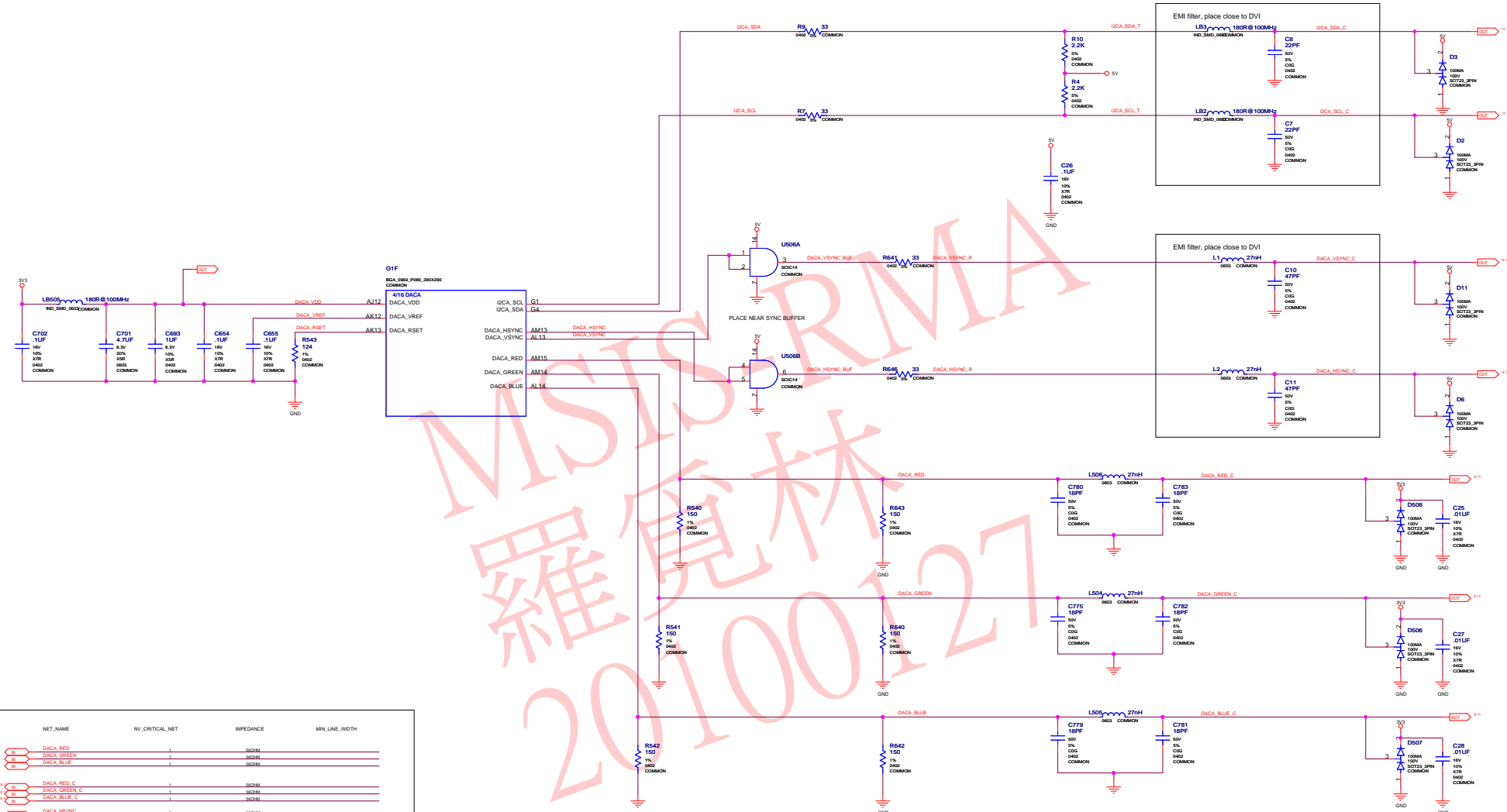


DACA (SOUTH DVI-I)



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PAGE/DETAIL	DACA (SOUTH DVI-I)

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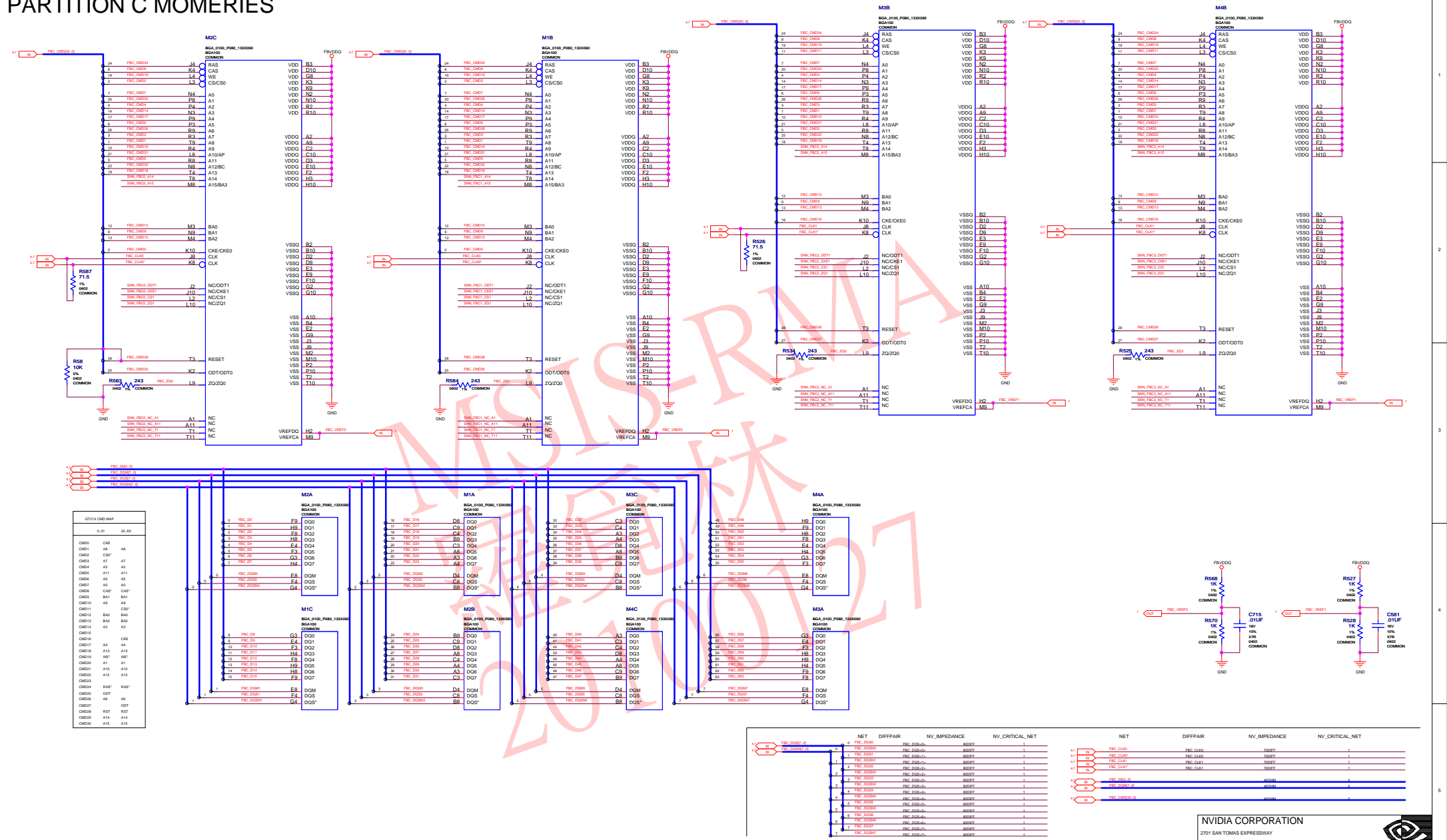
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## PARTITION C MOMERIES

