## P403-B00 DESIGN -- G84-200, 256 MB DDR2, DVI-I, VGA, HDTV

## PAGE SUMMARY:

Page 1: TABLE OF CONTENTS & REVISION HISTORY

Page 2: PCI EXPRESS 16X, NVVDD DECOUPLING CAPS,PEX\_IOVDD/Q DECOUPLING CAPS

Page 3: FBA MEMORY INTERFACE, GPU FBVDD/Q DECOUPLING CAPS, FBVTT TERMINATION

Page 4: FBA 16Mx16 DDR2 MEMORIES, BANK 0..31

Page 5: FBA 16Mx16 DDR2 MEMORIES, 1ST BANK 32..63

Page 6: FBC MEMORY INTERFACE, GPU FBVTT, FBVDDQ

Page 7: FBC 16MX16 DDR2 MEMORIES, 2ND BANK 0..31

Page 8: FBC 16Mx16 DDR2 MEMORIES, 2ND BANK 32..63

Page 9: DACA FILTERS, DACA SYNC BUFFERS & DB15 SOUTH

Page 10: DACC FILTERS, DACC SYNC BUFFERS & DB15 MID

Page 12: TMDS LINK C

Page 13: MIOA & MIOB

Page 14: DACB FILTERS, SYNC STRIPPER, MINIDIN CONNECTOR NORTH, HDTV HEADER

Page 15: GPU GND CONNECTION, XTAL

Page 16: JTAG, BIOS ROM, HDCP ROM, FAN CONTROL, GPIO

Page 17: SPDIF

Page 18: BIOS STRAPS & MECHANICALS

Page 19: POWER SUPPLY: TMDS IOVDD,5V,A3V3

Page 21: PowerSupplyl: NVVDD Page 22: PowerSupplyIII: FBVDDQ, PLLVDD **REV HISTORY** 

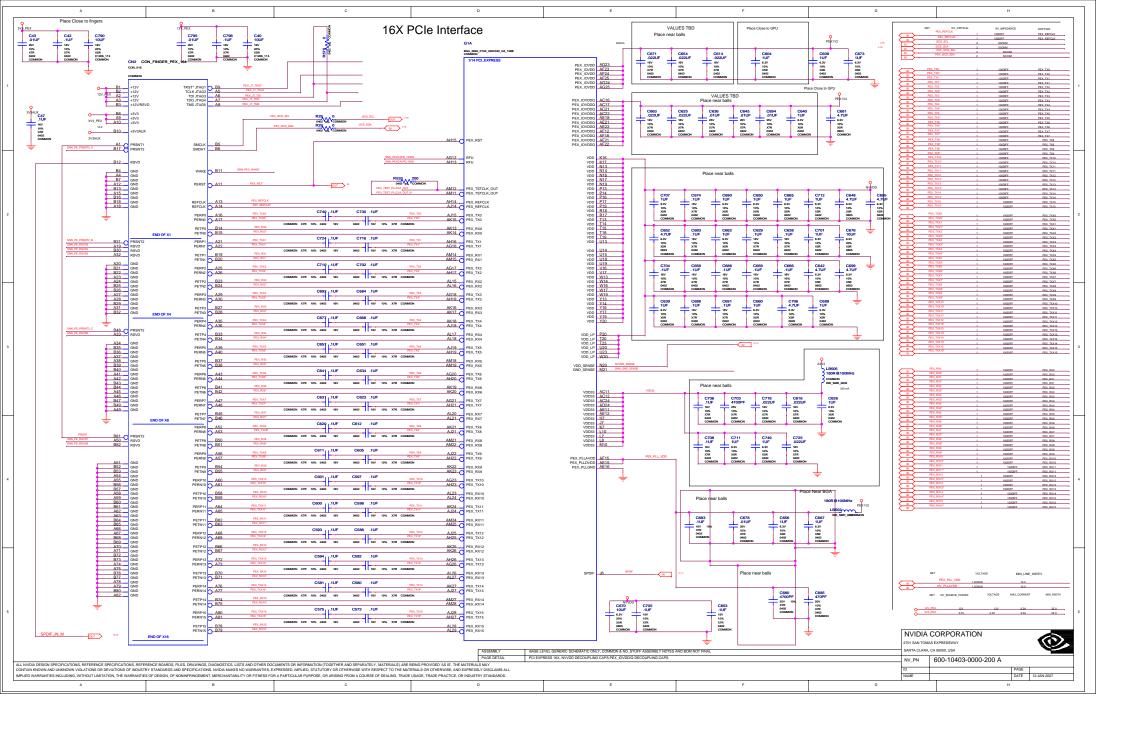
96/10/30 Design change to G84-G53 Large size 8400GS circuit PCB LP costdown version

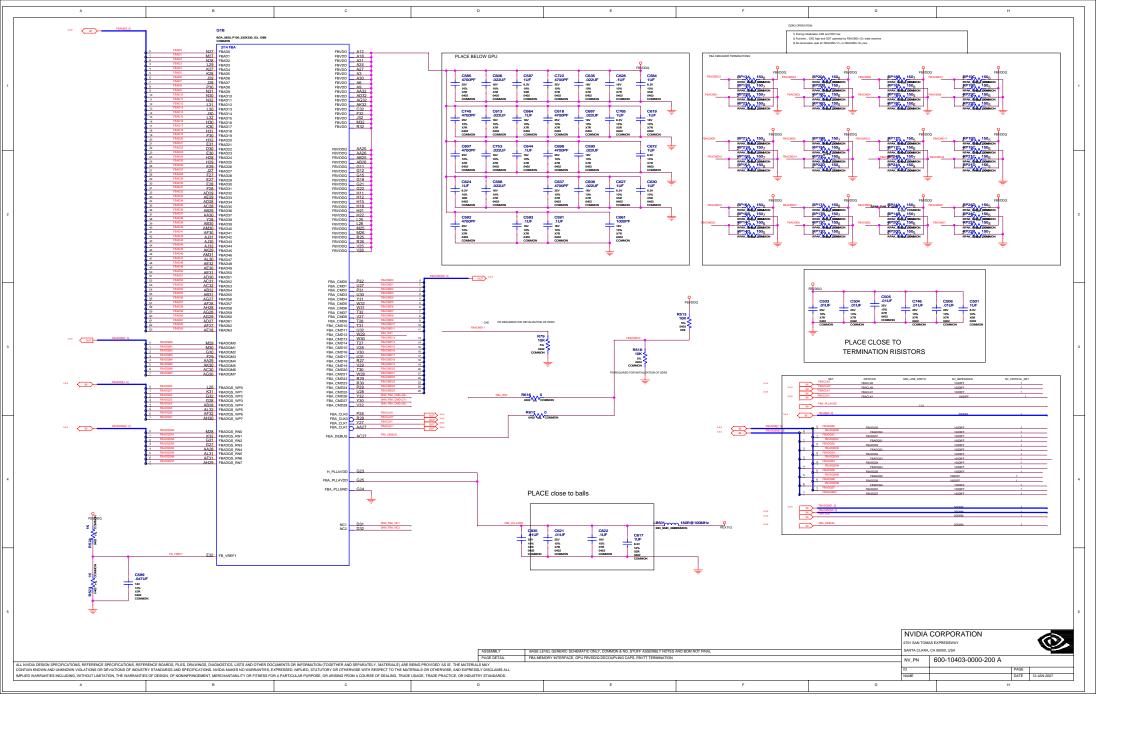
- 1. Remove FBC 2ND 0..63
- 2. Remove TMDS C HDMI circuit
- 3. Remove SCART function form DACB
- 4. Change Fancontrol func to Direct driver
- 5. Change FBVDDQ PWM power solution to 431 LDO solution

