

P977-A01: G96, GB1-128, GDDR3, DL-DVI/VGA, DL-DVI/VGA, SD/HDTV

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- Page 22: POWER SUPPLY: NVVDD

REV HISTORY

- Version : 0A
- 6/26 PAGE 16 add D701 for 4PIN FAN control protect
- 12/03 Memory reference: V129-4.0
Power nvdd ref : V157-1.0
Main board ref : V156-1.0
- 12/03 PAGE 04 ADD FBA TOP M3,M4 from V129-4.0
PAGE 05 ADD FBA BOT M5,M6 from V129-4.0
PAGE 08 ADD FBC TOP M1,M2 from V129-4.0
PAGE 09 ADD FBC BOT M7,M8 from V129-4.0
- 12/04 PAGE 22 SWAP power design from V157-1.0 single phase
Disable GPIO6_NVVDD_SEL function
- 12/08 PAGE 21 modify C108,C127,C126 footprit to 1500UF_6_3V
PAGE 22 modify C58,C500,C60 footprit to 1500UF_6_3V
- 12/08 PAGE 16 replace D10 from V156
- 12/08 modify page summary
- 12/10 page 22 R145.1 12V_PEX modify to 12V
- 12/16 page 4 & 5 & 8 & 9 swap memory bank pin request from LAYOUT
- 12/19 page 4 & 5 swap memory bank of M4 & M6 pin request from LAYOUT
- 12/22 page 22 12V change to 12V_F for good to layout
- 12/24 page 17 add 3 EMI sultion and change 光學點footprint
- 12/24 page 22 change L12 L04-12A7441-M26
CHK_D2_11_5X10_8 footprint to CHK_D2_P7_4X6_2
- 12/24 page 21 change R511 footprint R6030 to 6030
form ME request

REV	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10977-base-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO. STUFF ASSEMBLY NOTES AND BOM NOT FINAL
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PAGE DETAIL	TABLE OF CONTENTS

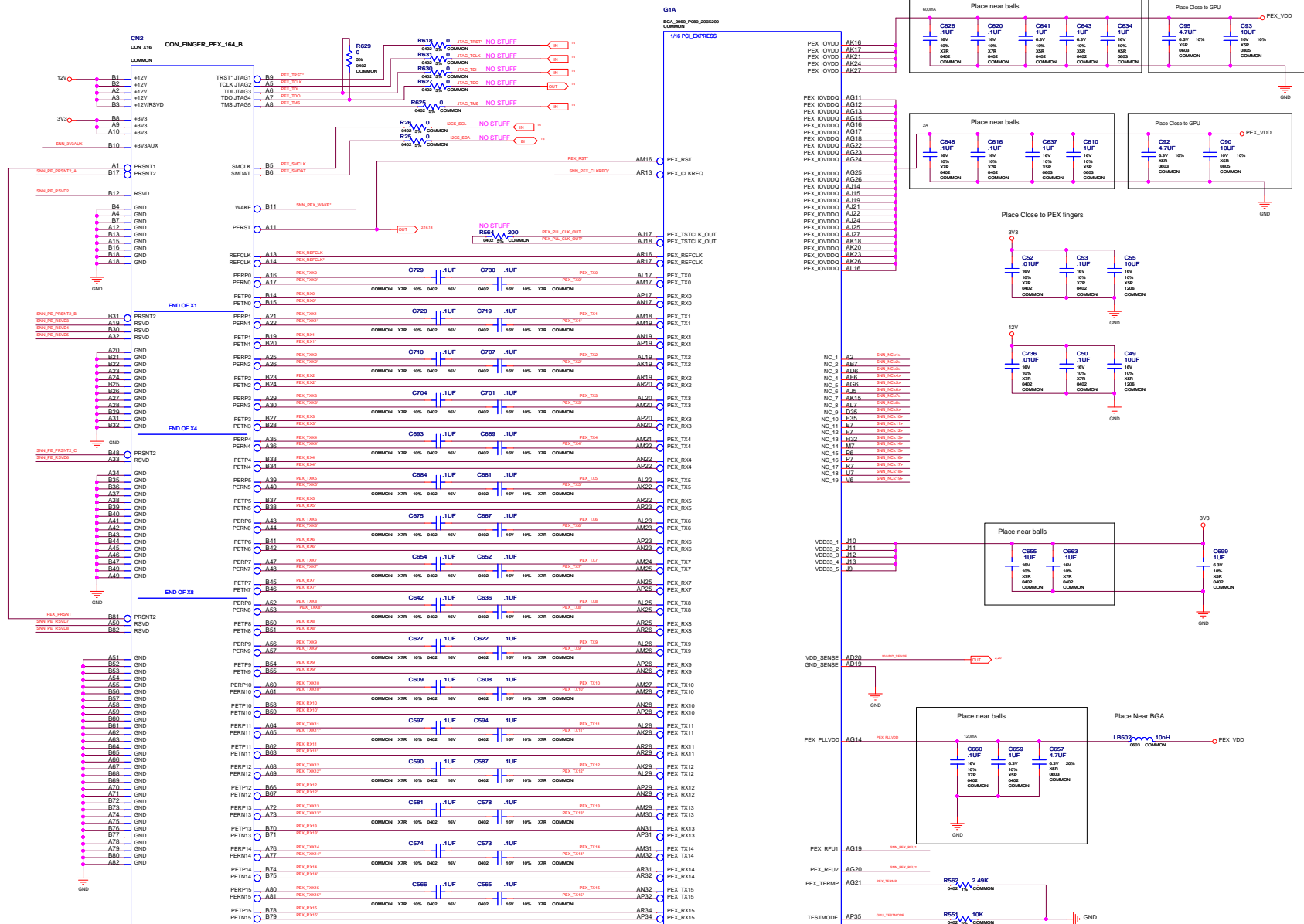
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NV_PN	600-10977-base-100 A
ID	
NAME	
PAGE	
DATE	02-APR-2008

16X PEX INTERFACE



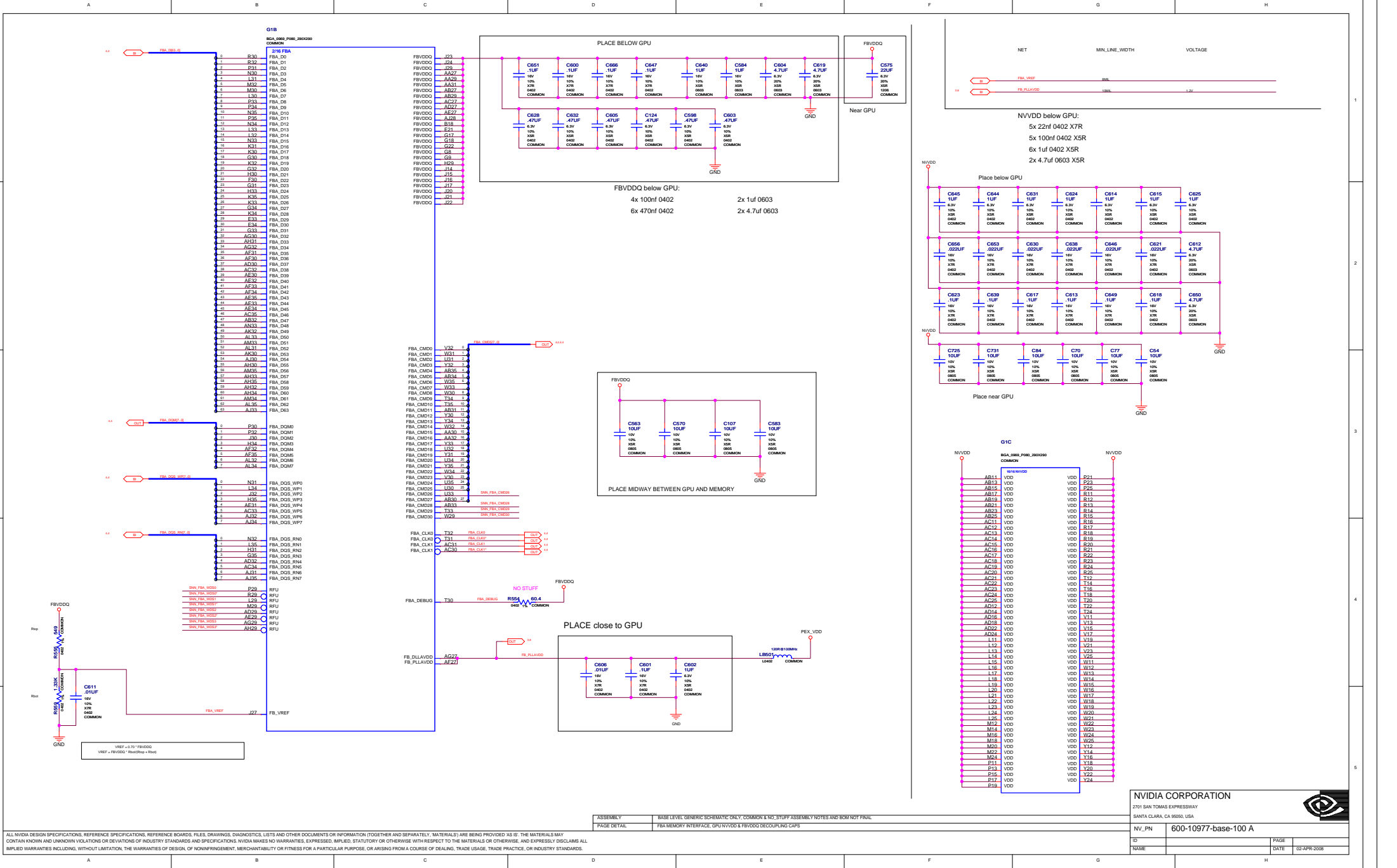
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY. COMMON & VIO. 3YR/5YR ASSEMBLY NOTES AND BOARD NOT FINAL
PAGE DETAIL	PCI EXPRESS INTERFACE, PEX_VDD DECOUPLING CAPS

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ASSEMBLY: BOARD LEVEL GENERIC BOM/REPAIR ONLY. COORDINATE WITH NVIDIA ASSEMBLY NOTES AND BOM NOT FINAL.
PAGE: DETAIL: FBA MEMORY INTERFACE, GPU NVDD & FBVDD DECOUPLING CAPS

