

[illegible][illegible][illegible][illegible]

**Model Name:GA-F2A55M-DS2**

### Component value change history

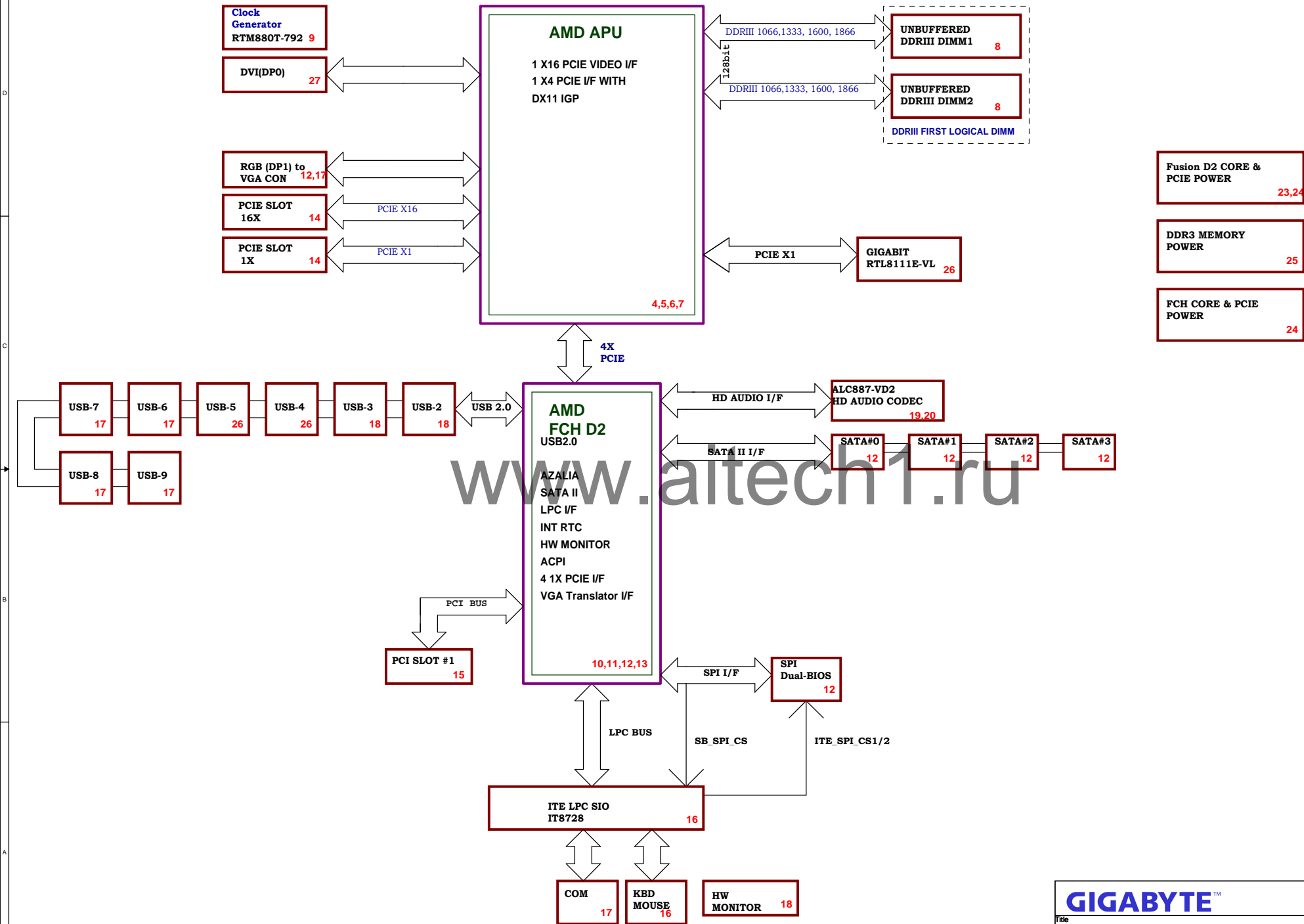
**Version: 1.02**  
P-Code: U98126-0

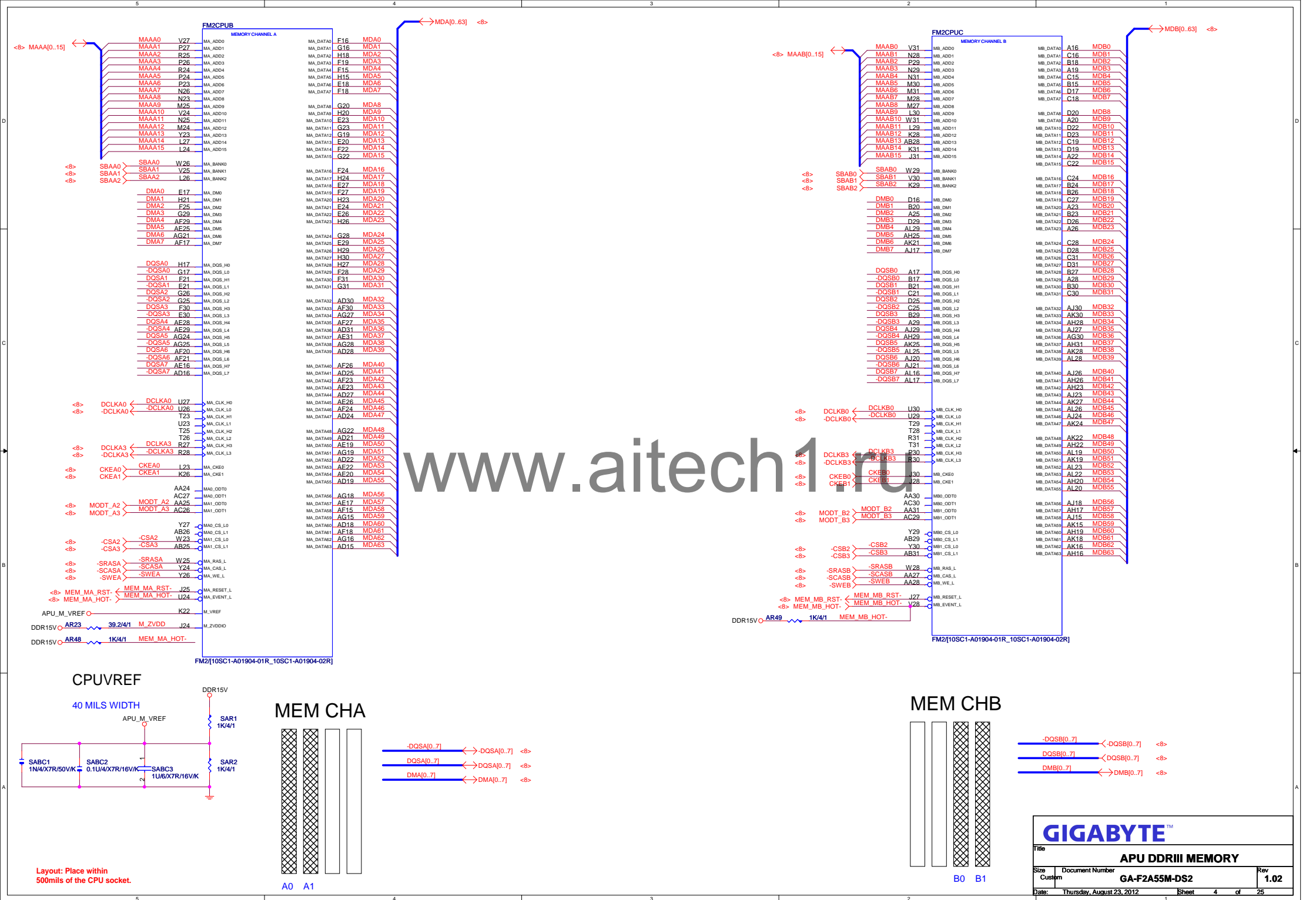
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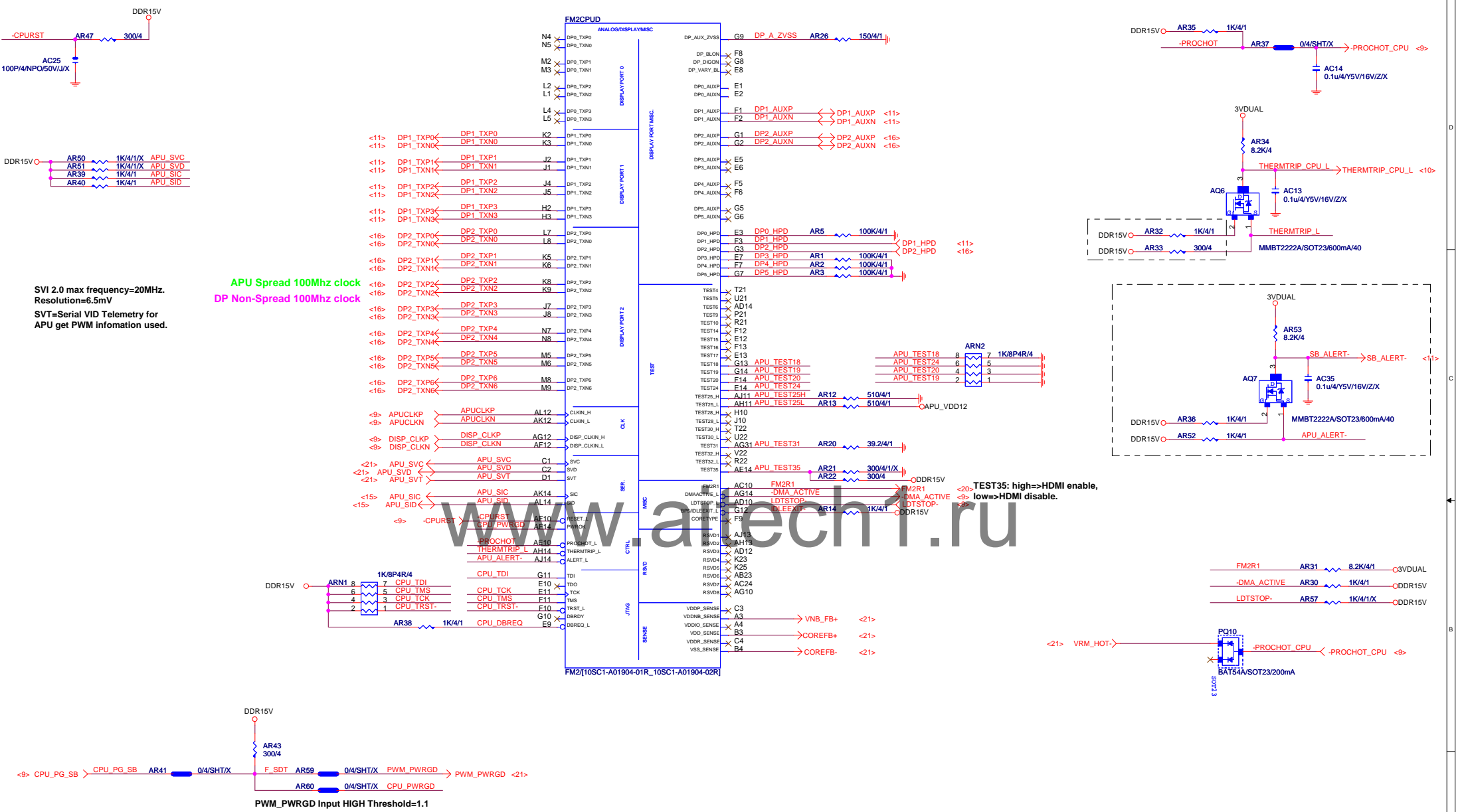
### Circuit or PCB layout change for next version

