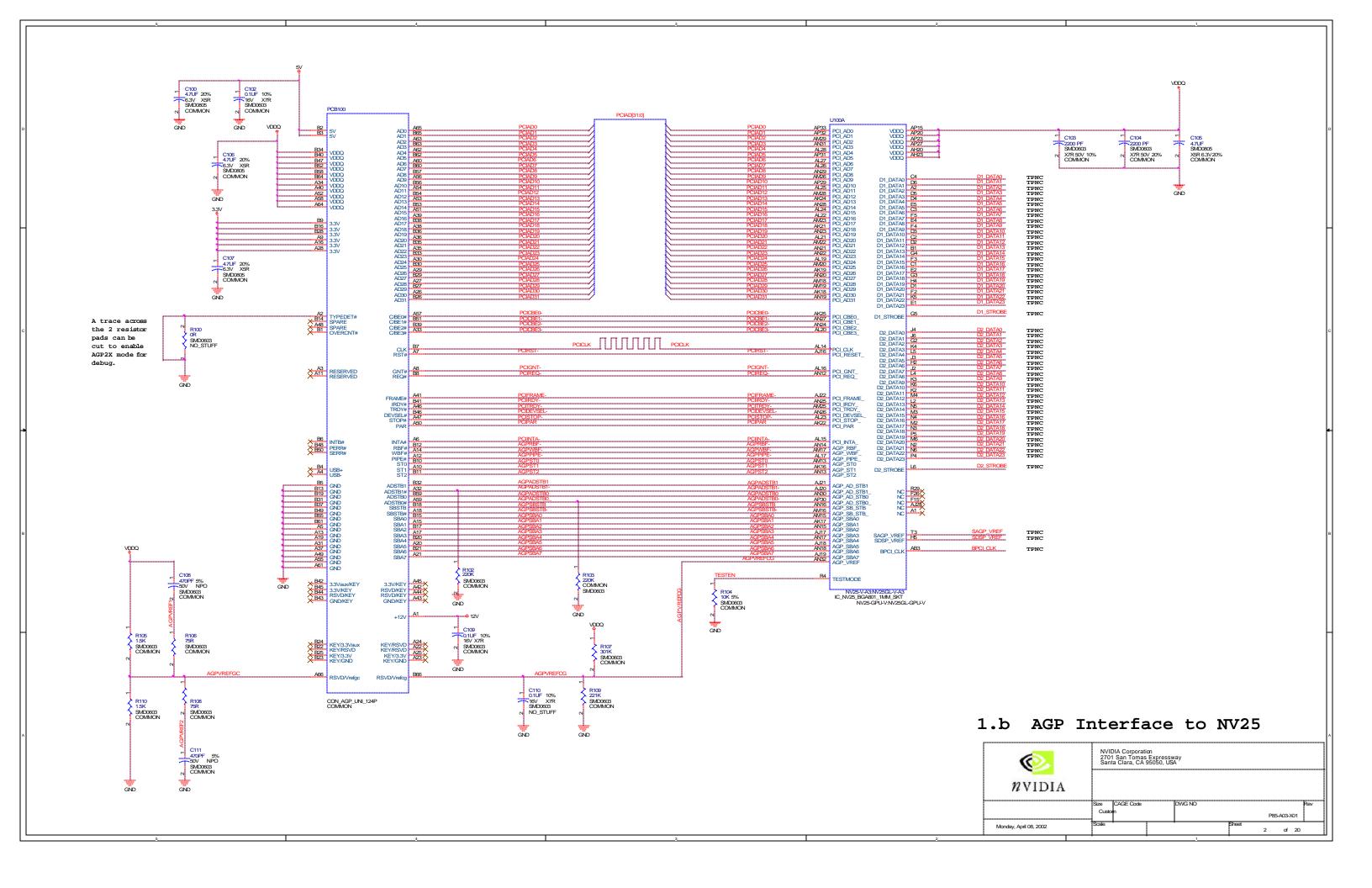
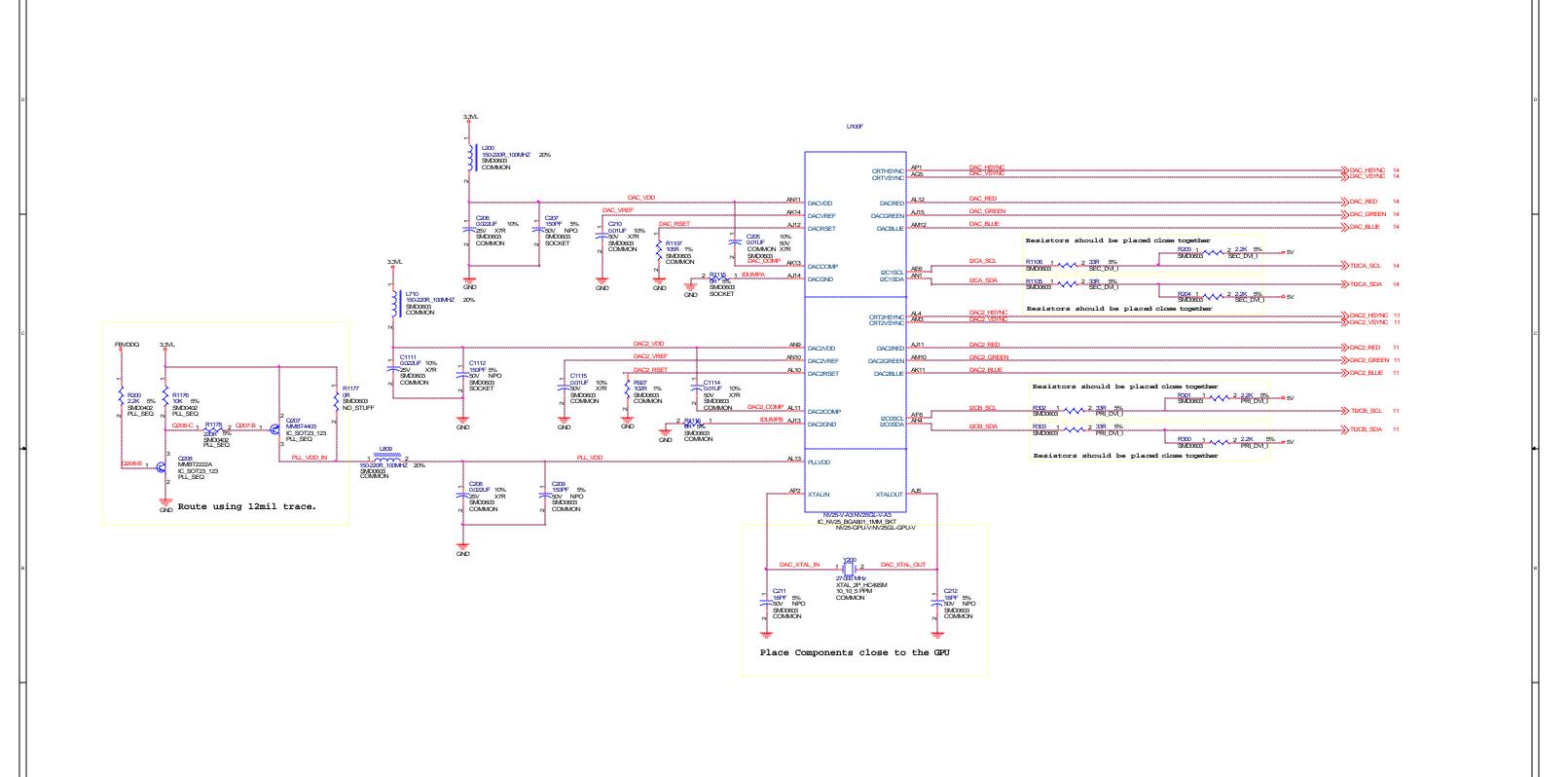
## Description Revision History Sub Assemblies 1. Clean-up .. BOM / Assemblies COMMON Components are stuffed for all SKUs 1. 75% if this design is taken from P86. GPU, Memory, Power 2....NO netlist changes NO\_STUFF Components are not stuffed 3. X-Release PRI DVI I Components stuffed for Primary VGA PRI\_PROT Components stuffed for Primary Protection 1. Removed the following: U182, P602, Hydra SEC\_DVI\_I Components stuffed for Secondary DVI 1. Changed R1139 to NO\_STUFF Assembly SEC PROT Components stuffed for Secondary Protection 2. Changed R1141 to NO\_STUFF Assembly 1. Added the CX25871 (Encoder - TV OUT) circuit AGP3VFBDQ Components stuffed for AGP 3.3V to FBVDD 3. Changed R1140 to COMMON Assembly 2. Renamed the ref.des-es for the VIVO and TV-Out circuits. FBVDD-FBDQ Components stuffed for FBVDDQ 2.5V to FBVDD 4. Removed R1118 (pull-up to GPUPWR\_GD) 3. Replaced the FBx\_CS1- nets with FBx\_CS0- on the memory devices PLU-SEO Components stuffed for PLL Sequence 5. Changed values of R1072 and R2072 to 1K (where x = A.B.C.D) 6. Changed net of R2142.2 from 5V to 12V PWR-SEO Components stuffed for Power Sequence X03 7. Changed net of R2075 from FBVDD to FBVDDQ PWR-SEQ-BP Components stuffed for Power Sequence By-PASS Added R1248 8. Changed stuffing options for STRAP\_FB[1:0] NVVDD-2602 Components stuffed for NVVDD Power Corrected nets 9. Corrected the NVPN for the following: FBVDD-2602 Components stuffed for FBVDD Power x04 L816 through L818 SC1541 Components stuffed for 3.3VL Fixed 1. Corrected the footprint for P300 10. Changed C2240 to 1.0uF SC1565 Components stuffed for SC1565 - 