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NV_PN

600-10977-base-100 A

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PAGE

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DATE

02-APR-2008

FrameBuffer: Partition A 16/32Mx32 BGA136 GDDR3 TOP M3 M4

FB_A-CS0-LOW-32bit

M3E

BGA_136_P0B0_140X130

COMMON

FB_A-CS0-HI-32bit

M4E

BGA_136_P0B0_140X130

COMMON

FBA Partition

136BGA CMD Mapping

CMD ADDR

CMD01 RAS#

CMD02 CAS#

CMD03 WE#

CMD04 CS#

CMD05 RST#

CMD06 A10

CMD07 A11

CMD08 A12

CMD09 A13

CMD10 A14

CMD11 A15

CMD12 A16

CMD13 A17

CMD14 A18

CMD15 A19

CMD16 A20

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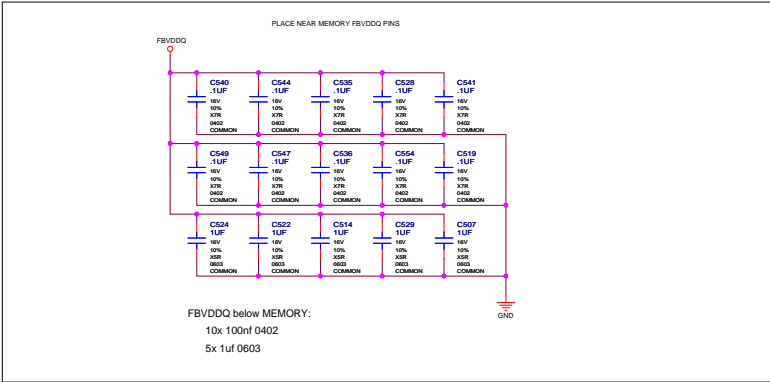
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CMD263 A267

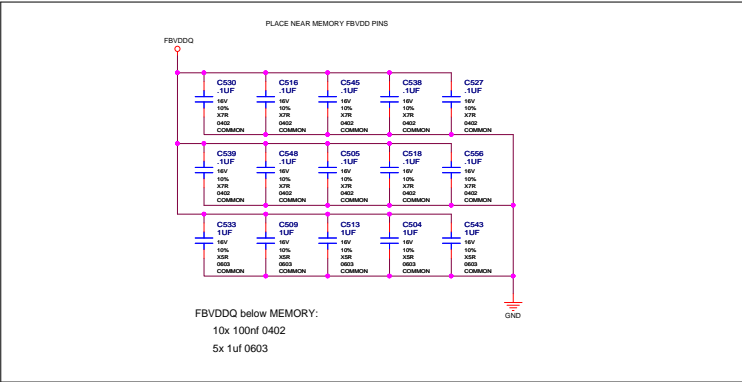
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FRAME BUFFER: PARTITION A DECOUPLING

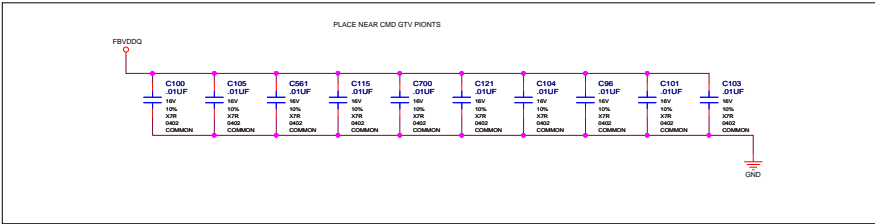
Decoupling for FBA 0..31



Decoupling for FBA 32..63




Return path coupling GND/FBVDDQ for FBA

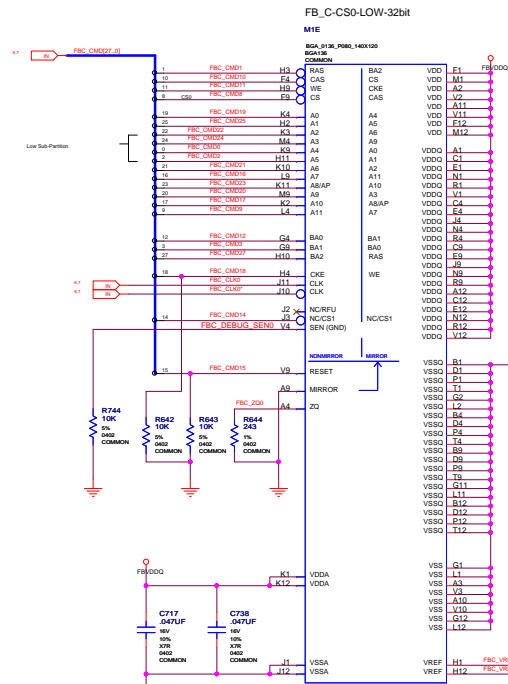


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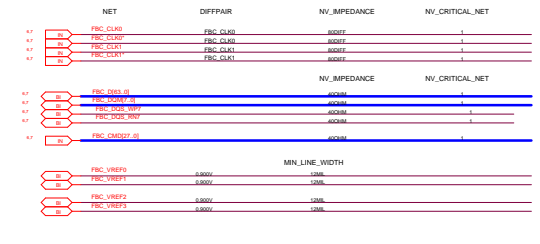
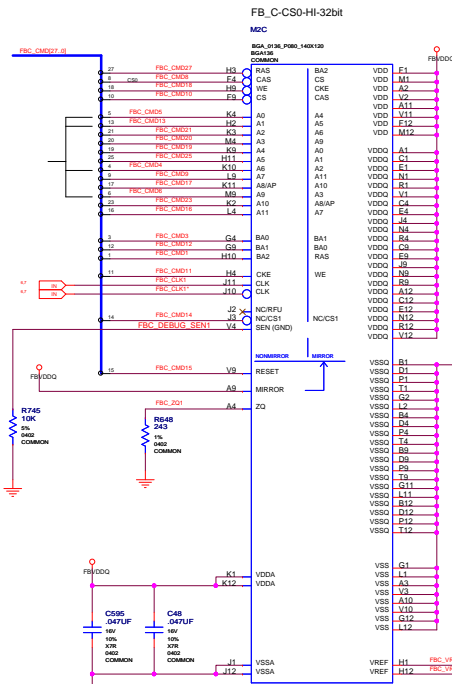
ASSEMBLY	BASE LEVEL "GENERIC" BOM/MATERIALS ONLY. COMMON & NO. 3100FF ASSEMBLY NOTES AND BOM NOT FINAL.
PAGE DETAIL	FBA MEMORY FBVDDQ DECOUPLING CAPS

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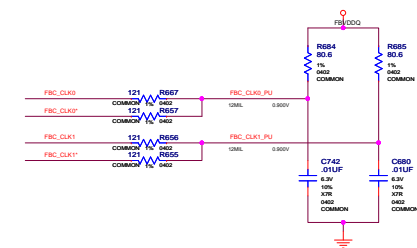
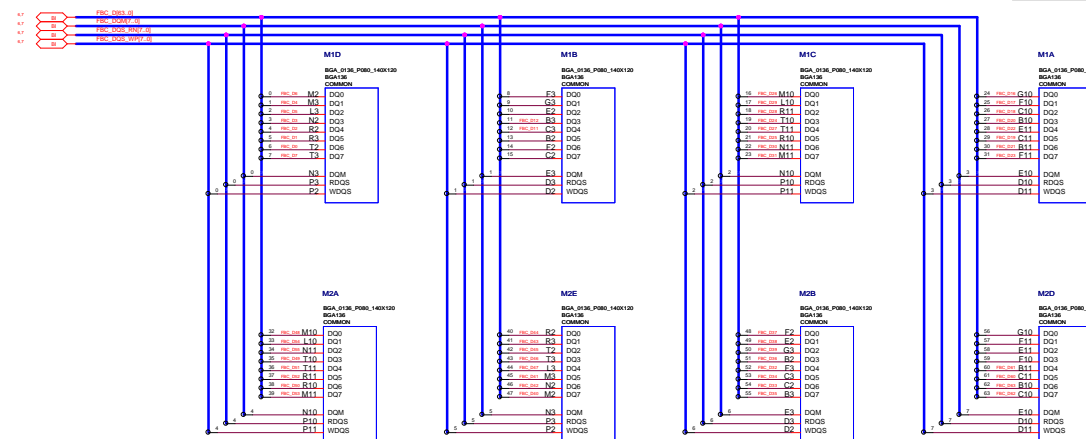
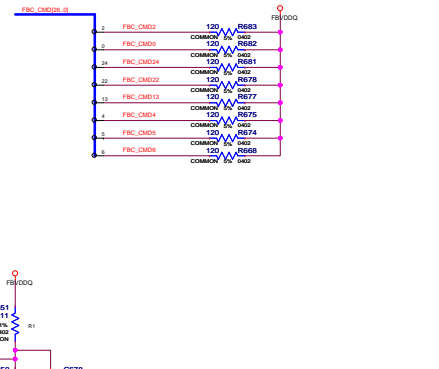
FRAMEBUFFER: PARTITION C 16/32Mx32 BGA136 GDDR3 TOP M1 M2



FBC Partition	
136GBA CMD Mapping	
CMD	ADDR
CMD1	E40*
CMD10	C40*
CMD11	W6*
CMD18	C8*
CMD19	RESET/BOOT
CMD6	C50*
CMD19	Au0
CMD32	Au0
CMD32	Au1
CMD34	Au1
CMD3	Au4
CMD2	Au3
CMD4	Au2
CMD6	Au0
CMD5	Au4
CMD13	Au5
CMD1	Au0
CMD16	Au7
CMD3	Au8
CMD30	Au8
CMD17	Au10
CMD6	Au11a
CMD14	Au12a
CMD12	BA0
CMD3	BA1
CMD37	BA2



Termination for Sub-Partition and CLK
MUST BE PLACED as close as possible to
the BGA memory on the line BEFORE the
MEMORY pin!!
Minimize the stub length!!



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBC 16/32MX32 GDDR3 MEMORIES, FBC CMD BUS PUS, FBC CLK TERMS

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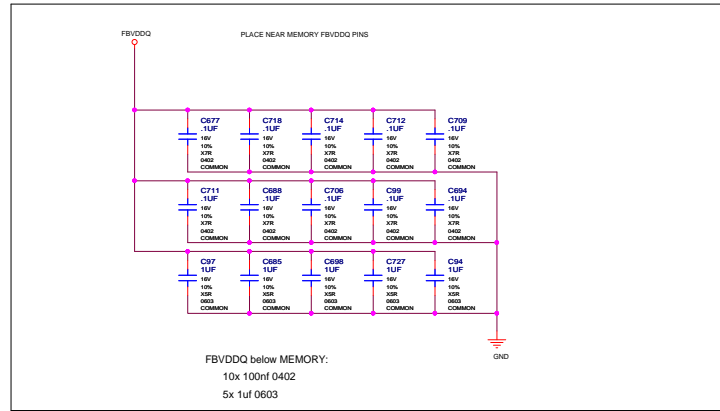


NV_PN	600-10727-base-sch A
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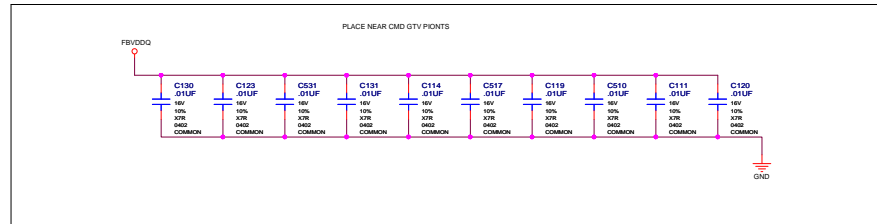
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FRAMEBUFFER: PARTITION C DECOUPLING