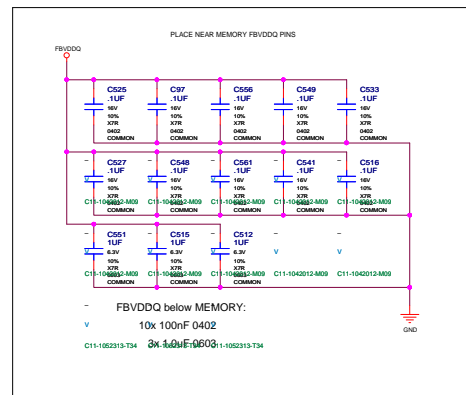


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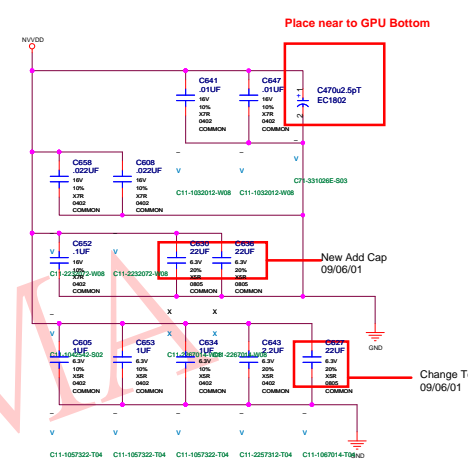
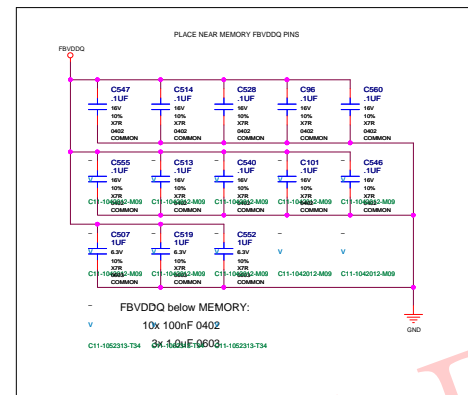


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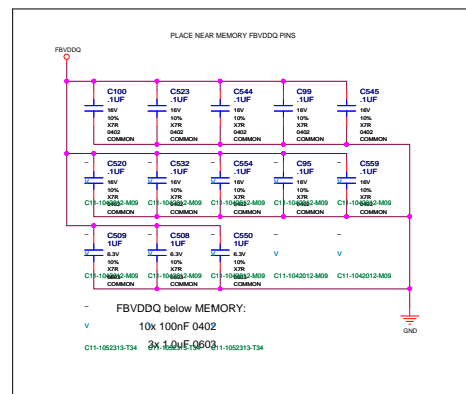
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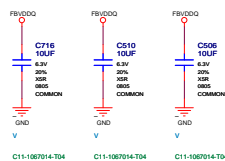
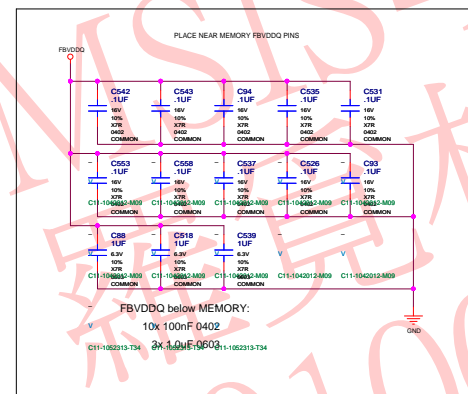
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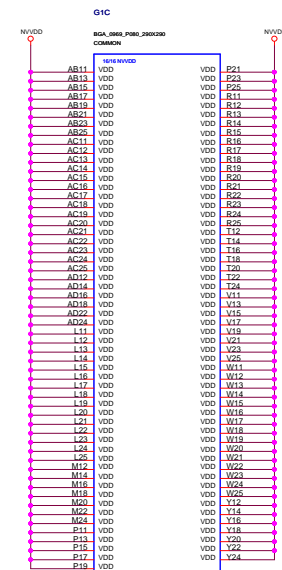
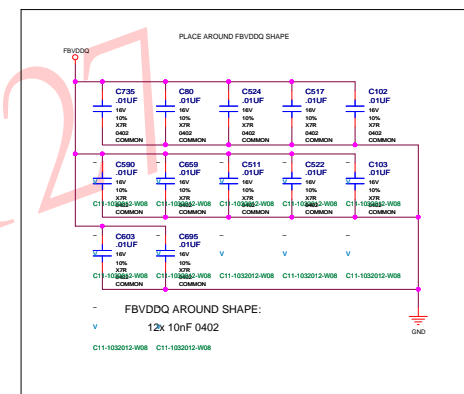
## Decoupling for FBA 32..47



