


BIOSTAR GROUP

IG41S-M7S

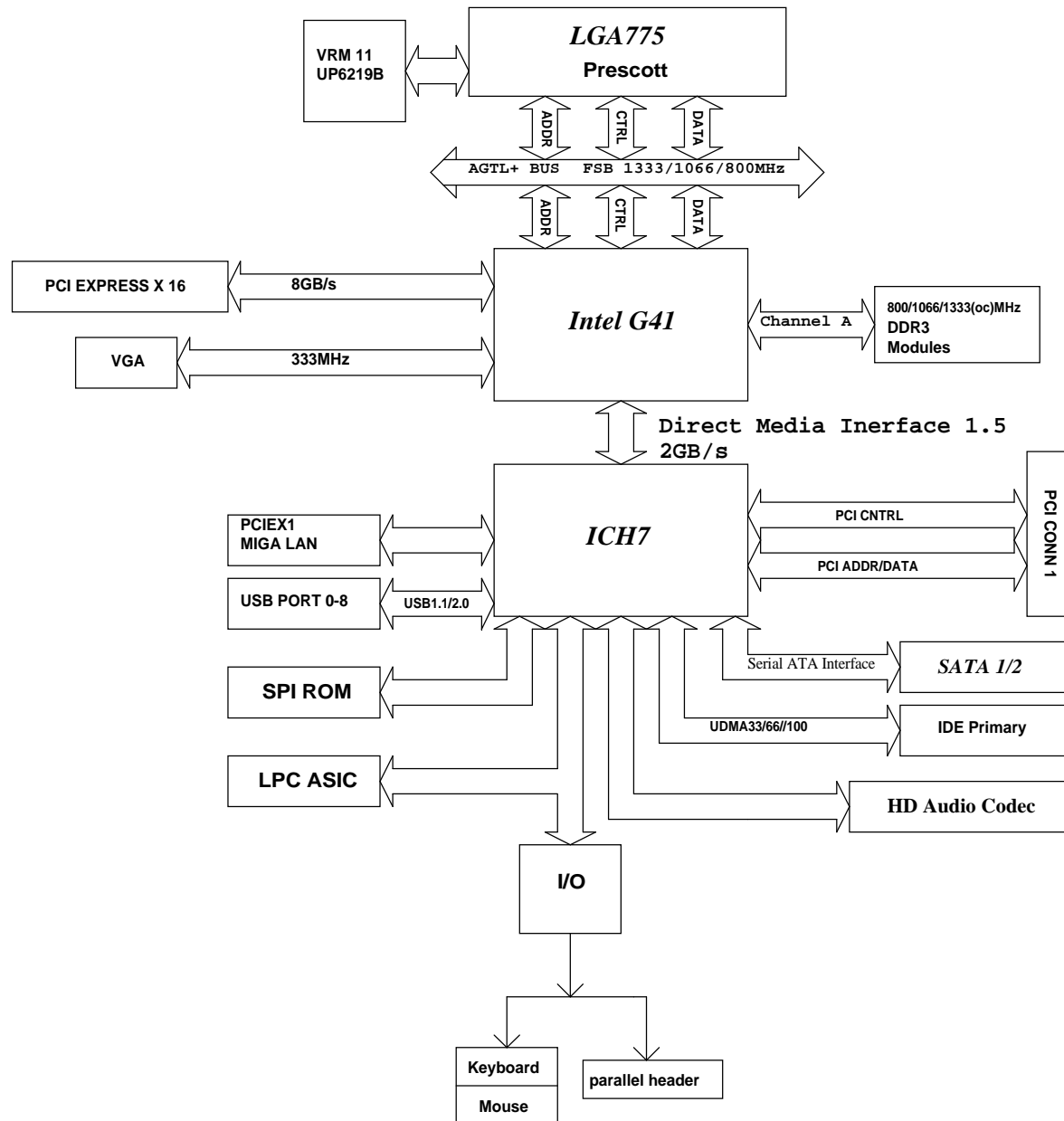
Intel G41 + ICH7


VER:7.0

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BLOCK DIAGRAM



 映泰股份有限公司 BIOS STAR GROUP		
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PCI SLOT	IDE SEL	INT#	GNT#	REQ#	CLOCK
SLOT 1	AD17	A	0	0	PCLK_SLOT0

[illegible]**IG41S-M7S V0.7**

CPU:

Intel Core 2 Duo / Quad / Extreme, Celeron 4xx, Pentium Dual-Core, Celeron Dual-core (FSB1600/1333/1066/800) 95W 3-Phase Power

SYSTEM CHIP:

Intel ICH7 (South Bridge)
Intel EaglelakeG41-A3 GMCH (North Bridge)

ONBOARD CHIP:

SUPERIO: ITE 8728BX
AUDIO CODE: VT1708B 5.1Channel Audio
LAN CHIP: Realtek Atheros AR8158
CLOCK GEN:RTM876-665
DDR/CHIP PWM: UP6109
DDR VTT: FP6137E

MEMORY SPEC:

DDR3 1333(OC)/1066/800
MAX 4G DUAL CHANNEL

CPU PWM:

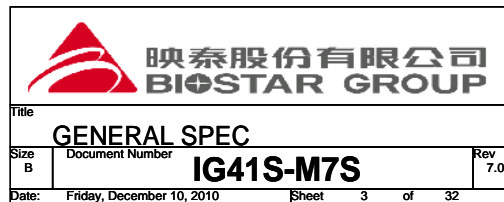
PWM: UP6219B 2PHASE UP1 LOW2 95W

PCB SIZE

uATX, 170.0mmx225.0mm, 4-Layer


EXPANSION SLOTS:

- 1x PCIEX16 SLOT;
- 1x PCI SLOT;
- 1x IDE connector;
- 2x SATA connectors;
- 1x CPU Fan header;
- 1x System Fan Header;
- 1 x Front Panel Header;
- 1 x Front Panel Audio Header;
- 8 x USB 2.0/1.1 Headers



V7.0

1. R57=2K, R59=1K
2. AR16=2.7 0805
3. OVCPU_CORE0 change GPI023 BSEL2 control change to GPI022
4. add FPR6=4.7K FOR IO_LED2
5. CT18=820UF-S 2.5V 6.3X8 8X12
6. PC40=47NF

		
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Change List		
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The VR's ICC-current numbers in this document reflect the CRB design (full sku-set). Customers should refer to the EDS to calculate their VR's ICC-current spec based on their supported sku