3.3VL Adj. 2. Corrected the placement for C896 X16 FB64LO Components stuffed for FBA\_DATA and FBD\_DATA 3. Corrected the RBG filtering for P300 and P600 1. Changed C2264 and C2268 to 470uF (16V OSCON) FB64IIP Components stuffed for FBC\_DATA and FBD\_DATA 2. Changed Assembly of C2267, C2263, R967 to NO STUFF SER-PROM Components stuffed for Serial PROM 1. Corrected more I/O circuits 3. Changed C2240 to 1.0 uF 16V (SMD0805) PAR-PROM Components stuffed for Parallel PROM 2. Corrected J-TAG signals around the SAA7108 4. Changed value of C2300 to 1.0uF(16V) Components stuffed for Fan / Blower left of the GPU 3. Added resistors (R2228, R2229) for TRST (SAA7108-JTAG) FAN\_HS-LFT 5. Changed Assembly of the following components 4. Re-ordered the schematic pages FAN HS-RGT Components stuffed for Fan / Blower east of the GPU to CX-ENC-TVOUT:VIVO:VIDO 5. Added L721 and C1155 to S-Video connector C2482 through C2494, D2 through D7, C2,C3, FAN SNK Fan Sink Component R33 through R36,C56,C57,C1155,C1156,L721,L722 1. For Review HEAT\_SNK Heat Sink Component 6. Changed the Assembly of R966 to COMMON X07 VIVO Components stuffed for Video IN/OUT 1. X-release AX1 2. NO Netlist changes 1. Renamed the I2C signals VIDO-7104 SAA7104 Video Out 2. Removed R1240 CX-ENC-TVOUT Components stuffed for CX25871 - TV-OUT 3. Renamed GPU pins GPIO 5,6 SOCKET Components stuffed for Socket 4. Connected GPU-VDDG and VDDDVO to 3.3VL 1. BOM Corrections 64MB-4MX16 Components stuffed for Mem-CFG: 64MB (4Mx16) memory 5. Renamed GPTOO to FAN-EN 2. NO Netlist changes BRACKET IO Bracket / VGA-DIN-DVI-I 6. The following diodes are BAV99 (was BAT54SLT1) 3. Changed R2078 to 1000 Ohm (1%) .. FBVDDQ = 2.619 