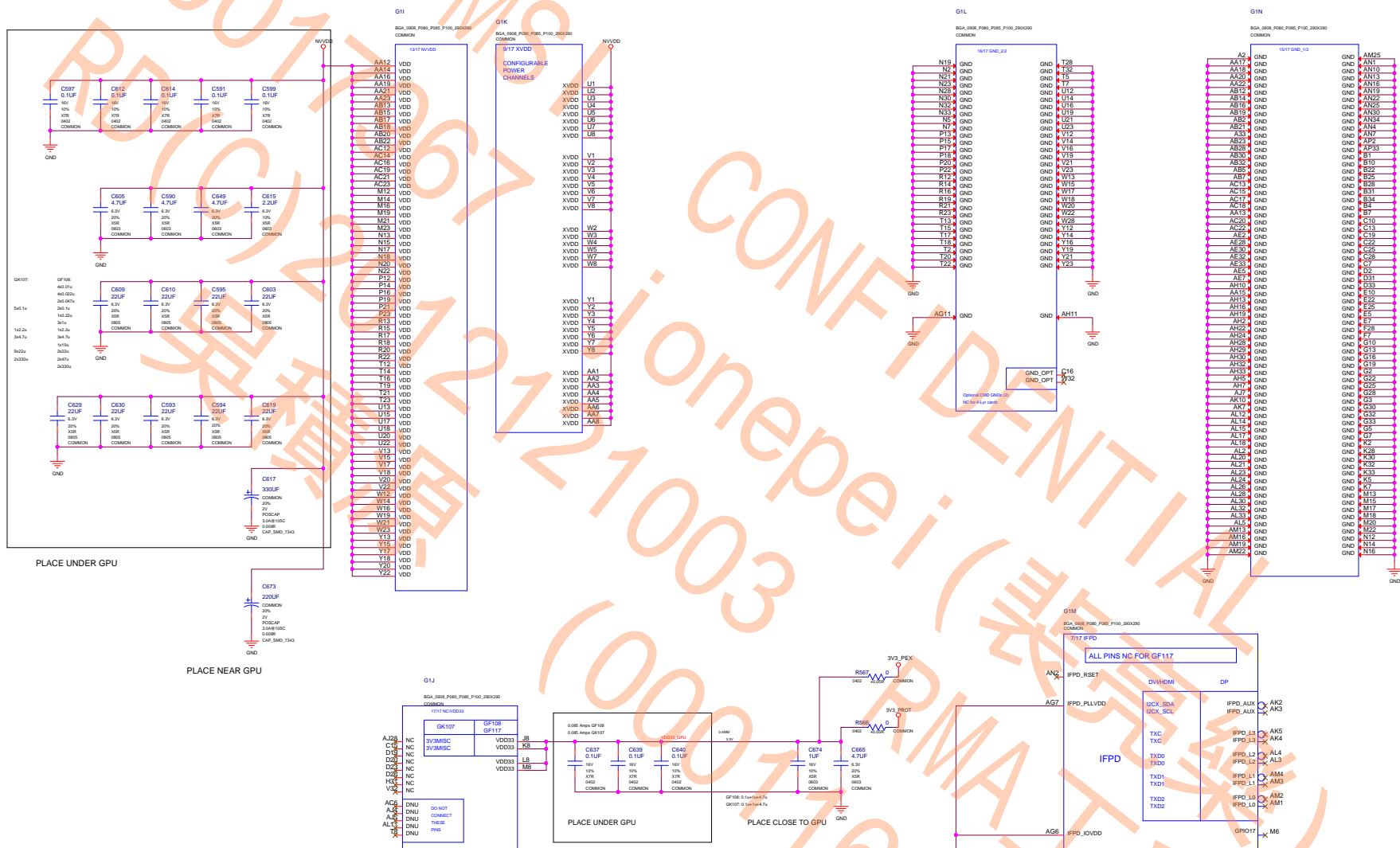
MICRO-STAR INT'L CO.,LTD		
MS-V280		
Size	Document Description	Rev
Custom	01_Table of Contents	1.0
Date: Tuesday, August 07, 2012 Sheet 12 of 28		