CPU Core VR (VRD 11.1)
VCCP
70A 1.15 - 1.50V
60A VR_TDC
4ph Switching

CPU
65nm/45nm Intel® Core™2 Duo & Intel® Core™2 Quad
Core 130 W
V_FSB_VTT 4.6 A

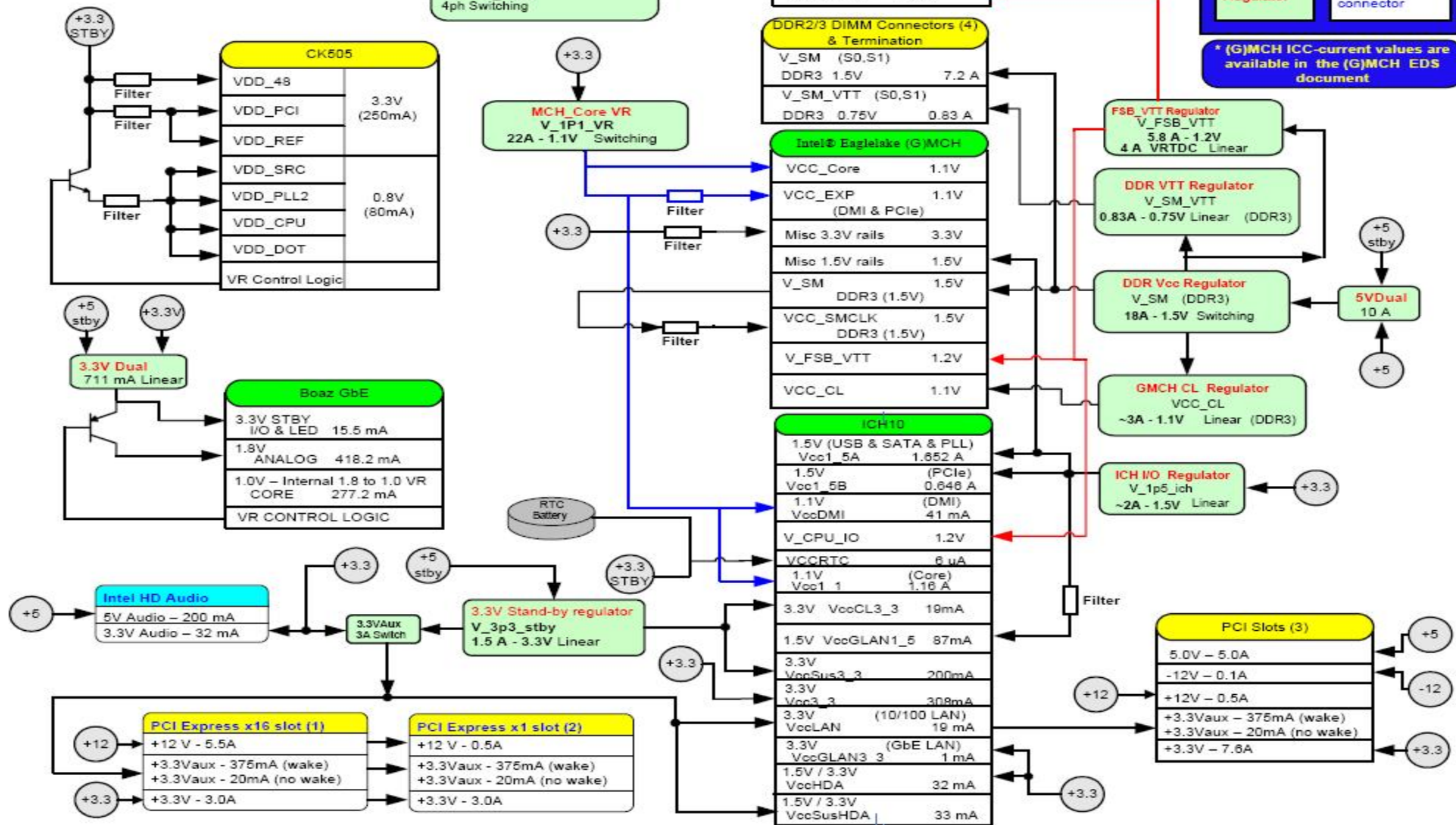
Legend

● Silver box rail

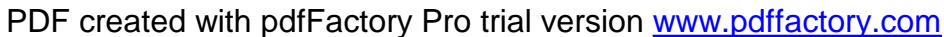
Regulator

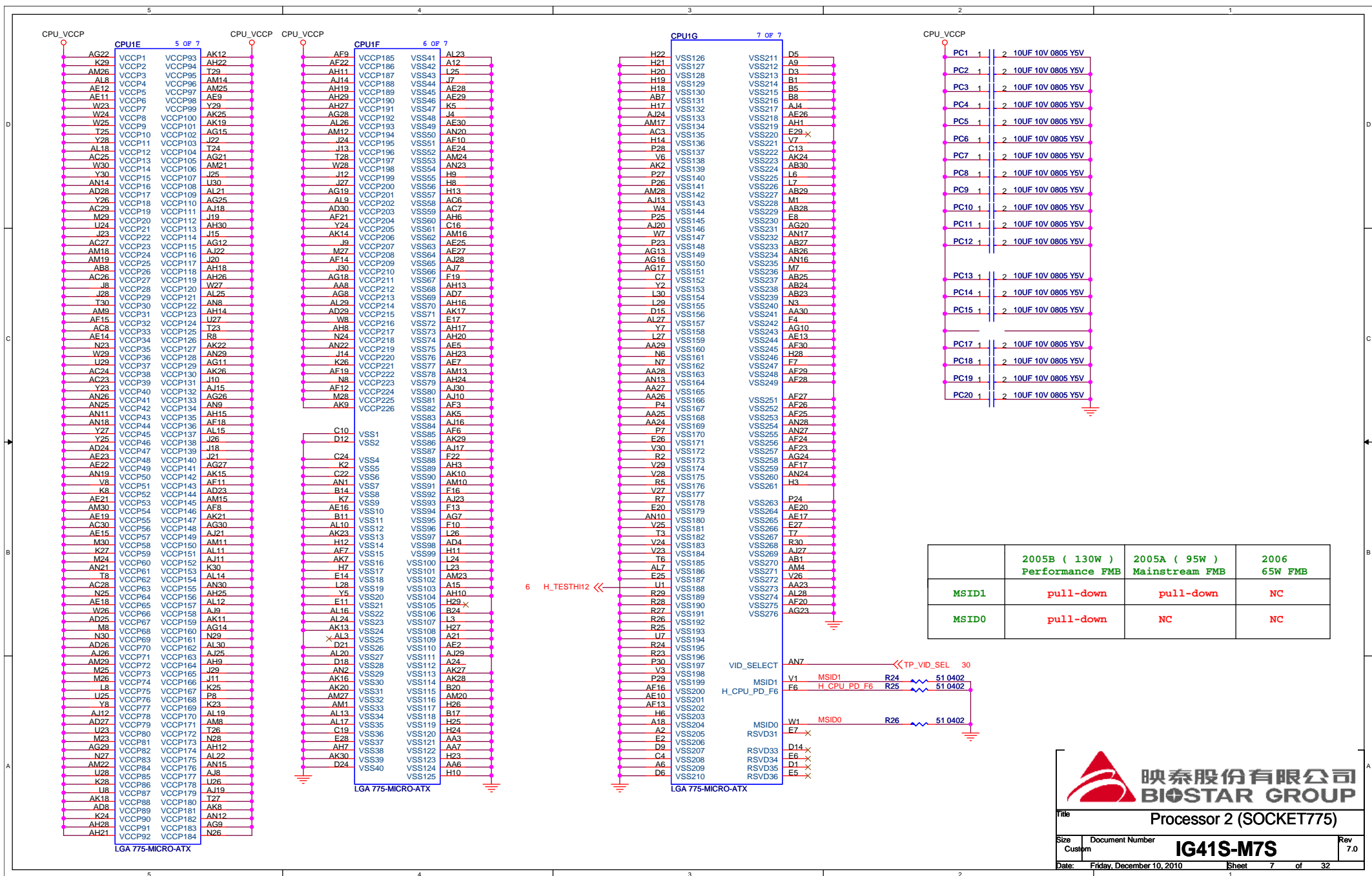
Component/
connector

* (G)MCH ICC-current values are available in the (G)MCH EDS document



Title		Power Delivery
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NB1C

DDR_A_MA_0
DDR_A_MA_1
DDR_A_MA_2
DDR_A_MA_3
DDR_A_MA_4
DDR_A_MA_5
DDR_A_MA_6
DDR_A_MA_7
DDR_A_MA_8
DDR_A_MA_9
DDR_A_MA_10
DDR_A_MA_11
DDR_A_MA_12
DDR_A_MA_13
DDR_A_MA_14