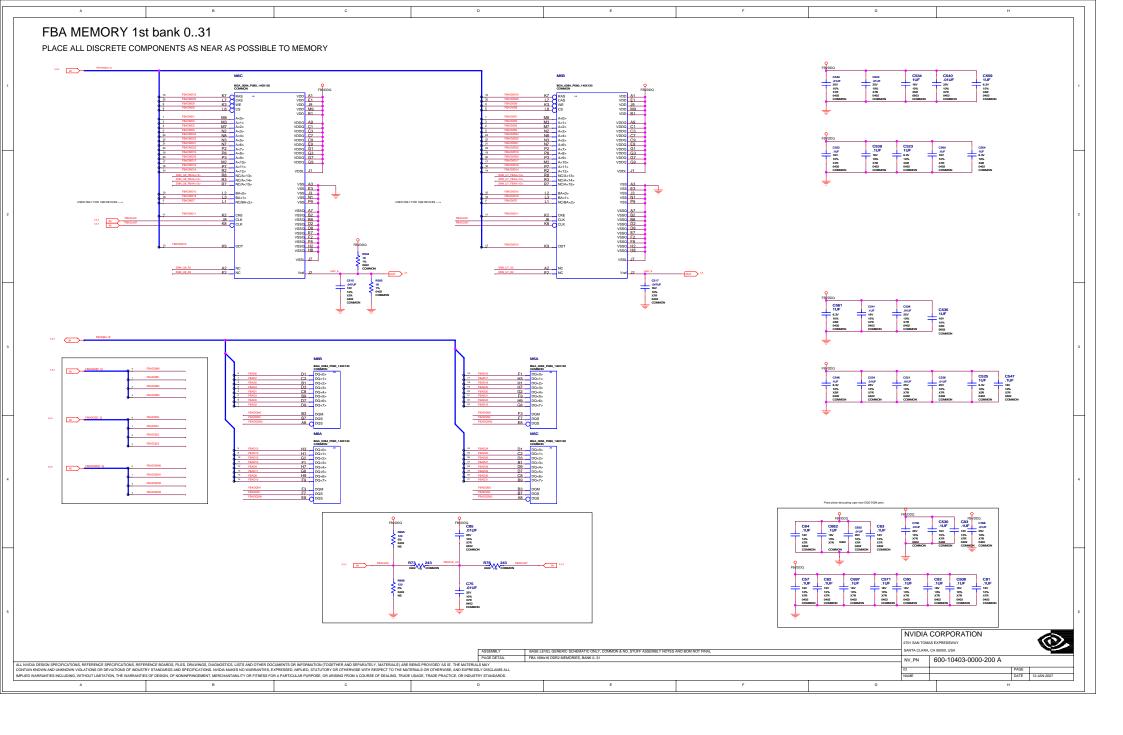
sxu	VARIANT	NVPN	ASSEMBLY
В	BASE	600-10403-0000-200	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0020	600-10403-0020-200	P403-B00 G86-300 459/400MHz 256MB 16Mx16 BGA84 GDDR2 DVI-I-DL+VGA+HDTV-Out
2	SKU0021	600-10403-0021-200	P403-800 G84-200 459/400MHz 256MB 16Mx16 BGA84 GDDR2 DVI-I-DL+VGA+HDTV-Out
3	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
4	<undefined></undefined>	<undefined></undefined>	<pre></pre>
5	<undefined></undefined>	<undefined></undefined>	<un> <undefineds< td=""></undefineds<></un>
6	<undefined></undefined>	<undefined></undefined>	<pre></pre>
7	<undefined></undefined>	<undefined></undefined>	<un> <undefineds< td=""></undefineds<></un>
8	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
9	<undefined></undefined>	<undefined></undefined>	<pre></pre>
10	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
11	<undefined></undefined>	<undefined></undefined>	<pre></pre>
12	<undefined></undefined>	<undefined></undefined>	<pre></pre>
13	<undefined></undefined>	<undefined></undefined>	<un> <undefineds< td=""></undefineds<></un>
14	<undefined></undefined>	<undefined></undefined>	<pre></pre>
15	<undefined></undefined>	<undefined></undefined>	<un> <undefineds< td=""></undefineds<></un>