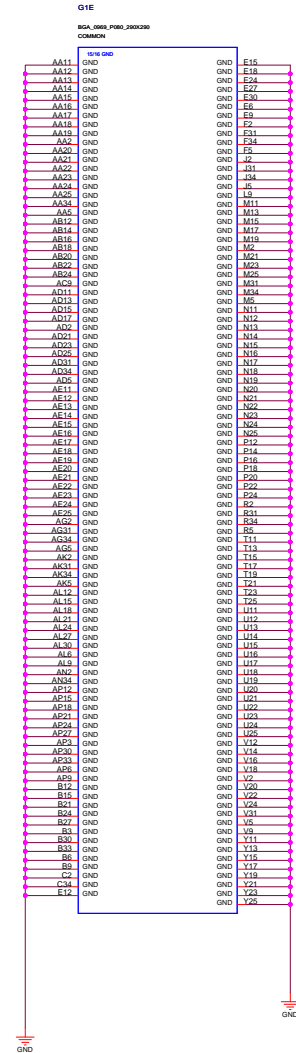
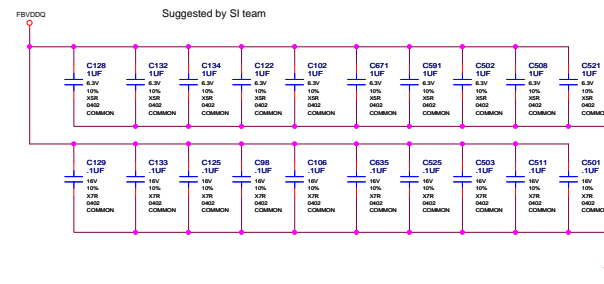
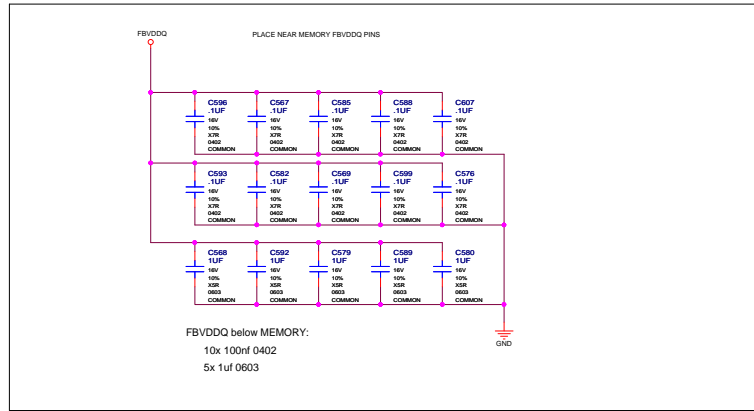
Decoupling for FBC 0..31



Return path coupling GND/FBVDDQ for FBC



Decoupling for FBC 32..63



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NV_PN	600-10977-base-100 A
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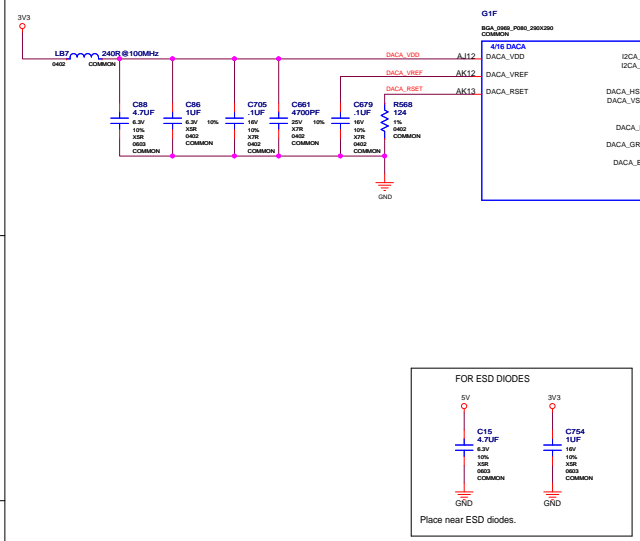
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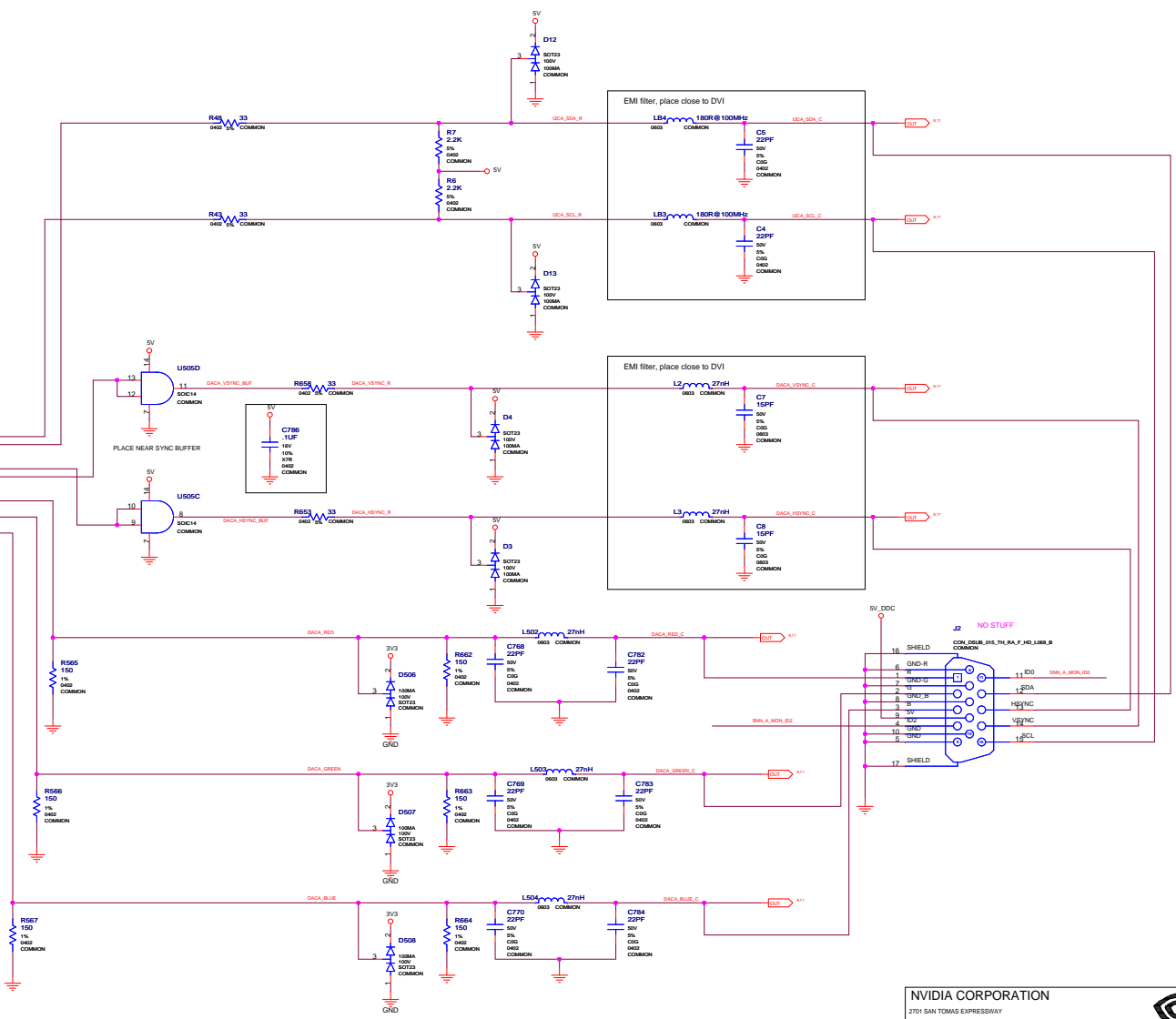
02-APR-2008

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	D DMC_WB0T			120M
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	D DMC_WB1N	1	SDCM	
	D DMC_WB1	1	SDCM	
	D DMC_WB2C	1	SDCM	
	D DMC_WB2N	1	SDCM	
	D DMC_WB2	1	SDCM	
	D DMC_WB3C	1	SDCM	
	D DMC_WB3N	1	SDCM	
	D DMC_WB3	1	SDCM	
	D DMC_WB4C	1	SDCM	
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Primary Display (DACA), DVI-I

DACA RGB-FILTER



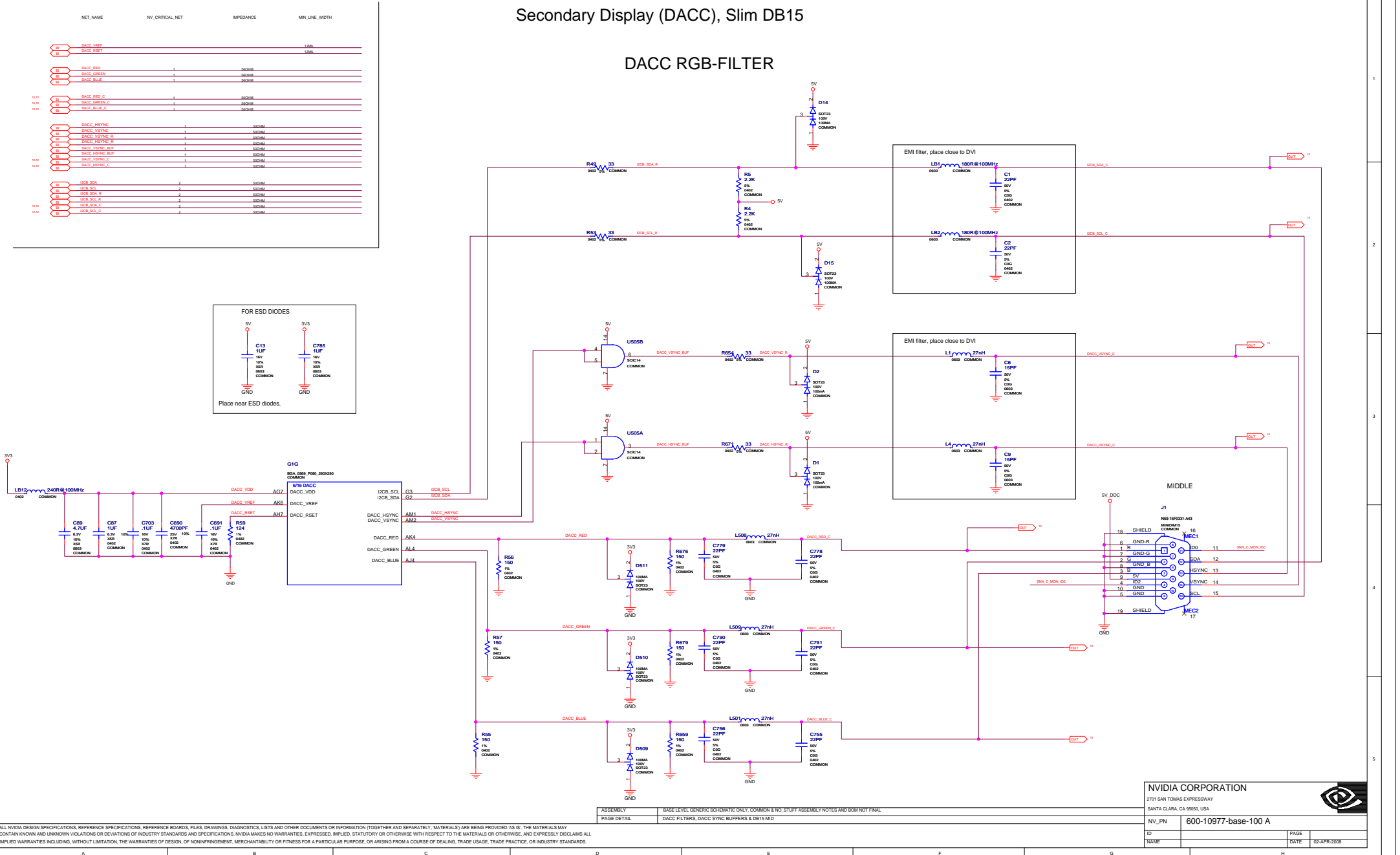
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACA FILTERS, DACA SYNC BUFFERS & DB15 SOUTH