DDR_A_WEB
DDR_A_CASB
DDR_A_RASB
DDR_A_BS_0
DDR_A_BS_1
DDR_A_BS_2

DDR_A_CSB_0
DDR_A_CSB_1
DDR_A_CSB_2
DDR_A_CSB_3

DDR_A_CKE_0
DDR_A_CKE_1
DDR_A_CKE_2
DDR_A_CKE_3

DDR_A_ODT_0
DDR_A_ODT_1
DDR_A_ODT_2
DDR_A_ODT_3

DDR_A_DM_3

DDR_A_DM_4

DDR_A_DM_5

DDR_A_DM_6

DDR_A_DM_7

DDR_A_DM_8

DDR_A_DM_9

DDR_A_DM_10

DDR_A_DM_11

DDR_A_DM_12

DDR_A_DM_13

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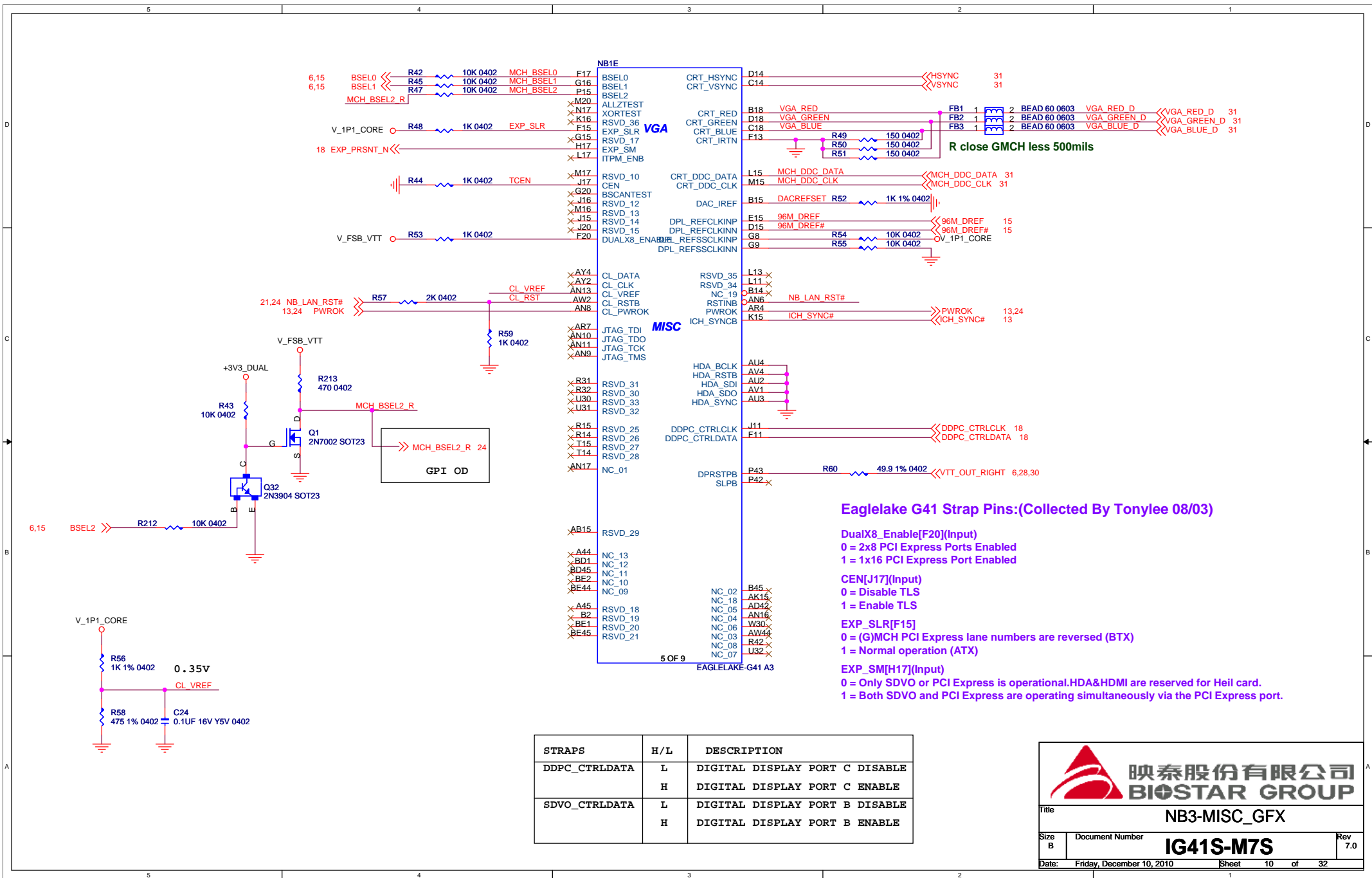
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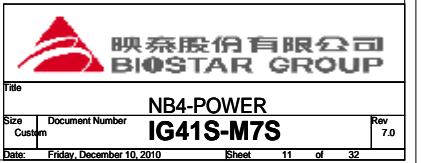
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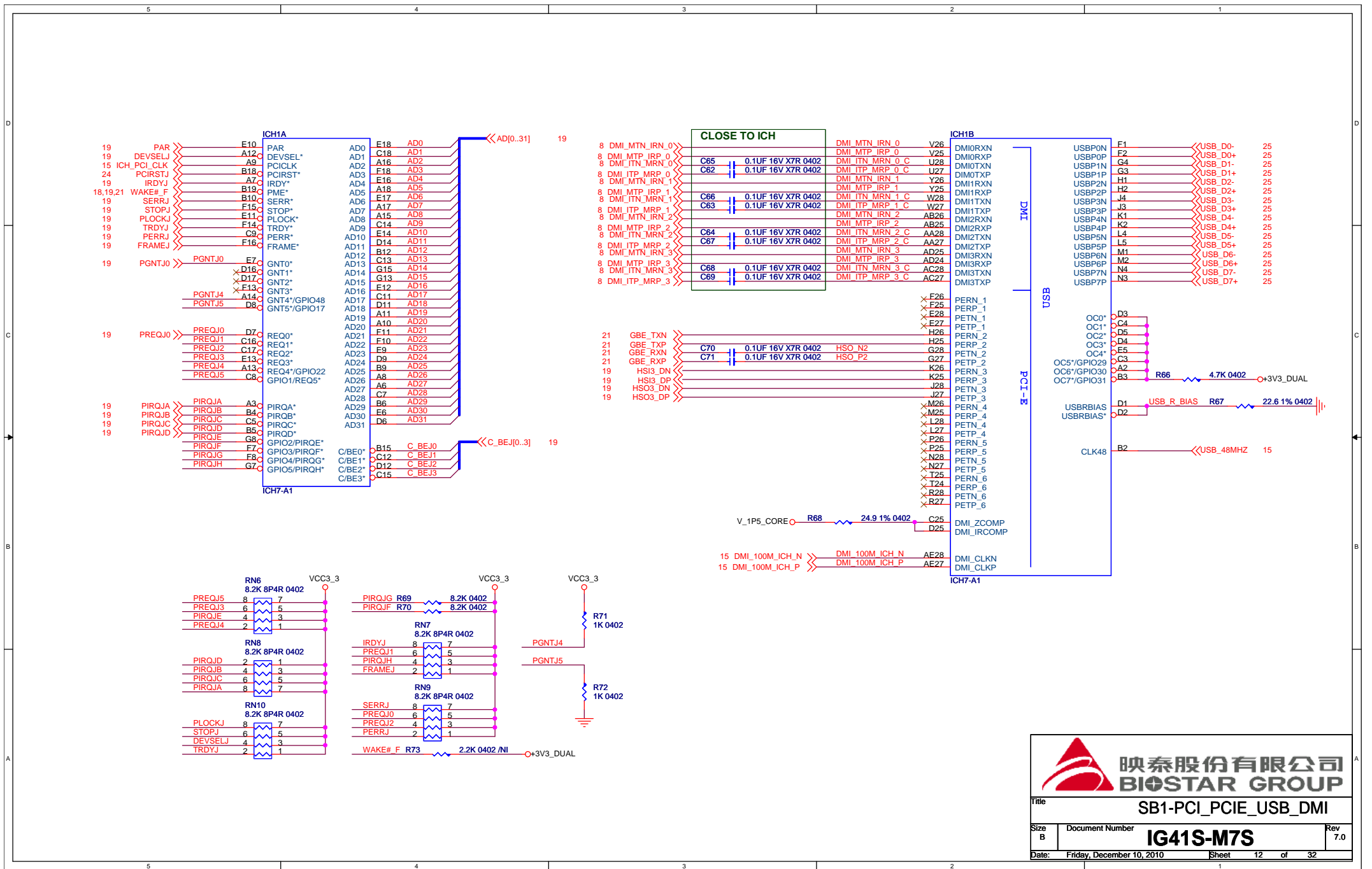
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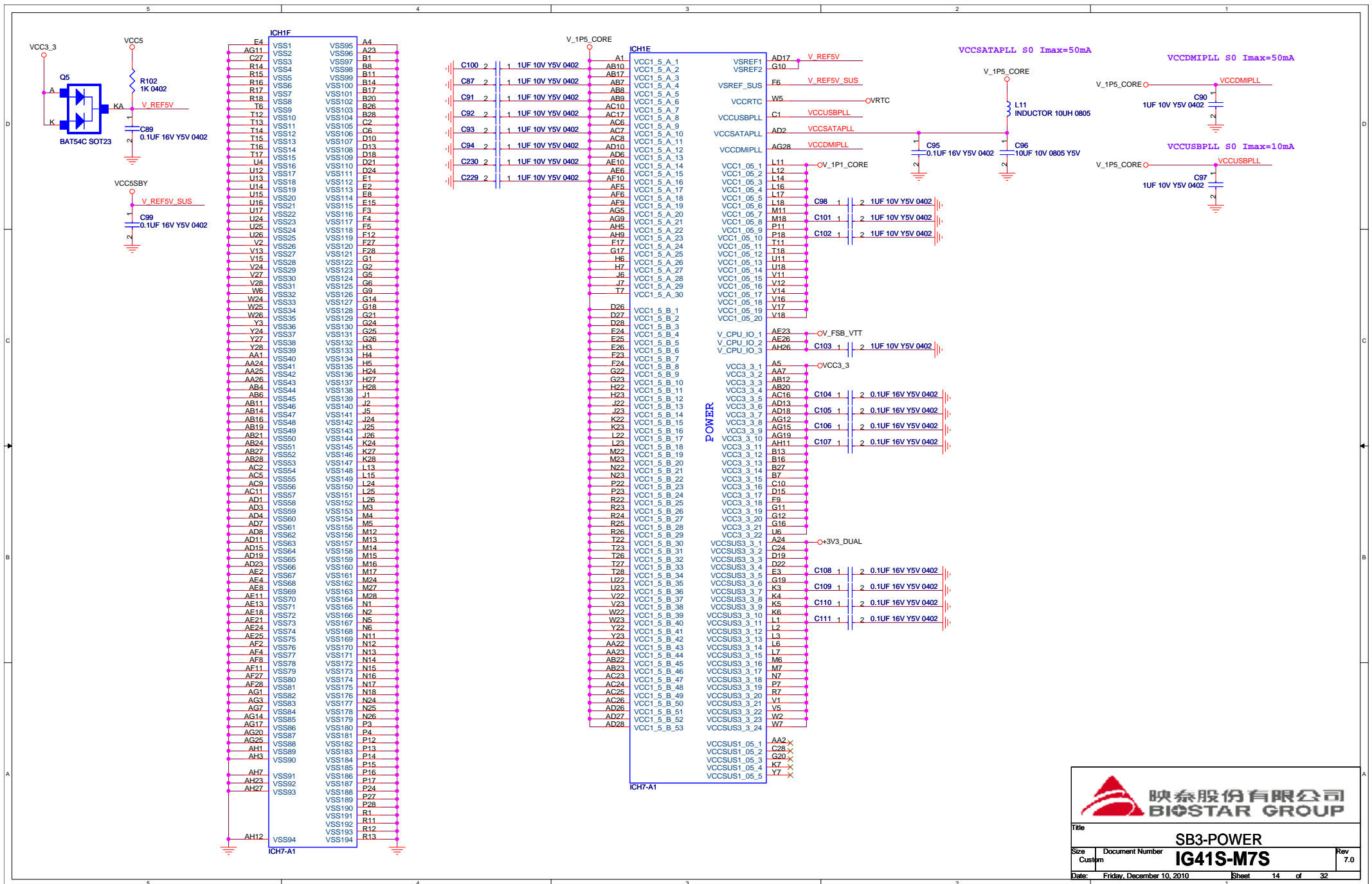
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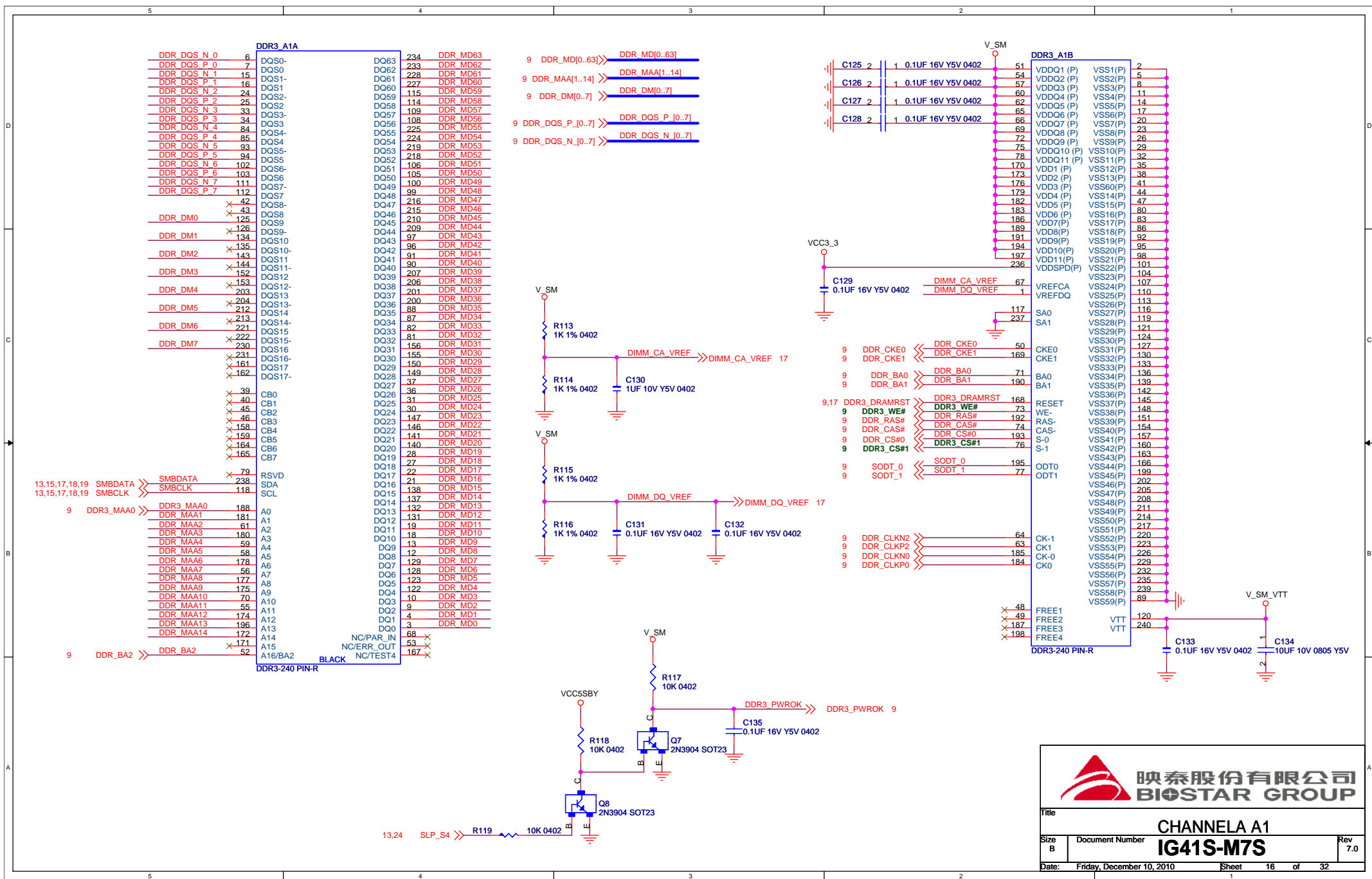


