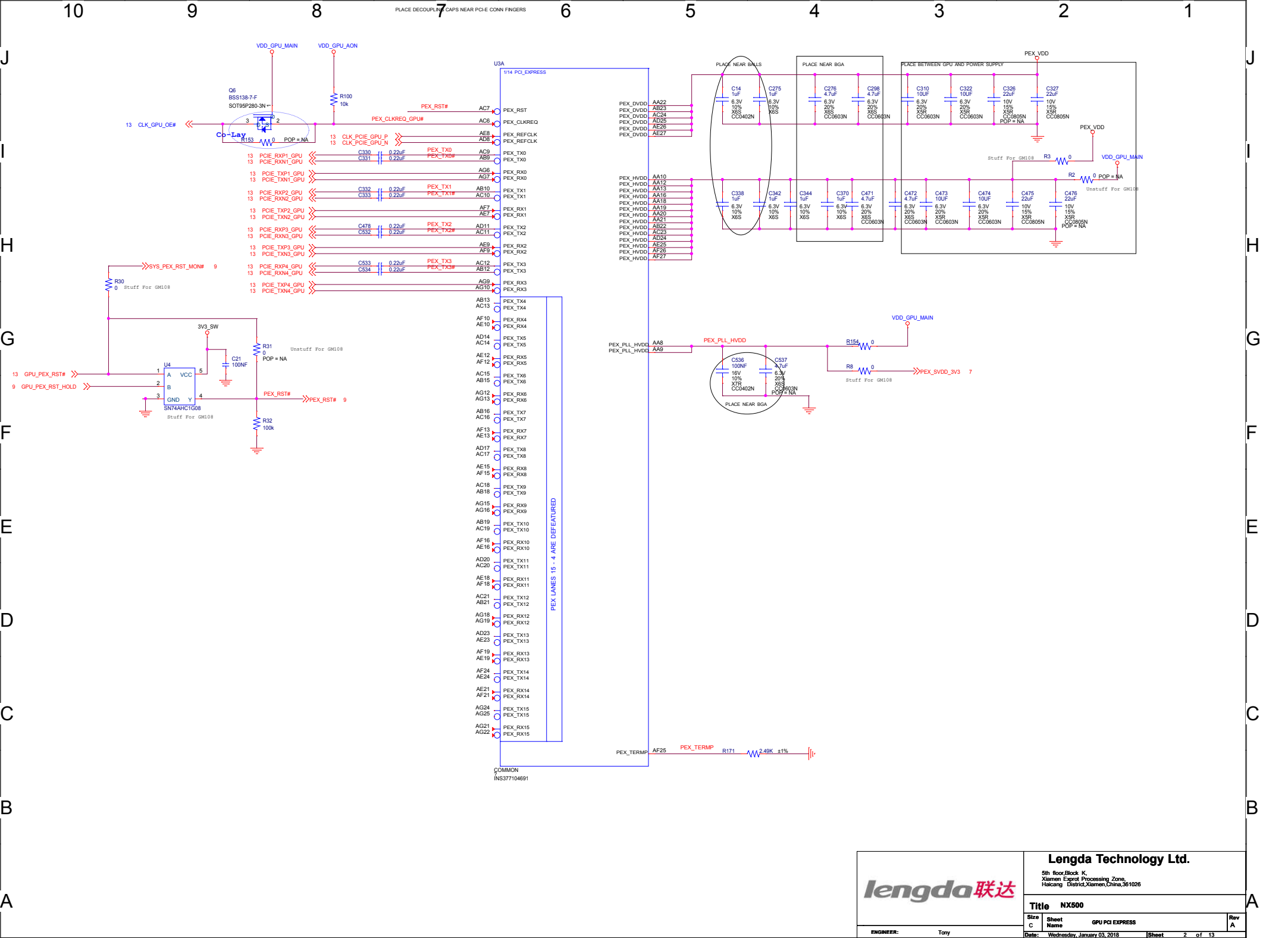
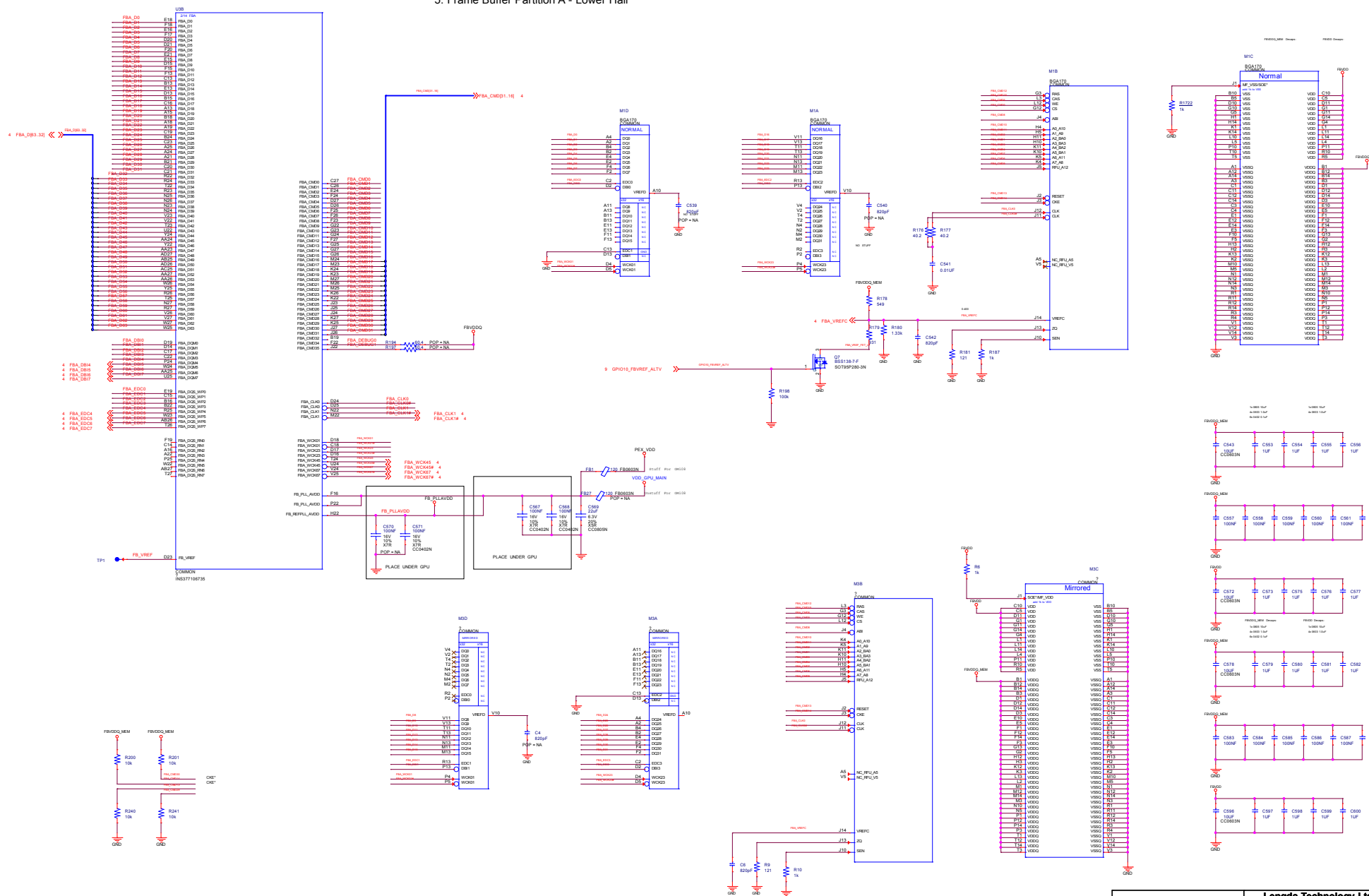
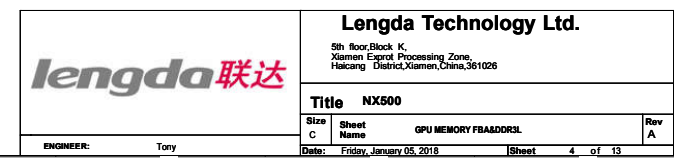
		Lengda Technology Ltd.	
		5th floor,Block K, Xiamen Exprot Processing Zone, Haicang District,Xiamen,China,361026	
Title NX500			
Size A	Sheet Name GPU Power Sequence	Rev A	
ENGINEER: Tony.lin		Date: Wednesday, January 03, 2018	Sheet 1 of 13