[illegible]

# AMD Fusion Hudson CUSTOMER DESKTOP REFERENCE DESIGN



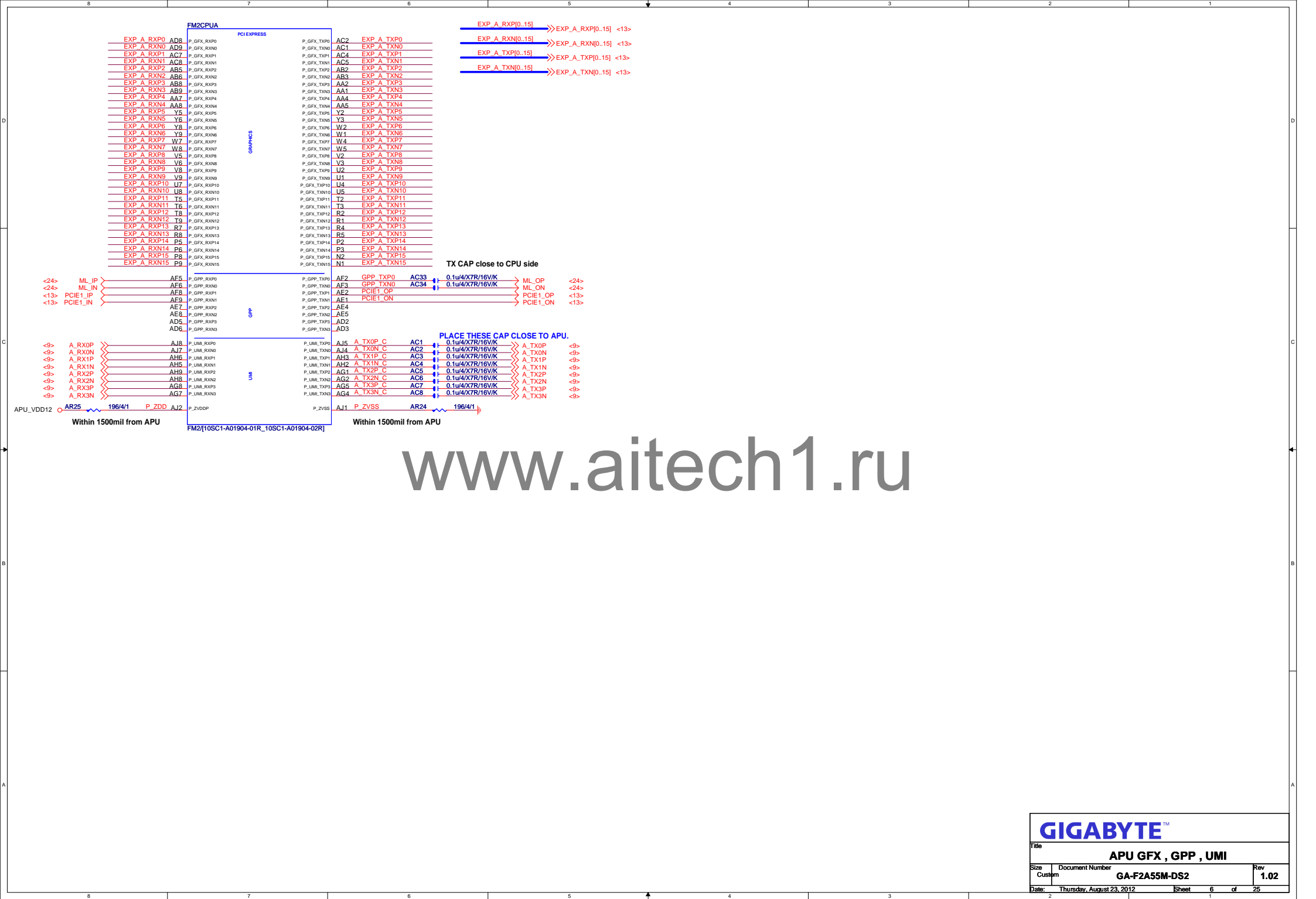




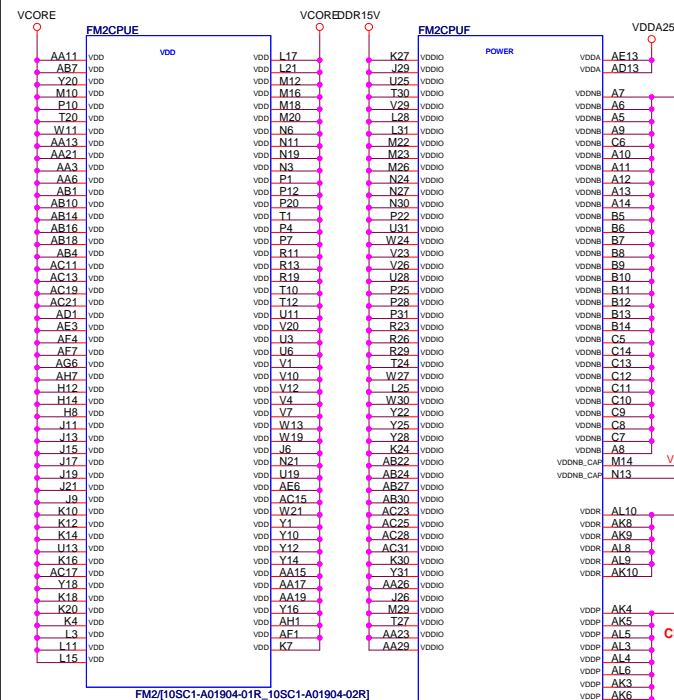
SVI 2.0 max frequency=20MHz.  
Resolution=6.5mV  
SVT=Serial VID Telemetry for  
APU get PWM information used.

APU Spread 100Mhz clock  
DP Non-Spread 100Mhz clock

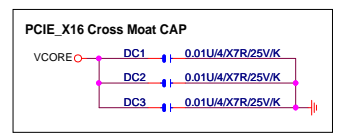
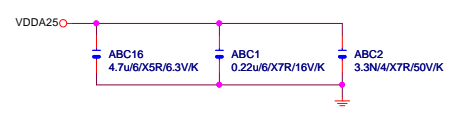
TEST35: high=>HDMI enable,  
low=>HDMI disable.



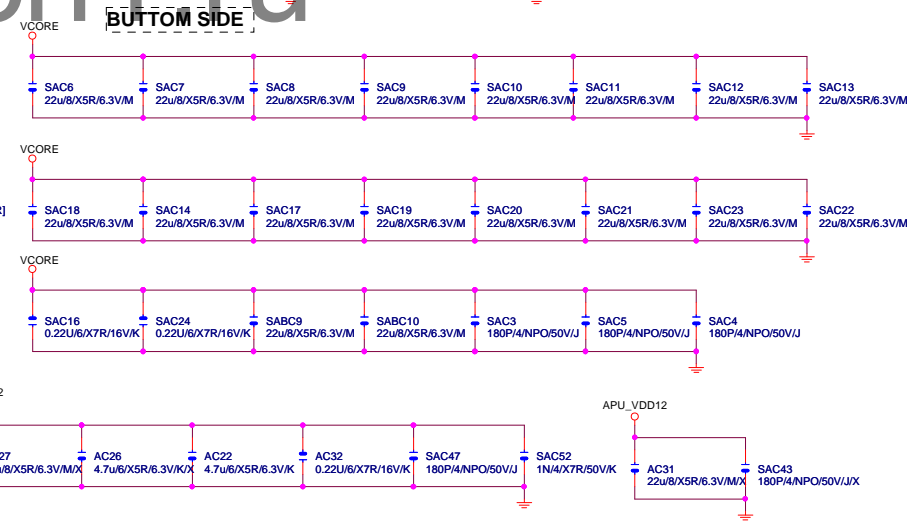
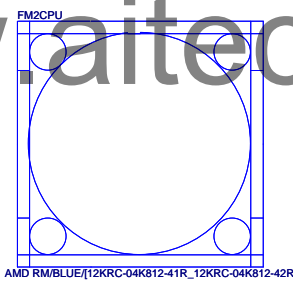
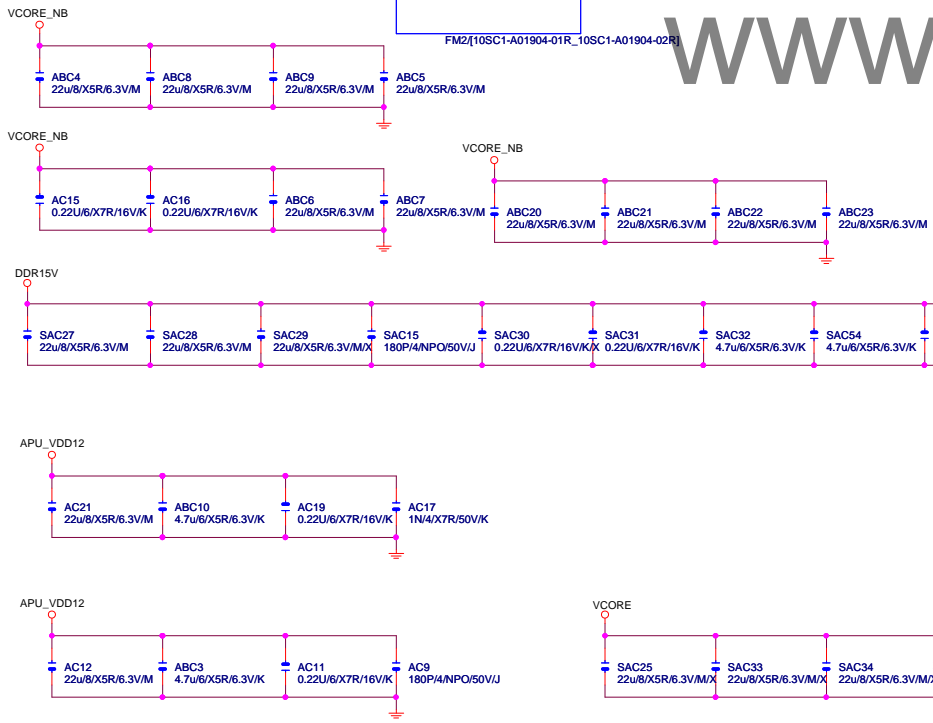
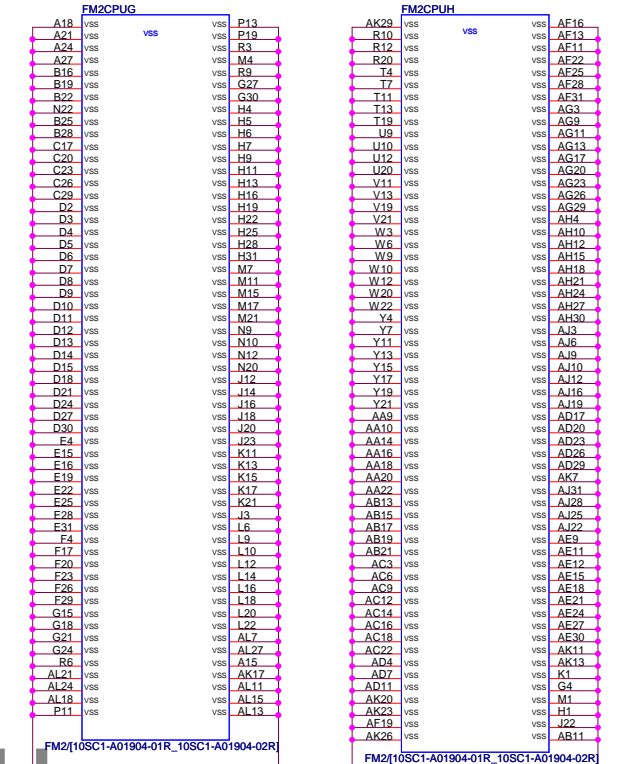
DDR15V=1.25V/1.35V/1.5V(DDR3)