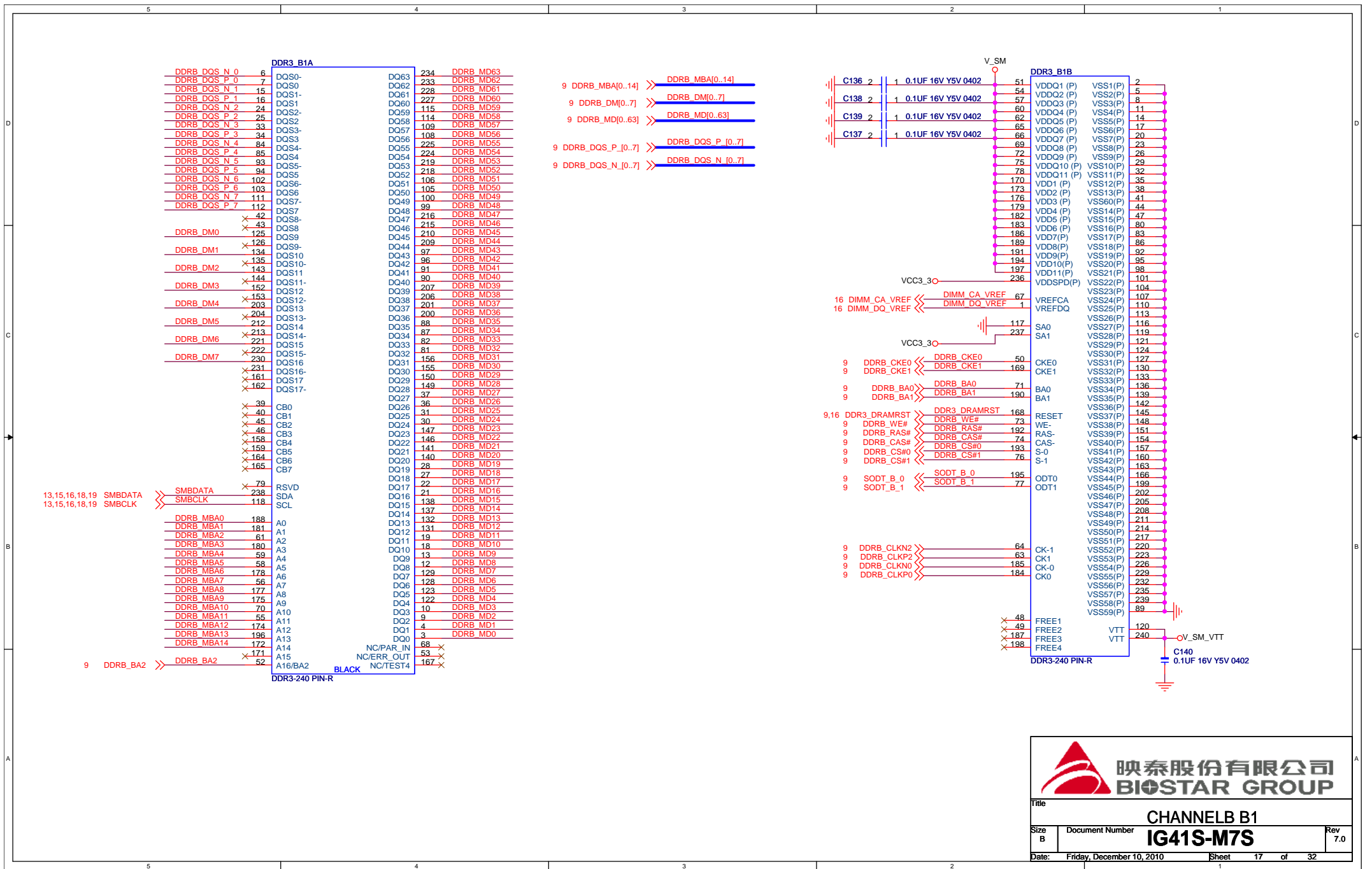


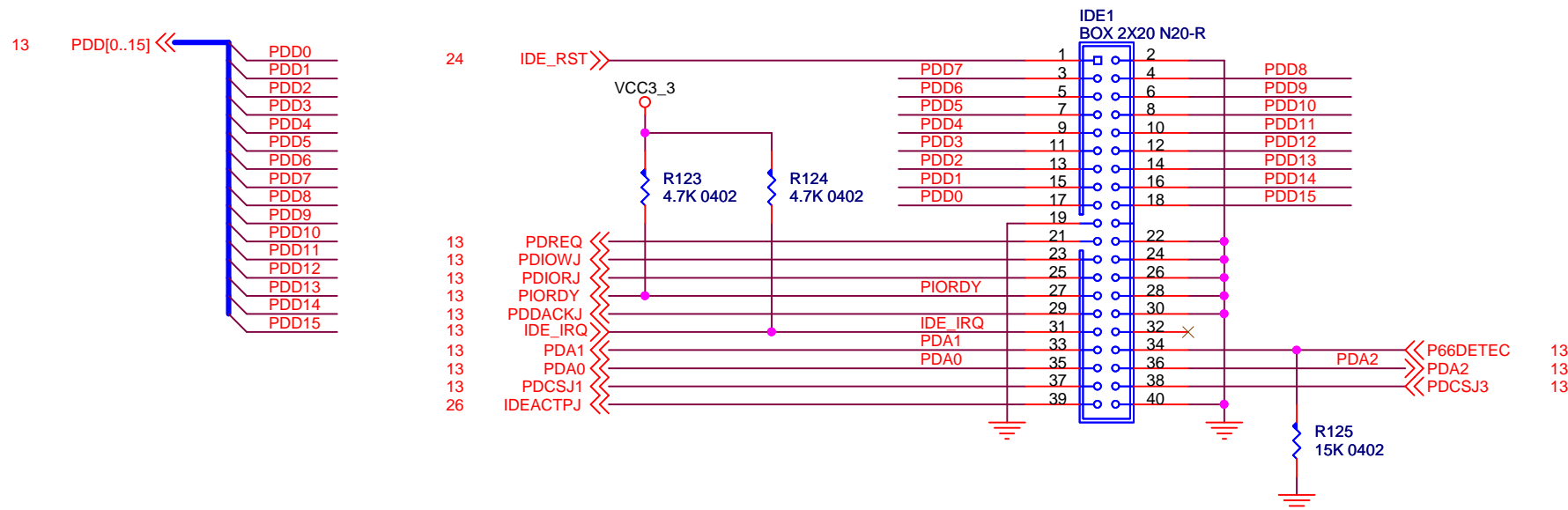





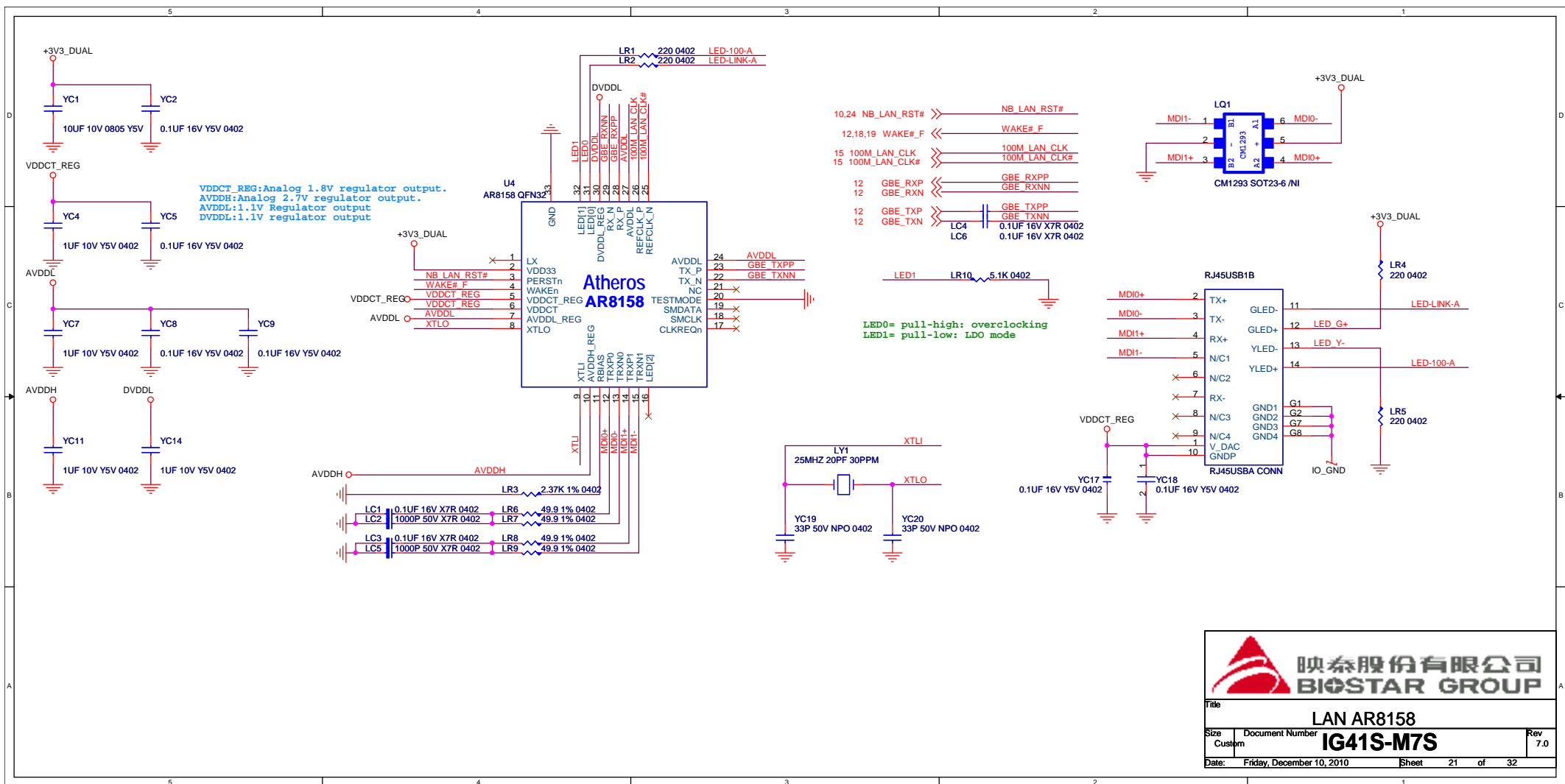
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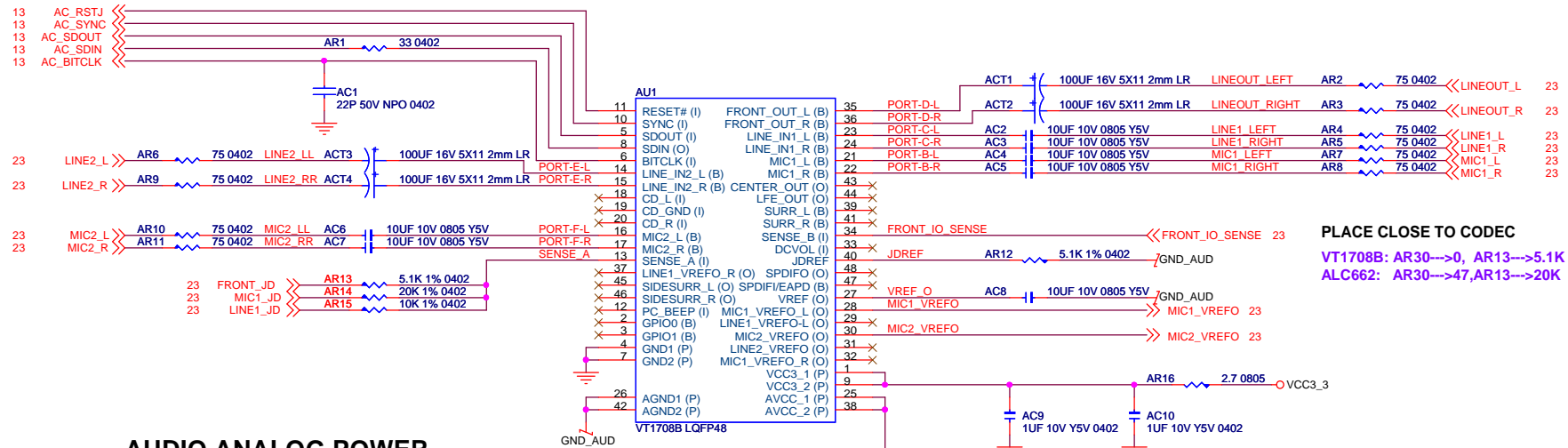