BRACKET-VGA IO Bracket / VGA- -DVI-I D300, D301, D304-D306, D308, D309 4. Changed the following resistors to 100 (5%): FBVDO-2602 Components stuffed for FBVDDQ Power R253, R252, R293, R292, R353, R352, R393, R392 D606-D610.D618.D619 FBVDD\_ADJ Components to adjust FBVVD out voltage. 7. Changed R2224 to 120hm P85-A02-X01 FBVDQ\_ADJ Components to adjust FBVVDQ out voltage. 8. The following caps are NO\_STUFF To be updated- 1st Net list file C1123,C1126,C1129 ADD TL413 circuit for FBVDDO 9. Added hotplug circuit to DVI-I. Components are: Table of Contents Change SC2602 for FBVDDQ to FBVDD L727,C1181,R1011,D611,R1012 1. TOP Page Remove many TH ALE CAPs from SC2602/FBVDD circuit for want of space 10. P600 pin 14 is connected to FCC-BDC-VGA (5V) Remove Input filter inductor and caps from SC2602/FBVDD circuit for want of space 1.b AGP Interface 11. Removed R995 1.c NV25 .. PLL / DAC / I2C 12. P602 pins 10,11,12 are connected to CGND (Chassis GND) 13. Added components D615, R1073 to NVVDD supply. P85-A02-X02 2.a NV25 Frame Buffer Intf Renamed FOOT PRINTS IC\_MA05B to SC70-5 symbol 14. Added component R2073 to FBVDDQ supply 2.b Frame Buffer 0..31 Removed C2379 2.c Frame Buffer 32..63 Changed C2302 from SOT223-DPAK-D2PAK to SOT223 DPAK 1. Clean-up ... BOM / Assemblies 2. Fixed Hot-Plug circuit 2.d Frame Buffer 64..95 2.e Frame Buffer 96..127 Sync SCH of A02-X02 to A01-X17A w.r.t. Framebuffer PS sheet only 3.a DVO A/B P85-A02-X04 1. L819.1 connected to 3.3VL FBVDD for Hynix , Elite different R2075/R2078 3.b CX25871 TV-OUT 2. The following GPU pins connected to 3.3V P85-A03-X01 AH1, AD1, AC7, AL3, AP8. AP12 3.c DACB I/O, I2CB --PRI Added Shmoo Test Point (TP38, TP39, TP40) for