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NV_PN		600-10977-base-100 A	
ID	PAGE		
NAME	DATE	02-APR-2008	

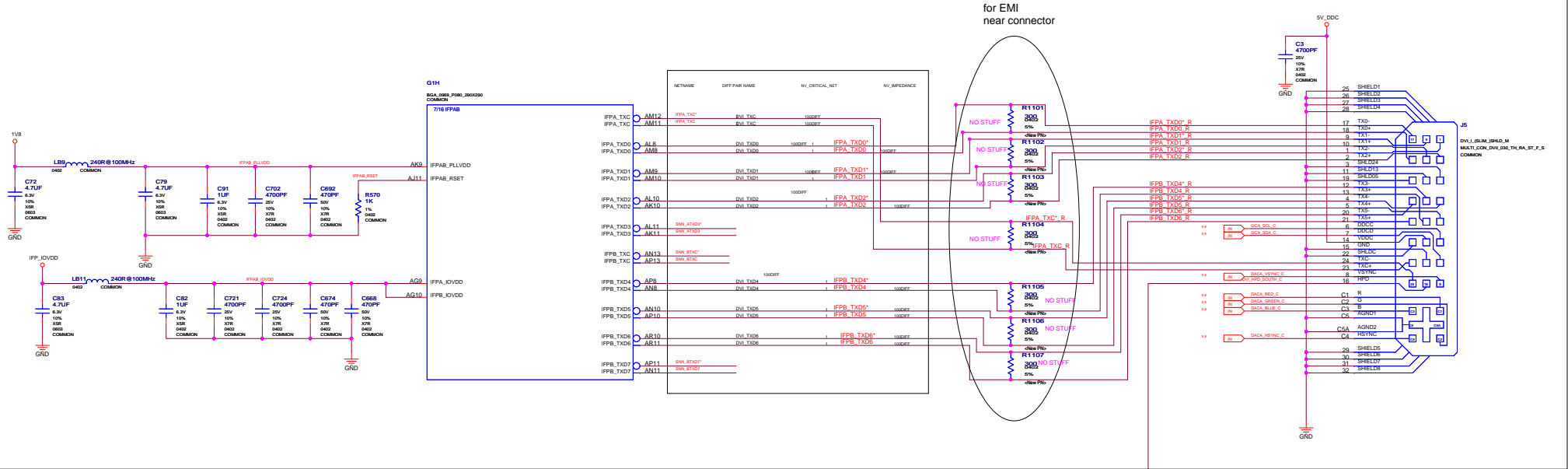
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Secondary Display (DACC), Slim DB15

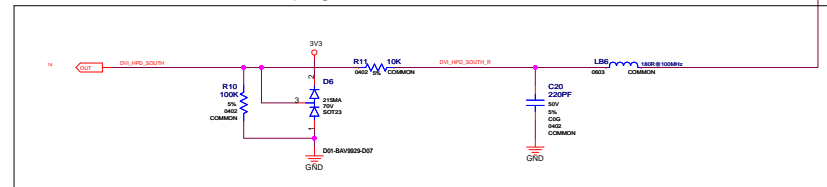
DACC RGB-FILTER



TMDS LINK: A & B



Hotplug Detection



NETNAME	MIN_LINE_WIDTH	VOLTAGE
EFAB_PUDD	120u	1.8V
EFAB_I/O0D	120u	3.3V
EFABPSET	120u	

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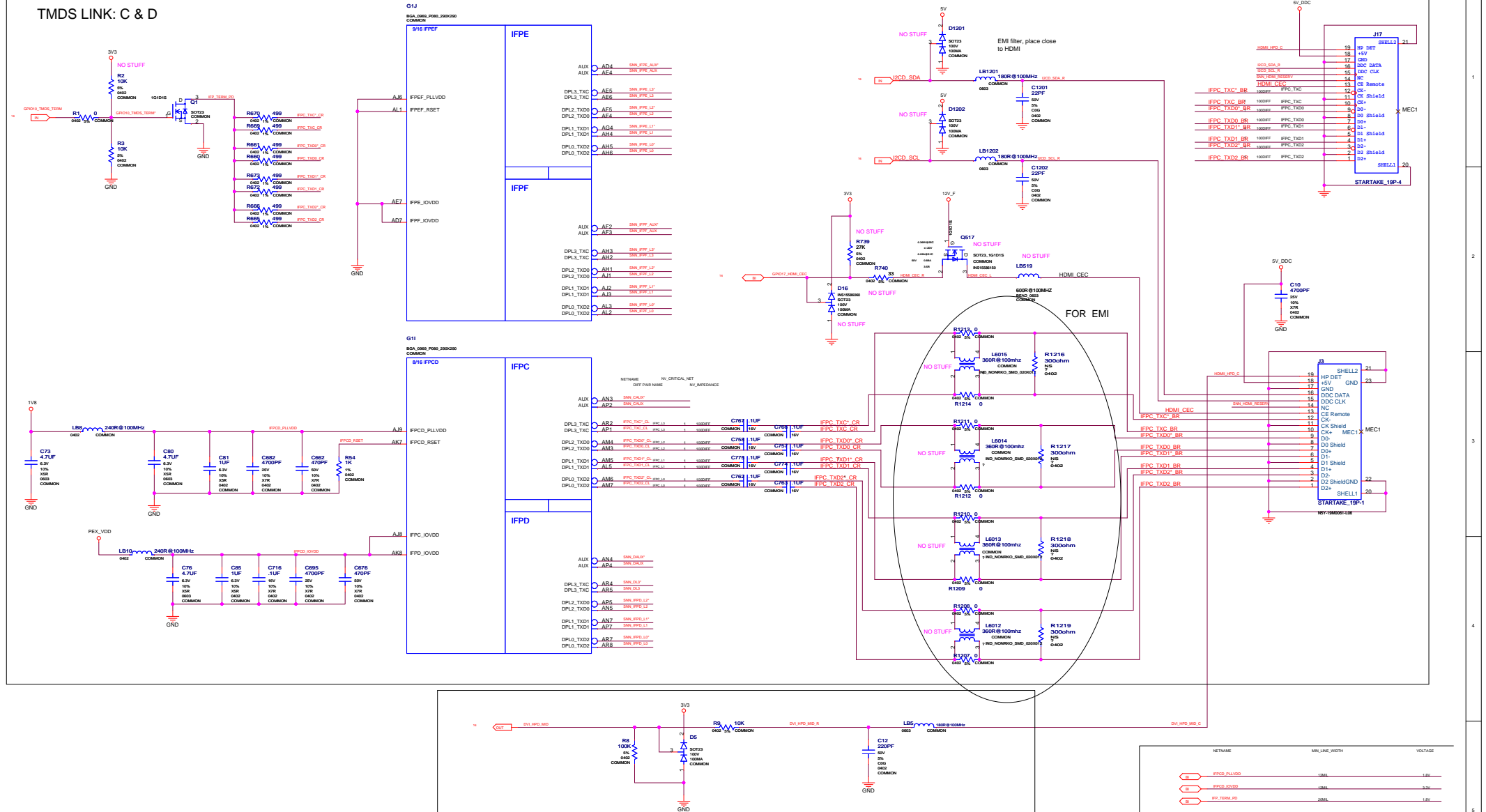
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ID		PAGE	
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	TMD5 LINK A/B, DVI CONNECTOR SOUTH

TMDS LINK: C & D



Hotplug Detection

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	TMDS LINK C/D, AC COUPLING, PD's, DVI CONNECTOR MID

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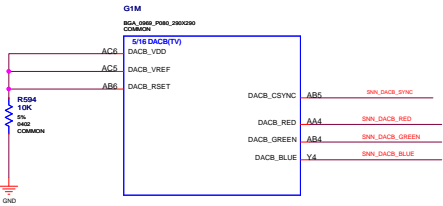
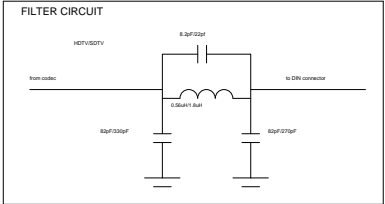
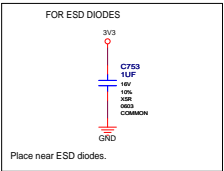
NV_PN	600-10977-base-100 A
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ID	PAGE
NAME	DATE 02-APR-2008

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DACB: SD/HD VIDEO OUT CONNECTOR

NET_NAME	MIN_LINE_WIDTH	NV_IMPEDANCE	NV_CRITICAL_NET
OUT1 DACB_C_OUT1	500M	1	
OUT2 DACB_C_OUT2	500M	1	
OUT3 DACB_PB_OUT	500M	1	
IN1 TV_PROUT_C	500M	1	
IN2 TV_PROUT_C	500M	1	
IN3 TV_PROUT_C	500M	1	
IN4 DACB_VREF	100M		
IN5 DACB_RSET	100M		



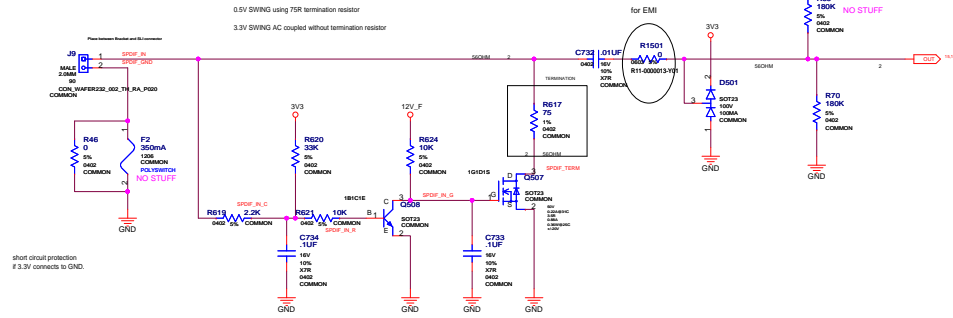
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ASSEMBLY	BASE LEVEL GENERIC BOARD/PCB ONLY; COMMON & NO. 3100P ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACB FILTER, MINIDIN CONNECTOR NORTH, BOARD VIDEO OUTPUT CONNECTOR