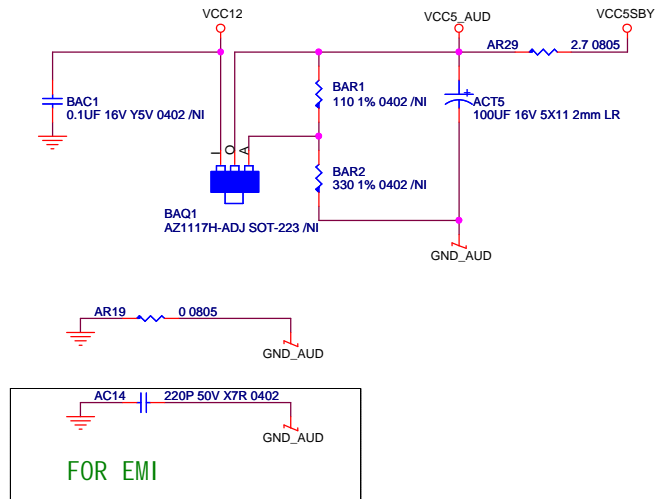
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Size A	Document Number		Rev 7.0
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Title			LAN AR8158		
Size			Document Number		
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AUDIO ANALOG POWER



PLACE CLOSE TO CODEC

VT1708B: AR30---->0, AR13---->5.1K
ALC662: AR30---->47, AR13---->20K

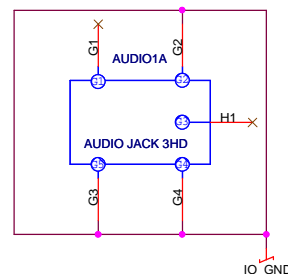
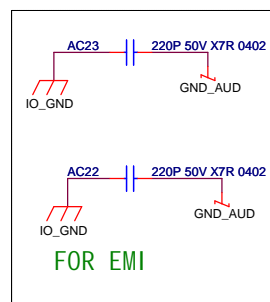
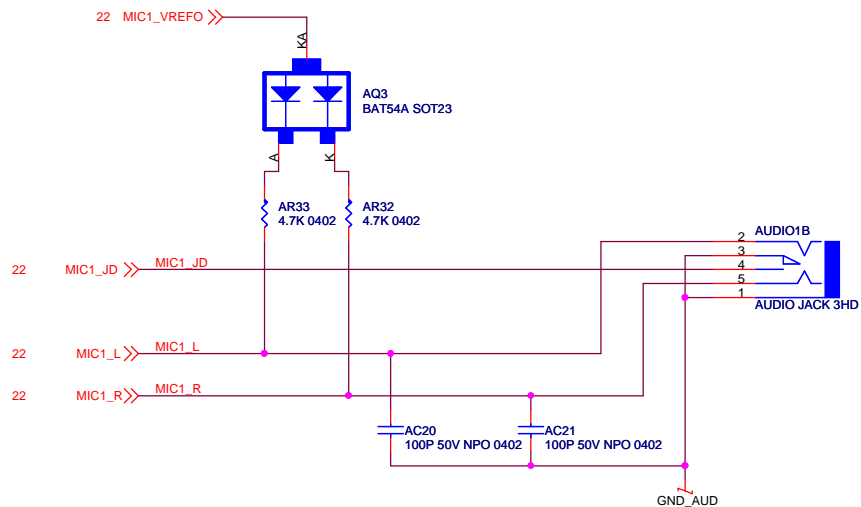
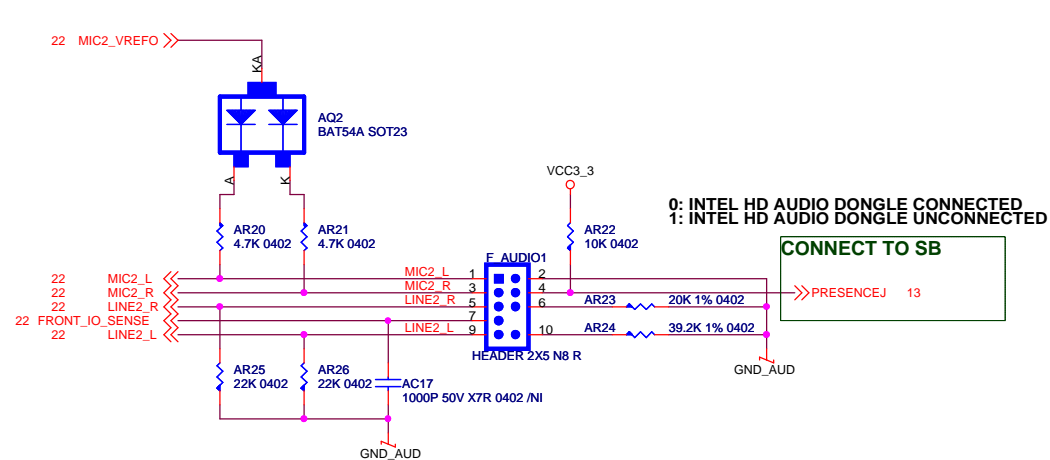
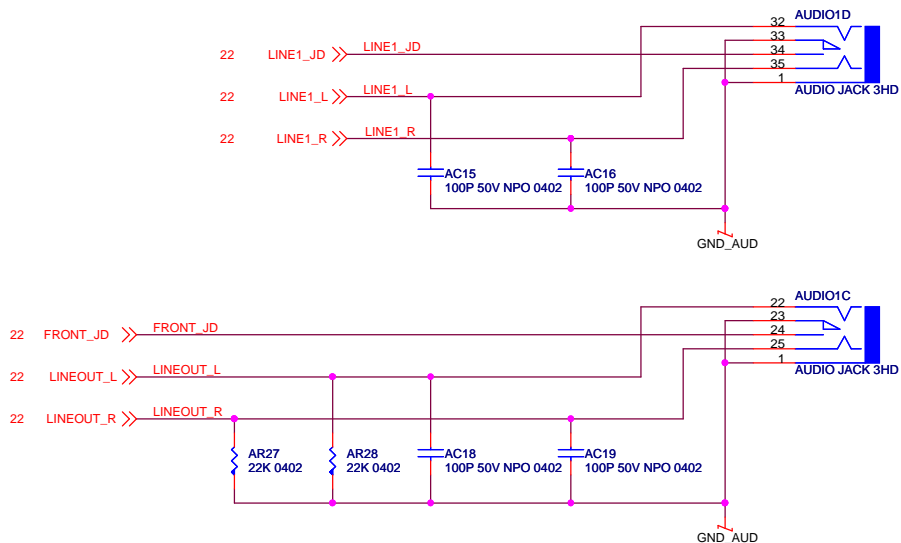
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Title: **AUDIO CODEC VT1708B**

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Rear Panel Onboard Analog I/O

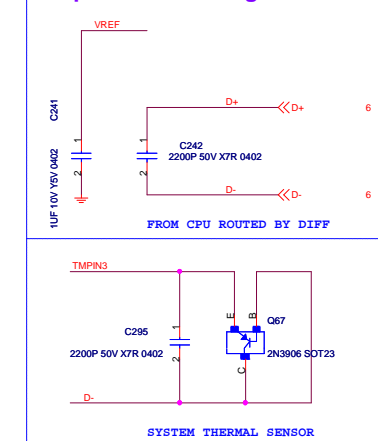
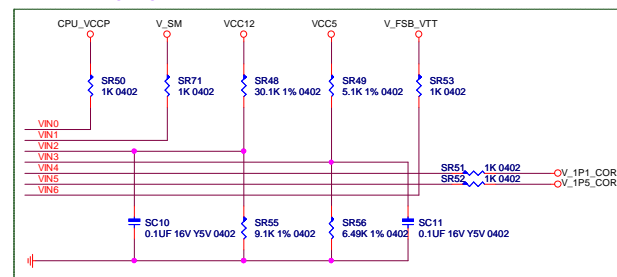
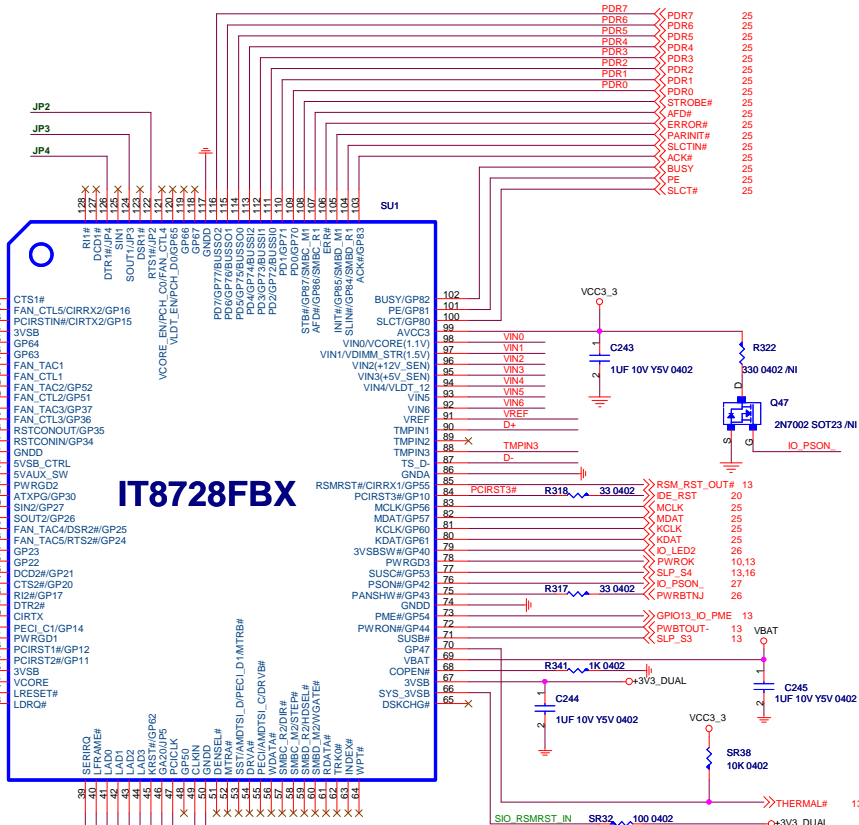