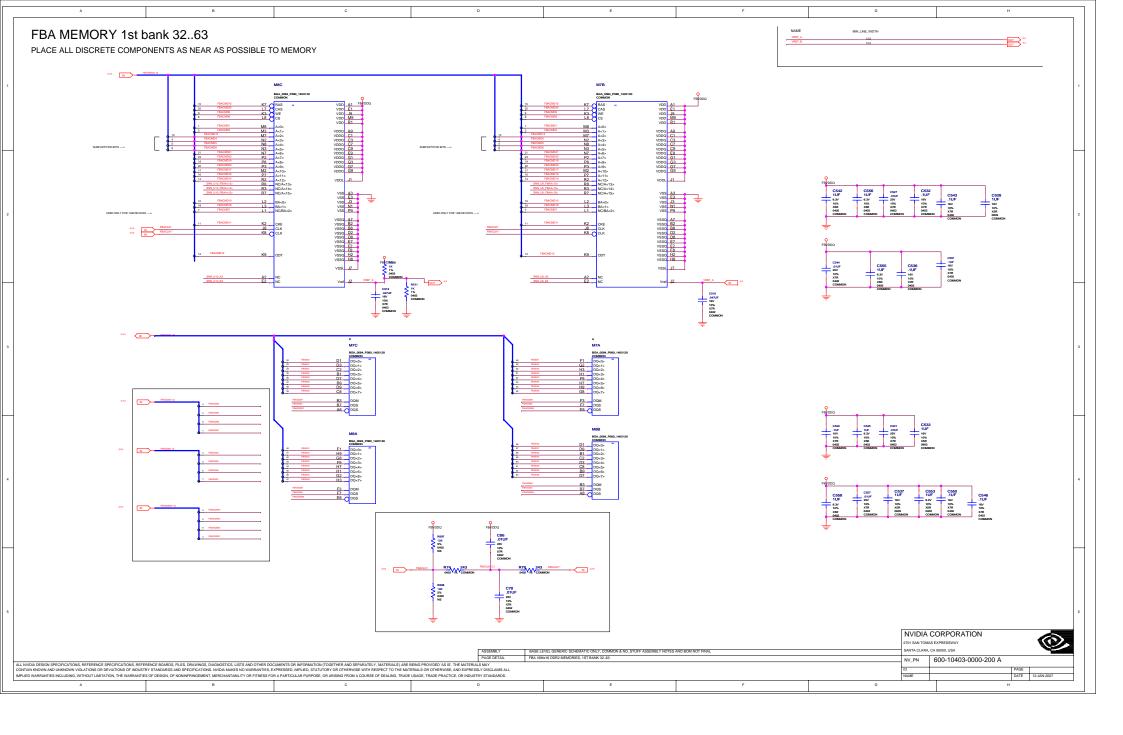
NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWA SANTA CLARA, CA 95050, USA PAGE DETAIL TABLE OF CONTENTS & REVISION HISTORY 600-10403-0000-200 A NV\_PN

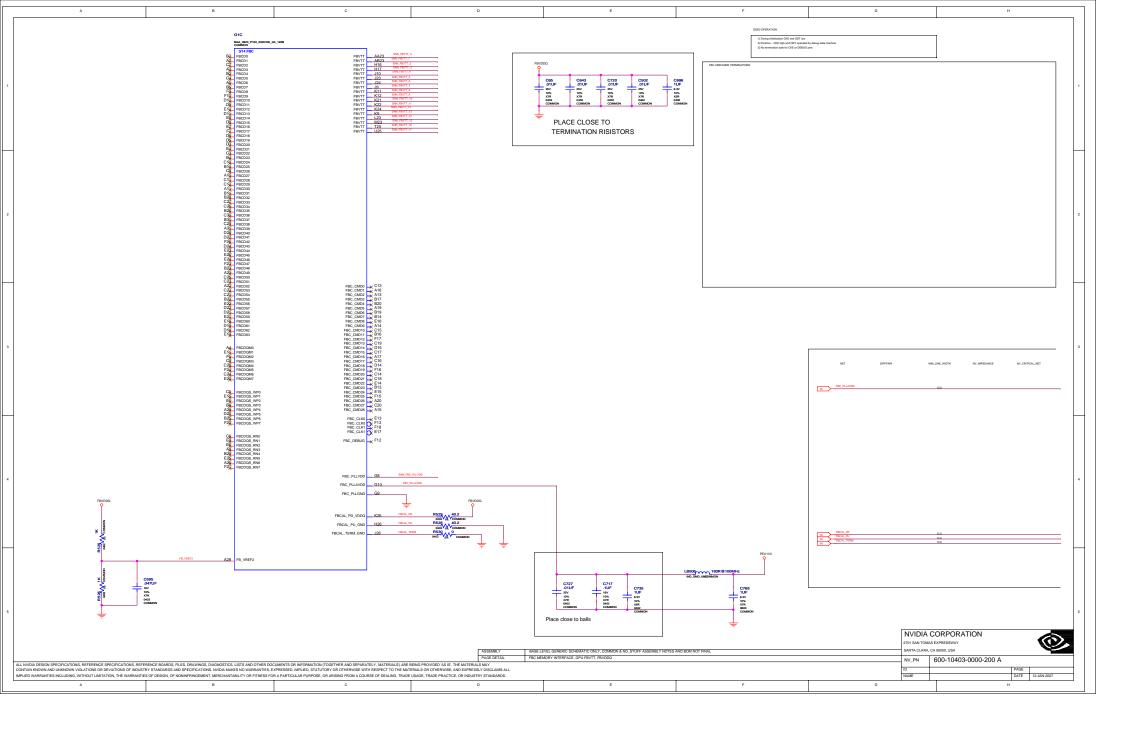
ALL MICHA DEBIGN SPCIPICATIONS, REFERENCE SPECIFICATIONS, REFERENCE SOARDS, FLES, DRIVINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (FOGETHER AND SEPARATELY, MATERIALS) ARE SEING PROVIDED AS IS: THE MATERIALS MAY CONTAIN MONIN AND UNKNOWN ON UNATIONS OR DEVELOTIONS OF REAL PROVIDED AS IS: THE MATERIALS AND OTHER DOCUMENTS OR THE MATERIALS OF REAL PROVIDED AS IS: THE MATERIALS AND OTHER DOCUMENTS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND OTHER DOCUMENTS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND OTHER DOCUMENTS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIALS AND ADMINISTRATION OF REAL PROVIDED AS IS: THE MATERIAL