## Decoupling for FBA 48..63



## Decoupling for EMI



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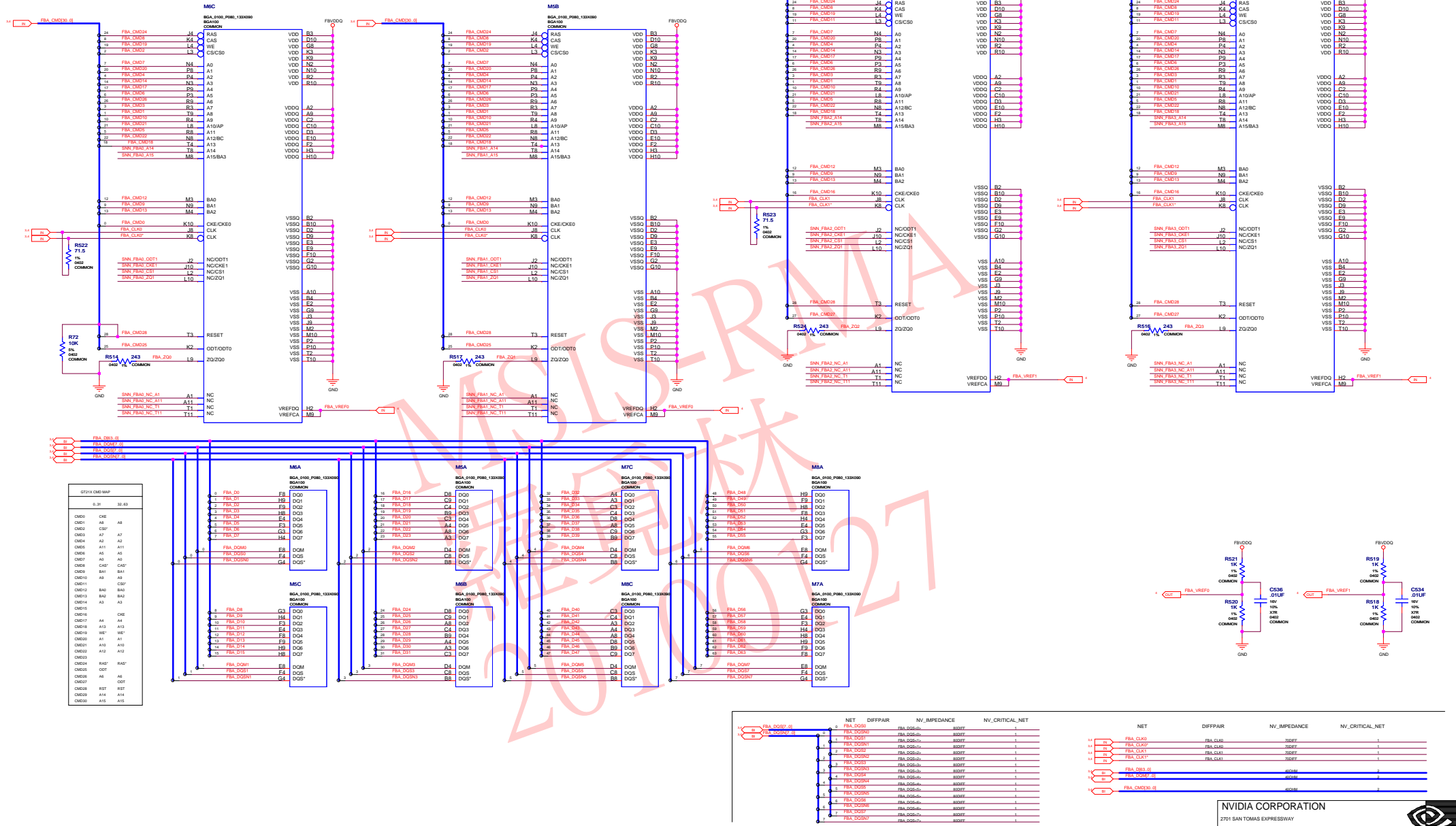
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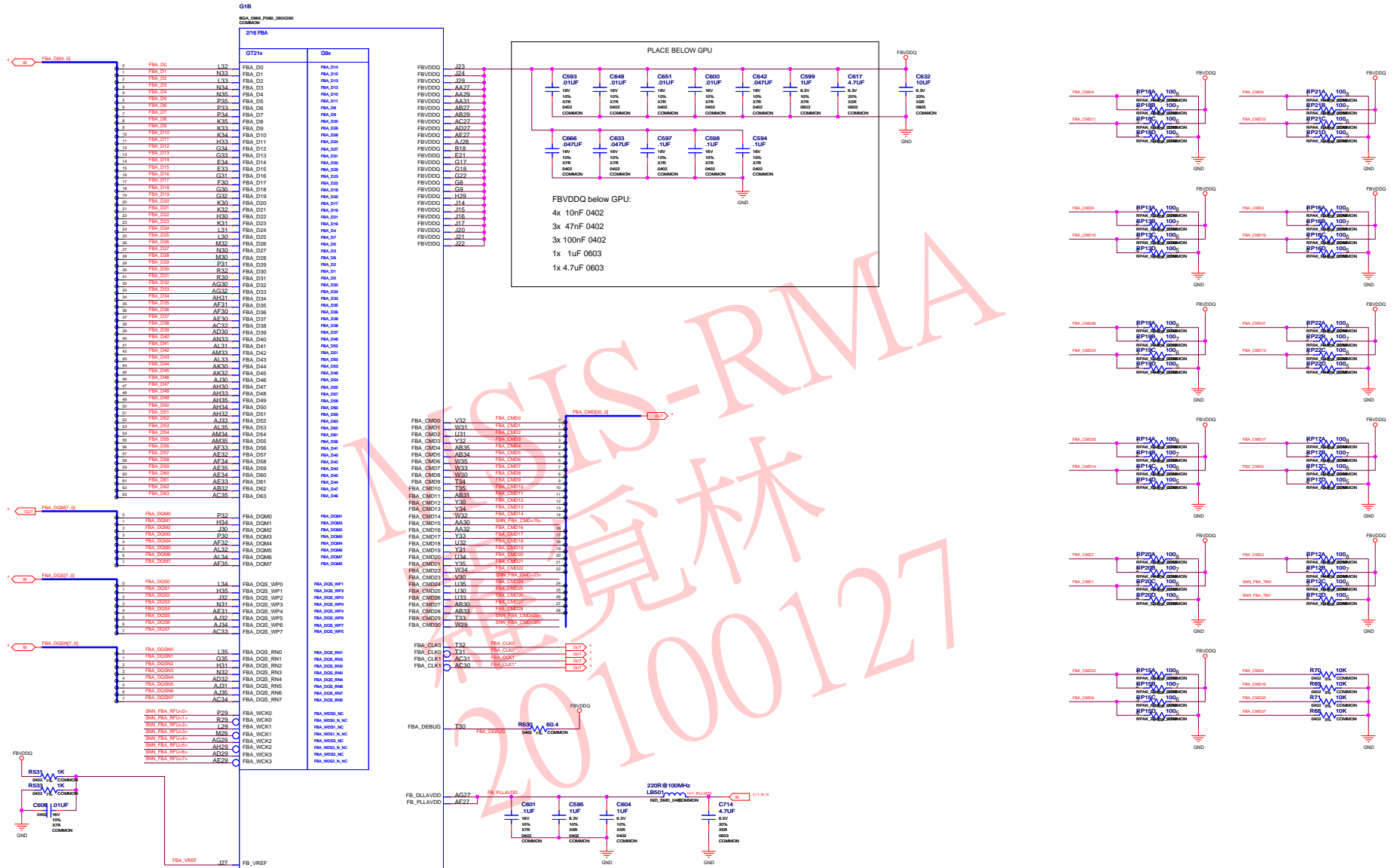
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PAGE DETAIL	FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