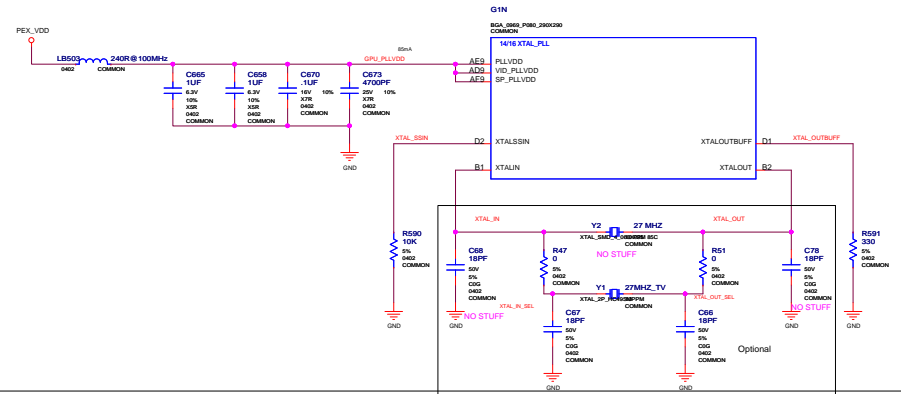
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NV_PN	600-10977-base-100 A	DATE	02-APR-2008
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NAME		DATE	02-APR-2008

XTAL/PLLVDD/SPDIF IN

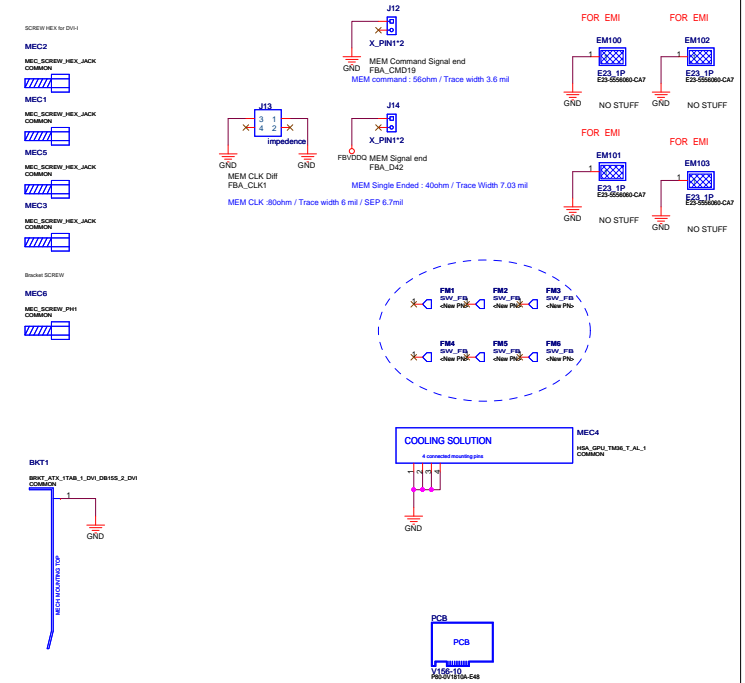
SPDIF IN



XTAL/GPU_PLLVDD



MECHANICALS & THERMALS



Timing diagram for NetName showing signals over time. The diagram includes a 10 ns scale bar and a MIN_LINE_WIDTH parameter.

Signal	Value	Duration / Position
GPU_PLYDD	1200	1.2V
XTAL_IN	1000	
XTAL_OUT	1000	
XTAL_BURN	1000	
XTAL_OUTBUF	1000	
SIOF_IN	0	
SIOF_OUT	0	
SIOF_GND	0	

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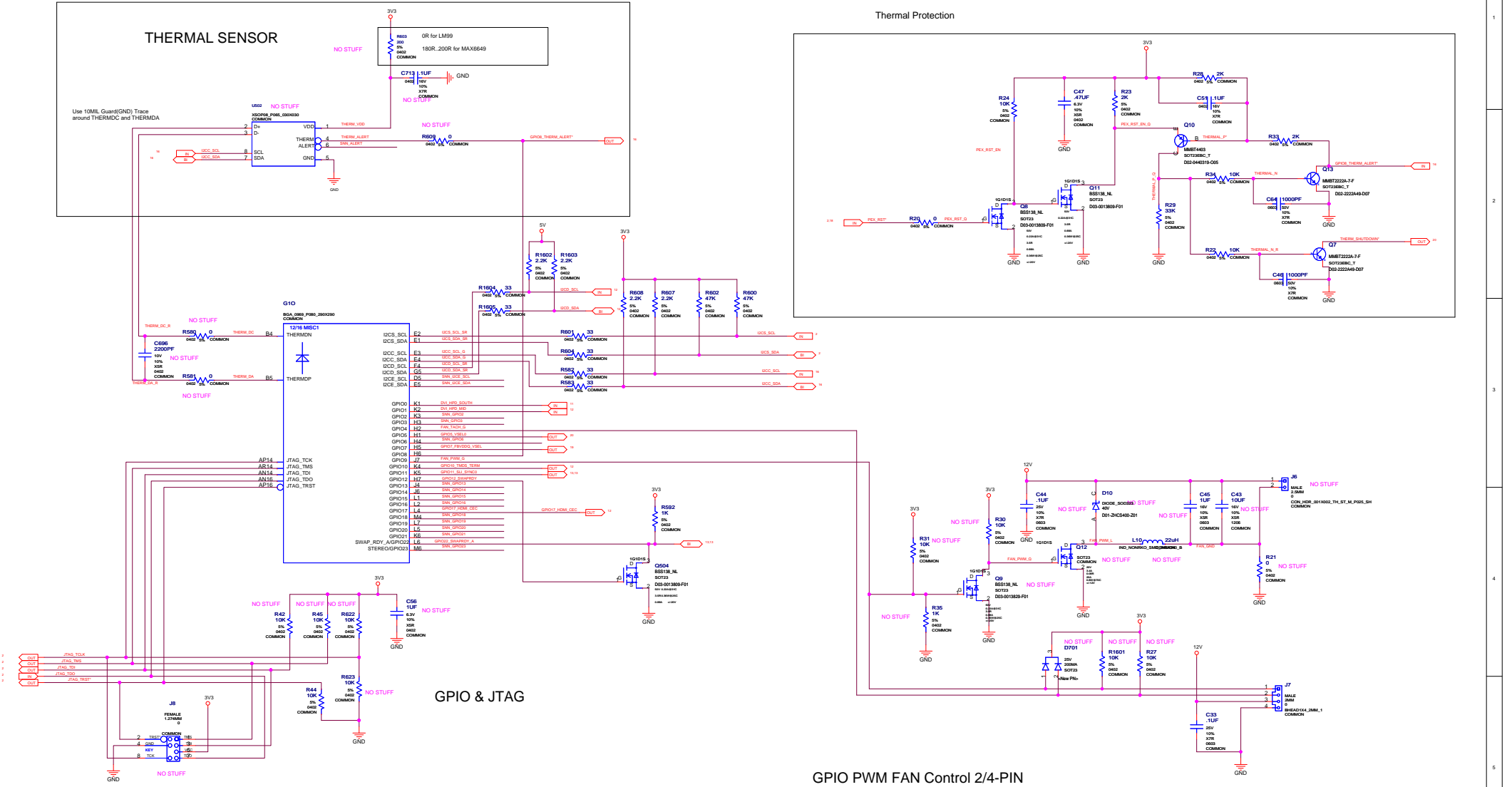
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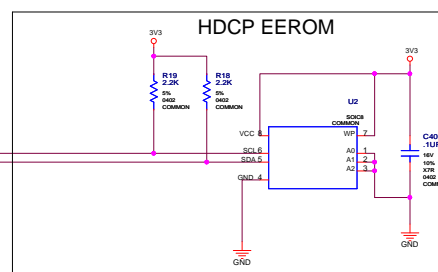
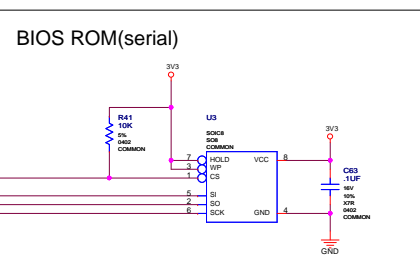
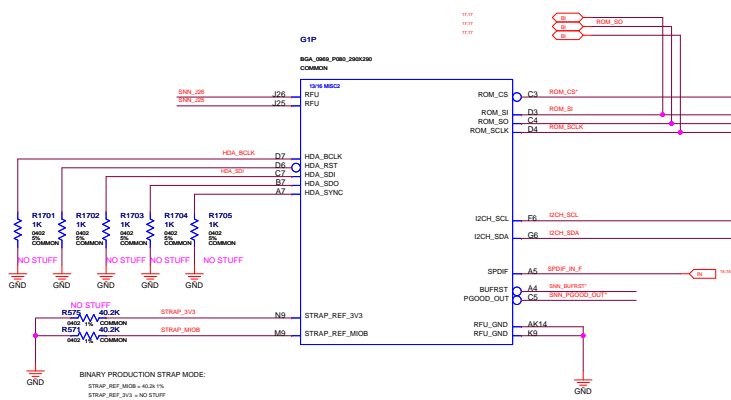
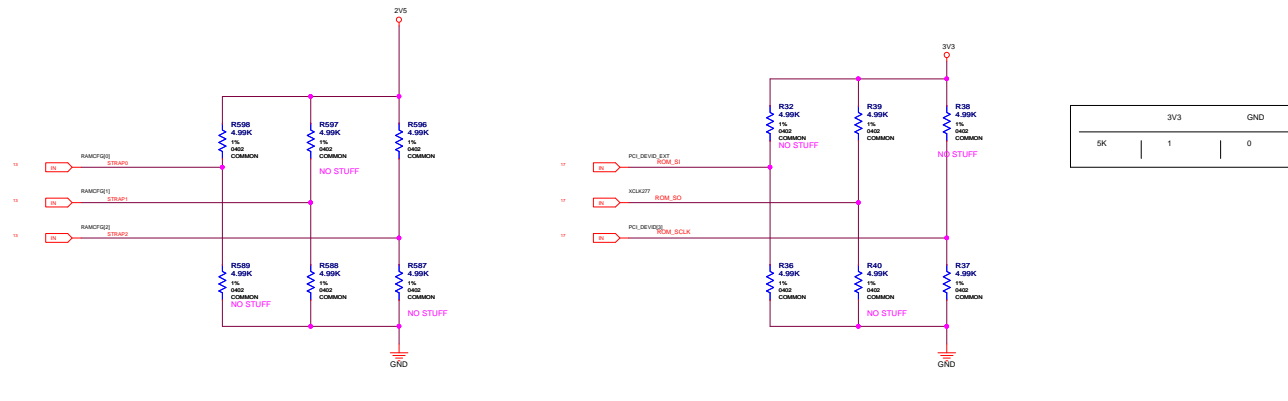
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PAGE DETAIL	SPDF-IN, XTAL, MECHANICALS, THERMALS