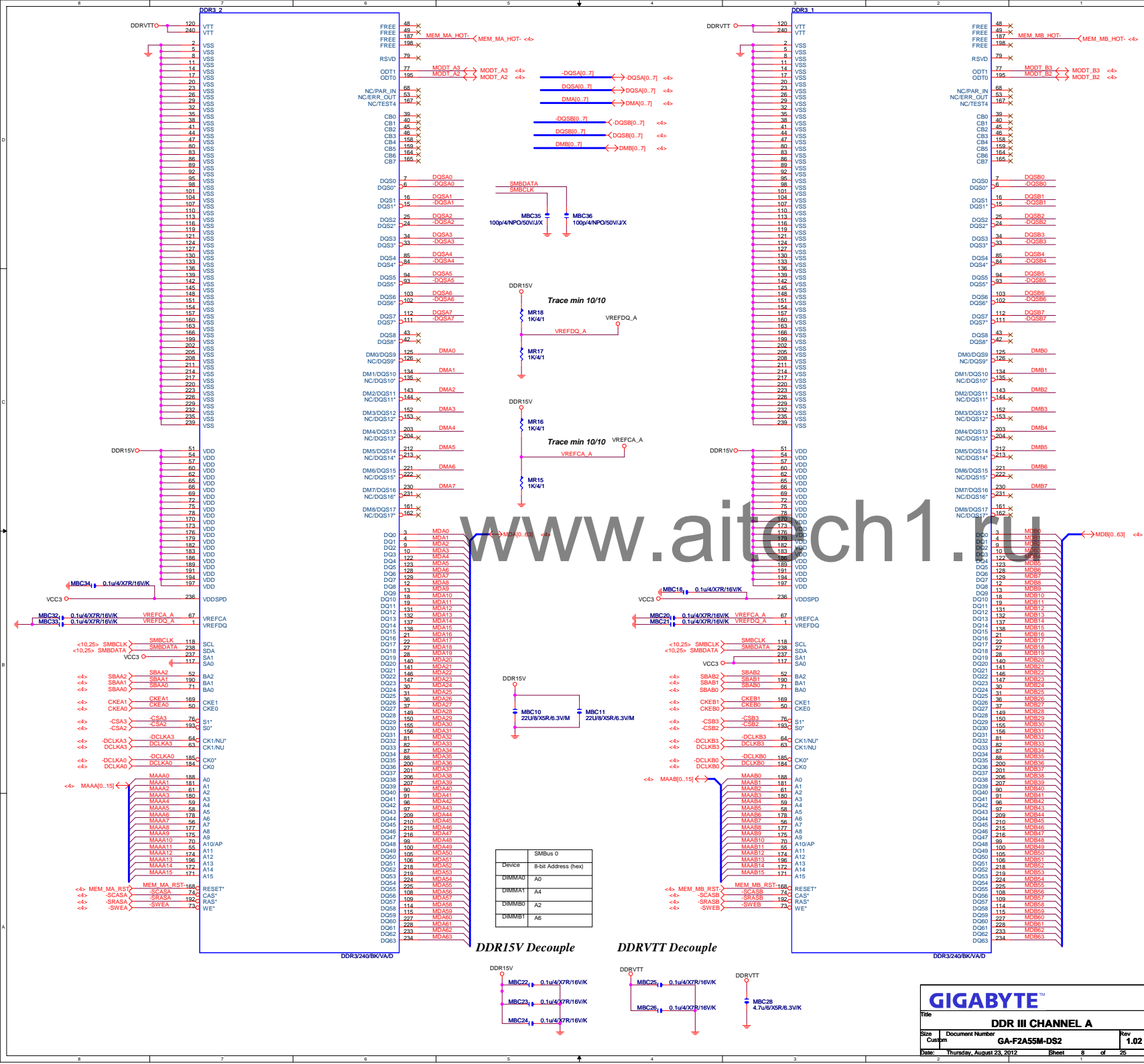
GND:232 pin,  
VCORE:99 pin,  
VCORE\_NB: 30 pin,  
DDR15V:49 pin,  
VDDP:9 pin, VDDR:9  
pin, VDDA25:2 pin,  
VDDNB\_CAP:2  
pin, Total:430 pin.



Place close N13, M14 pin inside  
the backplate cavity opening.



GIGABYTE™			
Title APU POWER & GND			
Size Custom	Document Number GA-F2A55M-DS2	Rev 1.02	
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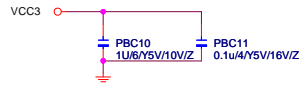
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SMBus 0	
Device	8-bit Address (hex)
DIMMA0	A0
DIMMA1	A4
DIMMB0	A2
DIMMB1	A6









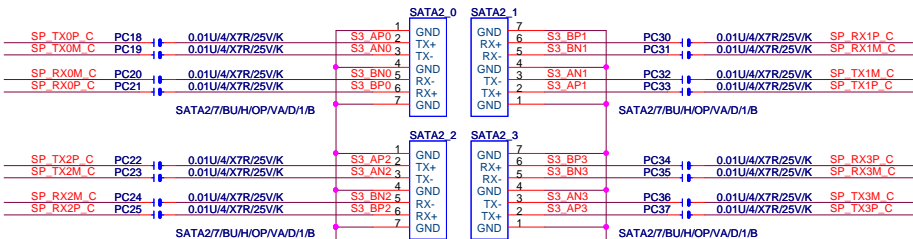
SATA 6~7 for Hudson D4.

PLACE SATA\_CAL RES VERY CLOSE TO BALL OF U1

VCC3

<19> -SATA\_LED

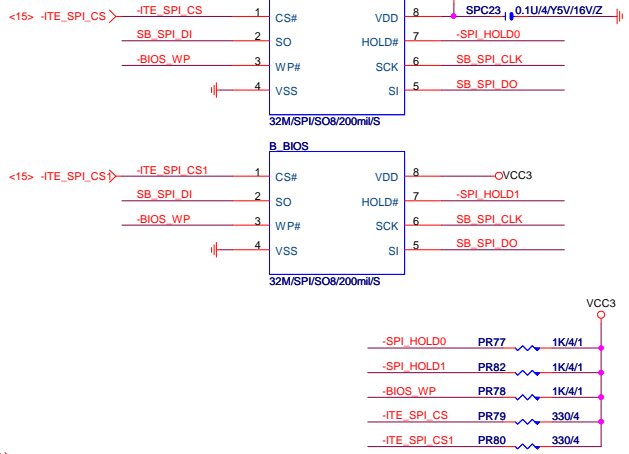
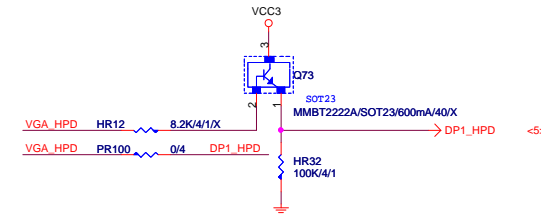
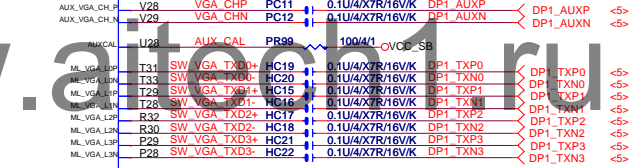
<5> SB\_ALERT-



RGMI NOT SUPPORT. DG:1.20

GBE\_INTR PR43 8.2K/4

10" Max for FCH VGA.