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PARTITION A MOMERIES



## PARTITION A FRAME BUFFER INTERFACE



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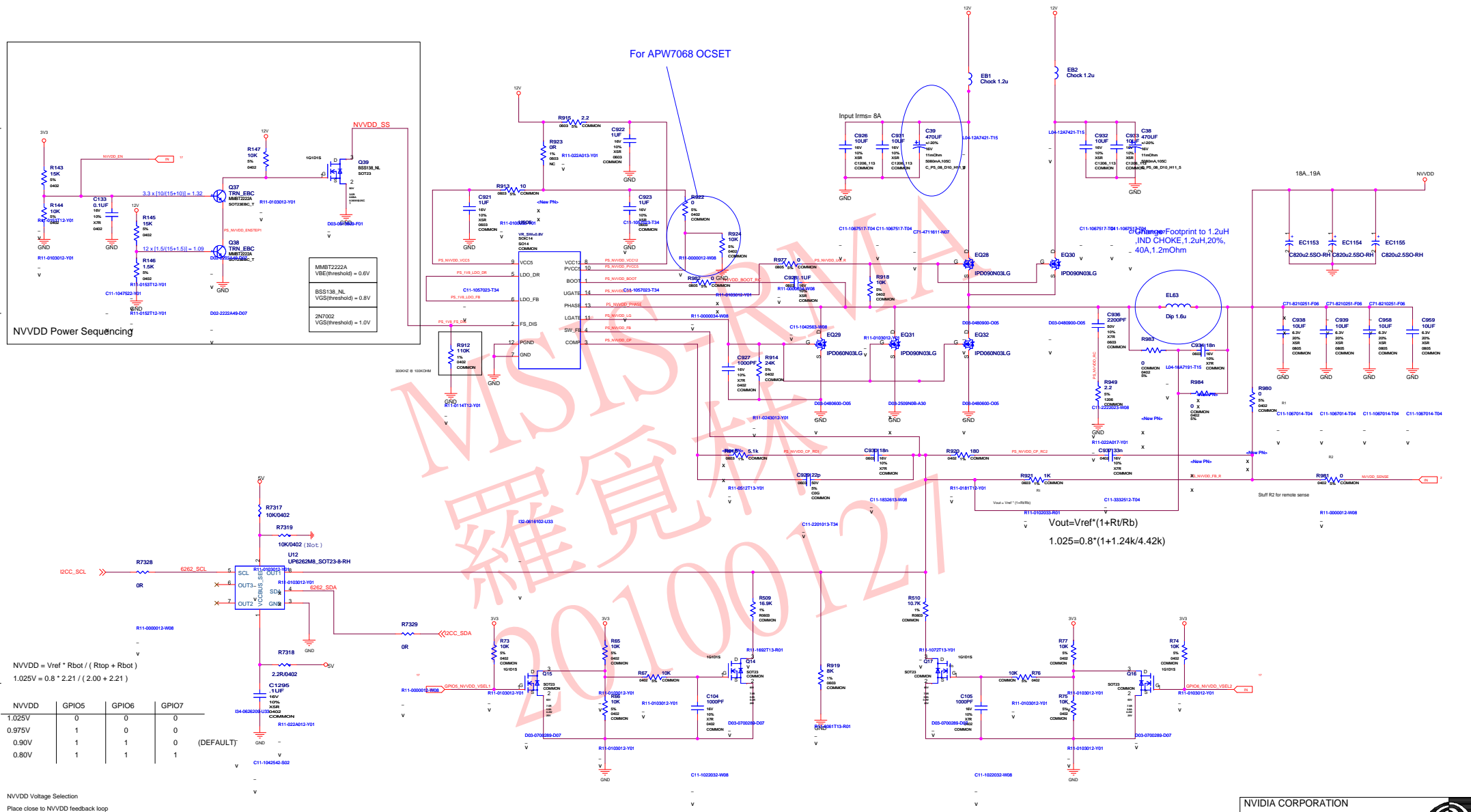
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[9.2G] C308 [9.2G] C309 [9.2G] C310 [9.2G] C311 [9.2G] C312 [9.2G] C313 [9.2G] C314 [9.2G] C315 [9.2G] C316 [9.2G] C317 [9.2G] C318 [9.2G] C319 [9.2G] C320 [9.2G] C321 [9.2G] C322 [9.2G] C323 [9.2G] C324 [9.2G] C325 [9.2G] C326 [9.2G] C327 [9.2G] C328 [9.2G] C329 [9.2G] C330 [9.2G] C331 [9.2G] C332 [9.2G] C333 [9.2G] C334 [9.2G] C335 [9.2G] C336 [9.2G] C337 [9.2G] C338 [9.2G] C339 [9.2G] C340 [9.2G] C341 [9.2G] C342 [9.2G] C343 [9.2G] C344 [9.2G] C345 [9.2G] C346 [9.2G] C347 [9.2G] C348 [9.2G] C349 [9.2G] C350 [9.2G] C351 [9.2G] C352 [9.2G] C353 [9.2G] C354 [9.2G] C355 [9.2G] C356 [9.2G] C357 [9.2G] C358 [9.2G] C359 [9.2G] C360 [9.2G] C361 [9.2G] C362 [9.2G] C363 [9.2G] C364 [9.2G] C365 [9.2G] C366 [9.2G] C367 [9.2G] C368 [9.2G] C369 [9.2G] C370 [9.2G] C371 [9.2G] C372 [9.2G] C373 [9.2G] C374 [9.2G] C375 [9.2G] C376 [9.2G] C377 [9.2G] C378 [9.2G] C379 [9.2G] C380 [9.2G] C381 [9.2G] C382 [9.2G] C383 [9.2G] C384 [9.2G] C385 [9.2G] C386 [9.2G] C387 [9.2G] C388 [9.2G] C389 [9.2G] C390 [9.2G] C391 [9.2G] C392 [9.2G] C393 [9.2G] C394 [9.2G] C395 [9.2G] C396 [9.2G] C397 [9.2G] C398 [9.2G] C399 [9.2G] C400 [9.2G] C401 [9.2G] C402 [9.2G] C403 [9.2G] C404 [9.2G] C405 [9.2G] C406 [9.2G] C407 [9.2G] C408 [9.2G] C409 [9.2G] C410 [9.2G] C411 [9.2G] C412 [9.2G] C413 [9.2G] C414 [9.2G] C415 [9.2G] C416 [9.2G] C417 [9.2G] C418 [9.2G] C419 [9.2G] C420 [9.2G] C421 [9.2G] C422 [9.2G] C423 [9.2G] C424 [9.2G] C425 [9.2G] C426 [9.2G] C427 [9.2G] C428 [9.2G] C429 [9.2G] C430 [9.2G] C431 [9.2G] C432 [9.2G] C433 [9.2G] C434 [9.2G] C435 [9.2G] C436 [9.2G] C437 [9.2G] C438 [9.2G] C439 [9.2G] C440 [9.2G] C441 [9.2G] C442 [9.2G] C443 [9.2G] C444 [9.2G] C445 [9.2G] C446 [9.2G] C447 [9.2G] C448 [9.2G] C449 [9.2G] C450 [9.2G] C451 [9.2G] C452 [9.2G] C453 [9.2G] C454 [9.2G] C455 [9.2G] C456 [9.2G] C457 [9.2G] C458 [9.2G] C459 [9.2G] C460 [9.2G] C461 [9.2G] C462 [9.2G] C463 [9.2G] C464 [9.2G] C465 [9.2G] C466 [9.2G] C467 [9.2G] C468 [9.2G] C469 [9.2G] C470 [9.2G] C471 [9.2G] C472 [9.2G] C473 [9.2G] C474 [9.2G] C475 [9.2G] C476 [9.2G] C477 [9.2G] C478 [9.2G] C479 [9.2G] C480 [9.2G] C481 [9.2G] C482 [9.2G] C483 [9.2G] C484 [9.2G] C485 [9.2G] C486 [9.2G] C487 [9.2G] C488 [9.2G] C489 [9.2G] C490 [9.2G] C491 [9.2G] C492 [9.2G] C493 [9.2G] C494 [9.2G] C495 [9.2G] C496 [9.2G] C497 [9.2G] C498 [9.2G] C499 [9.2G] C500 [9.2G] C501 [9.2G] C502 [9.2G] C503 [9.2G] C504 [9.2G] C505 [9.2G] C506 [9.2G] C507 [9.2G] C508 [9.2G] C509 [9.2G] C510 [9.2G] C511 [9.2G] C512 [9.2G] C513 [9.2G] C514 [9.2G] C515 [9.2G] C516 [9.2G] C517 [9.2G] C518 [9.2G] C519 [9.2G] C520 [9.2G] C521 [9.2G] C522 [9.2G] C523 [9.2G] C524 [9.2G] C525 [9.2G] C526 [9.2G] C527 [9.2G] C528 [9.2G] C529 [9.2G] C530 [9.2G] C531 [9.2G] C532 [9.2G] C533 [9.2G] C534 [9.2G] C535 [9.2G] C536 [9.2G] C537 [9.2G] C538 [9.2G] C539 [9.2G] C540 [9.2G] C541 [9.2G] C542 [9.2G] C543 [9.2G] C544 [9.2G] C545 [9.2G] C546 [9.2G] C547 [9.2G] C548 [9.2G] C549 [9.2G] C550 [9.2G]		C262 [9.2A] C263 [8.28] C264 [9.18] C265 [9.3G] C266 [9.2G] C267 [9.2G] C268 [9.2G] C269 [9.2G] C270 [9.2G] C271 [9.2G] C272 [9.2G] C273 [9.2G] C274 [9.2G] C275 [9.2G] C276 [9.2G] C277 [9.2G] C278 [9.2G] C279 [9.2G] C280 [9.2G] C281 [9.2G] C282 [9.2G] C283 [9.2G] C284 [9.2G] C285 [9.2G] C286 [9.2G] C287 [9.2G] C288 [9.2G] C289 [9.2G] C290 [9.2G] C291 [9.2G] C292 [9.2G] C293 [9.2G] C294 [9.2G] C295 [9.2					