EXTERNAL THERMAL SENSOR, 4PIN FAN CONTROL, GPIO, THERMAL PROTECTION



STRAPPING OPTIONS

Assembly: BIOS



	NET_NAME	MIN_LINE_WIDTH	NV_IMPEDANCE	NV_CRITICAL_NET
IN	HDA_BCLK		50OHM	2
IN	HDA_RST*		50OHM	2
OUT	HDA_SDI		50OHM	2
IN	HDA_SDO		50OHM	2
IN	HDA_SYNC		50OHM	2
IO??	HDA_SDI_R		50OHM	2

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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BIOS ROM, HDCP ROM, STRAPPING OPTIONS

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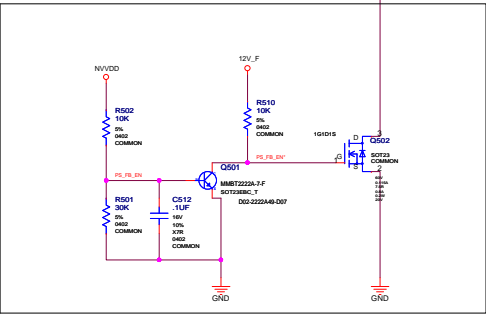
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POWER SUPPLY: FBVDD/Q,PEX_VDD

NETNAME	MAX_CURRENT	MIN_LINE_WIDTH	VOLTAGE
FBVDDQ	10A	20MIL	1.8V
PEX_VDD	3A	18MIL	1.1V

PEXVDD Power Supply
PEXVDD = 1.1V @ 3A

FBVDDQ Power Supply
FBVDDQ = 1.8 - 2.0 V@ 10A



	GPIO7
FBVDDQ = 1.816V	0
FBVDDQ = 1.997V	1

PWM UPI 6161
R1904 40K RESISTOR, 240Ohm
for OCP 28A
R1904 NEAR PWM

$$FBVDDQ = VREF * (1 + (Rtop / Rbot1))$$
$$1.816V = 0.8V * (1 + (1.27K / 1K))$$
$$FBVDDQ = VREF * (1 + (Rtop / Rbot1))$$
$$1.997V = 0.8V * (1 + (1.27K / (1K/5.62K)))$$

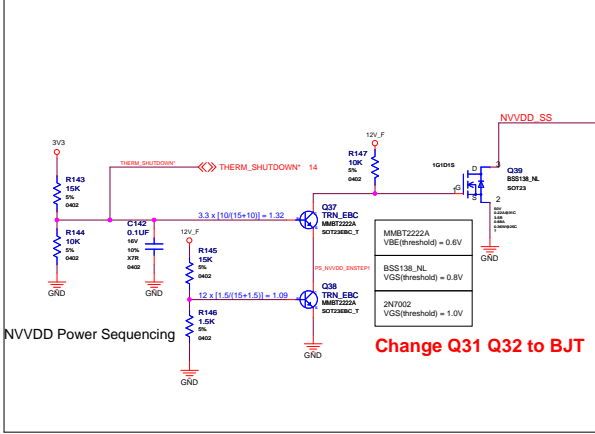
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY. COMMON & NO STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	POWER SUPPLY FBVDDQ, PEX_VDD

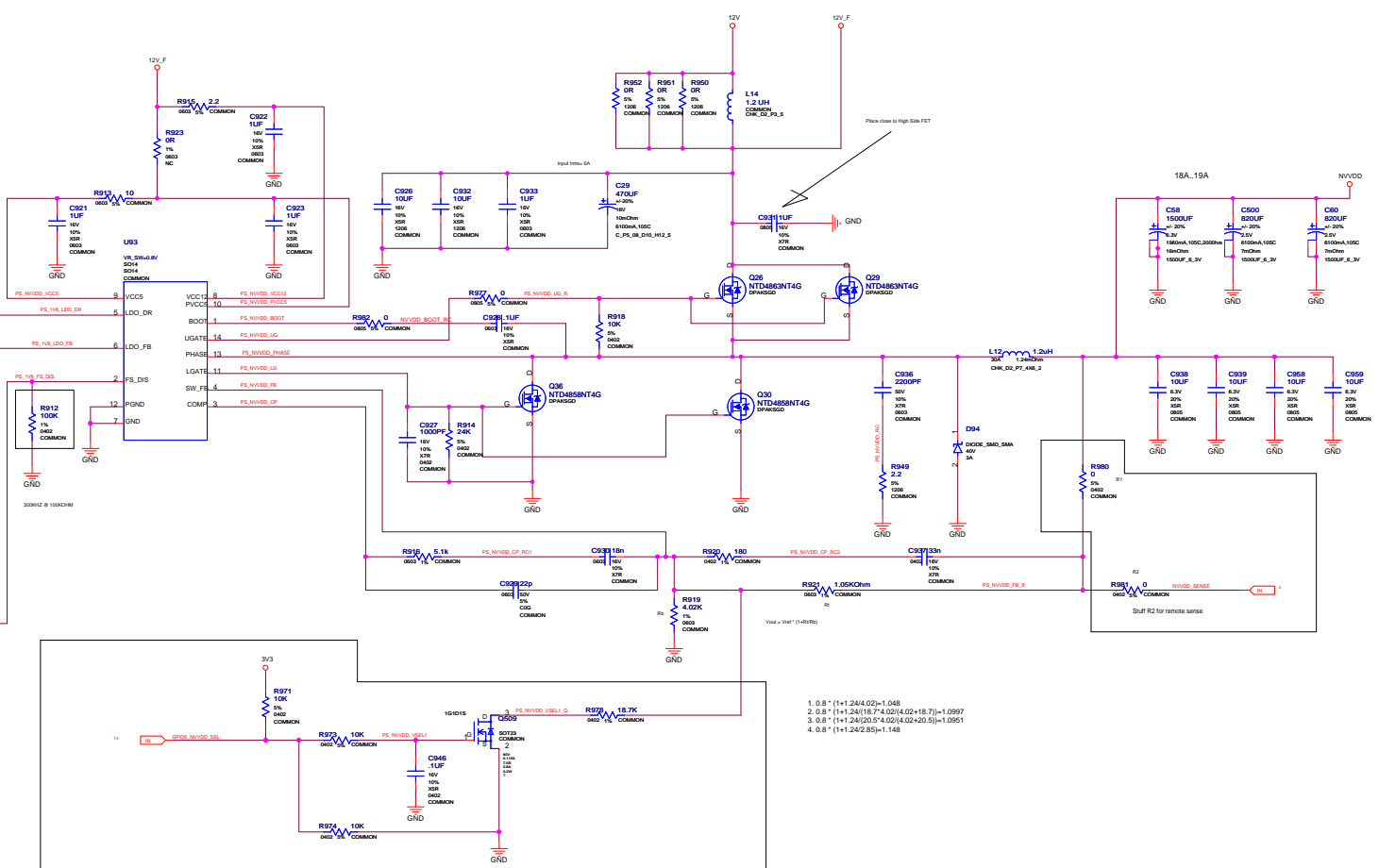
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Power Supply : NVVDD



Net Name	MIN_LINE_WIDTH	VOLTAGE	NV_NET_MAX_CURRENT
NVVDD	100u	1V	20A
PS_NVVDD_VCC2	100u		
PS_NVVDD_VCC22	100u		
PS_NVVDD_VCC23	100u		
PS_NVVDD_BOOT	100u		
PS_NVVDD_US	100u		
PS_NVVDD_PHASE	100u		
PS_NVVDD_LG	100u		
PS_NVVDD_FB	100u		
PS_NVVDD_CP	100u		
PS_NVVDD_US_1	100u		
PS_NVVDD_CP_2C1	100u		
PS_NVVDD_CP_2C2	100u		
PS_NVVDD_US_2	100u		
PS_NVVDD_IC	100u		



NVVDD Voltage Selection

1204 GPIO6_NVVDD_SEL don't need use with G96-300


Place close to NVVDD feedback loop

1. $0.8 * (1 + 1.244.02) = 1.048$

2. $0.8 * (1 + 1.244.18.7 + 4.02(4.02 + 18.7)) = 1.0997$

3. $0.8 * (1 + 1.244.20.5 + 4.02(4.02 + 20.5)) = 1.0951$

4. $0.8 * (1 + 1.242.85) = 1.148$

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INV_PN		600-10977-base-100 A	
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NAME	<ENGINEER>	DATE	02-APR-2008

