P684-A01 GT216 DESKTOP Low Profile PCI-EXPRESSx16 DL-DVI HDMI VGA DDR3

- Page 1: P684-A01 OVERVIEW
- Page 2: PCI-EXPRESS INTERFACE
- Page 3: PARTITION A FRAME BUFFER INTERFACE
- Page 4: PARTITION A MEMORIES
- Page 5: FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS
- Page 6: PARTITION C FRAME BUFFER INTERFACE
- Page 7: PARTITION C MEMORIES
- Page 8: FBC DECOUPLING CAPS
- Page 9: DACA (SOUTH DVI-I)
- Page 10: DACB (cable up VGA)
- Page 11: IFP AB (SOUTH DVI-I)
- Page 12: IFP C (NORTH HDMI)
- Page 13: IFP D (UNUSED)
- Page 14: IFP EF (UNUSED)
- Page 15: MIOA & MIOB
- Page 16: XTAL, MECHANICALS, THERMALS
- Page 17: FAN CONTROL, GPIO, JTAG
- Page 18: BIOS ROM, HDCP ROM, STRAPPING OPTIONS
- Page 19: LINEAR POWER SUPPLIES
- Page 20: FBVDDQ/PEXVDD POWER SUPPLY
- Page 21: NVVDD POWER SUPPLY



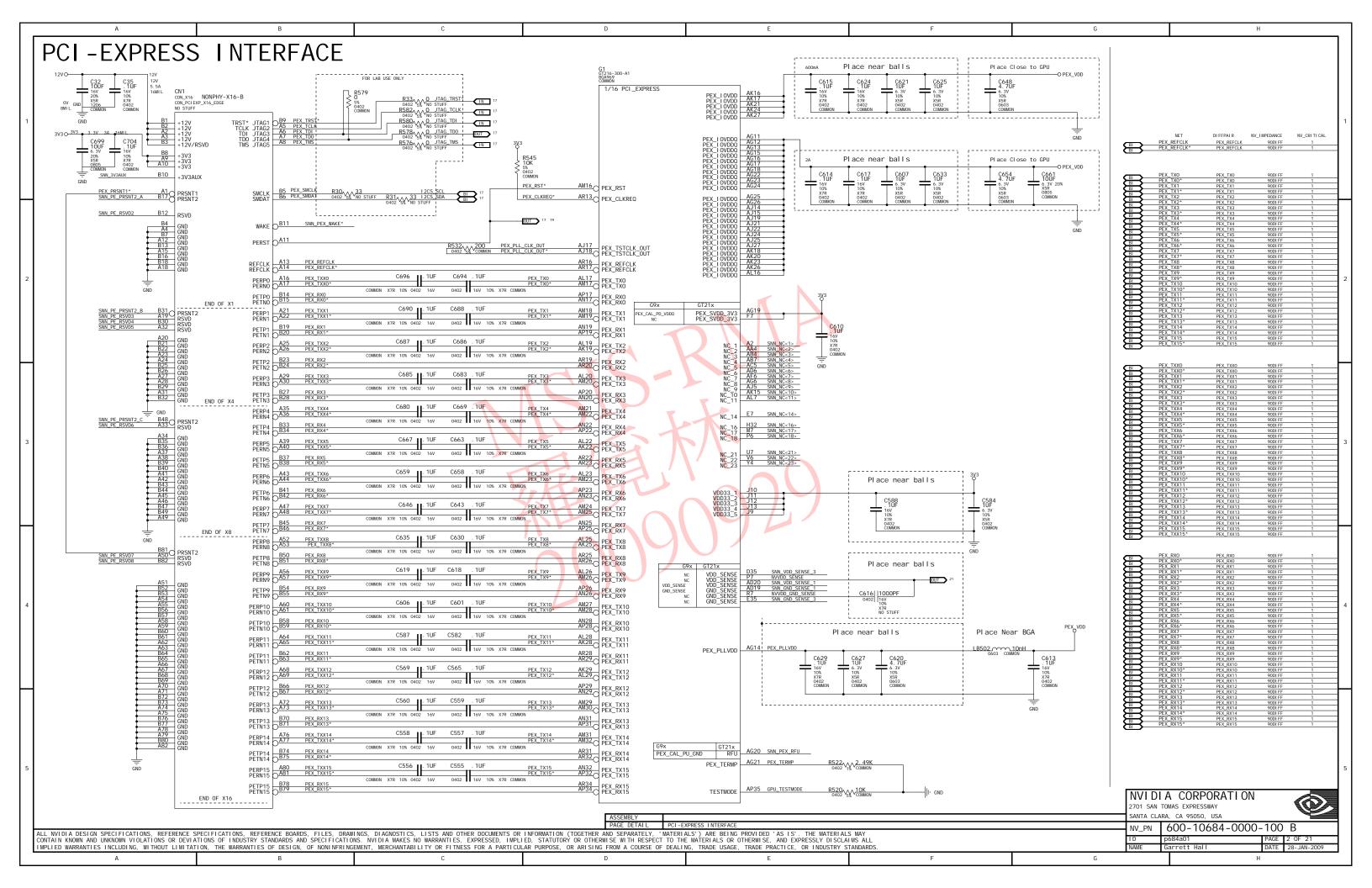
| SKU | VARI ANT | NVPN | ASSEMBLY |
|--|--|--|--|
| B 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | CUNDEFI NED> CUNDEFI NED> | 600-10684-base-100 600-10684-0000-100 «UNDEFI NED> «UNDEFI NED» | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL GT216-350 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/DP/HDMI/VGA <undefi ned=""> <undefi ned=""></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi></undefi> |