IFPE Long HDMI

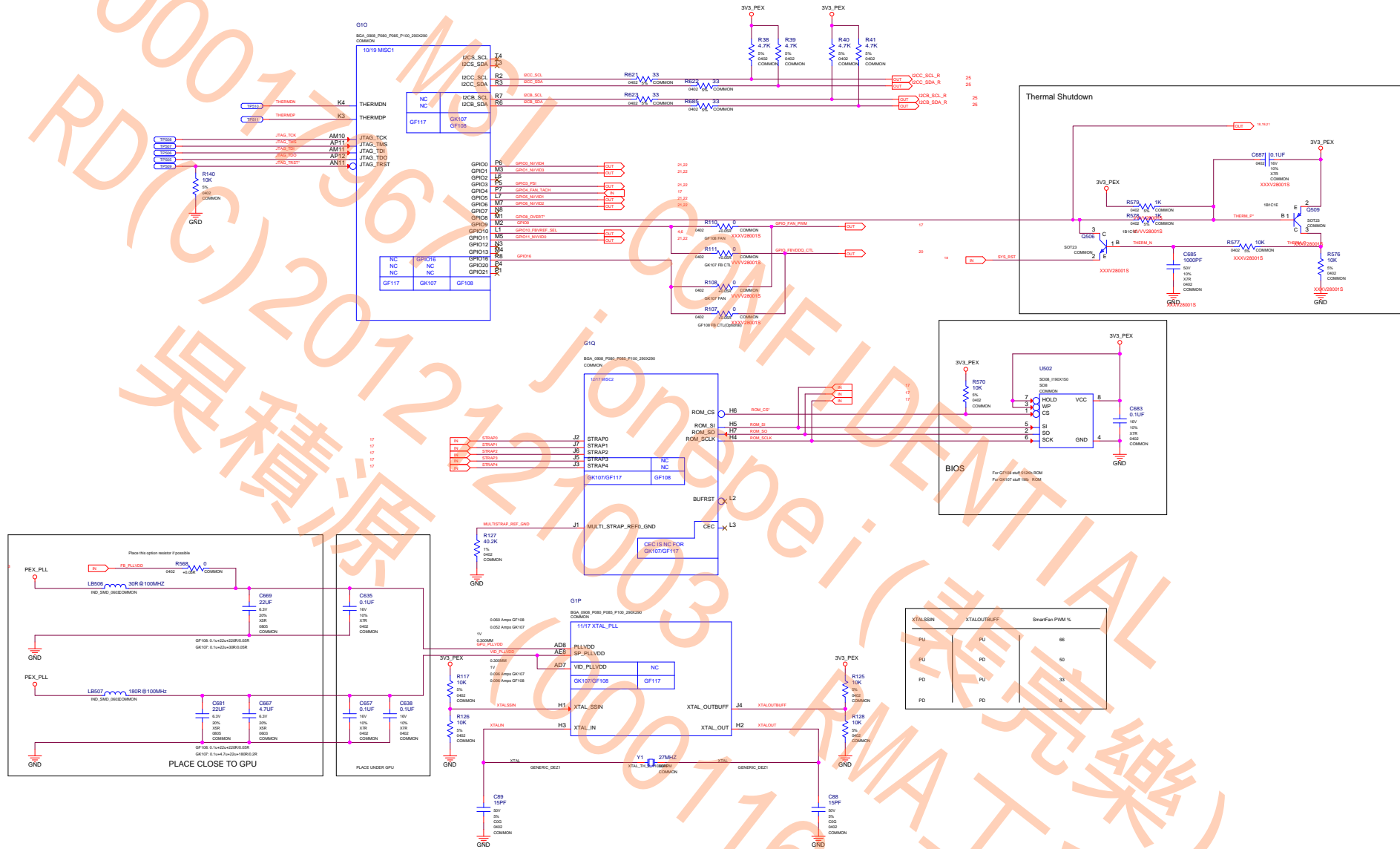


		MICRO-STAR INT'L CO.,LTD	
		MS-V280	
Size	Custom	Document Description	Rev
		01_Table of Contents	1.0
Date: Tuesday, August 07, 2012		Sheet	14 of 28