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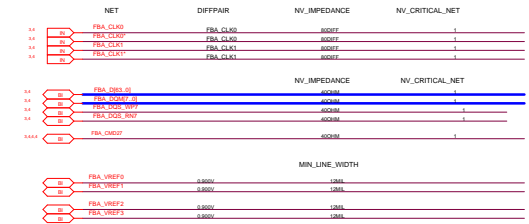
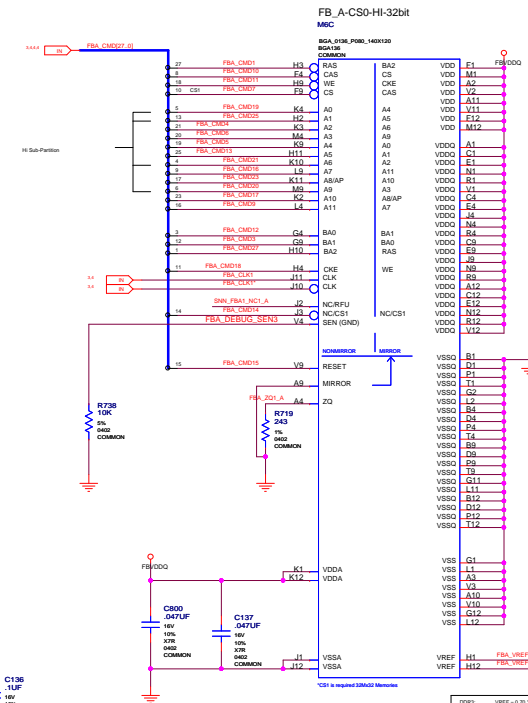
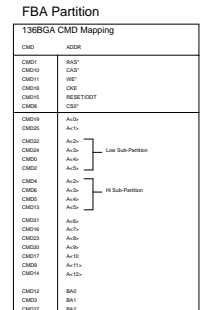
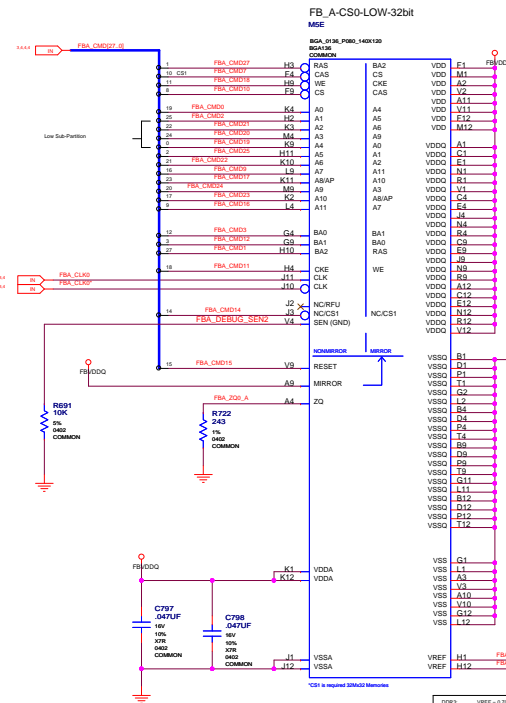
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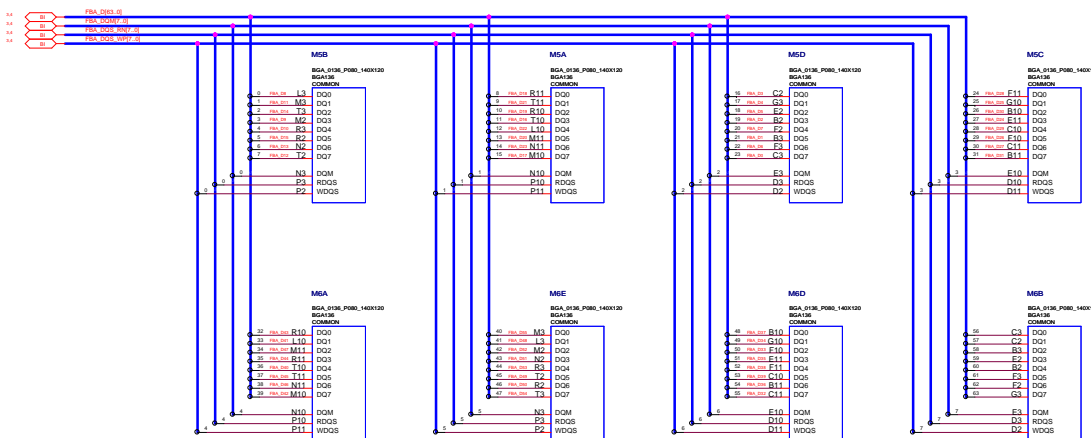
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	<div><div>Title</div><div>Cofl Part</div><div>Design</div><div>Date</div><div>16 Jan 16</div><div>16.30.01.2008</div></div>	<div><div>C89</div><div>(10.44)</div><div>C90</div><div>(21.10)</div><div>C91</div><div>(11.38)</div><div>C92</div><div>(21.17)</div><div>C93</div><div>(21.10)</div><div>C94</div><div>(8.28)</div><div>C95</div><div>(21.17)</div><div>C96</div><div>(5.40)</div><div>C97</div><div>(8.24)</div><div>C98</div><div>(8.40)</div><div>C99</div><div>(8.24)</div><div>C100</div><div>(5.48)</div><div>C101</div><div>(5.40)</div><div>C102</div><div>(14.40)</div><div>C103</div><div>(5.40)</div><div>C104</div><div>(5.40)</div><div>C105</div><div>(19.37)</div><div>C106</div><div>(14.40)</div><div>C107</div><div>(5.40)</div><div>C108</div><div>(19.37)</div><div>C109</div><div>(19.37)</div><div>C110</div><div>(21.30)</div><div>C111</div><div>(16.30)</div><div>C112</div><div>(12.60)</div><div>C113</div><div>(10.38)</div><div>C114</div><div>(20.37)</div><div>C115</div><div>(8.48)</div><div>C116</div><div>(20.28)</div><div>C117</div><div>(19.34)</div><div>C118</div><div>(20.30)</div><div>C119</div><div>(20.16)</div><div>C120</div><div>(11.58)</div><div>C121</div><div>(19.30)</div><div>C122</div><div>(20.37)</div><div>C123</div><div>(20.16)</div><div>C124</div><div>(16.30)</div><div>C125</div><div>(13.40)</div><div>C126</div><div>(20.27)</div><div>C127</div><div>(19.28)</div><div>C128</div><div>(16.28)</div><div>C129</div><div>(20.19)</div><div>C130</div><div>(20.28)</div><div>C131</div><div>(16.30)</div><div>C132</div><div>(20.20)</div><div>C133</div><div>(16.30)</div><div>C134</div><div>(16.34)</div><div>C135</div><div>(16.24)</div><div>C136</div><div>(20.30)</div><div>C137</div><div>(19.28)</div><div>C138</div><div>(20.37)</div><div>C139</div><div>(20.27)</div><div>C140</div><div>(17.47)</div><div>C141</div><div>(19.20)</div><div>C142</div><div>(19.30)</div><div>C143</div><div>(16.40)</div><div>C144</div><div>(16.47)</div><div>C145</div><div>(16.40)</div><div>C146</div><div>(16.30)</div><div>C147</div><div>(16.17)</div><div>C148</div><div>(20.30)</div><div>C149</div><div>(21.27)</div><div>C150</div><div>(21.27)</div><div>C151</div><div>(16.10)</div><div>C152</div><div>(21.27)</div><div>C153</div><div>(21.27)</div><div>C154</div><div>(30.30)</div><div>C155</div><div>(16.40)</div><div>C156</div><div>(16.30)</div><div>C157</div><div>(16.30)</div><div>C158</div><div>(16.30)</div><div>C159</div><div>(16.30)</div><div>C160</div><div>(20.28)</div><div>C161</div><div>(17.37)</div><div>C162</div><div>(16.30)</div><div>C163</div><div>(16.30)</div><div>C164</div><div>(16.30)</div><div>C165</div><div>(16.30)</div><div>C166</div><div>(16.30)</div><div>C167</div><div>(16.30)</div><div>C168</div><div>(16.30)</div><div>C169</div><div>(16.30)</div><div>C170</div><div>(16.30)</div><div>C171</div><div>(16.30)</div><div>C172</div><div>(16.30)</div><div>C173</div><div>(16.30)</div><div>C174</div><div>(16.30)</div><div>C175</div><div>(16.30)</div><div>C176</div><div>(16.30)</div><div>C177</div><div>(16.30)</div><div>C178</div><div>(16.30)</div><div>C179</div><div>(16.30)</div><div>C180</div><div>(16.30)</div><div>C181</div><div>(16.30)</div><div>C182</div><div>(16.30)</div><div>C183</div><div>(16.30)</div><div>C184</div><div>(16.30)</div><div>C185</div><div>(16.30)</div><div>C186</div><div>(16.30)</div><div>C187</div><div>(16.30)</div><div>C188</div><div>(16.30)</div><div>C189</div><div>(16.30)</div><div>C190</div><div>(16.30)</div><div>C191</div><div>(16.30)</div><div>C192</div><div>(16.30)</div><div>C193</div><div>(16.30)</div><div>C194</div><div>(16.30)</div><div>C195</div><div>(16.30)</div><div>C196</div><div>(16.30)</div><div>C197</div><div>(16.30)</div><div>C198</div><div>(16.30)</div><div>C199</div><div>(16.30)</div><div>C200</div><div>(16.30)</div></div>	<div><div>C201</div><div>(14.30)</div><div>C202</div><div>(14.34)</div><div>C203</div><div>(14.37)</div><div>C204</div><div>(16.30)</div><div>C205</div><div>(16.30)</div><div>C206</div><div>(16.30)</div><div>C207</div><div>(16.30)</div><div>C208</div><div>(16.30)</div><div>C209</div><div>(16.30)</div><div>C210</div><div>(16.30)</div><div>C211</div><div>(16.30)</div><div>C212</div><div>(16.30)</div><div>C213</div><div>(16.30)</div><div>C214</div><div>(16.30)</div><div>C215</div><div>(16.30)</div><div>C216</div><div>(16.30)</div><div>C217</div><div>(16.30)</div><div>C218</div><div>(16.30)</div><div>C219</div><div>(16.30)</div><div>C220</div><div>(16.30)</div><div>C221</div><div>(16.30)</div><div>C222</div><div>(16.30)</div><div>C223</div><div>(16.30)</div><div>C224</div><div>(16.30)</div><div>C225</div><div>(16.30)</div><div>C226</div><div>(16.30)</div><div>C227</div><div>(16.30)</div><div>C228</div><div>(16.30)</div><div>C229</div><div>(16.30)</div><div>C230</div><div>(16.30)</div><div>C231</div><div>(16.30)</div><div>C232</div><div>(16.30)</div><div>C233</div><div>(16.30)</div><div>C234</div><div>(16.30)</div><div>C235</div><div>(16.30)</div><div>C236</div><div>(16.30)</div><div>C237</div><div>(16.30)</div><div>C238</div><div>(16.30)</div><div>C239</div><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><div>(15.24)</div><div>C542</div><div>(15.24)</div><div>C543</div><div>(15.24)</div><div>C544</div><div>(15.24)</div><div>C545</div><div>(15.24)</div><div>C546</div><div>(15.24)</div><div>C547</div><div>(15.24)</div><div>C548</div><div>(15.24)</div><div>C549</div><div>(15.24)</div><div>C550</div><div>(15.24)</div><div>C551</div><div>(15.24)</div><div>C552</div><div>(15.24)</div><div>C553</div><div>(15.24)</div><div>C554</div><div>(15.24)</div><div>C555</div><div>(15.24)</div><div>C556</div><div>(15.24)</div><div>C557</div><div>(15.24)</div><div>C558</div><div>(15.24)</div><div>C559</div><div>(15.24)</div><div>C560</div><div>(15.24)</div><div>C561</div><div>(15.24)</div><div>C562</div><div>(15.24)</div><div>C563</div><div>(15.24)</div><div>C564</div><div>(15.24)</div><div>C565</div><div>(15.24)</div><div>C566</div><div>(15.24)</div><div>C567</div><div>(15.24)</div><div>C568</div><div>(15.24)</div><div>C569</div><div>(15.24)</div><div>C570</div><div>(15.24)</div><div>C571</div><div>(15.24)</div><div>C572</div><div>(15.24)</div><div>C573</div><div>(15.24)</div><div>C574</div><div>(15.24)</div><div>C575</div><div>(15.24)</div><div>C576</div><div>(15.24)</div><div>C577</div><div>(15.24)</div><div>C578</div><div>(15.24)</div><div>C579</div><div>(15.24)</div><div>C580</div><div>(15.24)</div><div>C581</div><div>(15.24)</div><div>C582</div><div>(15.24)</div><div>C583</div><div>(15.24)</div><div>C584</div><div>(15.24)</div><div>C585</div><div>(15.24)</div><div>C586</div><div>(15.24)</div><div>C587</div><div>(15.24)</div><div>C588</div><div>(15.24)</div><div>C589</div><div>(15.24)</div><div>C590</div><div>(15.24)</div><div>C591</div><div>(15.24)</div><div>C592</div><div>(15.24)</div><div>C593</div><div>(15.24)</div><div>C594</div><div>(15.24)</div><div>C595</div><div>(15.24)</div><div>C596</div><div>(15.24)</div><div>C597</div><div>(15.24)</div><div>C598</div><div>(15.24)</div><div>C599</div><div>(15.24)</div><div>C600</div><div>(15.24)</div></div>	<div><div>C601</div><div>(15.24)</div><div>C602</div><div>(15.24)</div><div>C603</div><div>(15.24)</div><div>C604</div><div>(15.24)</div><div>C605</div><div>(15.24)</div><div>C606</div><div>(15.24)</div><div>C607</div><div>(15.24)</div><div>C608</div><div>(15.24)</div><div>C609</div><div>(15.24)</div><div>C610</div><div>(15.24)</div><div>C611</div><div>(15.24)</div><div>C612</div><div>(15.24)</div><div>C613</div><div>(15.24)</div><div>C614</div><div>(15.24)</div><div>C615</div><div>(15.24)</div><div>C616</div><div>(15.24)</div><div>C617</div><div>(15.24)</div><div>C618</div><div>(15.24)</div><div>C619</div><div>(15.24)</div><div>C620</div><div>(15.24)</div><div>C621</div><div>(15.24)</div><div>C622</div><div>(15.24)</div><div>C623</div><div>(15.24)</div><div>C624</div><div>(15.24)</div><div>C625</div><div>(15.24)</div><div>C626</div><div>(15.24)</div><div>C627</div><div>(15.24)</div><div>C628</div><div>(15.24)</div><div>C629</div><div>(15.24)</div><div>C630</div><div>(15.24)</div><div>C631</div><div>(15.24)</div><div>C632</div><div>(15.24)</div><div>C633</div><div>(15.24)</div><div>C634</div><div>(15.24)</div><div>C635</div><div>(15.24)</div><div>C636</div><div>(15.24)</div><div>C637</div><div>(15.24)</div><div>C638</div><div>(15.24)</div><div>C639</div><div>(15.24)</div><div>C640</div><div>(15.24)</div><div>C641</div><div>(15.24)</div><div>C642</div><div>(15.24)</div><div>C643</div><div>(15.24)</div><div>C644</div><div>(15.24)</div><div>C645</div><div>(15.24)</div><div>C646</div><div>(15.24)</div><div>C647</div><div>(15.24)</div><div>C648</div><div>(15.24)</div><div>C649</div><div>(15.24)</div><div>C650</div><div>(15.24)</div><div>C651</div><div>(15.24)</div><div>C652</div><div>(15.24)</div><div>C653</div><div>(15.24)</div><div>C654</div><div>(15.24)</div><div>C655</div><div>(15.24)</div><div>C656</div><div>(15.24)</div><div>C657</div><div>(15.24)</div><div>C658</div><div>(15.24)</div><div>C659</div><div>(15.24)</div><div>C660</div><div>(15.24)</div><div>C661</div><div>(15.24)</div><div>C662</div><div>(15.24)</div><div>C663</div><div>(15.24)</div><div>C664</div><div>(15.24)</div><div>C665</div><div>(15.24)</div><div>C666</div><div>(15.24)</div><div>C667</div><div>(15.24)</div><div>C668</div><div>(15.24)</div><div>C669</div><div>(15.24)</div><div>C670</div><div>(15.24)</div><div>C671</div><div>(15.24)</div><div>C672</div><div>(15.24)</div><div>C673</div><div>(15.24)</div><div>C674</div><div>(15.24)</div><div>C675</div><div>(15.24)</div><div>C676</div><div>(15.24)</div><div>C677</div><div>(15.24)</div><div>C678</div><div>(15.24)</div><div>C679</div><div>(15.24)</div><div>C680</div><div>(15.24)</div><div>C681</div><div>(15.24)</div><div>C682</div><div>(15.24)</div><div>C683</div><div>(15.24)</div><div>C684</div><div>(15.24)</div><div>C685</div><div>(15.24)</div><div>C686</div><div>(15.24)</div><div>C687</div><div>(15.24)</div><div>C688</div><div>(15.24)</div><div>C689</div><div>(15.24)</div><div>C690</div><div>(15.24)</div><div>C691</div><div>(15.24)</div><div>C692</div><div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FrameBuffer: Partition A 16/32Mx32 BGA136 GDDR3 BOT M5 M6