Fix flash BIOS fail issue 1K to 330 ohm

**GIGABYTE™**

TitleHudson D3 SATA/HWM/SPI

SizeCustomDocument NumberGA-F2A55M-DS2Rev1.02

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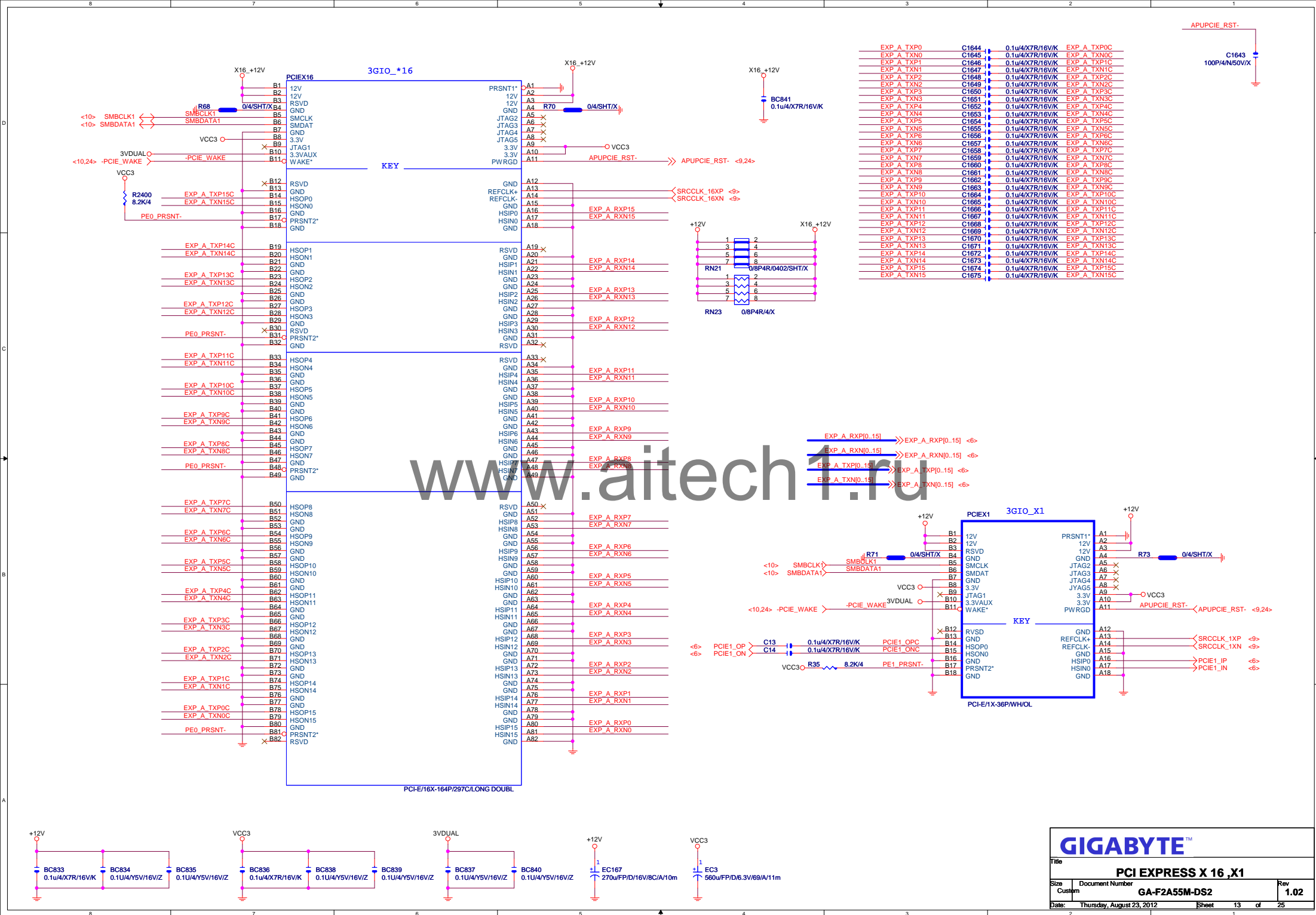
PLACE ALL THE DECOUPLING CAPS ON THIS SHEET CLOSE TO SB AS POSSIBLE.

Hudson 3/4 does not support an RGMII/MII interface.

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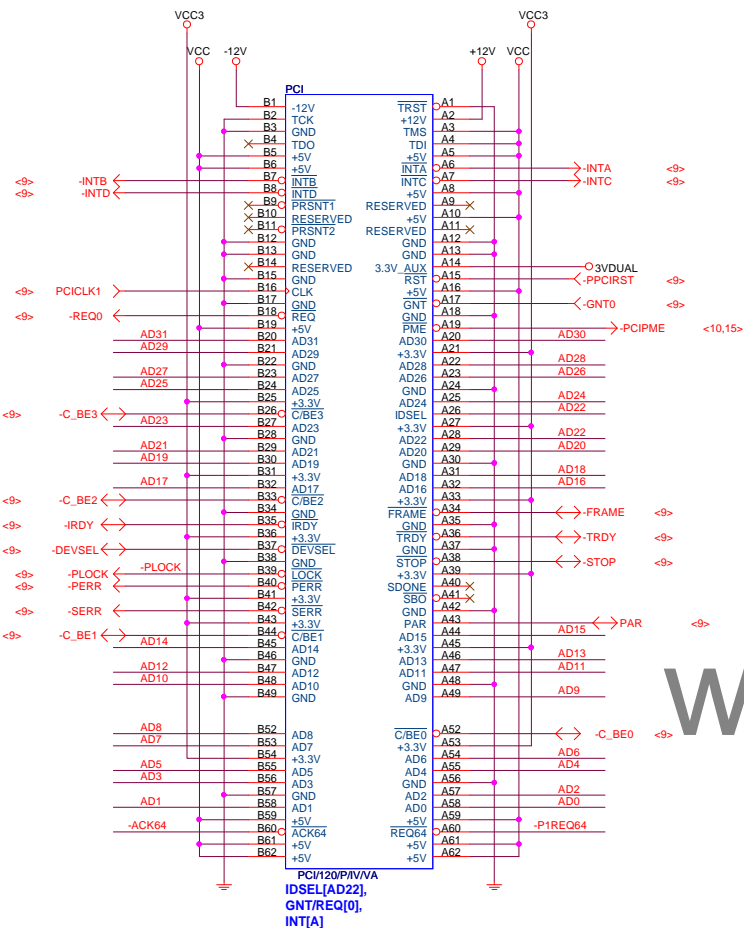
**GIGABYTE**

Title			
HUDSON D3 PWR & GND			
Size	Document Number	Rev	
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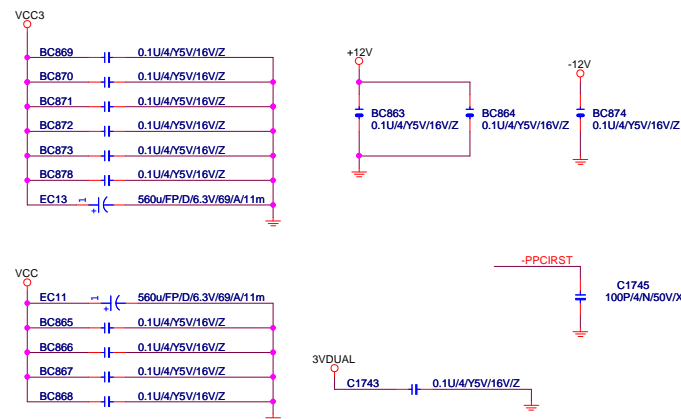


# PCI SLOT 1,2

<9> AD[0..31] <-> AD[0..31]