Core Decoupling, GPU_VDD_3V3



Misc Interfaces



Power Supply I: Misc Power

Remove U501

PEX_VDD = 1.05V @ 1.7A (GF108)
PEX_VDD = 1.05V @ 3.3A (GK107)

315-0610-000: 027105WV (2A) 2%
315-0614-000: 027105WV (2A) 2%
315-0610-000: 027105WV (2A) 2%
315-0614-000: 027105WV (2A) 2%

VOUT1 range
3.0-5.0V
3.0-5.0V
3.0-5.0V

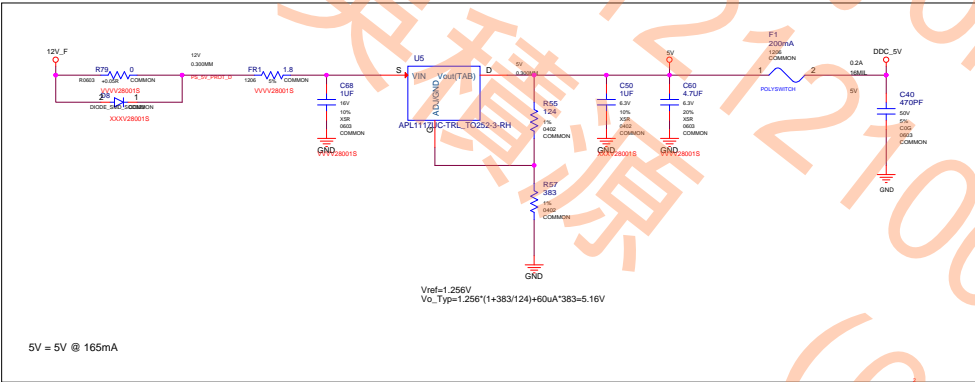
Vout = 0.8V * (1+R2/R1)
1.05V ± 0.0V * (1+3.33k/1.5k)
1.05V ± 0.0V * (1+3.33k/1.5k)

Remove U503

PEX_PLL = 1.05V @ 500mA (GF108)
PEX_PLL = 1.05V @ 537mA (GK107)

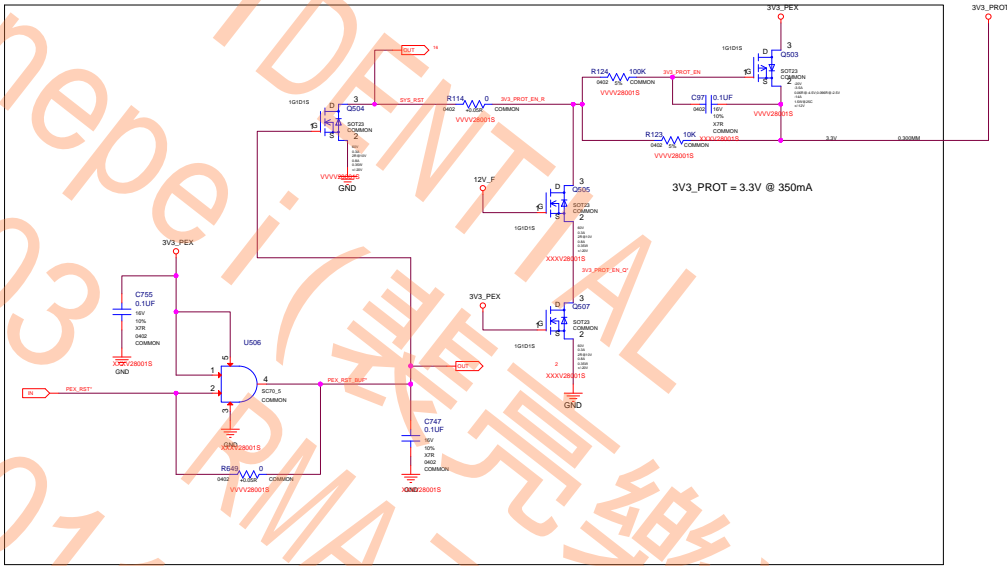
315-0610-000: 027105WV (2A) 2%
315-0614-000: 027105WV (2A) 2%
315-0610-000: 027105WV (2A) 2%
315-0614-000: 027105WV (2A) 2%