Termination for Sub-Partition and CLK
MUST BE PLACED as close as possible to
the BGA memory on the line BEFORE the
MEMORY pin!!
Minimize the stub length!!

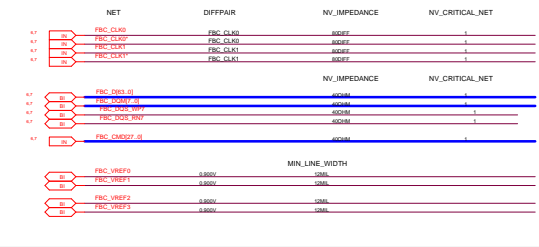
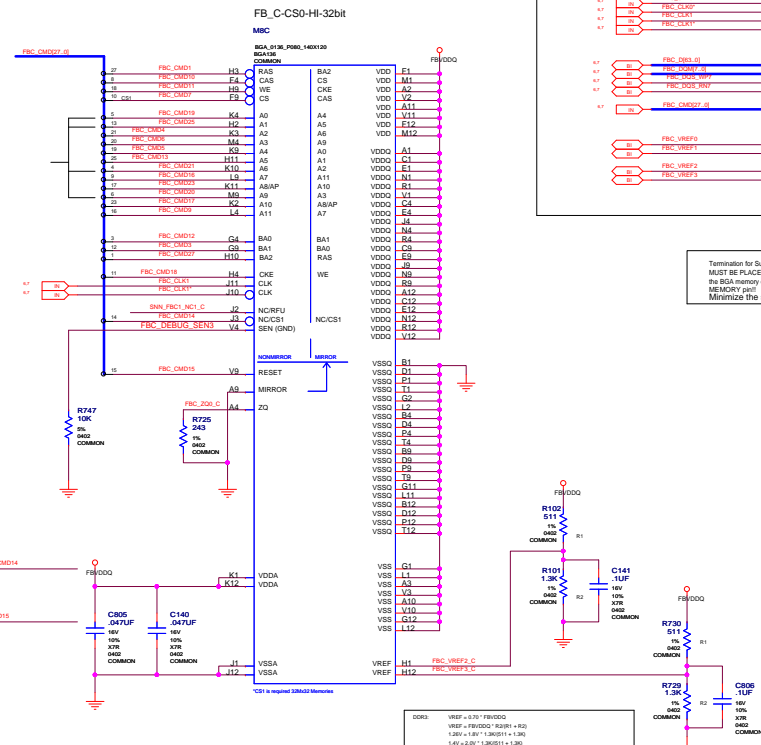
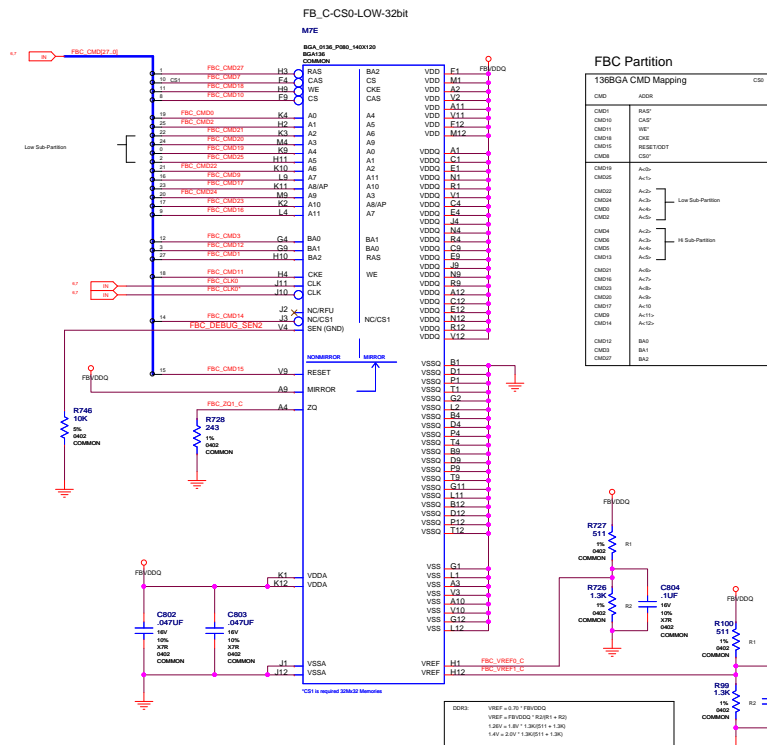


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA 16/32Mx32 GDDR3 MEMORIES, FBA COMMAND BUS PUS, FBA CLK TERMS

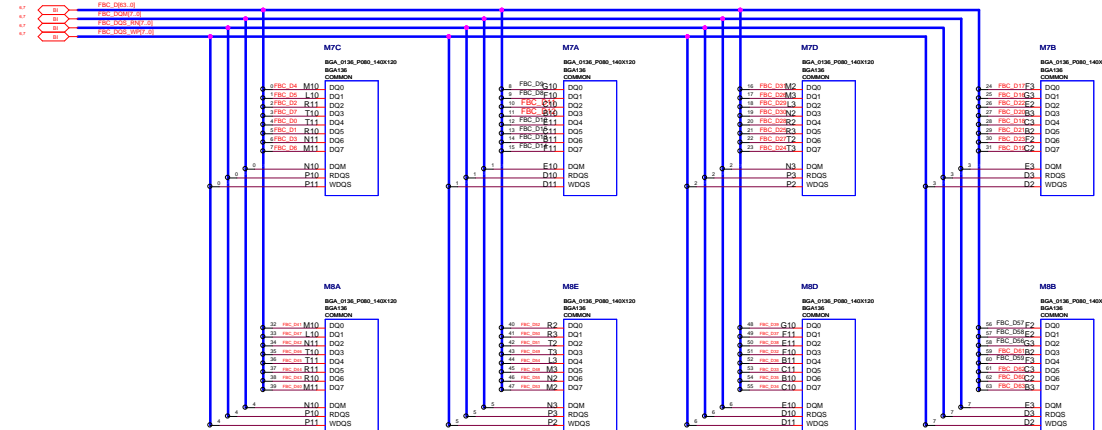
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FRAMEBUFFER: PARTITION C 16/32Mx32 BGA136 GDDR3 BOT M7 M8



Termination for Sub-Partition and CLK
MUST BE PLACED as close as possible to
the BGA memory on the line BEFORE the
MEMORY pin!!
Minimize the stub length!!



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
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