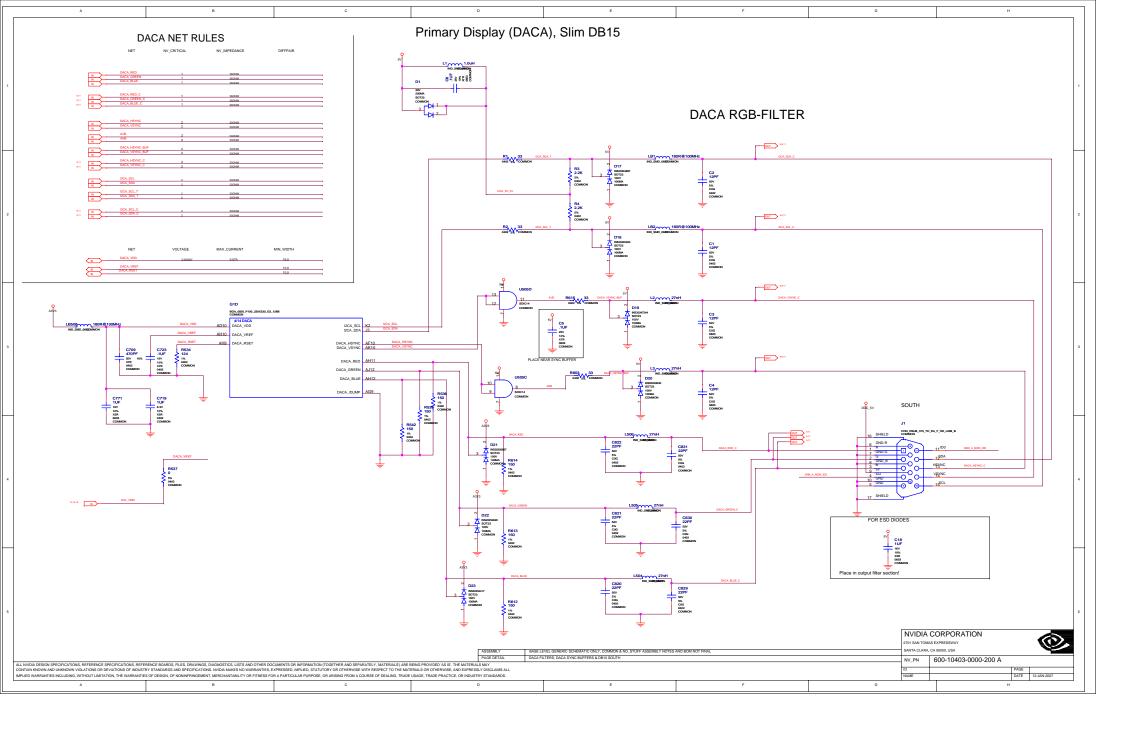


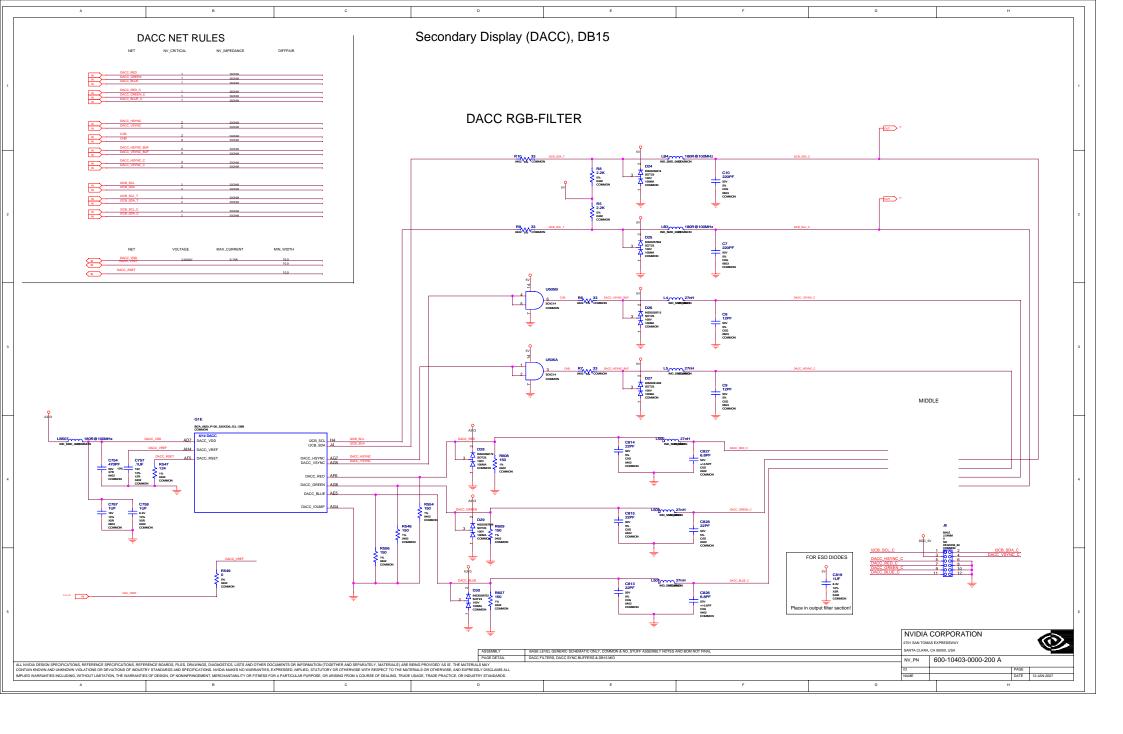


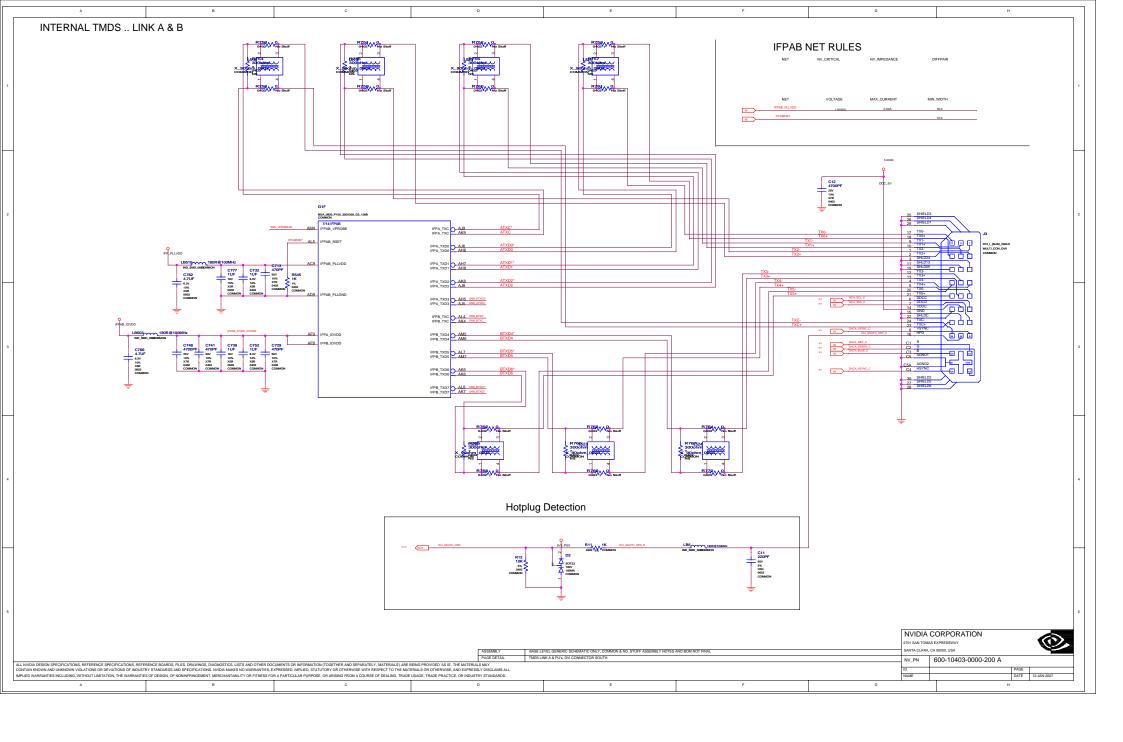


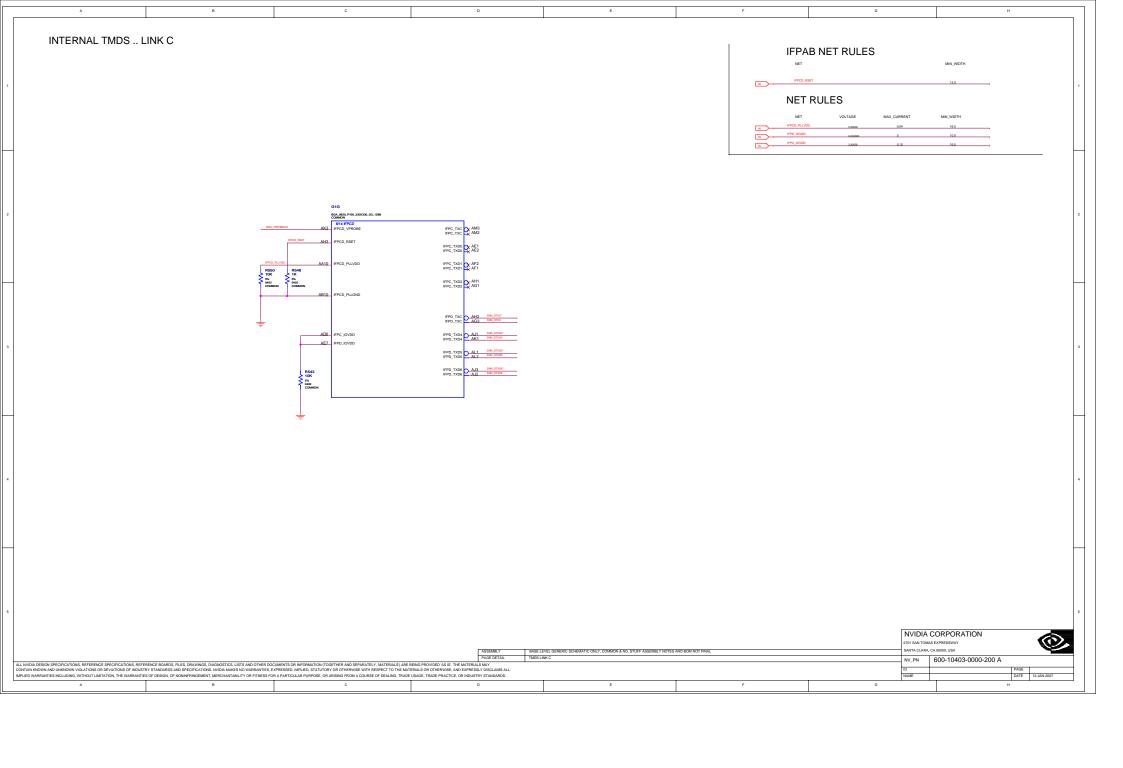


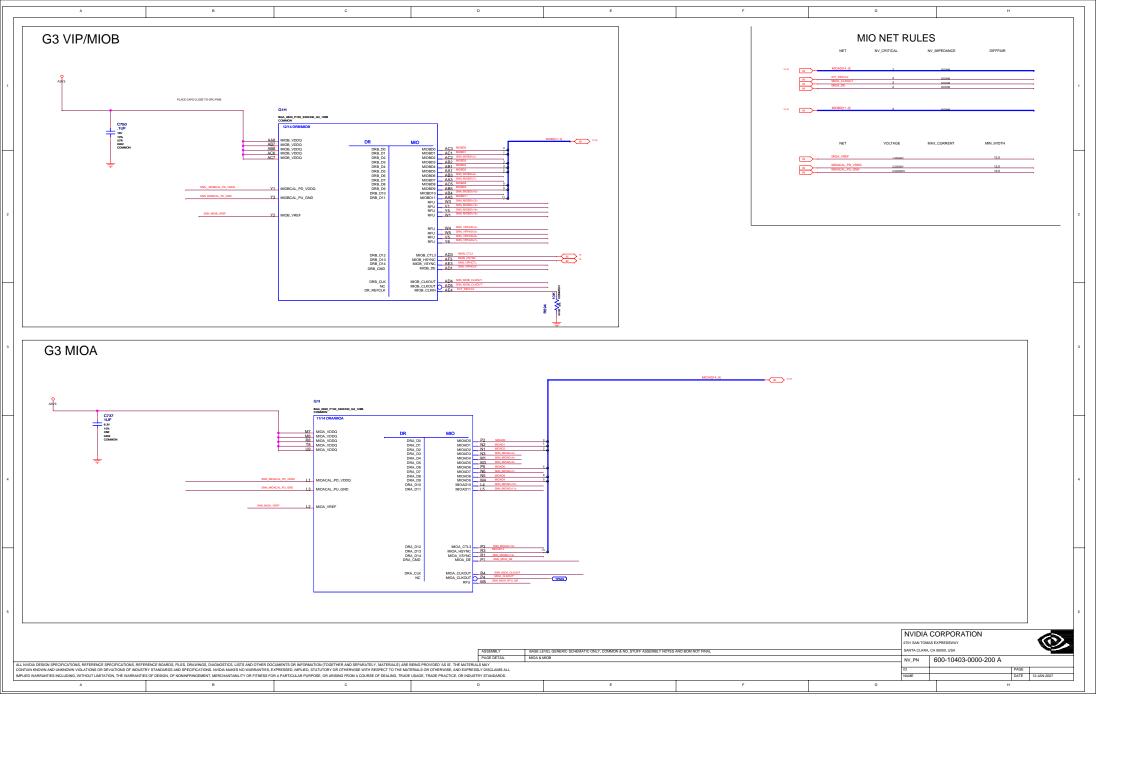