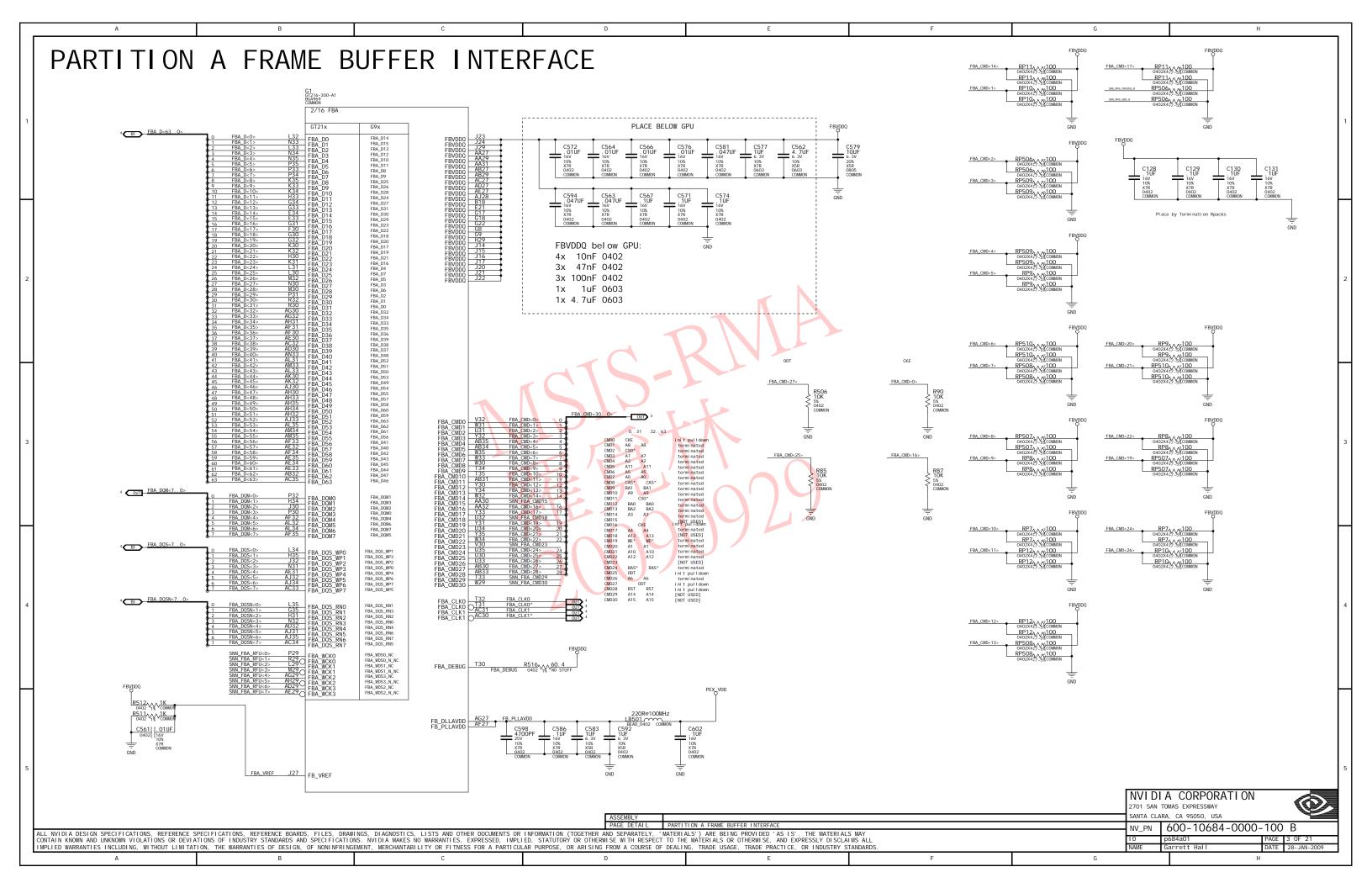
| 11/11 | ы | ۸ | CODDODATION | |
|-------|----|---|--------------|--|
| NVI | וט | А | CORPORATI ON | |