[illegible]


A		B		C		D		E		F		G		H	
Title: Basepad Report		FBA_CMD<21> 3.20 3.4C 4.1A 4.1C		FBA_D0Bn<0> 3.4B 4.4B 4.5E		FBC_D<25> 6.2B 7.4C		GPIO0_FAN_PWM_Q_L 1.74G		NVDDO_GND_SENSE_R 21.2B 21.4C		PEX_TX00 2.2B 2.30			
Design: p081		4.1E 4.1G		FBA_D0Bn<1> 3.4A 4.3A 4.5E		FBC_D<26> 6.2B 7.4C		GPIO0_FAN_PWM_R 17.3F		NVDDO_OPS 21.3C		PEX_TX00? 2.2B 2.30			
Date: Jan 22 13:35:02 2009		FBA_CMD<21> 3.4C 3.4F 4.1E 4.1G		FBA_D0Bn<2> 3.4B 4.4B 4.5E		FBC_D<27> 6.2B 7.4C		GPIO0_FIBROD_VSEL 17.4D 20.4D		NVDDO_MODE 21.1B		PEX_TX01 2.2B 2.30			
		4.2A 4.2C		FBA_D0Bn<3> 3.4B 4.4C 4.5E		FBC_D<28> 6.2B 7.4C		GPIO0_FAN_PWM 17.4C		NVDDO_MODE_Q 21.1B		PEX_TX01? 2.2B 2.30			
		FBA_CMD<4> 3.3F 3.4C 4.1A 4.1C		FBA_D0Bn<4> 3.4B 4.4C 4.5E		FBC_D<29> 6.2B 7.4C		GPU_PLLVDD 16.3B		NVDDO_MODE_R 21.2B		PEX_TX02 2.2B 2.30			
		4.1E 4.1G		FBA_D0Bn<5> 3.4B 4.4C 4.5E		FBC_D<30> 6.2B 7.4C		GPU_TESTMODE 2.5E		NVDDO_REFIN 21.3C		PEX_TX02? 2.2B 2.30			
		FBA_CMD<5> 3.4C 3.4D 4.3A 4.3C		FBA_D0Bn<6> 3.4B 4.4C 4.5E		FBC_D<31> 6.2B 7.4C		HDA_PIO 10.3C		NVDDO_RESET 21.3C		PEX_TX03 2.2B 2.30			
		Base Signal Location[20m90]		FBA_D0Bn<6> 3.3F 3.4C 4.1A 4.1C		FBC_D<32> 6.2B 7.3D		HDA_SCL 9.3C 9.3D		NVDDO_SENSE 2.4F 21.4D		PEX_TX03? 2.2B 2.30			
		4.1E 4.1G				FBC_D<33> 6.2B 7.4D		HDA_SCL_C 9.2H 11.3G		NVDDO_SENSE_R 21.4E		PEX_TX04 2.2B 2.30			
1V1_ADJ 19.2B		FBA_CMD<27> 3.4C 3.4D 4.2E 4.2G		FBA_VREF0 4.3C 4.3E 4.4H		FBC_D<34> 6.2B 7.4D		HDA_SCL_T 9.2F		NVDDO_SS 21.3C		PEX_TX04? 2.2B 2.30			
1V1_PLLVDD 2.4G 3.5E 11.2A 16.3A		FBA_CMD<28> 3.4E 4.2E 4.2D 4.3A		FBA_VREF1 4.3F 4.3H 4.4H		FBC_D<35> 6.2B 7.4D		HDA_SDA 9.1D 9.3C		NVDDO_VD 21.3C		PEX_TX05 2.2B 2.30			
19.2C		4.3C		FBA_VREF2 4.3G 4.3I 4.4I		FBC_D<36> 6.2B 7.4D		HDA_VREF 9.1H 11.3D		NVDDO_VSEL 21.3B		PEX_TX05? 2.2B 2.30			
3V3 2.1A		FBA_D<0> 3.1B 4.3B		FBA_Z00 4.3A		FBC_D<37> 6.2B 7.4D		HDA_SDA_T 6.1F		NVDDO_VSEL2 21.3B		PEX_TX06 2.2B 2.30			
3V3_INFS 18.5F		FBA_D<03> 0. 3.1A 3.3A 4.5G		FBA_Z01 4.3C		FBC_D<38> 6.2B 7.4D		HDA_SCL 10.2C		NVDDO_VSEL2_Q 21.3B		PEX_TX06? 2.2B 2.30			
5V 19.4C		FBA_D<1> 3.1B 4.3B		FBA_Z02 4.3E		FBC_D<39> 6.2B 7.4D		HDA_SCL_R 10.1E		NVDDO_VSEL3 21.4B		PEX_TX07 2.2B 2.30			
1V4_ADJ 19.4B		FBA_D<2> 3.1B 4.4B		FBA_Z03 4.3D		FBC_D<40> 6.2B 7.4D		HDA_VSEL2_L 21.3C		NVDDO_VSEL3_Q 21.3C		PEX_TX07? 2.2B 2.30			
12V 2.1A		FBA_D<3> 3.1B 4.4B		FBC_CLK0 6.4D 7.2A 7.2C 7.5G		FBC_D<41> 6.2B 7.4D		HDA_SCL 10.2C		PEX_CLKREQ0? 2.1C		PEX_TX08 2.3G 2.4B			
12V_D 19.4A		FBA_D<4> 3.1B 4.4B		FBC_CLK0? 6.4D 7.2A 7.2C 7.5G		FBC_D<42> 6.2B 7.4D		HDA_SDA_R 10.1E		PEX_PLLVDD 2.4E		PEX_TX08? 2.3G 2.4B			
12V_F 21.1F		FBA_D<5> 3.1B 4.4B		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<43> 6.2B 7.4D		HDA_SDA_R_L 10.1G		PEX_P_L_CLK_OUT 2.2C		PEX_TX09 2.3G 2.4B			
DACA_BLUE 9.4E 9.5A		FBA_D<6> 3.1B 4.4B		FBC_CLK1? 6.4D 7.2D 7.2F 7.5G		FBC_D<44> 6.2B 7.4D		HDA_SCL 17.2B 17.3F 18.5E		PEX_P_L_CLK_OUT? 2.2C		PEX_TX09? 2.3G 2.4B			
DACA_BLUE_C 9.4H 9.5A 11.3D		FBA_D<7> 3.1B 4.4B		FBC_CLK2 6.3C 6.4D 7.2A 7.3C		FBC_CMD<0> 6.3C 6.4D 7.2A 7.3C		HDA_SCL_Q 17.3C		PEX_PRIORITY? 2.1A		PEX_TX10 2.3G 2.4B			
DACA_GREEN 9.4E 9.5A		FBA_D<8> 3.1B 4.4B		FBC_CMD<0> 6.3D 7.1A 7.1C 7.1D		FBC_D<45> 6.3B 7.4E		HDA_SCL 17.2B 17.3F 18.5E		PEX_REFCLK 2.1G 2.2B		PEX_TX10? 2.3G 2.4B			
DACA_GREEN_C 9.4H 9.5A 11.3G		FBA_D<9> 3.1B 4.4B		7.1F 7.5G		FBC_D<46> 6.3B 7.4E		HDA_SCL_Q 17.3C		PEX_REFCLK? 2.1G 2.2B		PEX_TX11 2.3G 2.4B			
DACA_HYMN 9.3C 9.5A		FBA_D<10> 3.1B 4.4B		FBC_CMD<1> 6.2F 6.3C 7.1A 7.1C		FBC_D<48> 6.3B 7.3E		HDA_SCL 16.4D		PEX_RST? 2.2D 19.4E		PEX_TX11? 2.3G 2.4B			
DACA_HYMN_BUF 9.3E 9.5A		FBA_D<11> 3.1B 4.4B		FBC_CMD<2> 6.1G 6.3C 7.1A 7.1C		FBC_D<49> 6.3B 7.4E		HDA_SCL 2.2B 2.4D		PEX_RST 2.2B 2.4D		PEX_TX12 2.3G 2.4B			
DACA_HYMN_C 9.3H 9.5A 11.3D		FBA_D<12> 3.2B 4.4B		FBC_CMD<3> 6.2G 6.3C 7.1A 7.1C		FBC_D<50> 6.3B 7.4E		HDA_SCL 2.2C 17.3F		PEX_RST? 2.2B 2.4D		PEX_TX13 2.3G 2.5B			
DACA_HYMN_R 9.3E 9.5A		FBA_D<13> 3.2B 4.4B		7.1E 7.1G		FBC_D<51> 6.3B 7.4E		HDA_SCL 12.3C		PEX_RST 2.2B 2.4D		PEX_TX14 2.3G 2.5B			
DACA_RED 9.3E 9.5A		FBA_D<14> 3.2B 4.4B		FBC_CMD<4> 6.2G 6.3C 7.1A 7.1C		FBC_D<52> 6.3B 7.4E		HDA_SCL_Q 12.3D		PEX_RST 2.2B 2.4D		PEX_TX15 2.4G 2.5B			