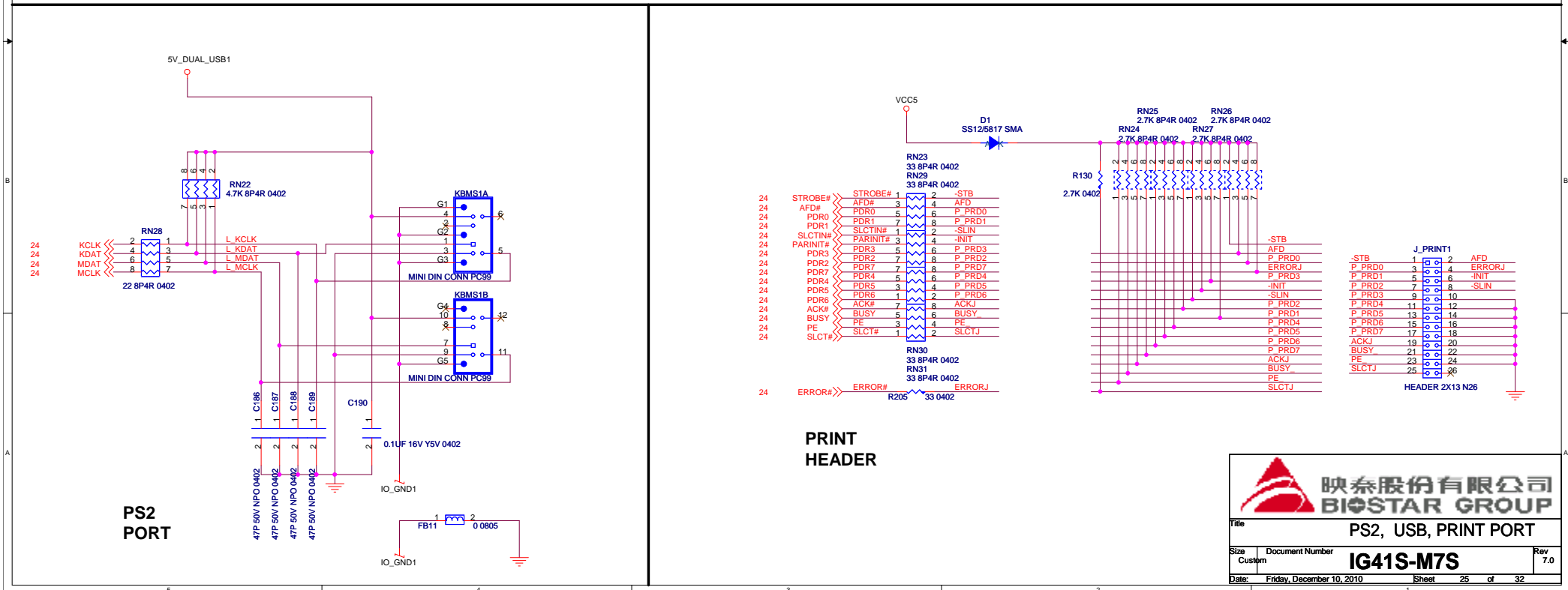
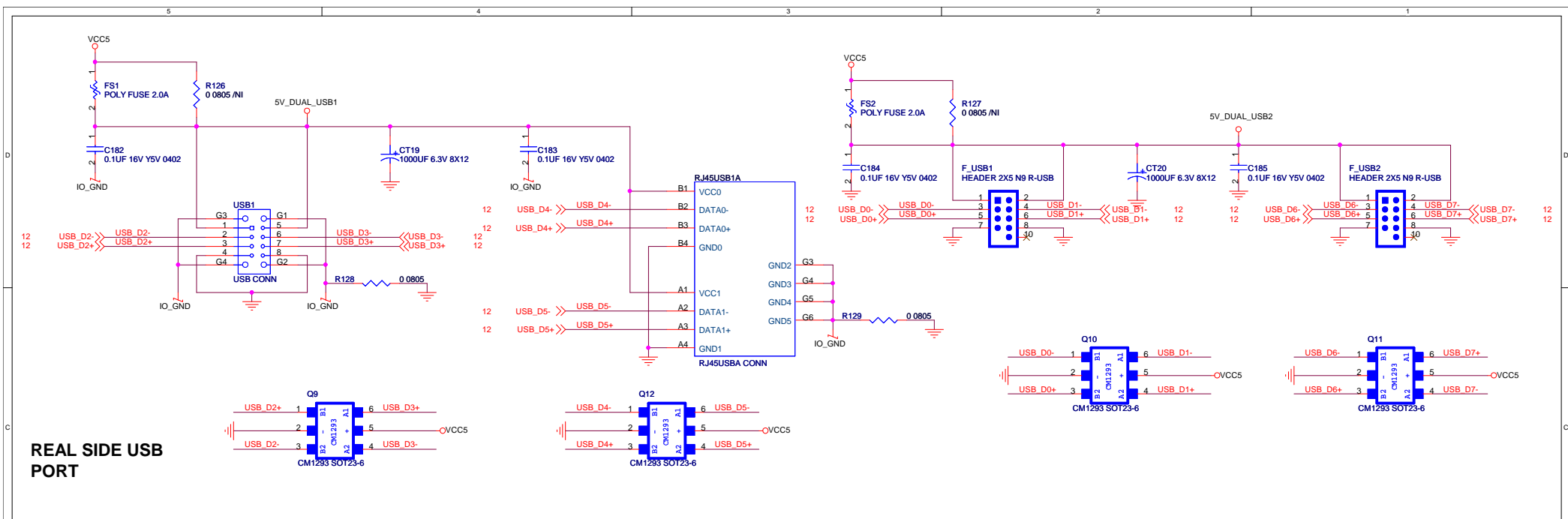
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Title: **AUDIO CONNECTOR**

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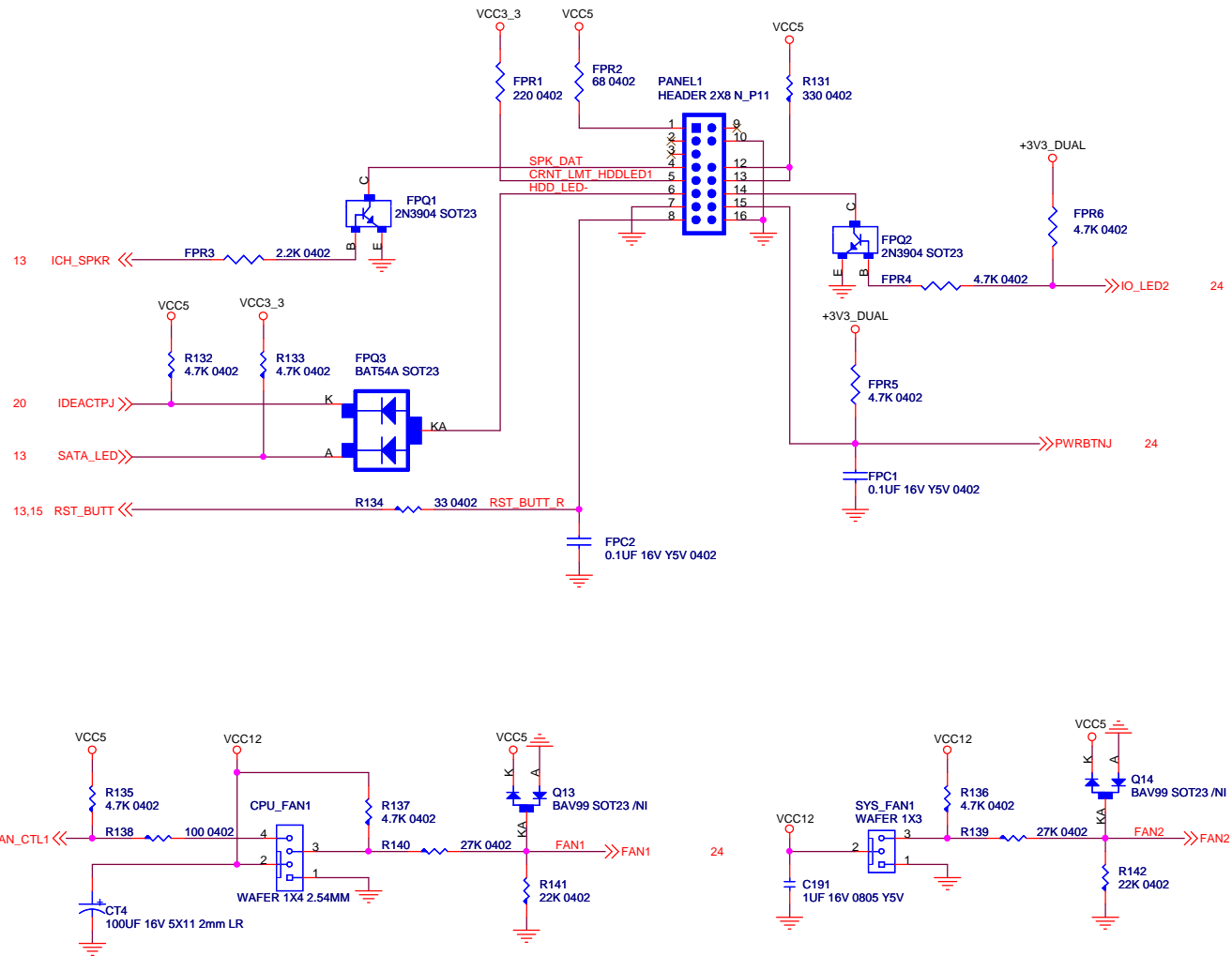