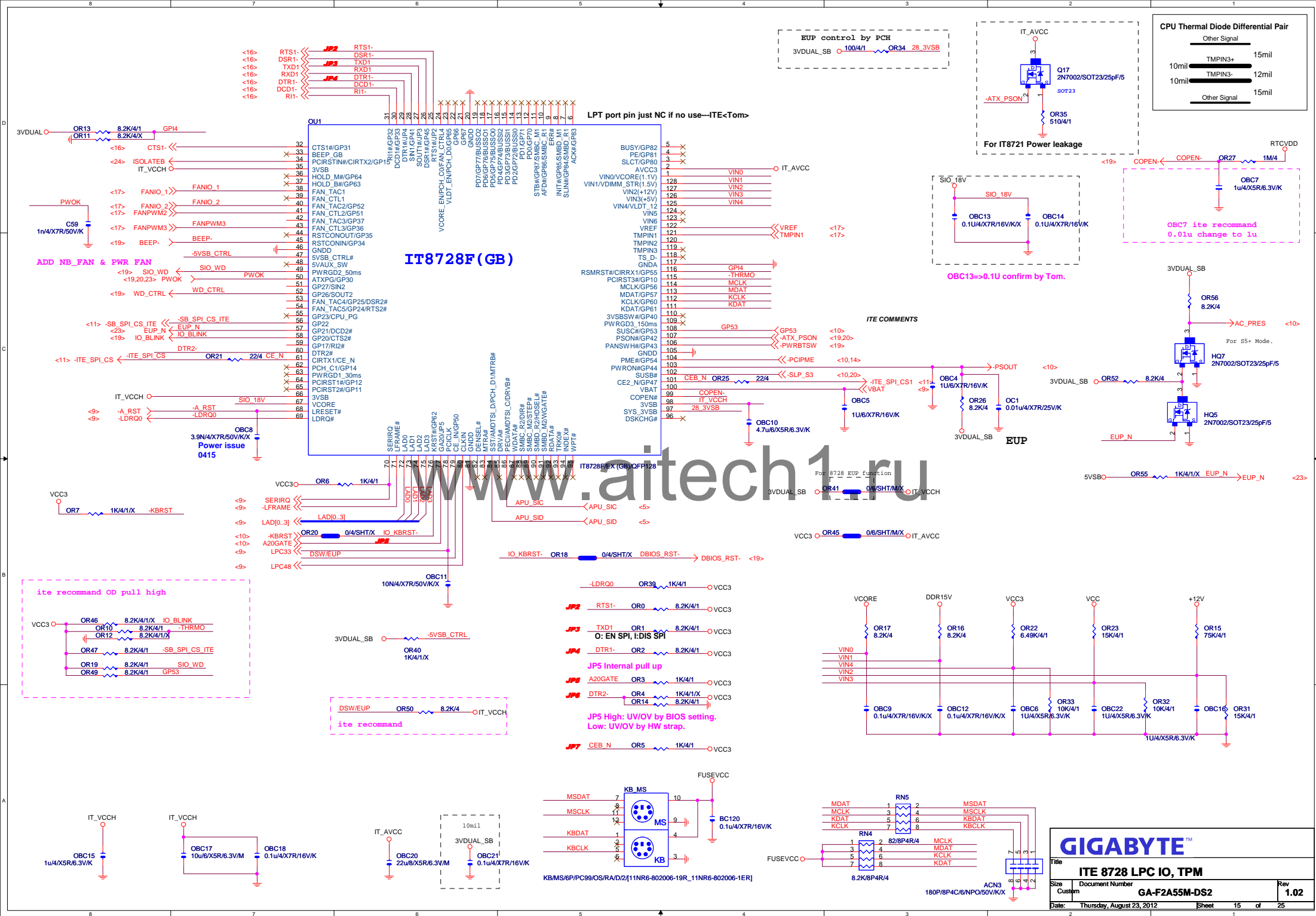


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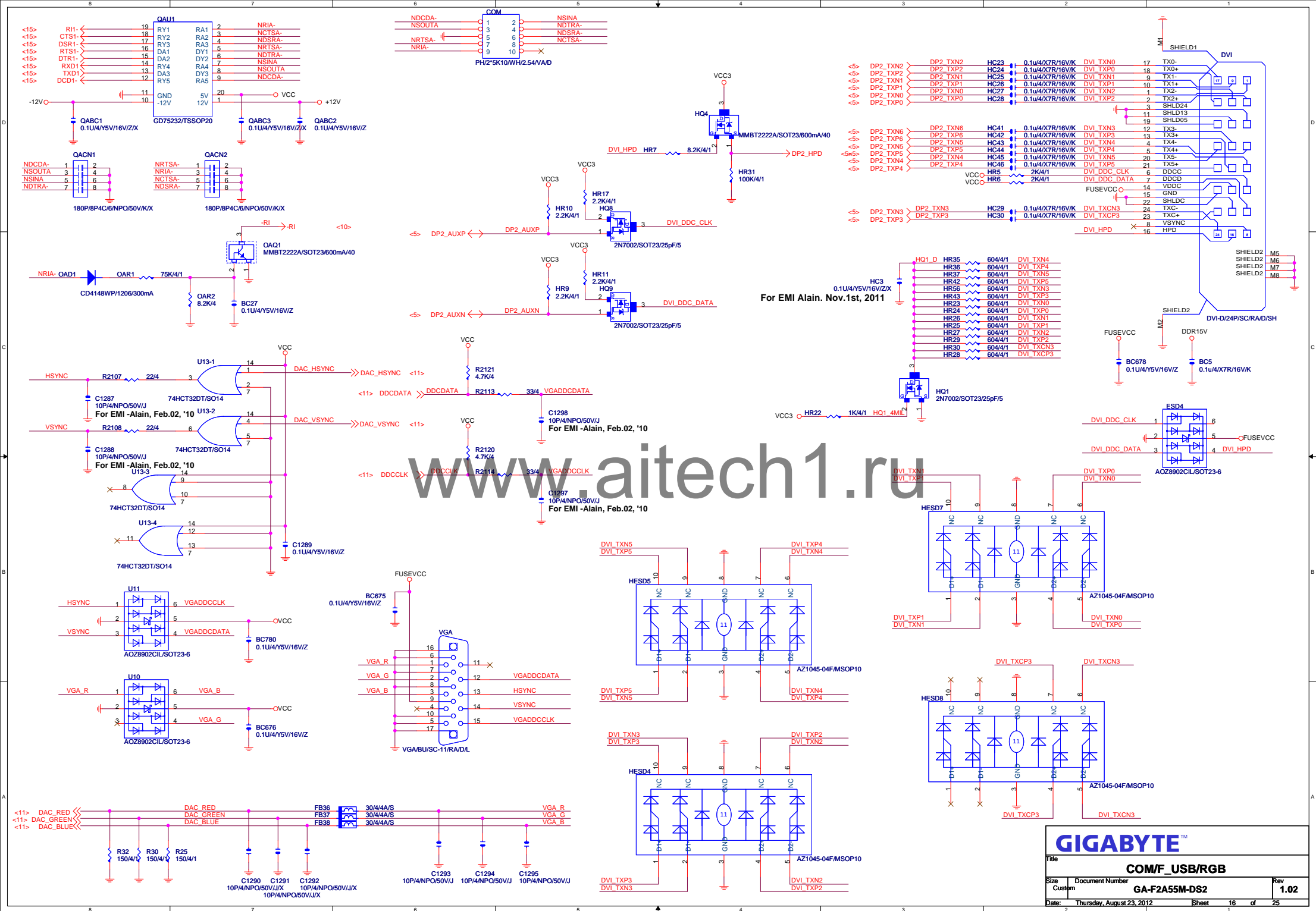


**GIGABYTE**

Title			
PCI SLOT			
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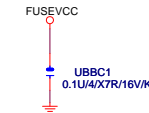
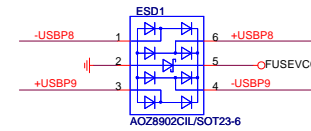
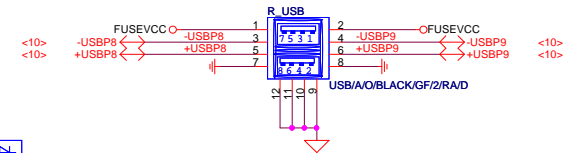
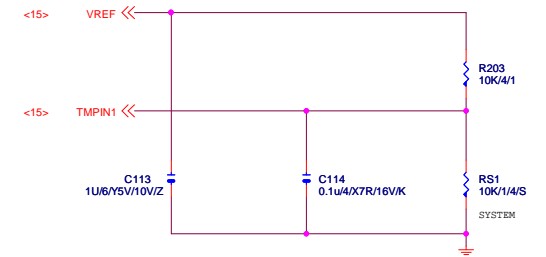




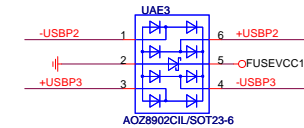
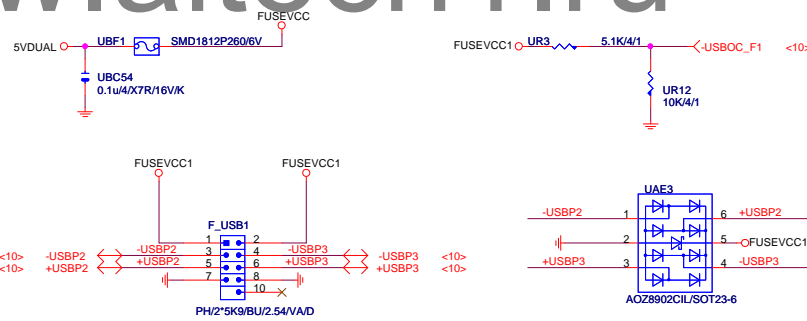




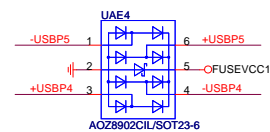
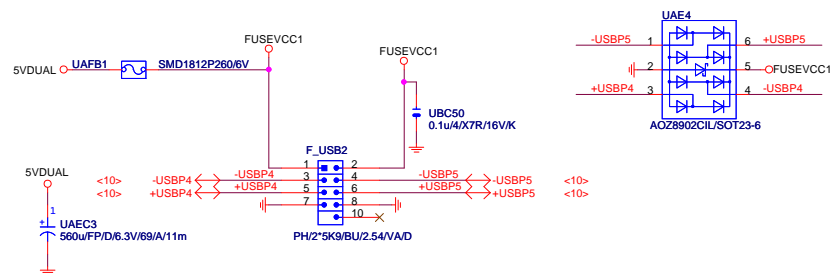
# Hardware Monitor circuits