Vout = 0.8V * (1+R2/R1)
1.05V ± 0.0V * (1+3.33k/1.5k)
1.05V ± 0.0V * (1+3.33k/1.5k)

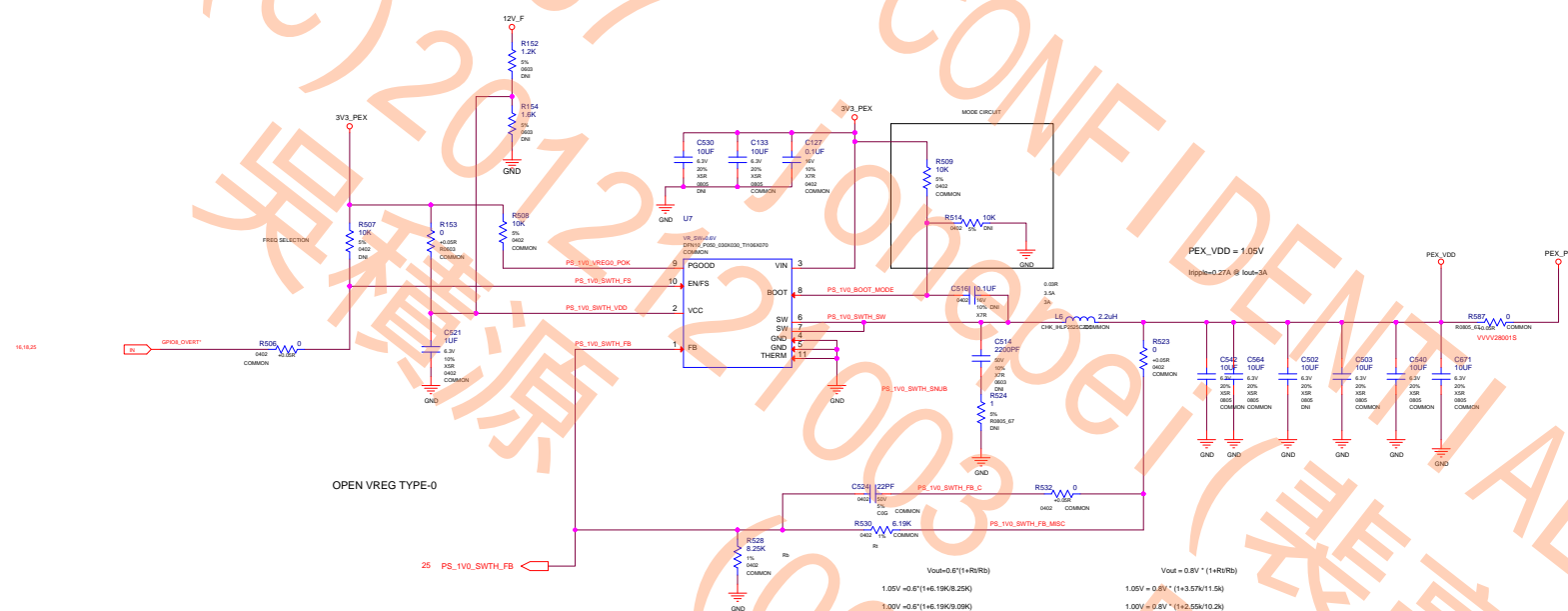


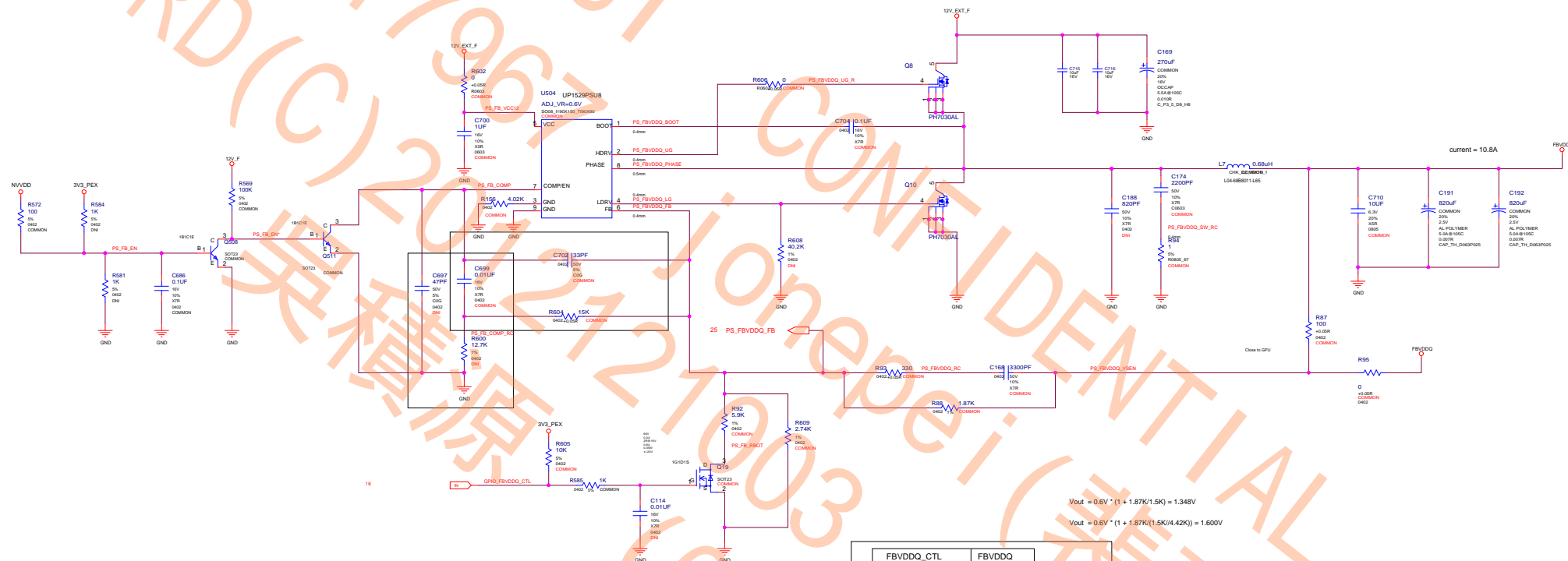