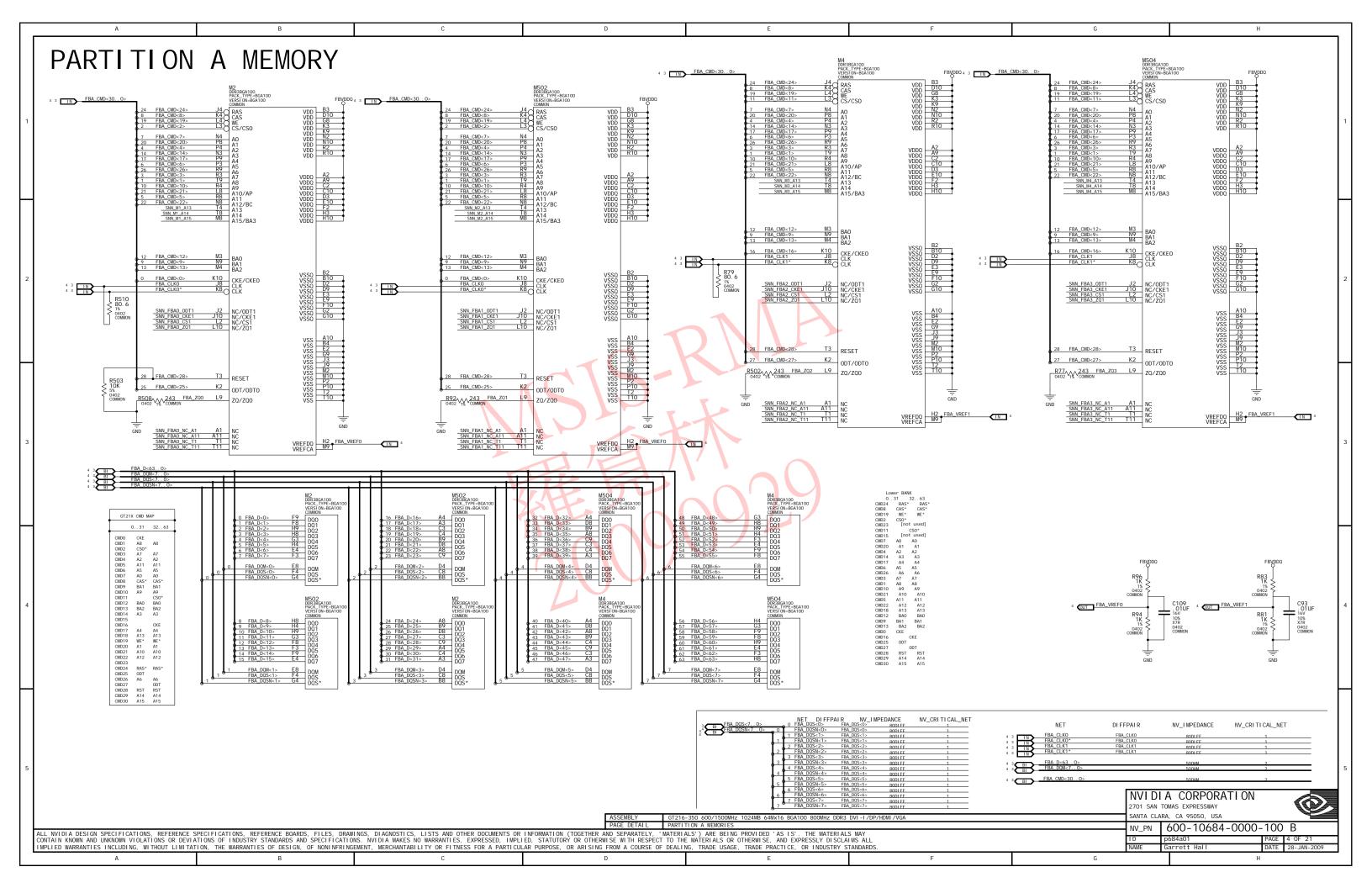
2701 SAN TOMAS EXPRESSWAY

SANTA CLARA CA 95050 LISA

600-10684-0000-100 B

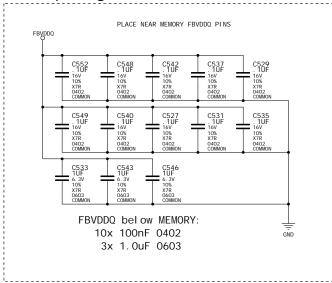




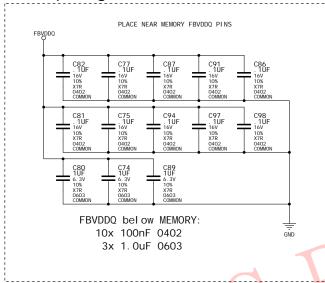


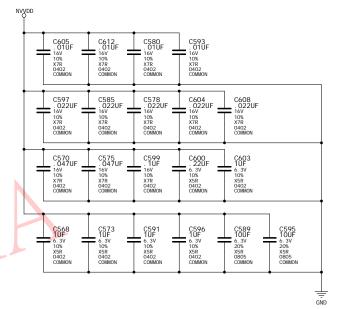
FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

Decoupling for FBA 0..15

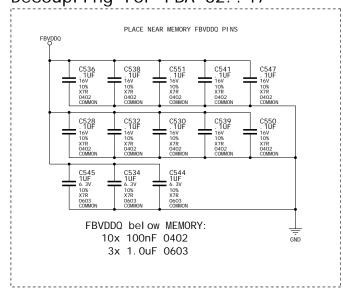


Decoupling for FBA 16..31

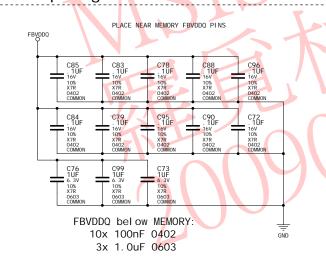




Decoupling for FBA 32..47

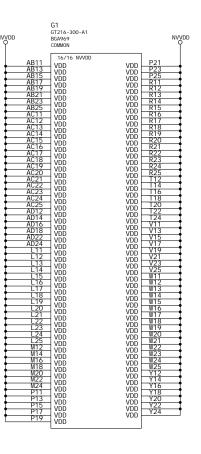


Decoupling for FBA 48..63



NVVDD under GPU:

4x 0.01uF 0402 X7R 4x 0.01uF 0402 X7R 5x 0.022uF 0402 X7R 2x 0.047uF 0402 X7R 1x 0.1uF 0402 X7R 1x 0.22uF 0402 X7R 4x 1.0uF 0402 X5R 1x 2.2uF 0402 X5R 2x 10uF 0805 X5R