DACA_RED_C 9.3H 9.5A 11.3G		FBA_D<15> 3.2B 4.4B		7.1E 7.1G		FBC_D<53> 6.3B 7.4E		HDA_SCL_Q 12.3E		PEX_RST 2.2B 2.4D		PEX_TX16 2.4G 2.5B			
DACA_VDD 9.2B		FBA_D<17> 3.2B 4.3C		FBC_CMD<5> 6.3C 6.4D 7.1A 7.1C		FBC_D<55> 6.3B 7.4E		HDA_SCL 12.3C		PEX_RST 2.2B 2.4D		PEX_TX17 2.4G 2.5B			
DACA_VREF 9.3B		FBA_D<18> 3.2B 4.4C		7.1E 7.1G		FBC_D<56> 6.3B 7.4E		HDA_SDA_R 12.1D		PEX_RST 2.2B 2.4D		PEX_TX18 2.4G 2.5B			
DACA_VYMC 9.3C 9.5A		FBA_D<19> 3.2B 4.4C		FBC_CMD<6> 6.3C 6.4F 7.1A 7.1C		FBC_D<57> 6.3B 7.4E		HDA_SDA_R_Q 15.1E		PEX_RST 2.2B 2.4D		PEX_VDD 20.3B			
DACA_VYMC_BUF 9.3E 9.5A		FBA_D<20> 3.2B 4.4C		FBC_CMD<7> 6.3C 6.3D 7.1A 7.1C		FBC_D<58> 6.3B 7.4E		HDA_SDA 11.3B		PEX_RST 2.2B 2.4D		PEX_V11_CP 20.3B			
DACA_VYMC_C 9.3H 9.5A 11.3D		FBA_D<21> 3.2B 4.4C		7.1E 7.1G		FBC_D<59> 6.3B 7.4E		HDA_SDA 11.3B		PEX_RST 2.2B 2.4D		PEX_V11_DR 20.3C			
DACA_VYMC_R 9.3E 9.5A		FBA_D<22> 3.2B 4.4C		FBC_CMD<8> 6.3C 6.3F 7.2A 7.3C		FBC_D<60> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_BLUE 10.4D 10.5A		FBA_D<23> 3.2B 4.4C		7.2E 7.2G		FBC_D<61> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_BLUE_C 10.4F 10.5A		FBA_D<24> 3.2B 4.4C		FBC_CMD<9> 6.3C 6.3F 7.2A 7.3C		FBC_D<62> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_GREEN 10.4D 10.5A		FBA_D<26> 3.2B 4.4C		7.2E 7.2G		FBC_D<63> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_GREEN_C 10.4F 10.5A		FBA_D<28> 3.2B 4.4C		FBC_CMD<10> 6.3C 6.3F 7.1A 7.1C		FBC_D<64> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_HYMN 10.3C 10.5A		FBA_D<29> 3.2B 4.4C		7.1E 7.1G		FBC_D<65> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_HYMN_BUF 10.3E 10.5A		FBA_D<30> 3.2B 4.4C		FBC_CMD<11> 6.3C 6.4F 7.1E 7.1G		FBC_D<66> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_HYMN_C 10.3H 10.5A		FBA_D<31> 3.2B 4.4C		7.2E 7.2G		FBC_D<67> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_HYMN_R 10.3E 10.5A		FBA_D<32> 3.2B 4.4C		FBC_CMD<12> 6.3C 6.4D 7.2A 7.2C		FBC_D<68> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_RED 10.3F 10.5A		FBA_D<33> 3.2B 4.4C		7.2E 7.2G		FBC_D<69> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_RED_C 10.3H 10.5A		FBA_D<34> 3.2B 4.4C		FBC_CMD<13> 6.3C 6.3F 7.2A 7.3C		FBC_D<70> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VDD 10.2B		FBA_D<35> 3.2B 4.4C		7.2E 7.2G		FBC_D<71> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VREF 10.3B		FBA_D<36> 3.2B 4.4C		FBC_CMD<14> 6.1G 6.1C 7.1A 7.1C		FBC_D<72> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC 10.3C 10.5A		FBA_D<38> 3.2B 4.4C		FBC_CMD<15> 6.3C 6.4D 7.2E 7.3D		FBC_D<73> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_BUF 10.3E 10.5A		FBA_D<39> 3.2B 4.4C		FBC_CMD<16> 6.3C 6.3D 7.1A 7.1C		FBC_D<74> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_C 10.3H 10.5A		FBA_D<40> 3.2B 4.4C		7.1E 7.1G		FBC_D<75> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
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DACA_VYMC_R 10.3E 10.5A		FBA_D<49> 3.2B 4.4C		FBC_CMD<21> 6.3C 6.4D 7.2A 7.2C		FBC_D<84> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<50> 3.2B 4.4C		7.2E 7.2G		FBC_D<85> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<51> 3.2B 4.4C		FBC_CMD<22> 6.3C 6.4F 7.1E 7.1G		FBC_D<86> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
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DACA_VYMC_R 10.3E 10.5A		FBA_D<53> 3.2B 4.4C		FBC_CMD<23> 6.3C 6.4D 7.2A 7.2C		FBC_D<88> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
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DACA_VYMC_R 10.3E 10.5A		FBA_D<55> 3.2B 4.4C		FBC_CMD<24> 6.3C 6.4F 7.1E 7.1G		FBC_D<90> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<56> 3.2B 4.4C		7.2E 7.2G		FBC_D<91> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<57> 3.2B 4.4C		FBC_CMD<25> 6.3C 6.4D 7.2E 7.3D		FBC_D<92> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<58> 3.2B 4.4C		FBC_CMD<26> 6.3C 6.3F 7.2A 7.3A		FBC_D<93> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<59> 3.2B 4.4C		7.3C		FBC_D<94> 6.3B 7.4E		HDA_SDA 11.3D		PEX_RST 2.2B 2.4D		PEX_V11_FB 20.3C			
DACA_VYMC_R 10.3E 10.5A		FBA_D<60> 3.2B 4.4C		FBC_CMD<27> 6.4C 6.4D 7.2E 7.3D		FBC_D<95> 6.3B 7.4E		HDA_SDA 11.3D							