Remove U3

3V3_FUSE = 3.3V @ 500mA



GK107 PEX_VDD OPTION

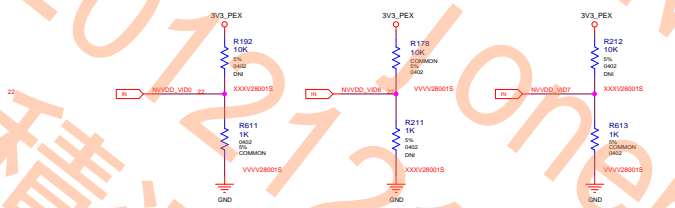
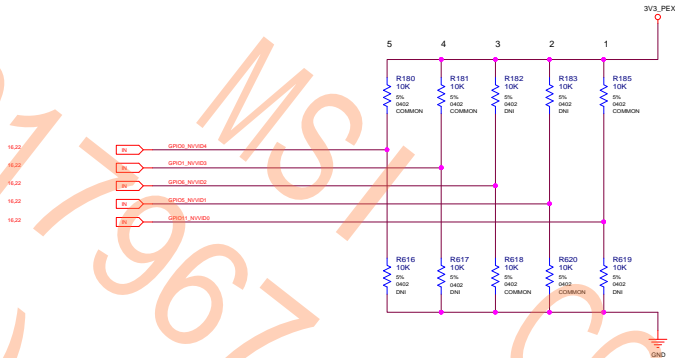