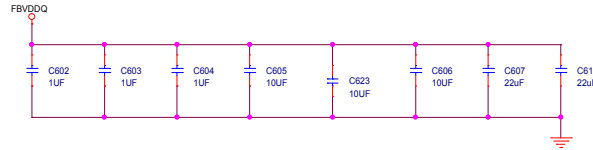




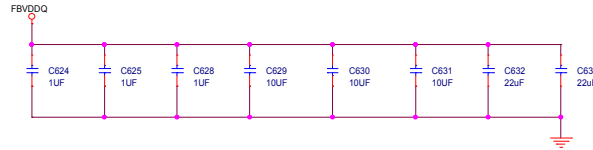
Decoupling for DRAMs

PLACE 0.1uF CAPS CLOSEST TO THE MEMORY DEVICES
PLACE LARGER CAPACITORS SLIGHTLY FARTHER AWAY

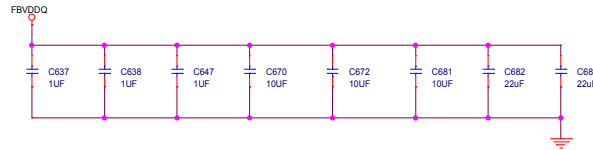
DECOUPLING FOR M1 DEVICE



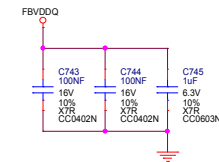
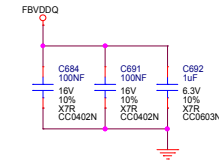
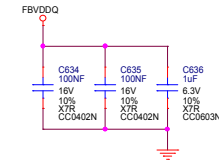
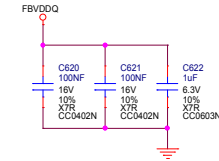
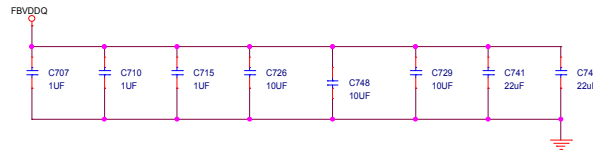
DECOUPLING FOR M1 DEVICE



DECOUPLING FOR M2 DEVICE



DECOUPLING FOR M2 DEVICE



lengda 联达

ENGINEER: Tony

Lengda Technology Ltd.

5th floor Block K,
Xiamen Export Processing Zone,
Haicang District, Xiamen, China, 361026

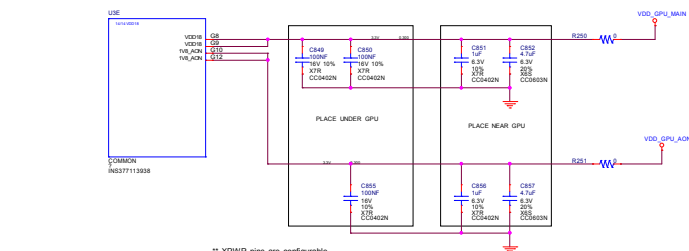
Title NX500

Sheet Name GPU Decoupling for DRAMs

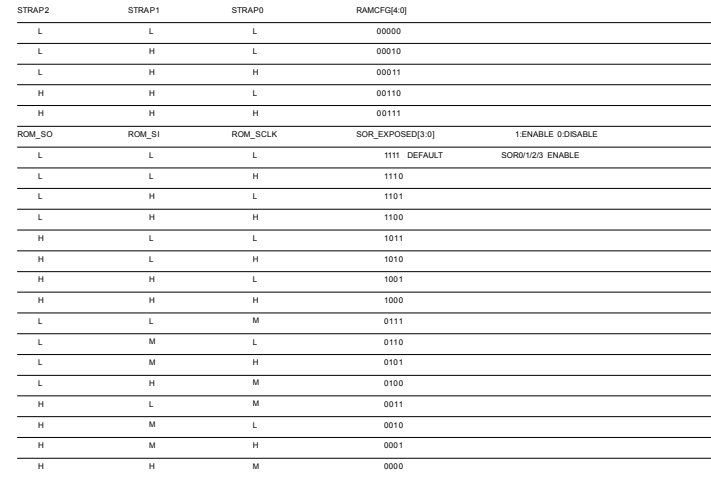
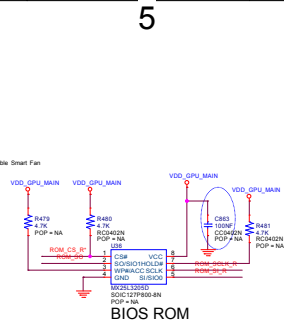
Date: Wednesday, January 03, 2018