### Power Supply III: NVVDD

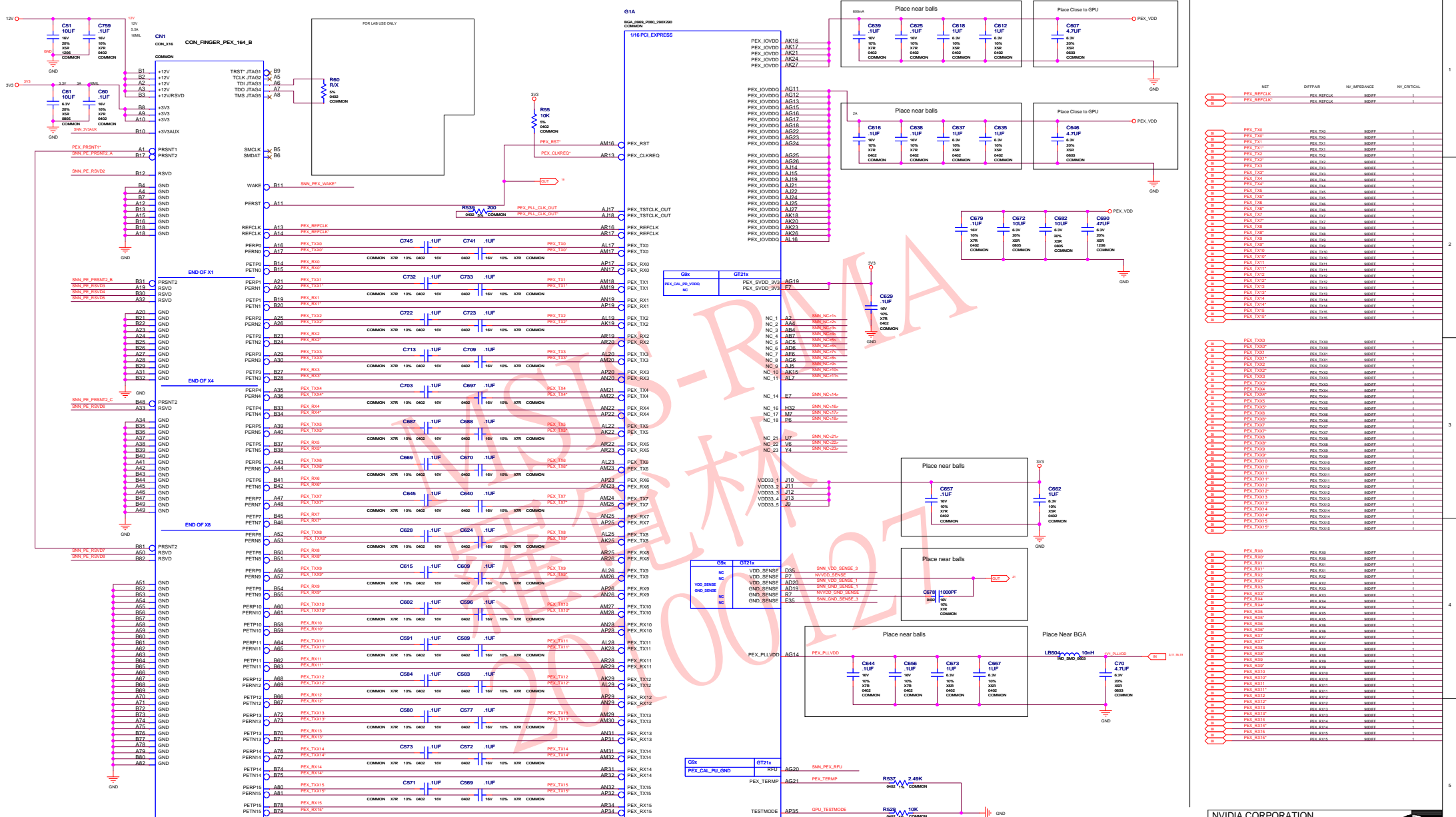


NVDD	GPIO5	GPIO6	GPIO7
1.025V	0	0	0
0.975V	1	0	0
0.90V	1	1	0
0.80V	1	1	1

NVVDD Voltage Selection  
Place close to NVVDD feedback loop


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## PCI-EXPRESS INTERFACE



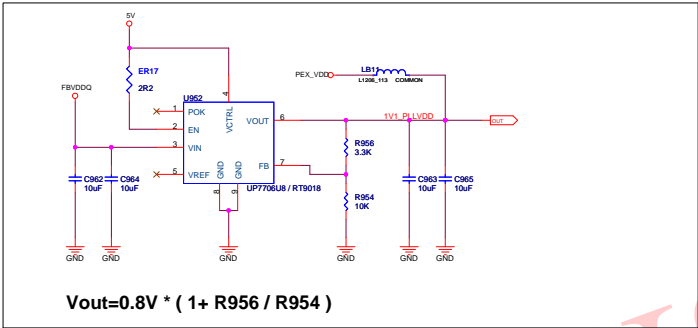
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ASSEMBLY	
PAGE DETAIL	PCI-EXPRESS INTERFACE

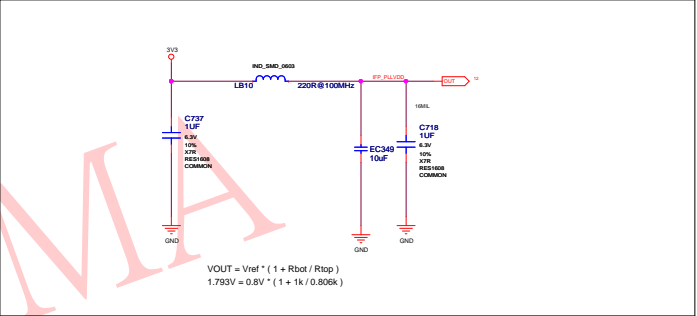
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LINEAR POWER SUPPLIES