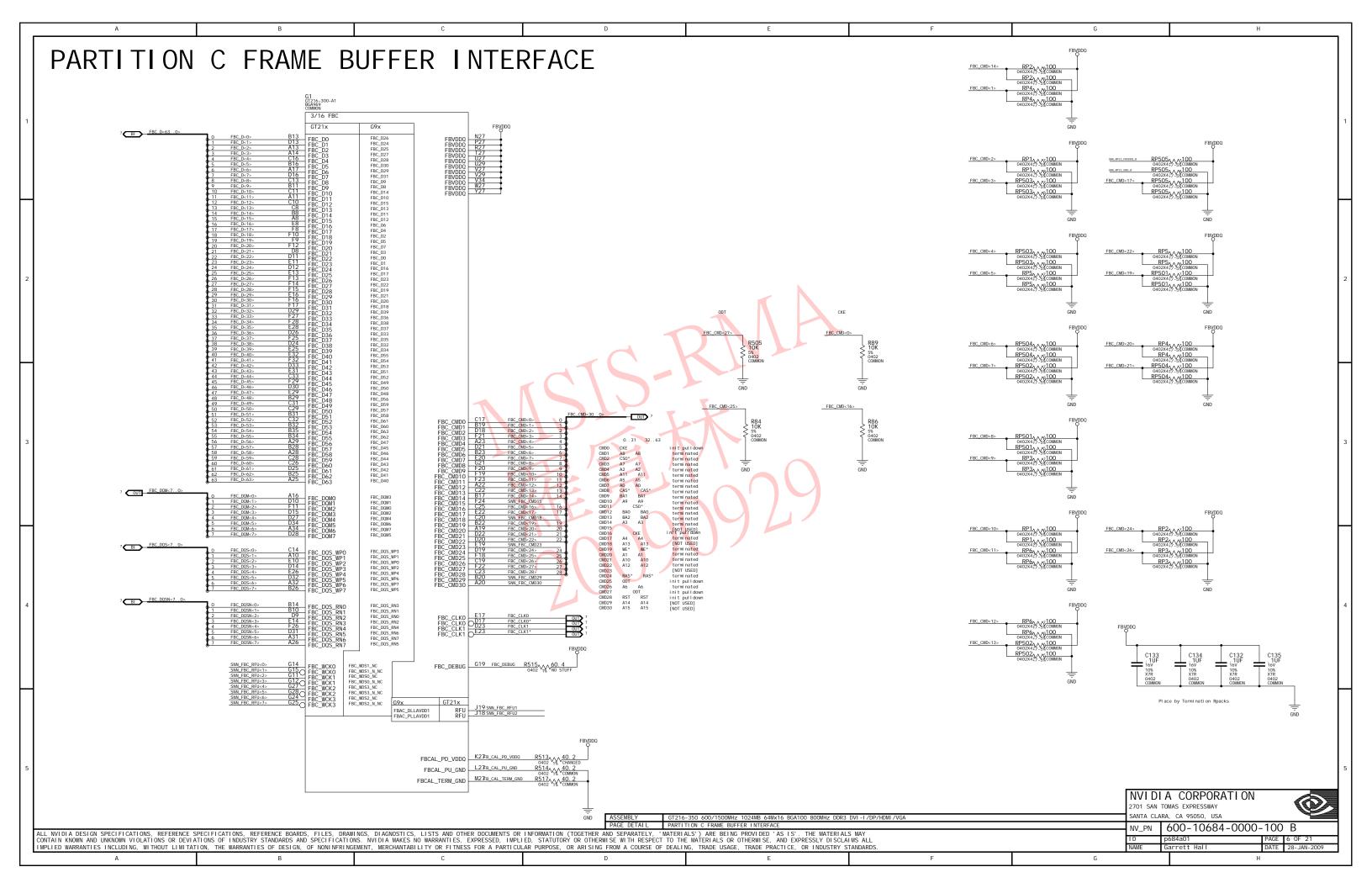


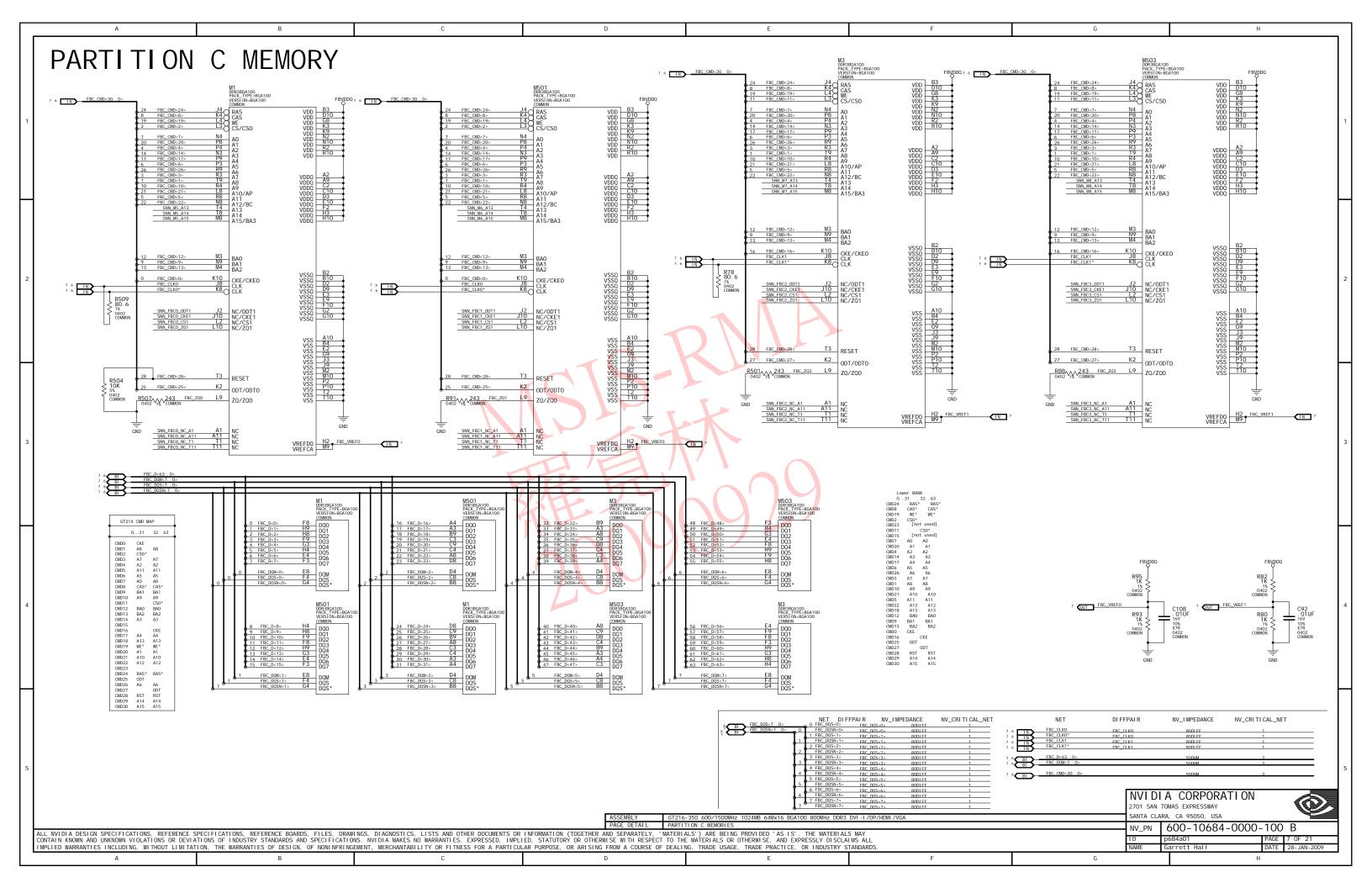
NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY

SANTA CLARA, CA 95050, USA 600-10684-0000-100 B

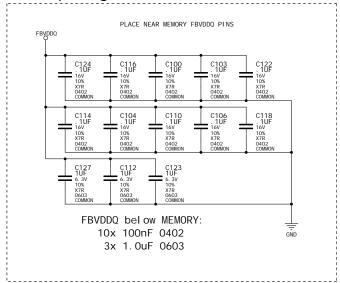
ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS



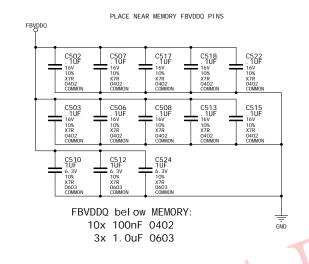


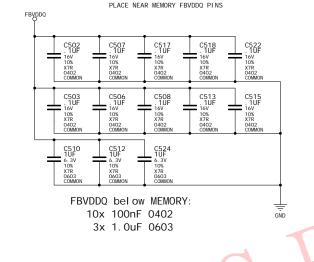
FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

Decoupling for FBC 0..15

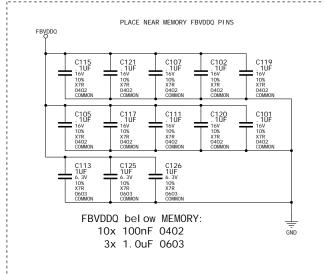


Decoupling for FBC 16..31

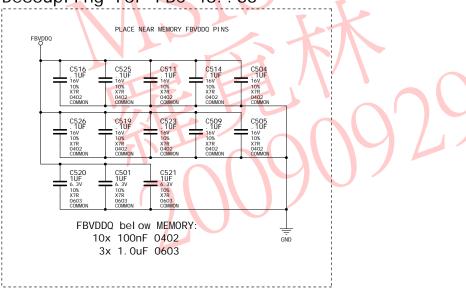


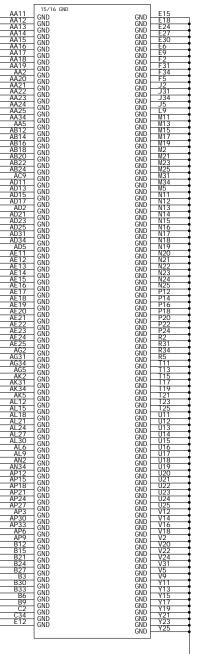


Decoupling for FBC 32..47



Decoupling for FBC 48..63





NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY

SANTA CLARA, CA 95050, USA

600-10684-0000-100 B

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS