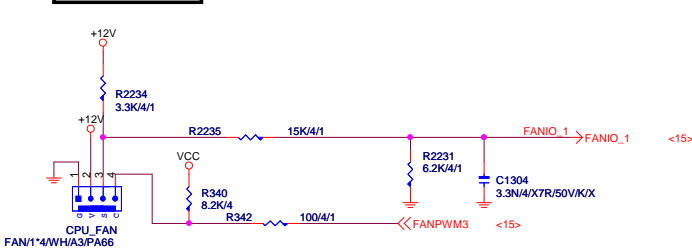
## FRONT SIDE USB1



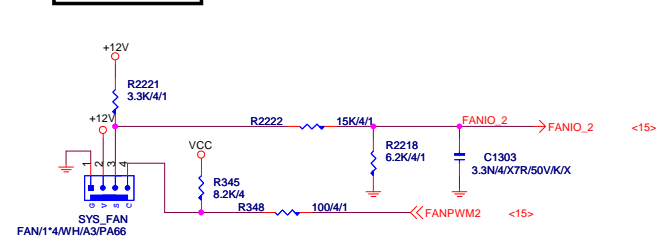
## FRONT SIDE USB2



## CPU FAN

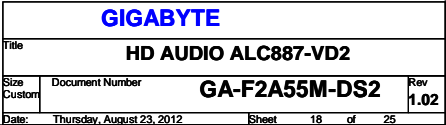


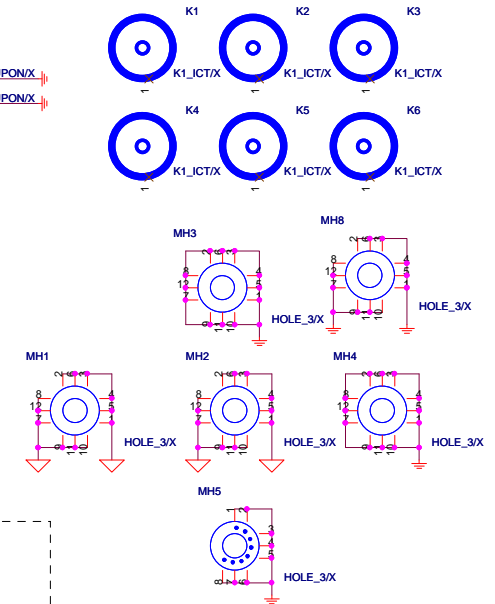
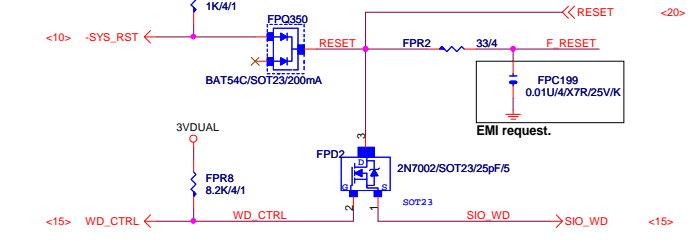
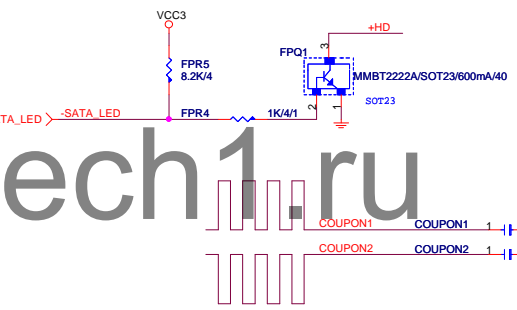
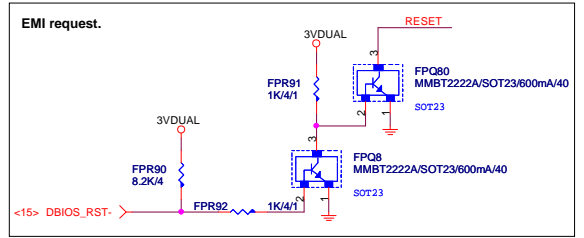
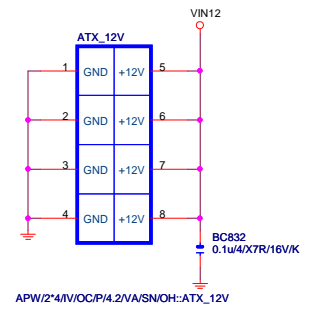
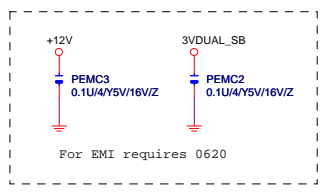
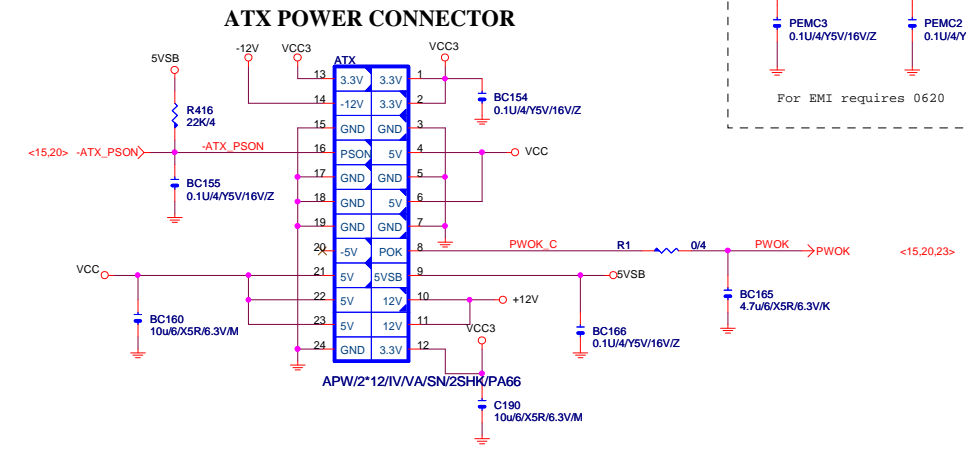
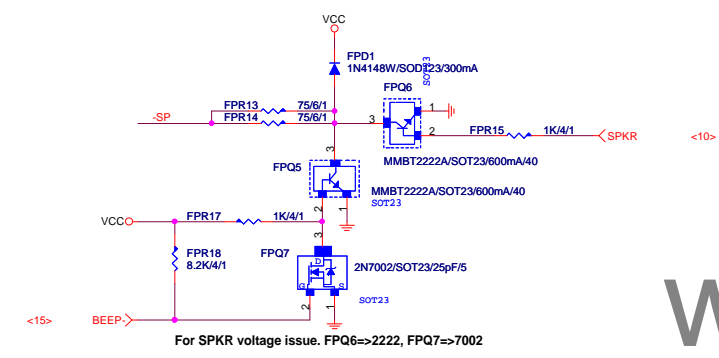
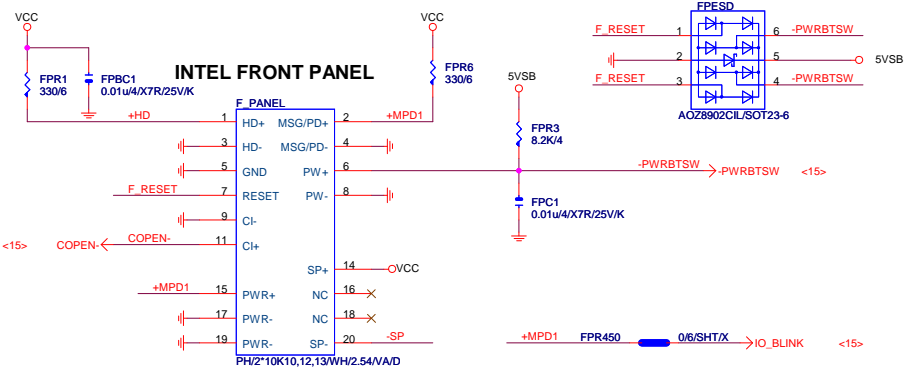
## SYSTEM FAN



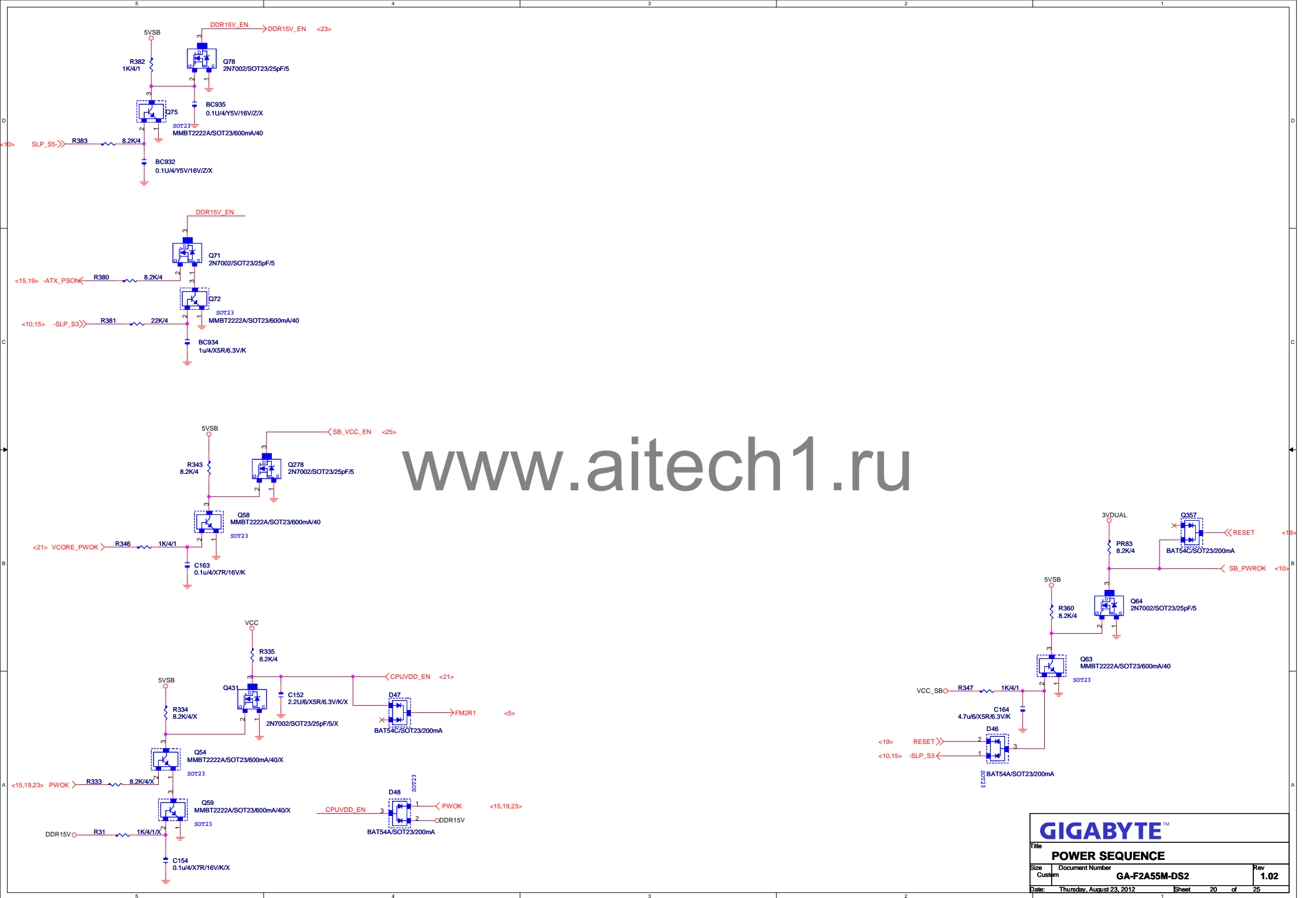
**GIGABYTE**

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FAN , HWMO , R_USB				
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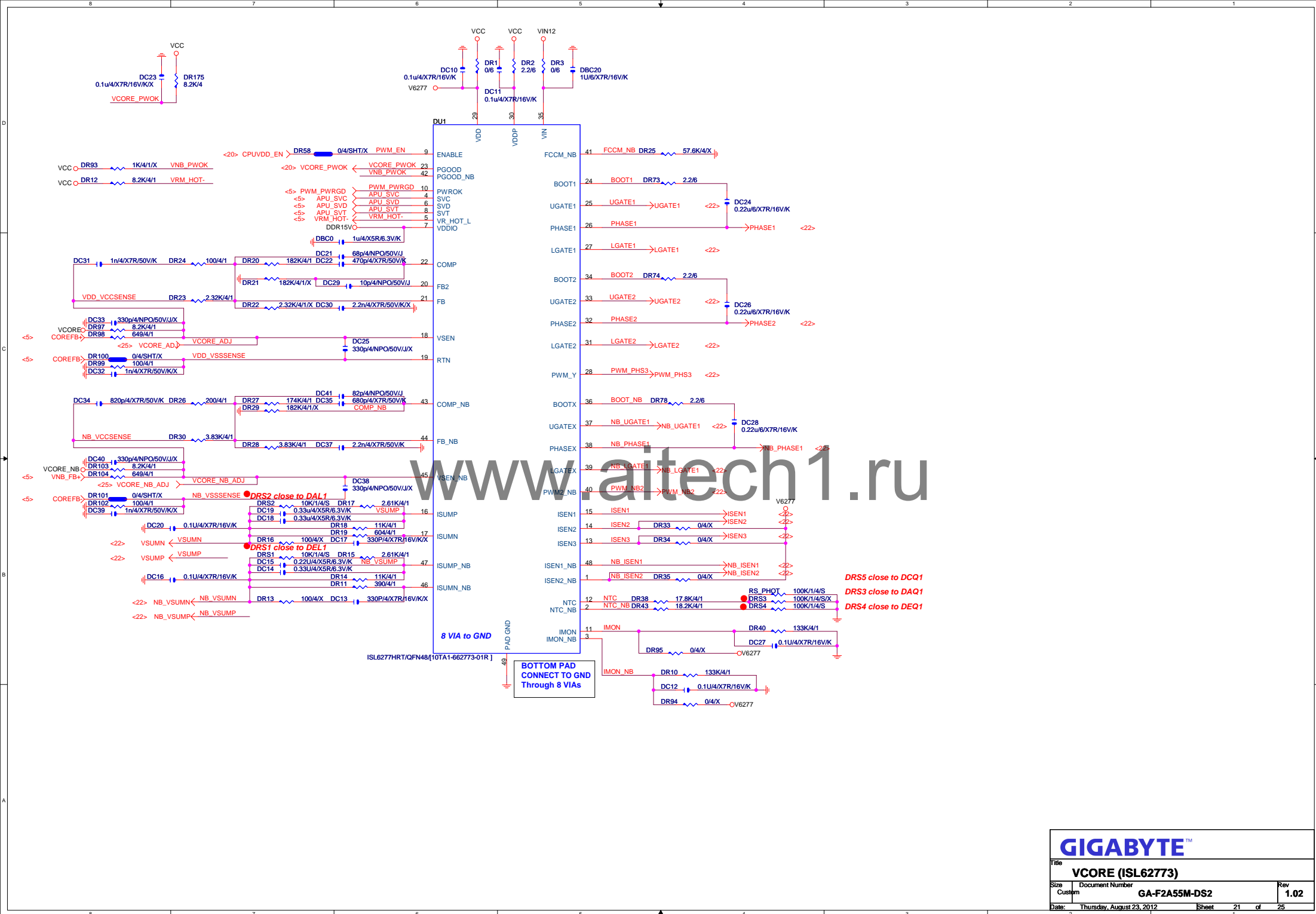