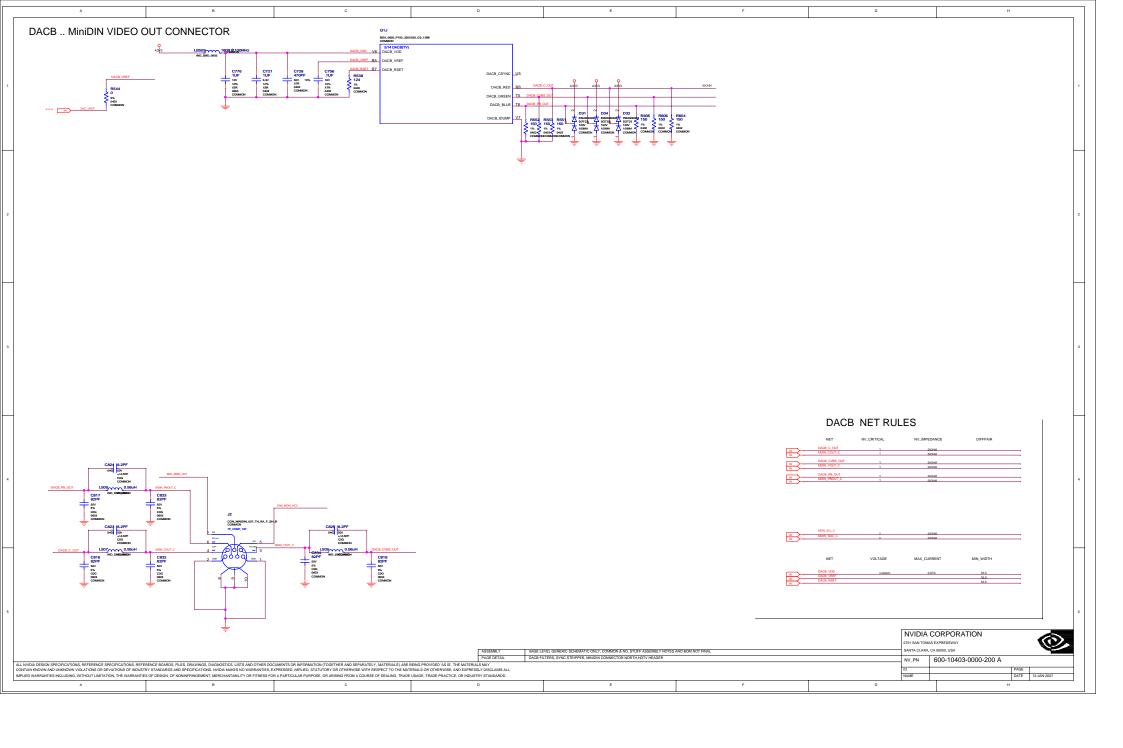


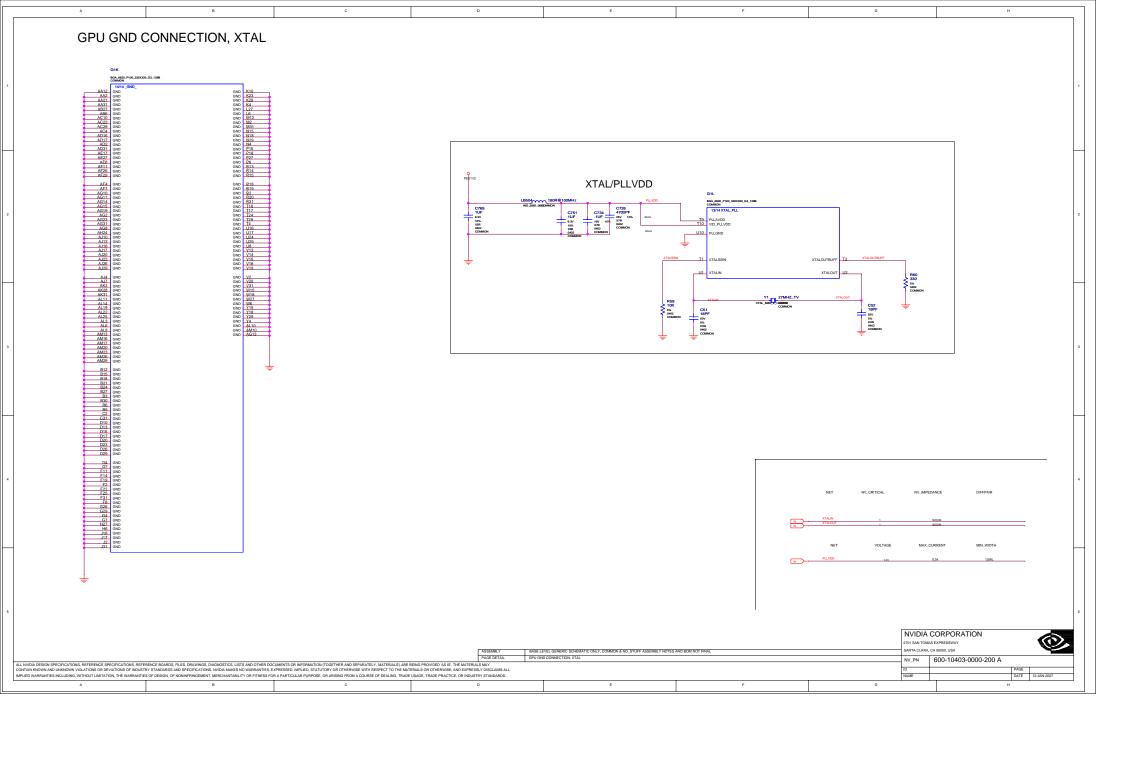


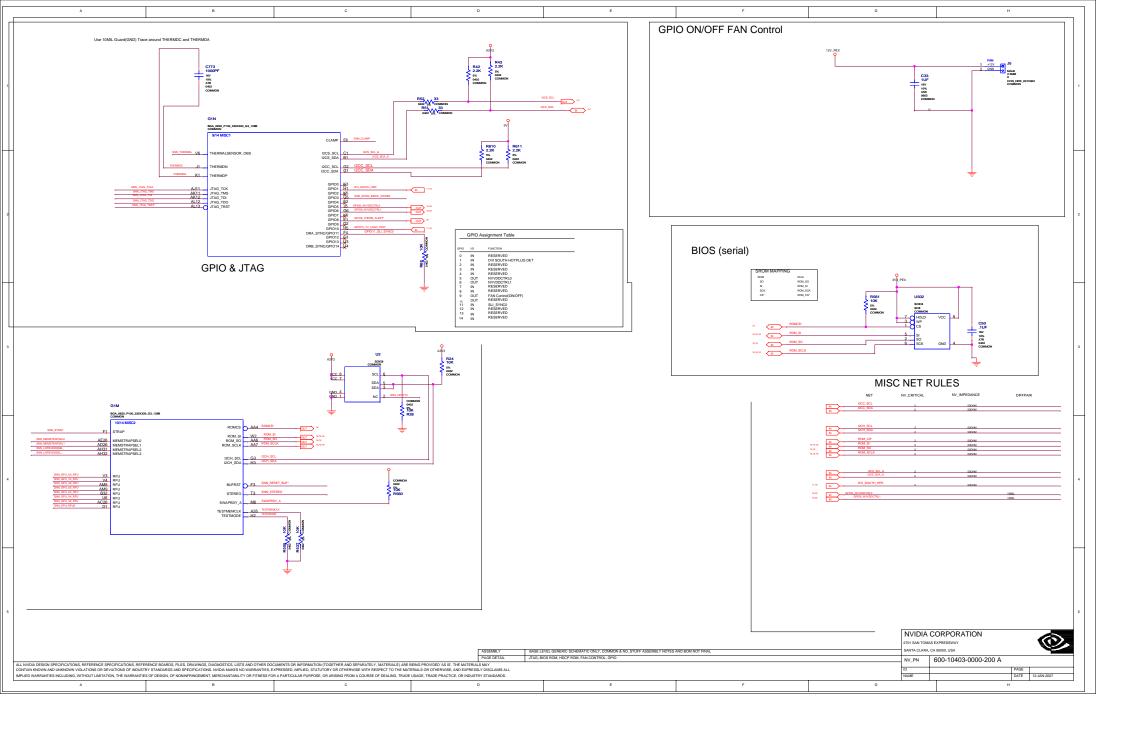


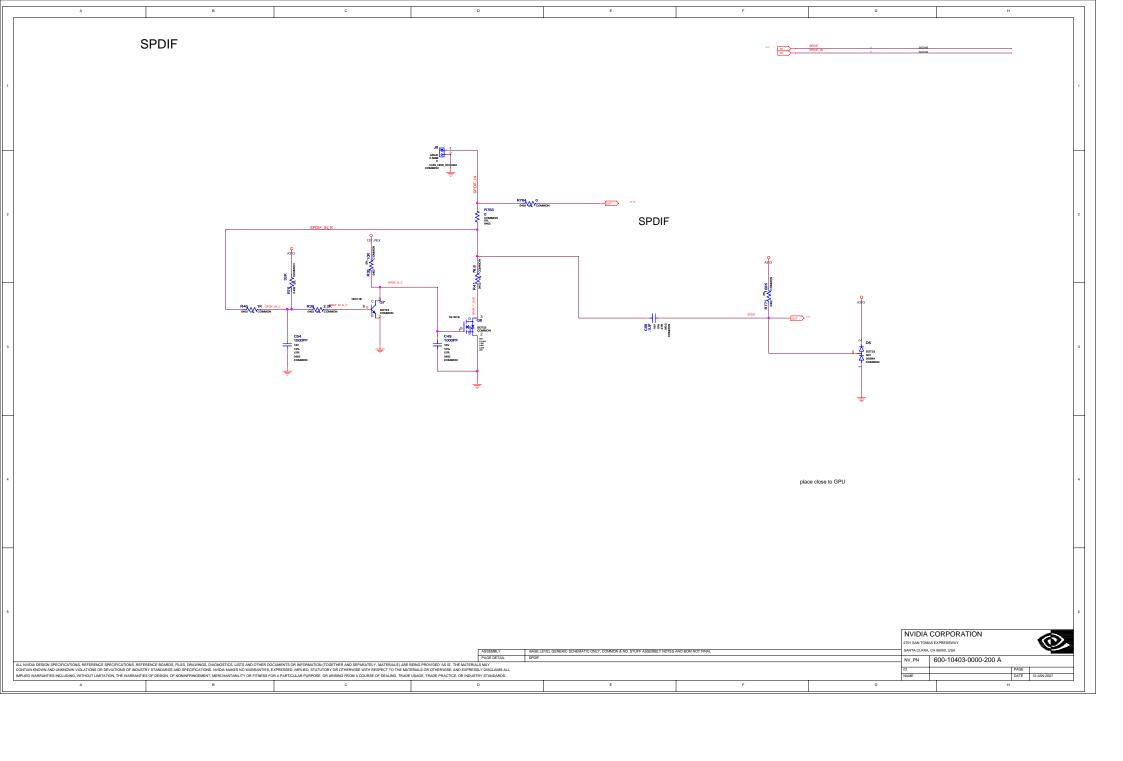


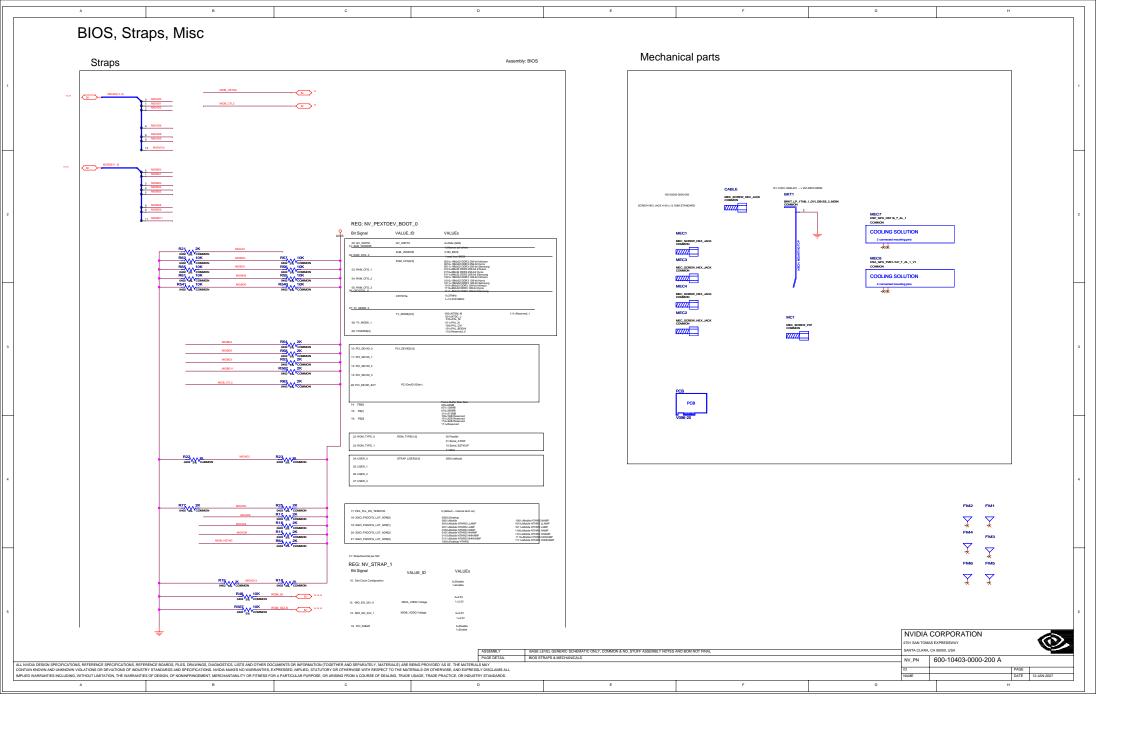