Sheet 5 of 13

Rev A



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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

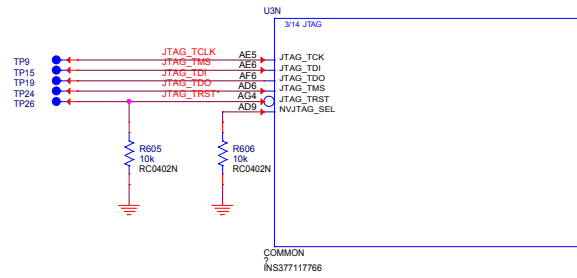
1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGNAL

1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

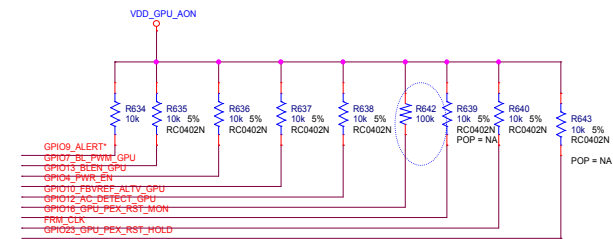
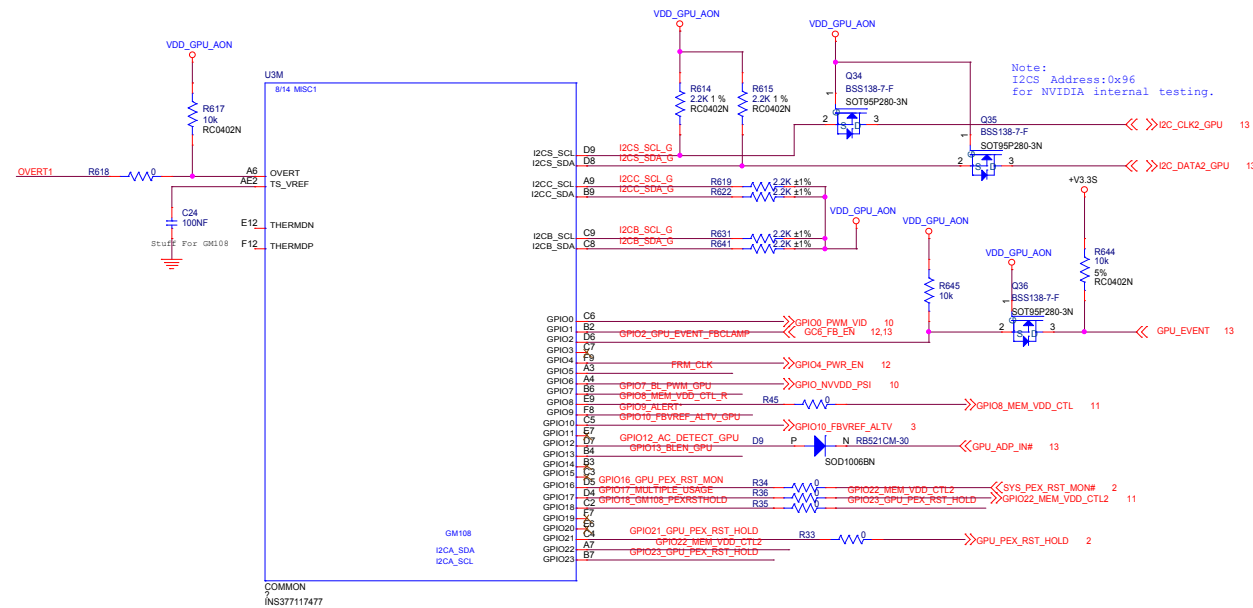
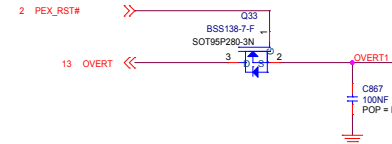
1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE
```

GM107 Straps

[illegible]



TEMP SENSOR (CYA Option)
THERMADC and THERMDA:
1. Solder track width and spacing
2. Solder guard track width and spacing
3. ground referenced
4. Connect guard tracks to pin0

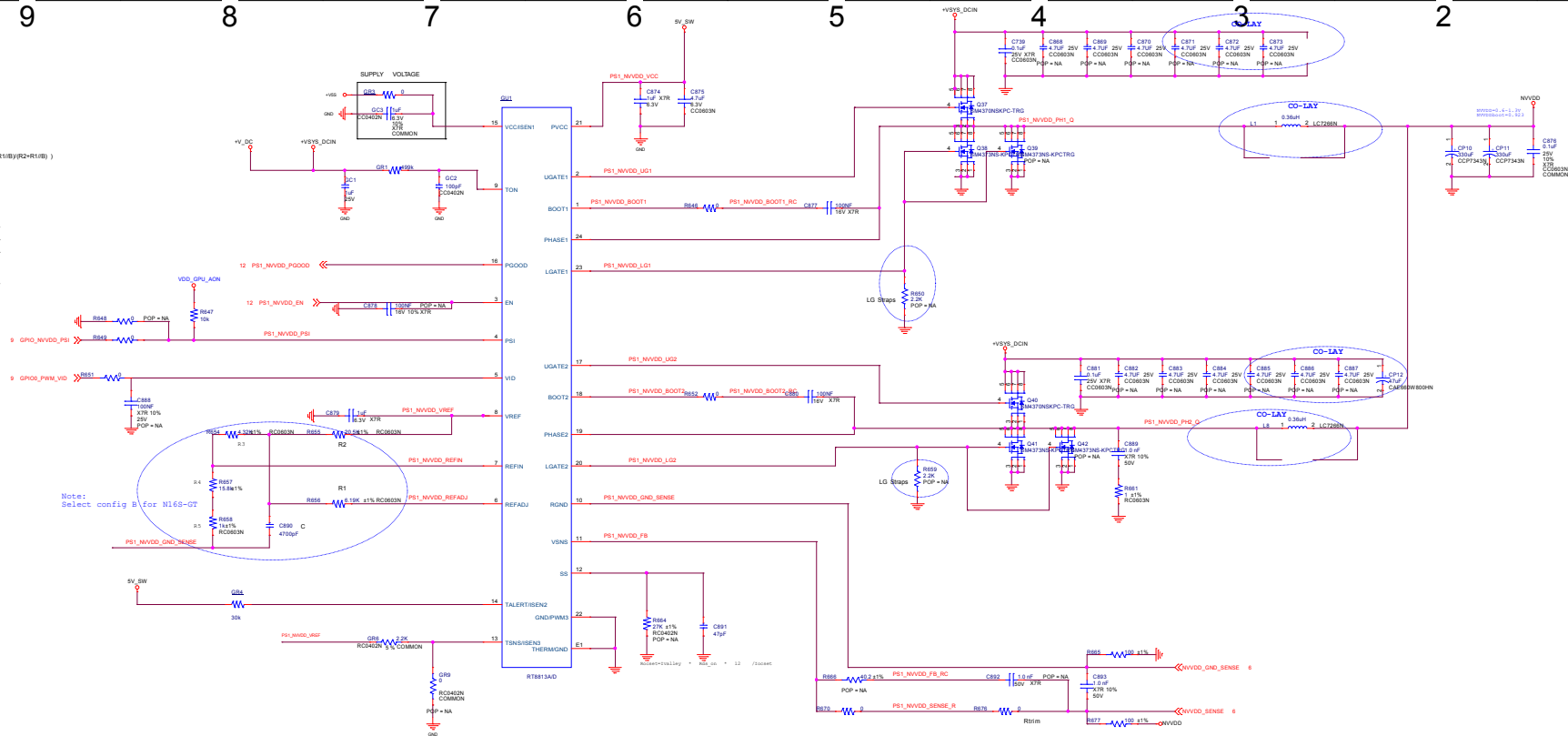


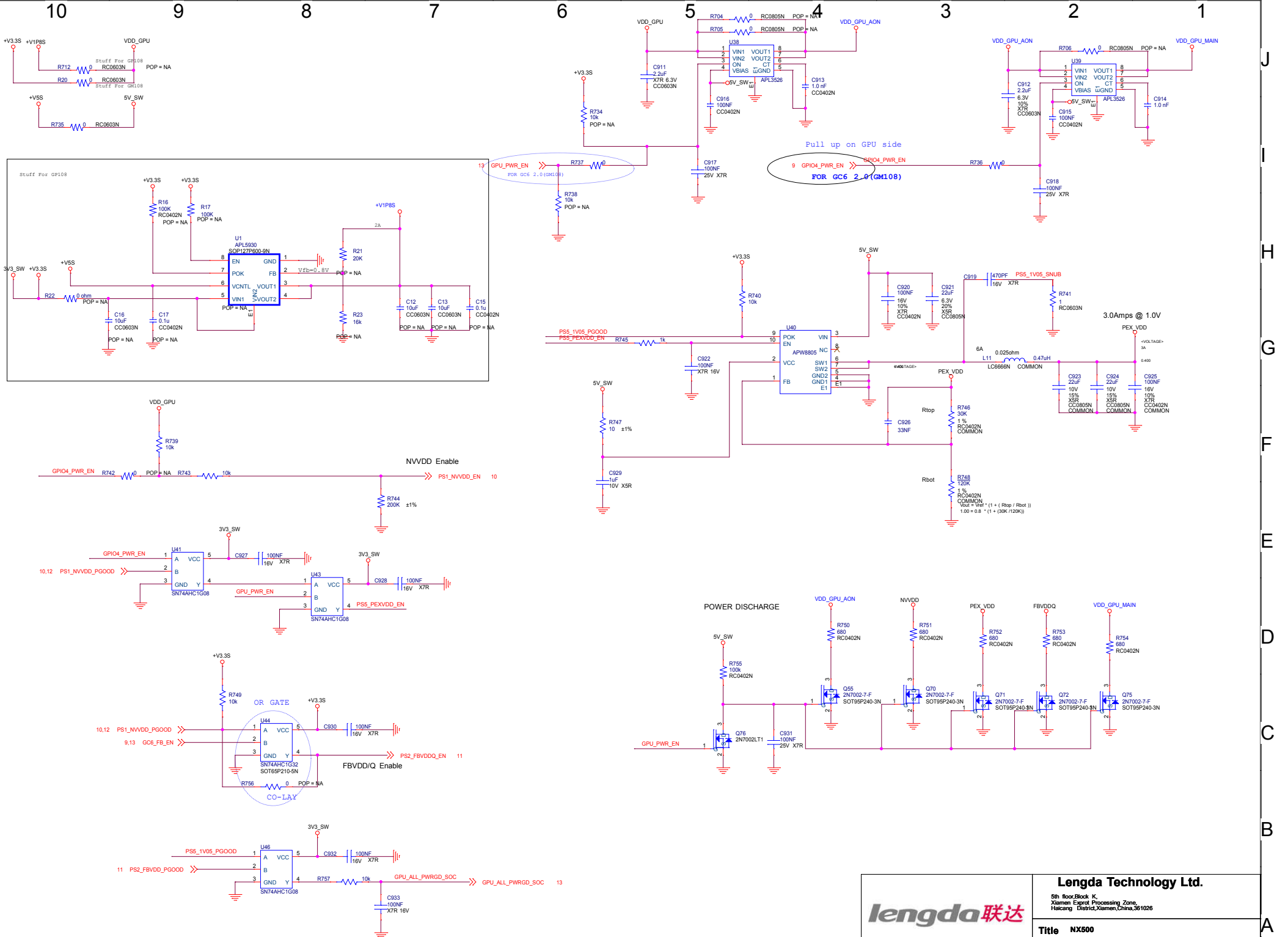
D = Positive Duty Cycle of PWM VID
A = (R4+R5)/(R3+R4+R5)
B = R3/R4+R5
 $V_{out} = V_{ref} * A * (D^2 / (R2/B) / (R1+R2/B) / (R1/B) / (R2+R1/B))$
 $V_{min} = V_{out}(D = 0), V_{max} = V_{out}(D = 1)$
 $V_{boot} = V_{ref} * A * B / (R2+B)$
 $V_{slb} = V_{ref} * A * (R_{slb}/B) / (R2+R_{slb}/B)$

PSI Setting	
Operation Mode	Voltage Setting
Multi Phase CCM	3.3V
Single Phase USM	2.0V
Single Phase FCCM	1.2V
Single Phase PSM	GND

COMPONENT	Unit	RES-01
R1	K	6.19
R2	K	20.5
R3	K	4.32
R4	K	15.8
R5	K	1
C	nF	4.7
Vmin	V	0.5
Vmax	V	1.25
Vboot	V	0.8

Note:
Select config B for N16S-GT





10 9 8 7 6 5 4 3 2 1

J
I
H
G
F
E
D
C
B
A