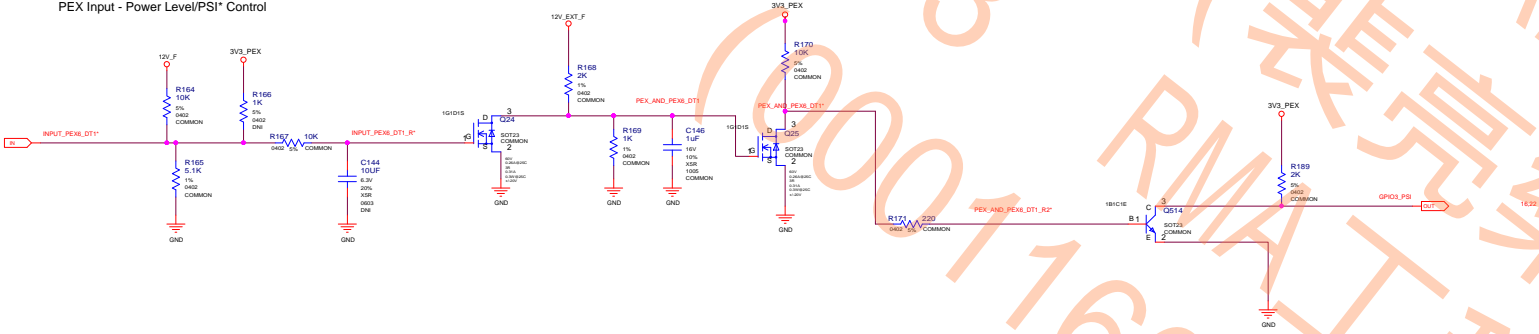
FBVDDQ_CTL	FBVDDQ
0	1.35V
1	1.5V

<= DEFAULT

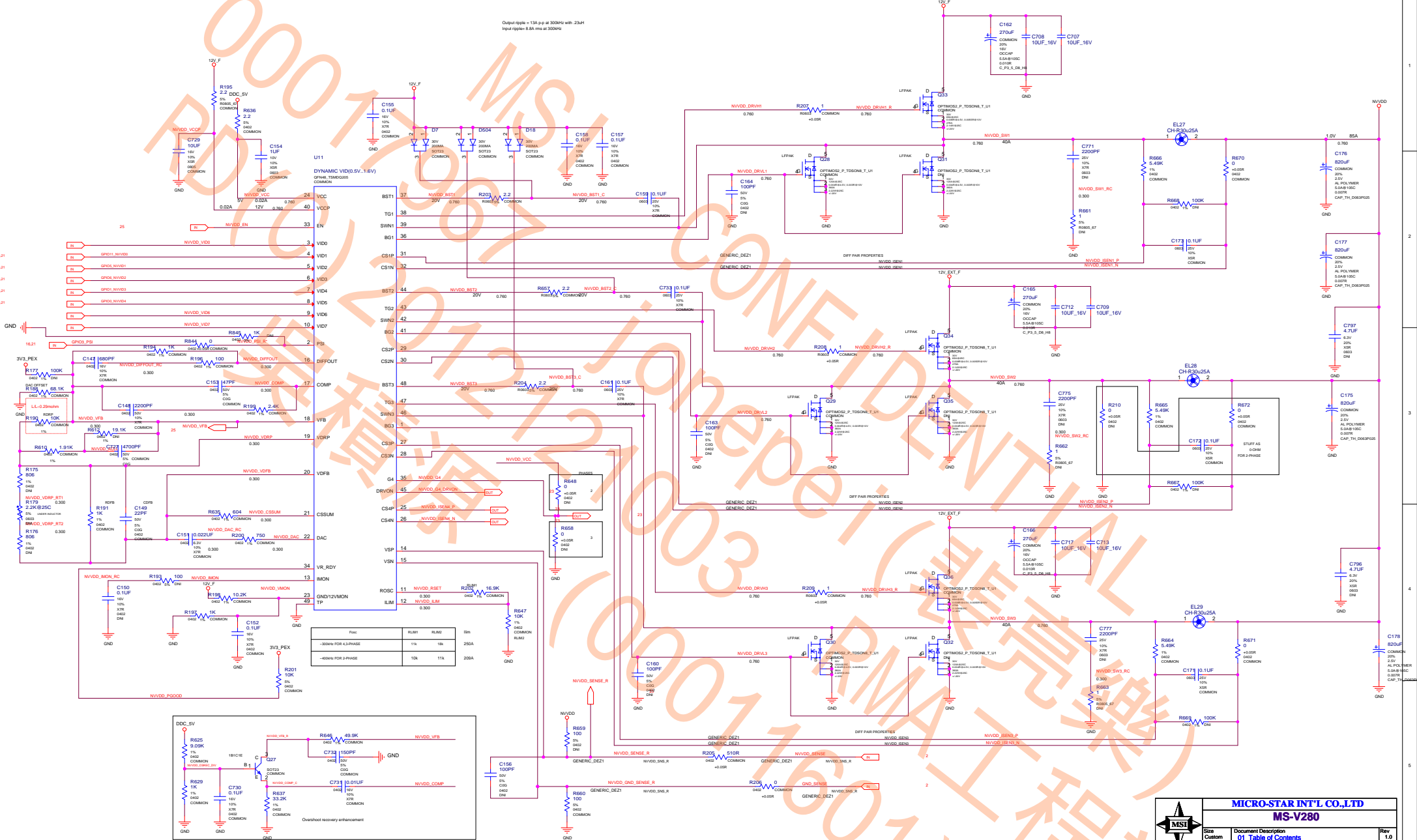
VID Table					
GPIO4	GPIO3	GPIO2	GPIO1	GPIO0	VOUT
VID_5	VID_4	VID_3	VID_2	VID_1	
0	0	0	0	0	1.2125V
0	0	0	0	1	1.2000V
0	0	0	1	0	1.1875V
0	0	0	1	1	1.1750V
0	0	1	0	0	1.1625V
0	0	1	0	1	1.1500V
0	0	1	1	0	1.1375V
0	0	1	1	1	1.1250V
0	1	0	0	0	1.1125V
0	1	0	0	1	1.1000V
0	1	0	1	0	1.0875V
0	1	0	1	1	1.0750V
0	1	1	0	0	1.0625V
0	1	1	0	1	1.0500V
0	1	1	1	0	1.0375V
0	1	1	1	1	1.0250V
1	0	0	0	0	1.0125V
1	0	0	0	1	1.0000V
1	0	0	1	0	0.9875V
1	0	0	1	1	0.9750V
1	0	1	0	0	0.9625V
1	0	1	0	1	0.9500V
1	0	1	1	0	0.9375V
1	0	1	1	1	0.9250V
1	1	0	0	0	0.9125V
1	1	0	0	1	0.9000V
1	1	0	1	0	0.8875V
1	1	0	1	1	0.8750V
1	1	1	0	0	0.8625V
1	1	1	0	1	0.8500V
1	1	1	1	0	0.8375V
1	1	1	1	1	0.8250V

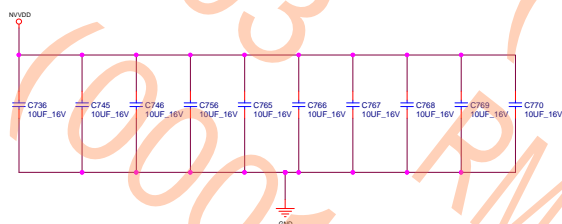


PEX Input - Power Level/PSI* Control



NVVDD CTRL



[illegible]

[illegible]