FBVDDQ supply 3. P400.14 and D611.2 connected to FCC-ADC-VGA 3.d Video IN / OUT (SAA7801-SAA7804) 4. Corrected GPU pin name AJ4 3.e DVOB External XMIT Changed the following components to 5PF: 5. Corrected net name AGPADSTB1-3.f EX-XMIT Filter / I2CA C303, C306, C309, C1122, C1125, C1128 6. Corrected address bus to memory. The following components are designated as COMMON: $FBx\_ADR11$ , $FBx\_ADR12$ , $FBx\_ADR13$ (x = A,B,C,D) 3.g DVI-\_ / VGA Connectors / HotPlug R1197, R1198, R1199, R1200 7. Added the following components to the I2CC\_(SCL/SDA) bus. 3.h S-Video Connector / Filter / Bracket Fixed the Philips symbol to read 7104. was 7102 R1212-R1214 R1218 4.a NV STRAP // P/S-ROM 8. Added strap resistor R989 5.a Power Sequence / 3.3VL Supp P85-A03-X02 1. Clean-up .. BOM / Assemblies 5.b NVVDD Power Supply 5.c.FBVDDQ Power Supply Legend: 5.c.FBVDD Power Supply 1. Swapped memory bits on Bank-A/Byte 0 (pg.5)as follows: 0->1, 3->7, 2->4, 5->2, 4->5, 1->3 and 7->0. TPNC = Test Point - Not Connected 1. Clean-up .. BOM / Assemblies 2. Removed C1447 NVIDIA Corporation 2701 San Tomas Expressway Santa Clara, CA 95050, USA 1. Added caps C2531 and C2532 to VAAD3.3V Top Page .. P85 NVIDIA 2. Added test point to U7.38 (TV\_FIELD) 3. Renamed net name for the following: Size CAGE Code DWG NO R1106.1, R1105.1, R302.1, R303.1 Custon 602-10085-0000-A02 140-10085-0000-A02

P85-A03-X01





## 1.c NV25 .. PLL / DAC / I2C

	<b>©</b>		NVIDIA Corporation 2701 San Tomas Expressway Santa Clara, CA 95050, USA								
	$n_{\text{VIDIA}}$	NV25PL / DAC / I2C									
ľ		Size Custo	CAGE Code m		DWG NO					Rev	
Ĺ	Monday, April 08, 2002	Scale	<b>i</b>	F	P85-A03-X01	Sheet	3	of	20		
				•		•					