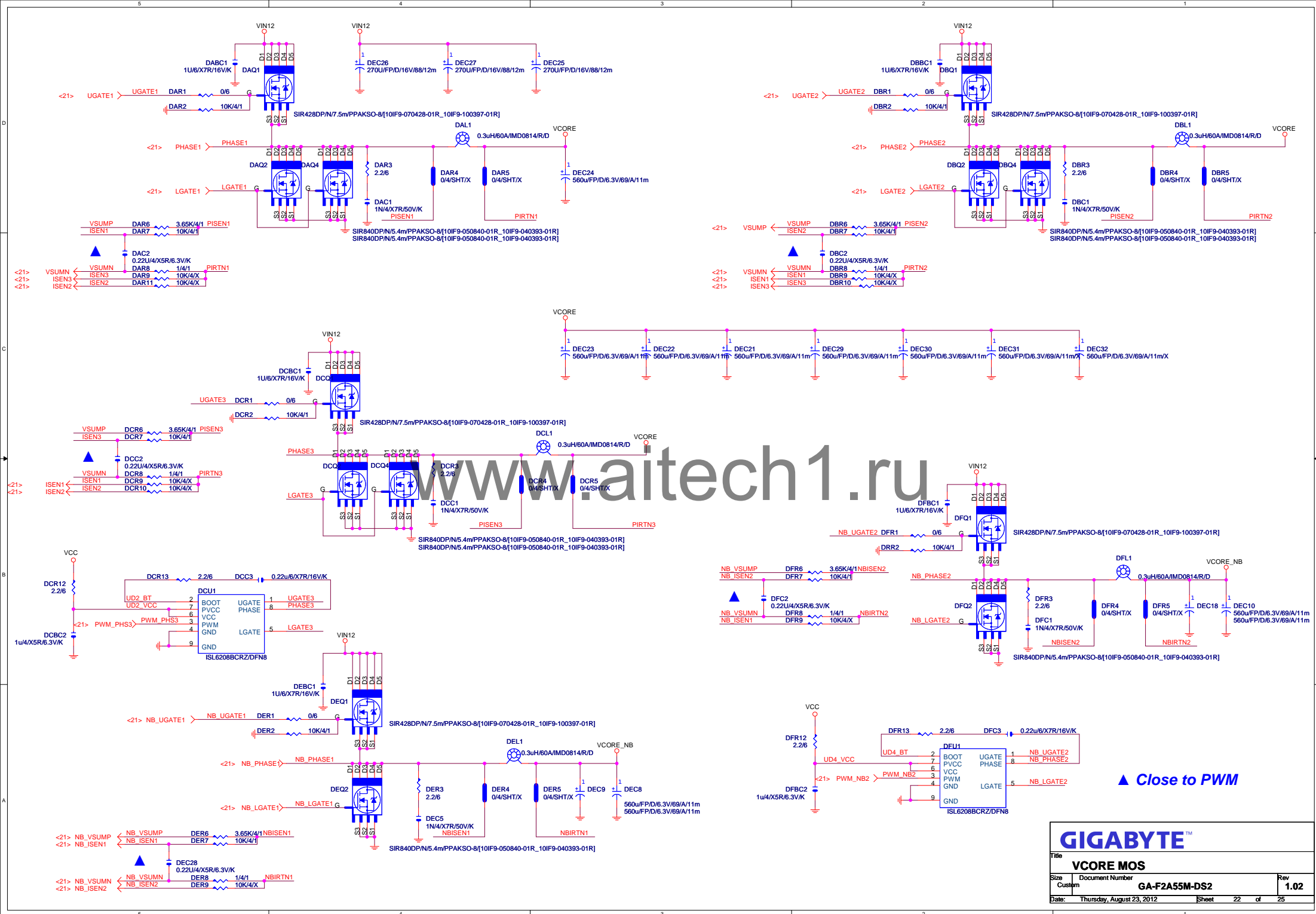


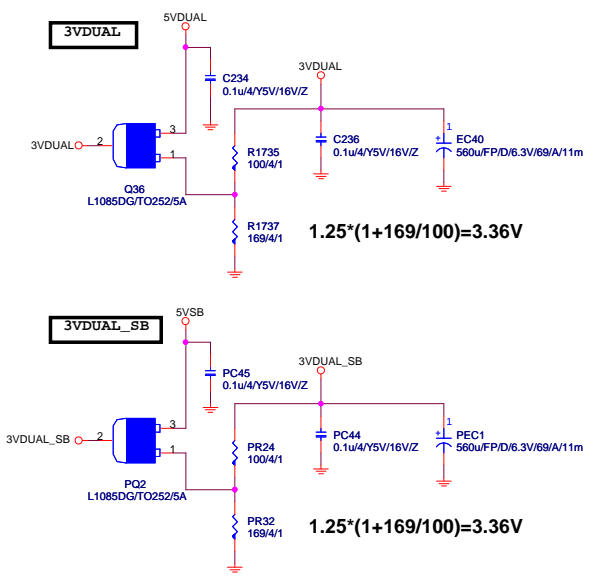
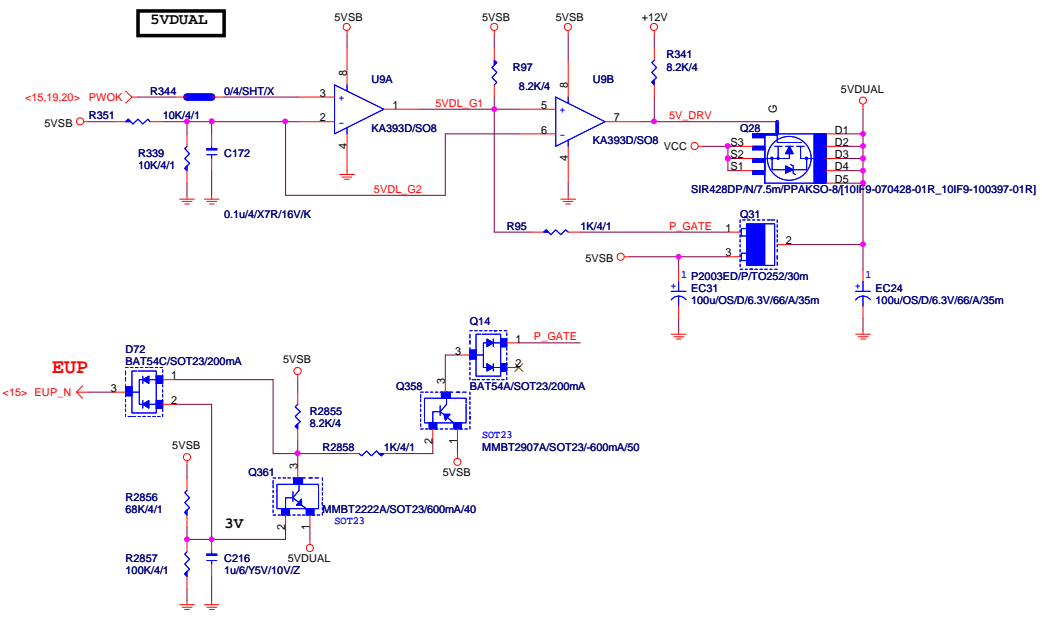
For Seasonic 900W Power supply cant Boot issue



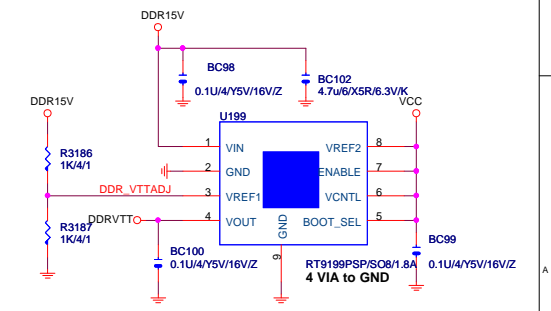
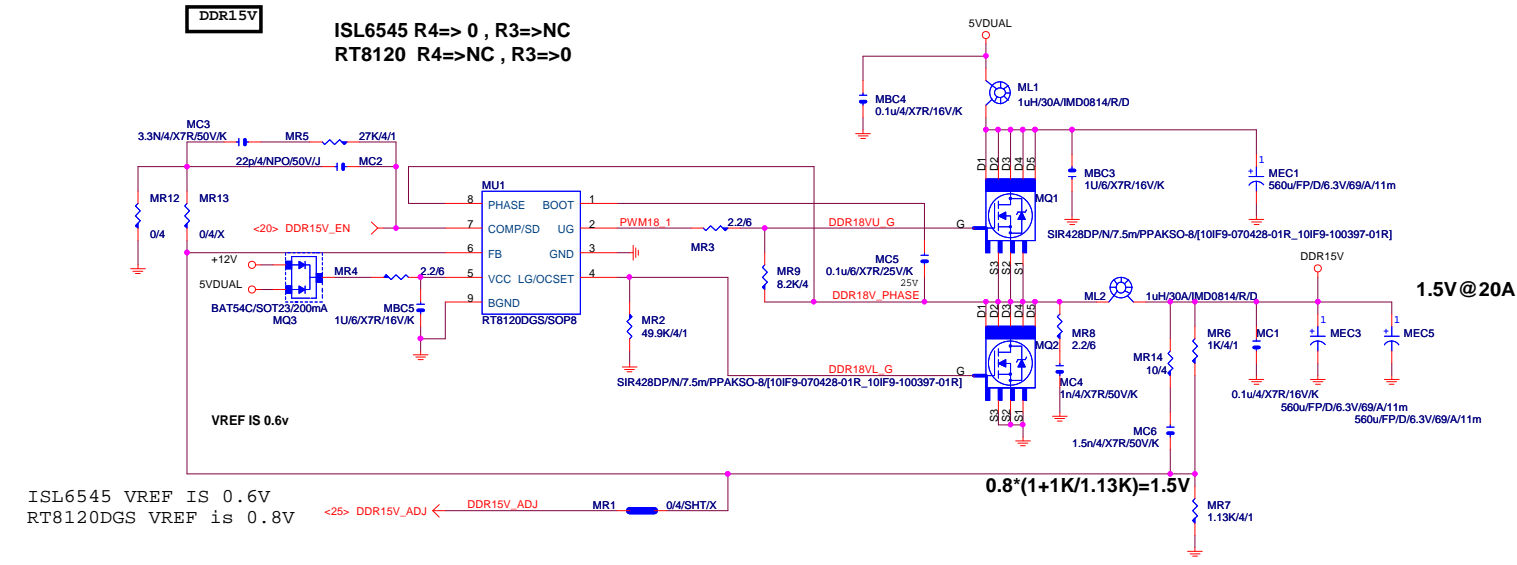
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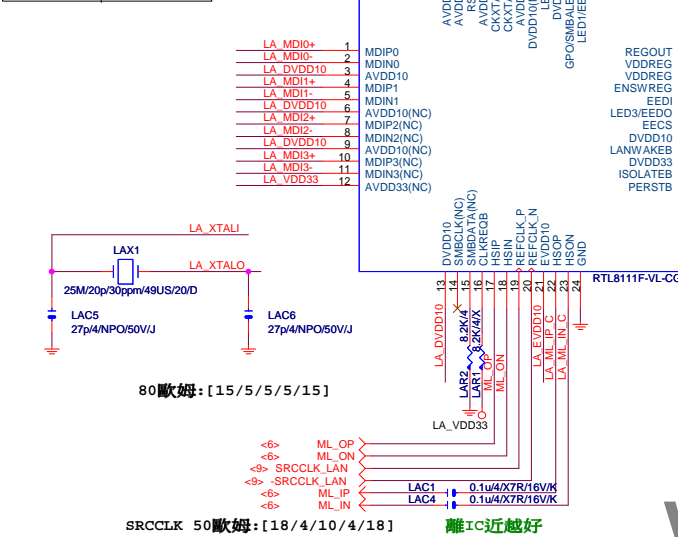