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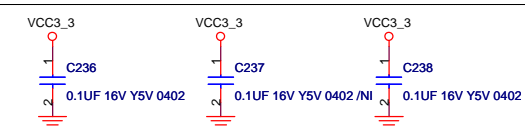
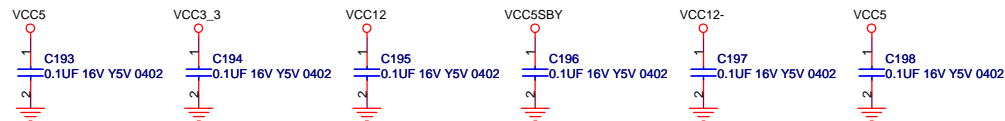
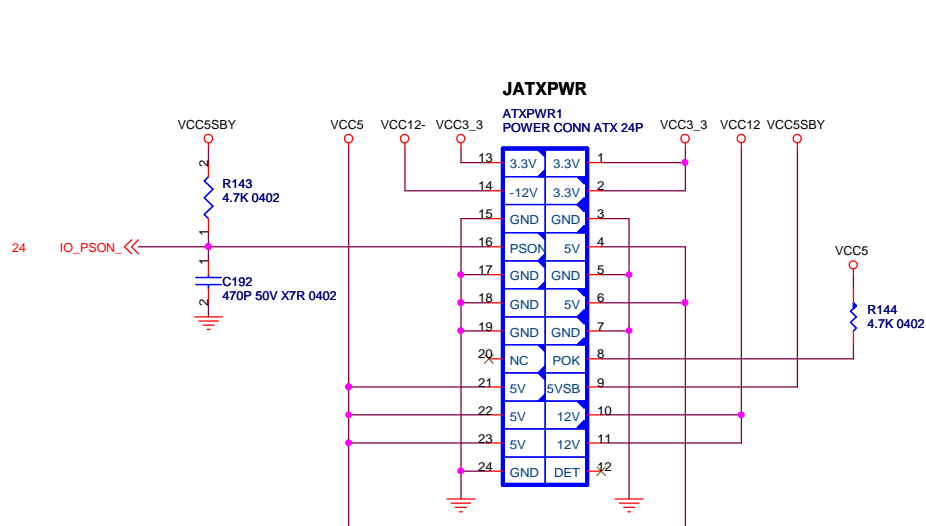
Title: PS2, USB, PRINT PORT

Size: Custom Document Number: **IG41S-M7S** Rev: 7.0

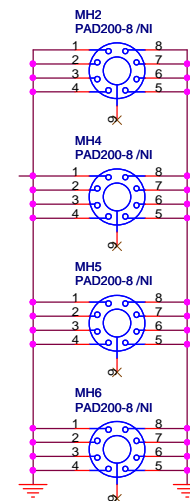
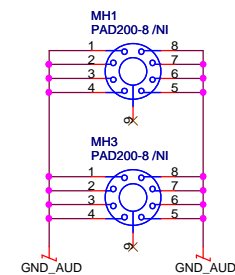
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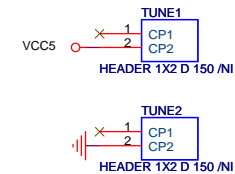
			
Title FRONT PANEL, USB(FRONT), FAN			
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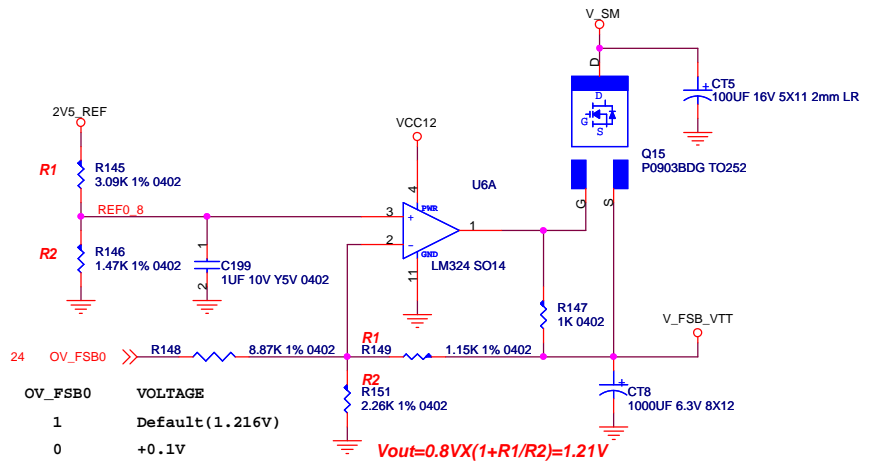
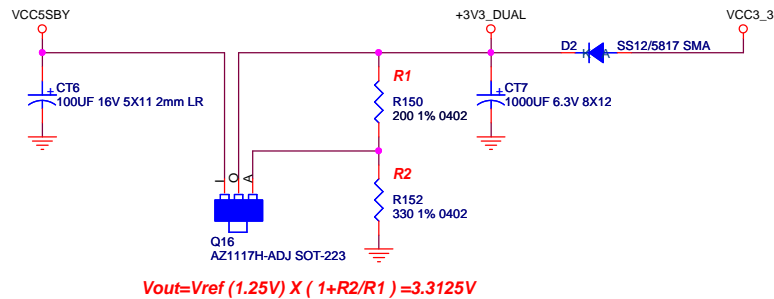
FOR EMI



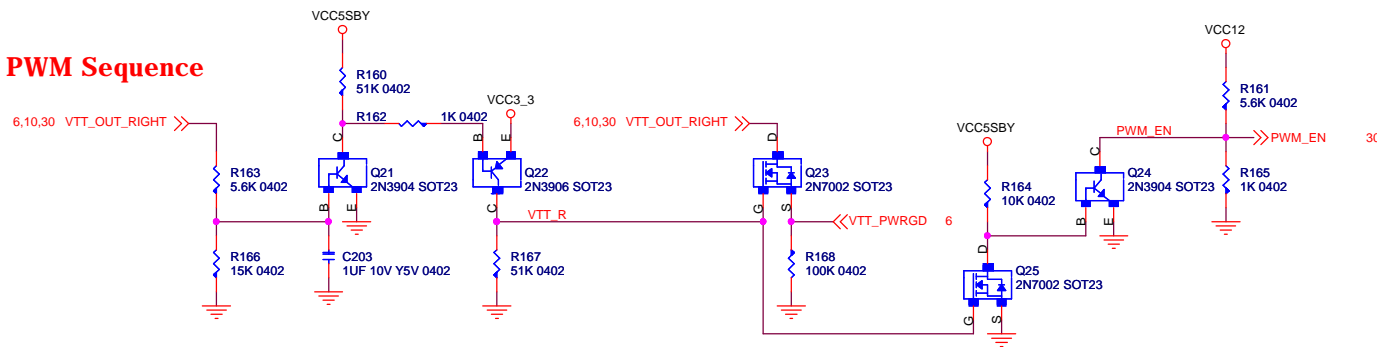
Impedance Testing Coupon



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Title ATX POWER & BPCAP MH & EMI			
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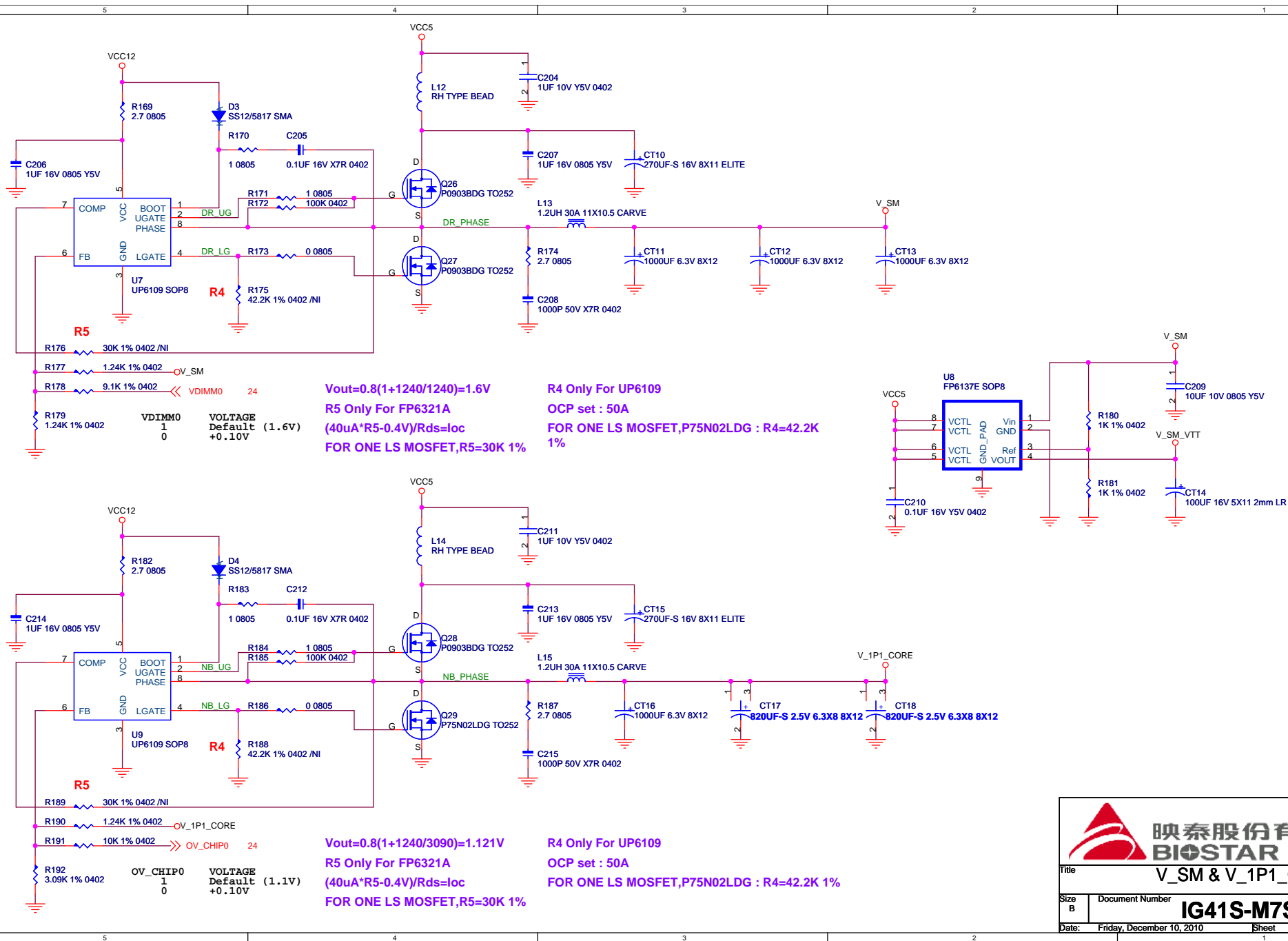