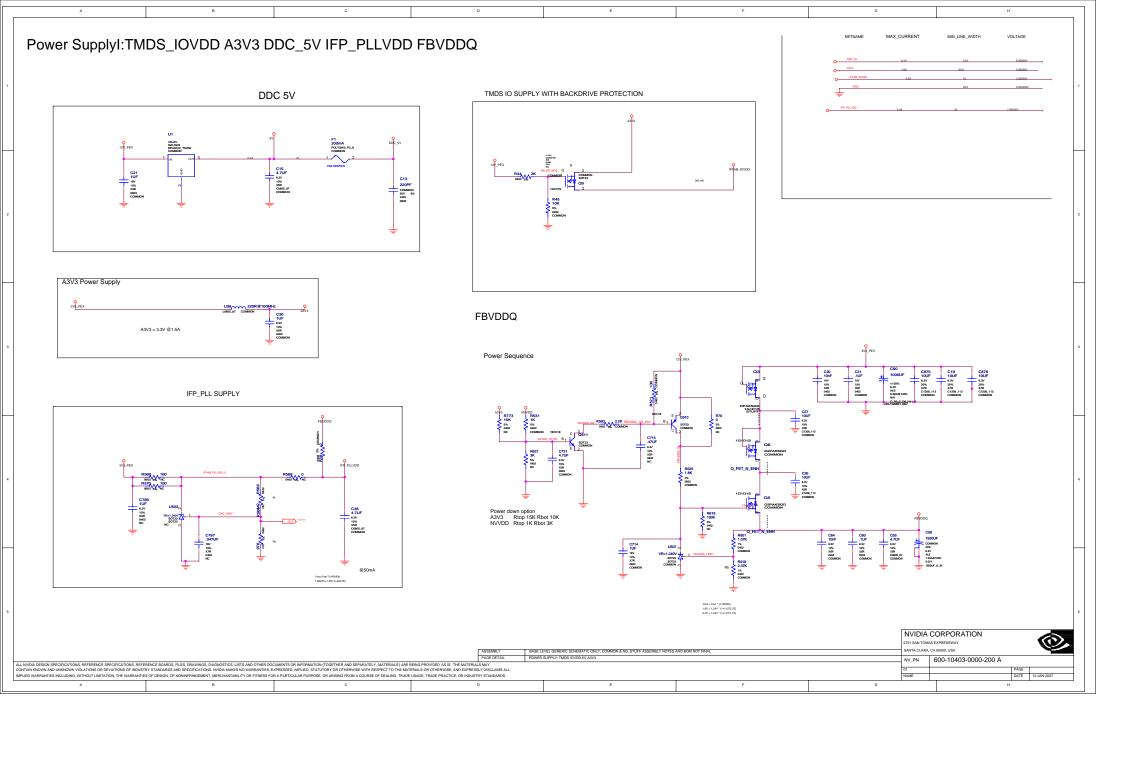




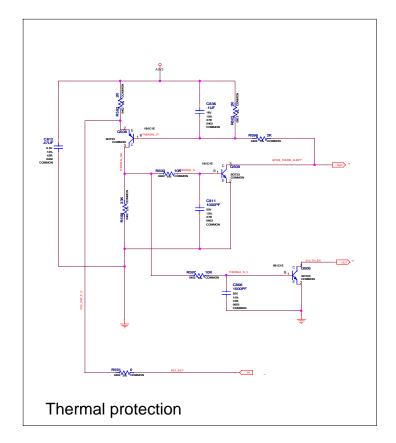


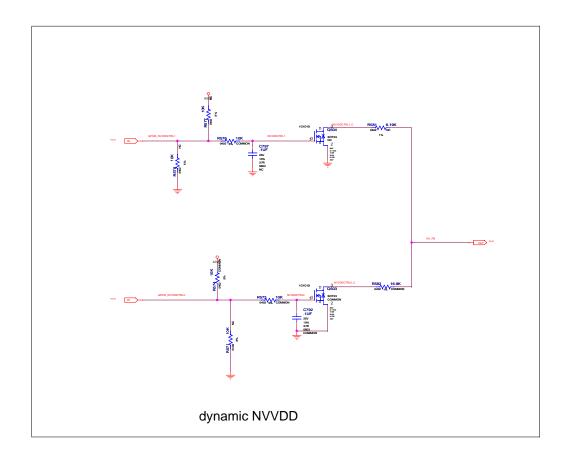






## thermal protection and dynamic NVVDD





										<b>る</b>
ASSEMBLY BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO, STUFF ASSEMBLY NOTES AND BOM NOT FINAL								SANTA CLARA, CA 95050, USA		
			PAGE DETAIL them	thermal protection and dynamic NVVDD				600-10403-0000-200 A		
IONS, REFERENCE SPECIFICATIONS, REFER		1								
IN VIOLATIONS OR DEVIATIONS OF INDUSTR	IID I	PAGE								
IG, WITHOUT LIMITATION, THE WARRANTIES	NAME	DATE	12-JAN-2007							
A	В	С	D	E	F	G		Н		