GIGABYTE™			
Title			
DDRII POWER , VCC18 , ErP			
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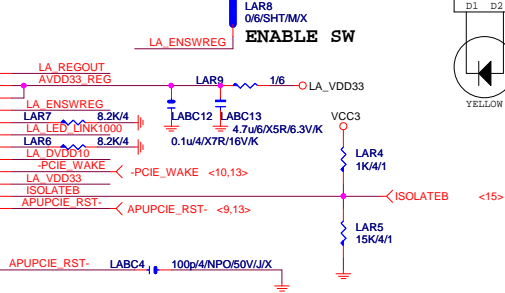
# PCIE-1G LAN

## Power domain chart

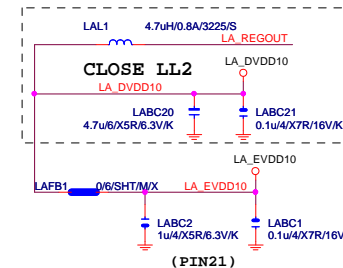
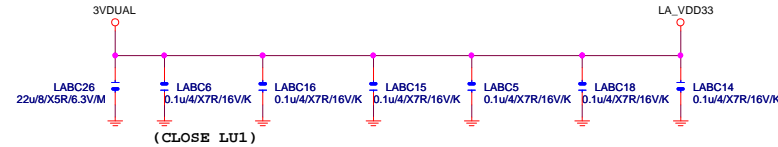
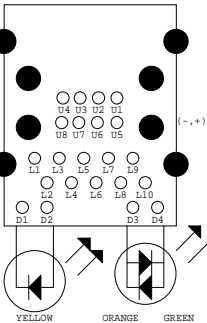
	RTL8111E
AVDD33	3.3V
DVDD33	3.3V
VDDREG	3.3V
DVDD10	1.05V



## FOR DSM MODE (DEEP SLEEP MODE)

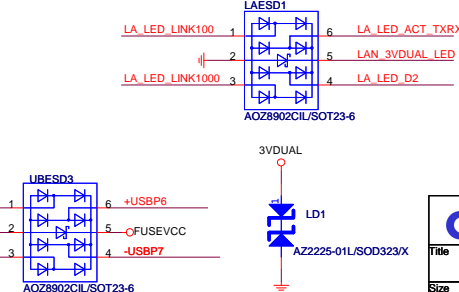
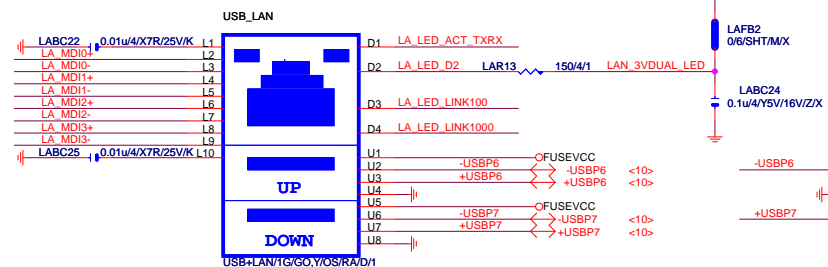
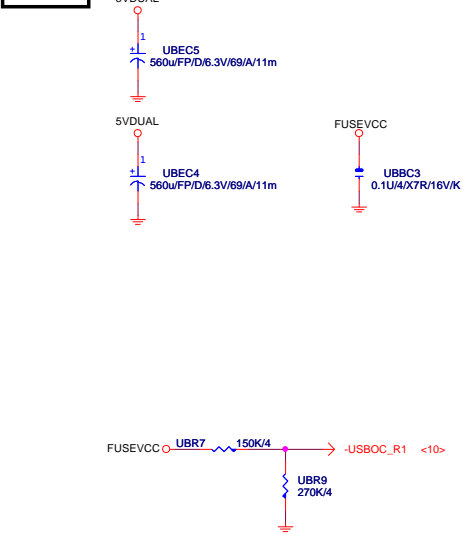


## P35-152-19W9



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# USB LAN



EMI

GND1

06/SHT/M/X

GIGABYTE™

REALTK RTL8111E-VL

Size

Custom

Document Number

GA-F2A55M-DS2

Date

Thursday, August 23, 2012

Rev

1.02

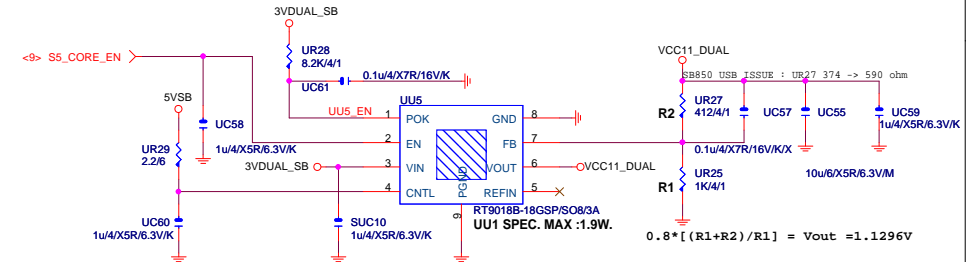
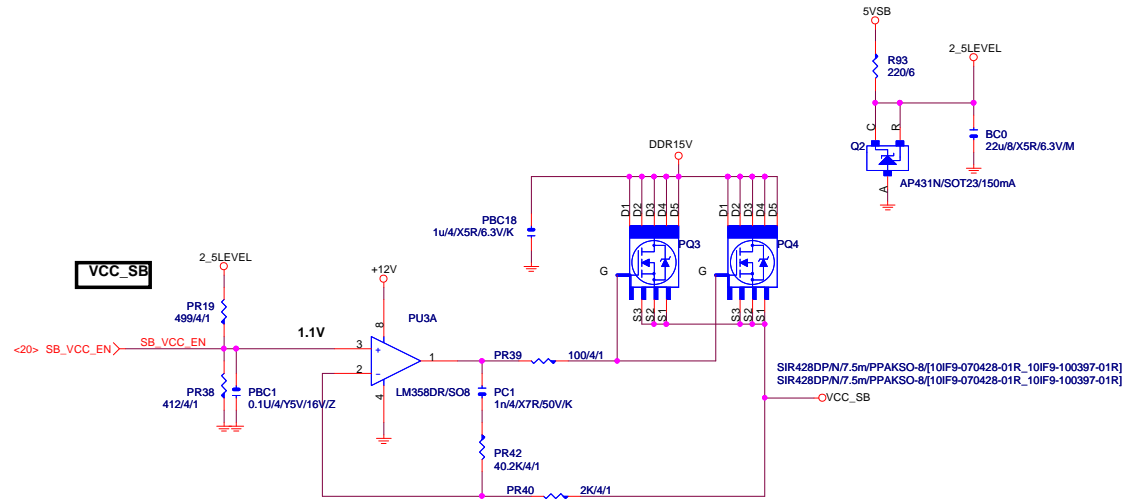
Sheet

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of

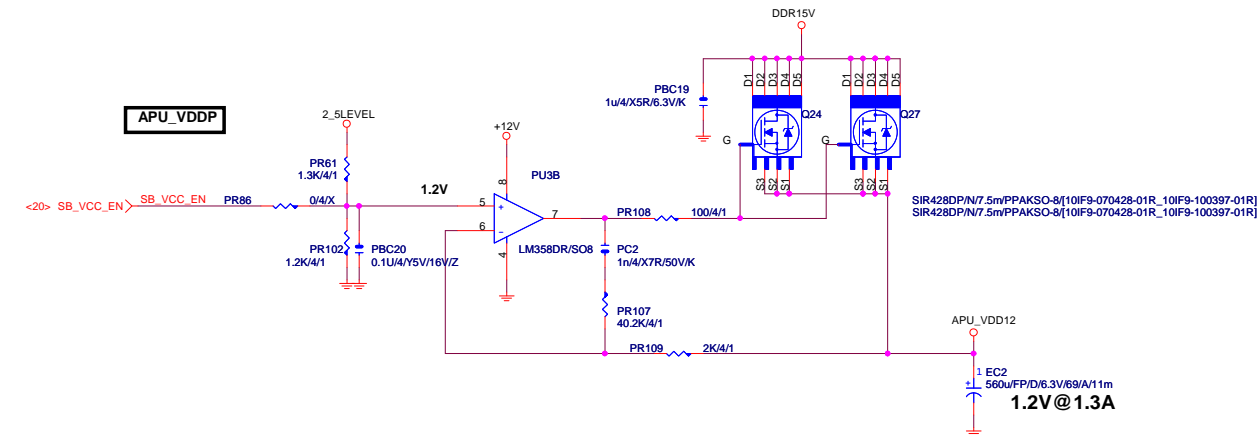
25





1.2V@1.69A

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1.2V@1.3A