PWM Sequence



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Title: Miscellaneous DC-DC
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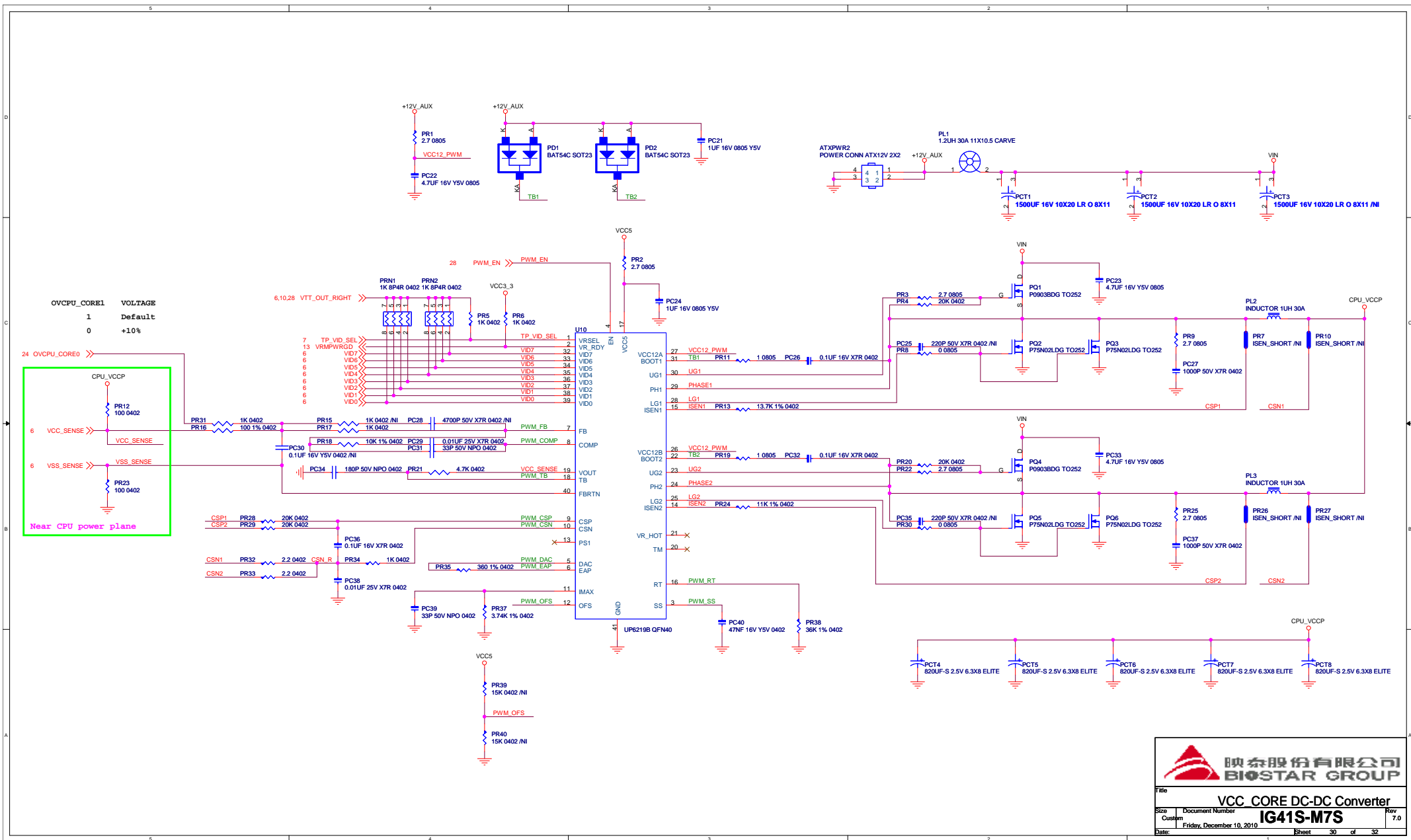


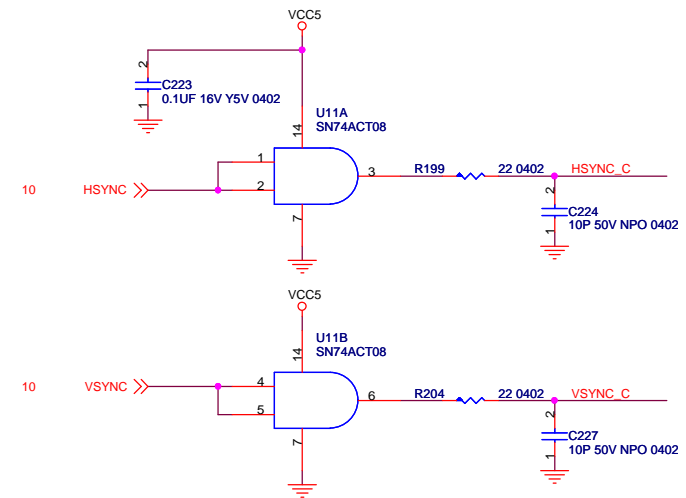
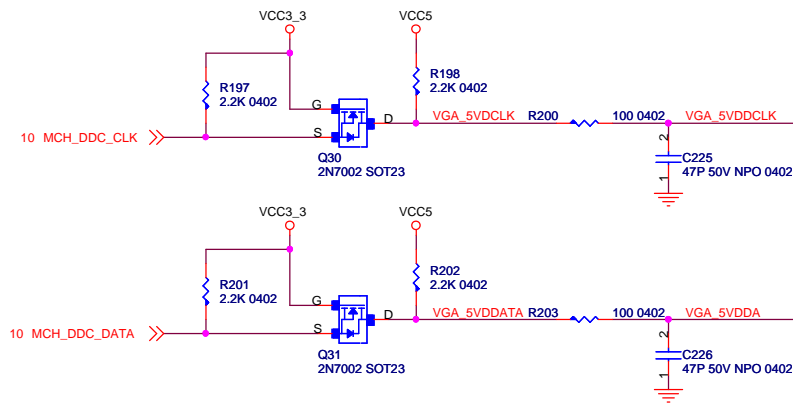
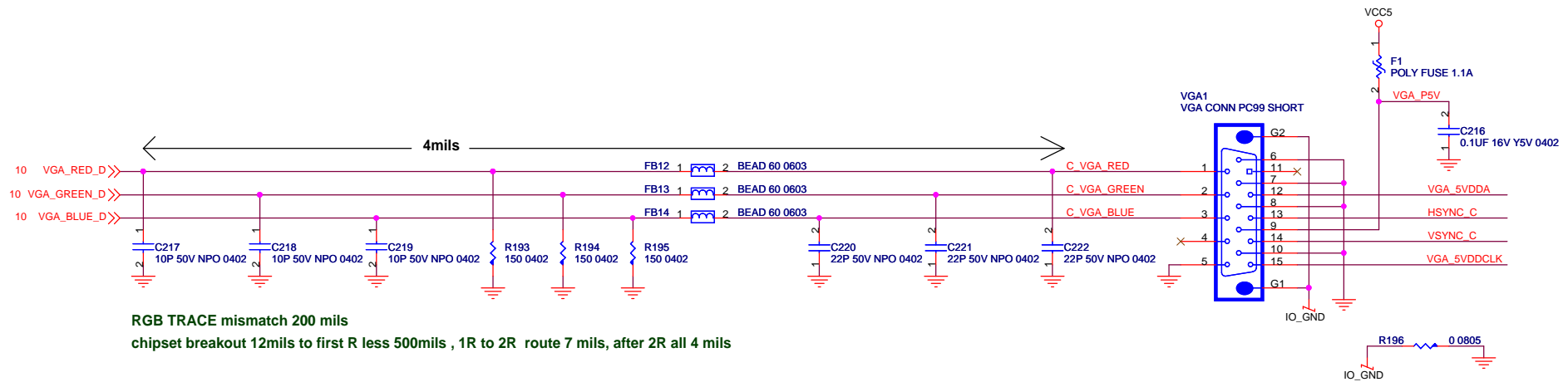
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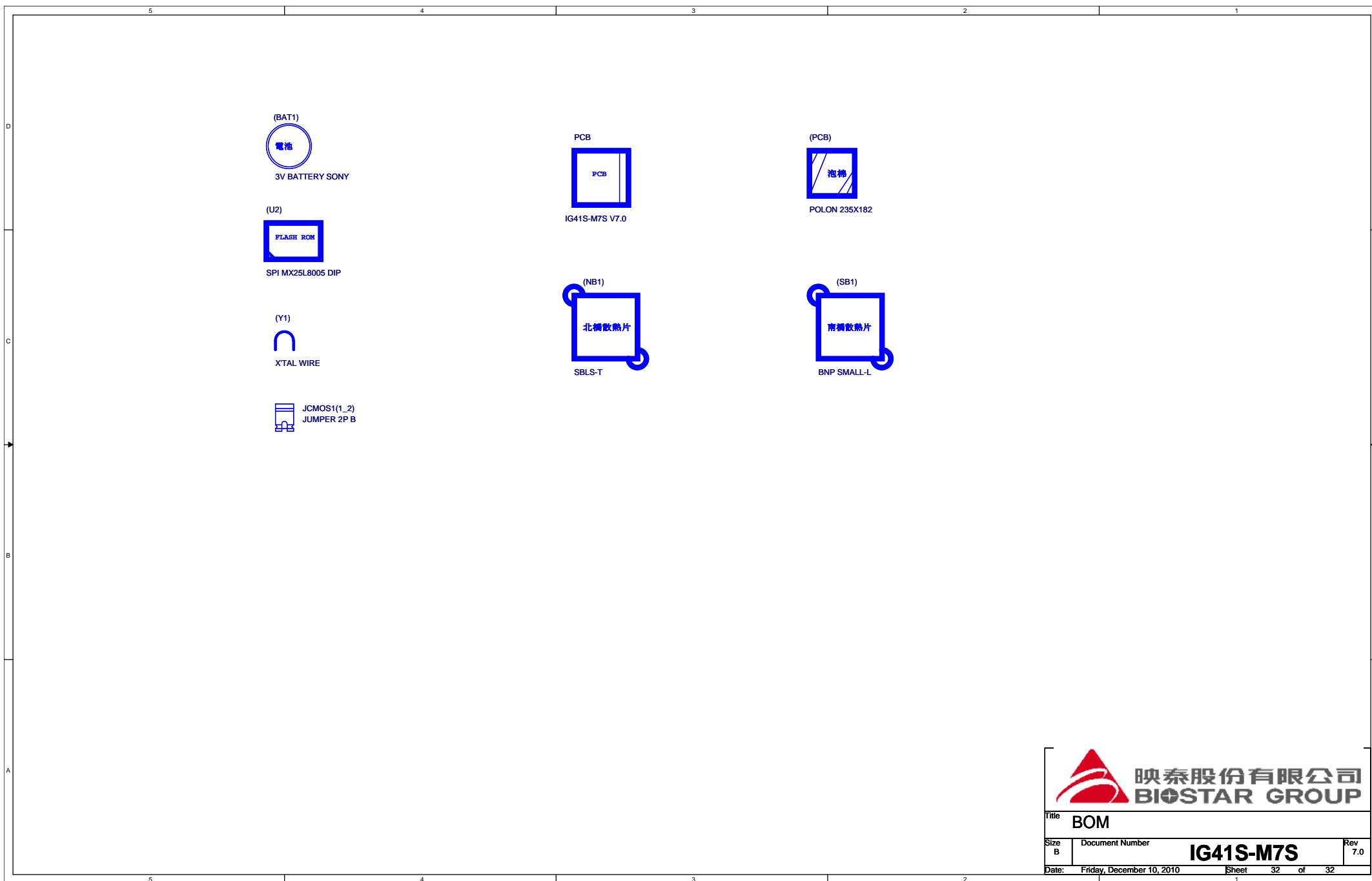



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