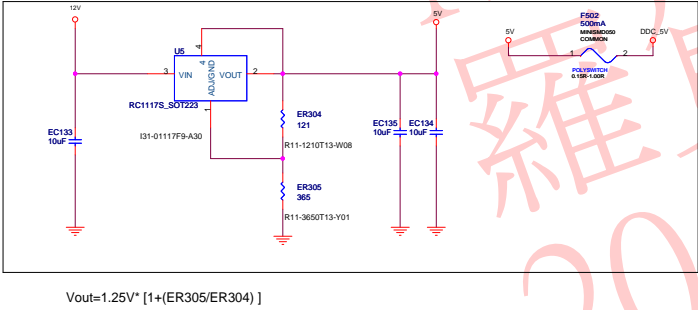
PEX\_PLLVDD SUPPLY (OPTIAN)



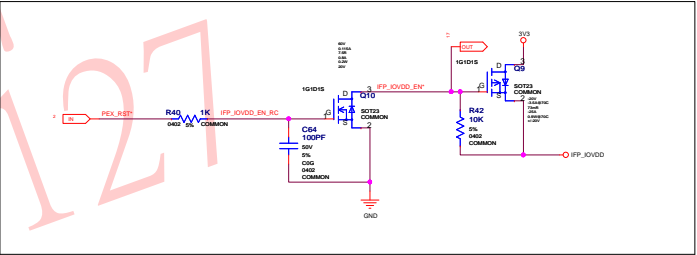
IFP\_PLLVDD SUPPLY



5V & DDC\_5V REGULATOR



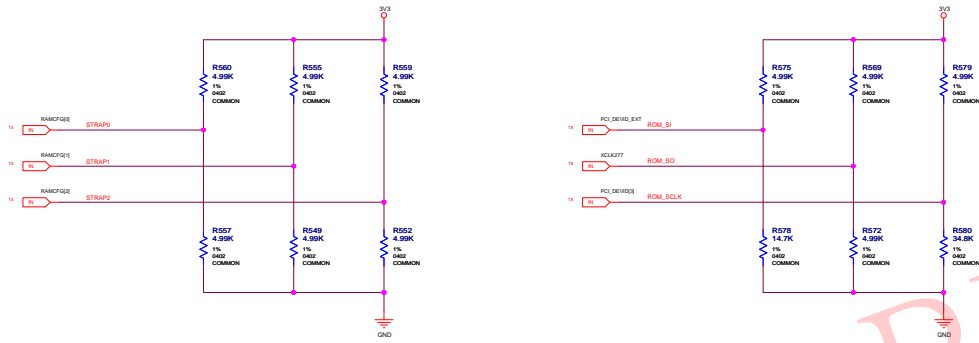
IFP\_IOVDD BACKDRIVE PREVENTION



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BIOS ROM, HDCP ROM, STRAPPING OPTIONS

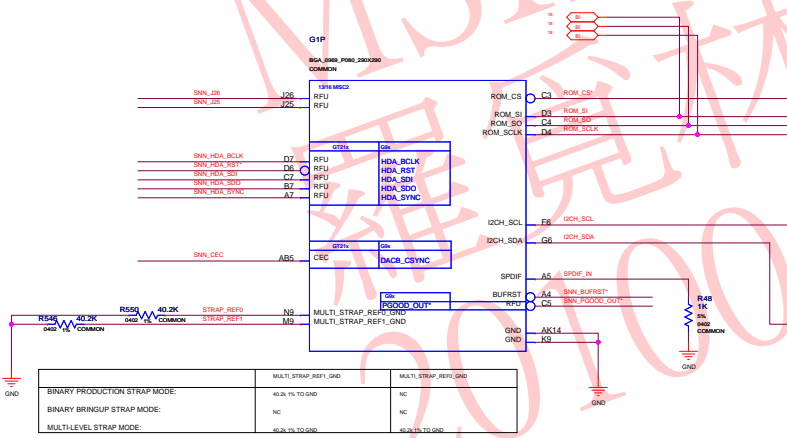
STRAPPING OPTIONS



Strap0	USER(0)	ECID: 1111	45x PU
Strap1	3540_PADCFG(0)	DESKTOP: 0000	5x PD
Strap2	PCI_DEVICE(0)	GT16:000: 0A21:0001	10x PD
ROM_SI	RANKCFG(0)	0001: 1288x 488x16 DQ03 Omicron 0010: 1288x 488x16 DQ03 Hynix 0011: 1288x 488x16 DQ03 Samsung 0101: 1288x 1288x16 DQ03 Omicron 0110: 1288x 1288x16 DQ03 Hynix 0111: 1288x 1288x16 DQ03 Samsung	1001: 688x 488x16 DQ03 Omicron 1010: 688x 488x16 DQ03 Hynix 1011: 688x 488x16 DQ03 Samsung 1101: 688x 1288x16 DQ03 Omicron 1110: 688x 1288x16 DQ03 Hynix 1111: 688x 1288x16 DQ03 Samsung
ROM_SCLK	2: PCI_DEVICE_EXT 2: SUB_VENDOR (1 = BIOS non-present) 1: SCLT_CLK_CFG (1 = common on MCH/PC) 0: PCI_CLK_IN: 100MHz (1 = enable of bus)	0100	30x PD
ROM_SD	3: XUX_417 (0 = POR 277MHz) 2: FB_0_BANK_SIZE (0 = POR 256MB) 1: DMR_AKT_A000 (0 = POR, 1 = multi-GP) 0: VGA_DEVICE (0 = 3D device, 1 = POR VGA device)	0000	5x PD

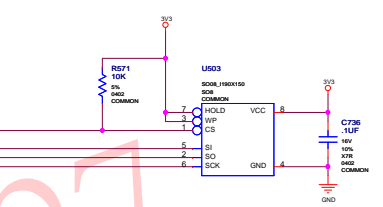
0: PD 5x  
1: PD 10x  
2: PD 15x  
3: PD 20x  
4: PD 25x  
5: PD 30x  
6: PD 35x  
7: PD 40x

8: PD 5x  
9: PD 10x  
10: PD 15x  
11: PD 20x  
12: PD 25x  
13: PD 30x  
14: PD 35x  
15: PD 40x

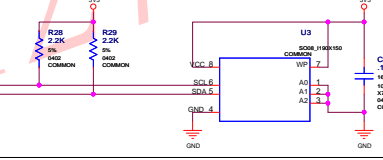


	MULTI_STRAP_REF1_GND	MULTI_STRAP_REF0_GND
BINARY PRODUCTION STRAP MODE:	40x 1% TO GND	NC
BINARY BRINGUP STRAP MODE:	NC	NC
MULTILEVEL STRAP MODE:	0.0A 1% TO GND	0.0A 1% TO GND

BIOS ROM(serial)



HDCP I2C EEROM



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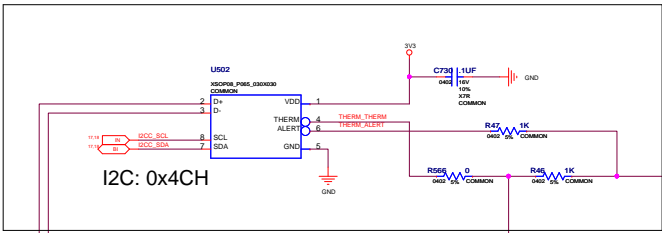
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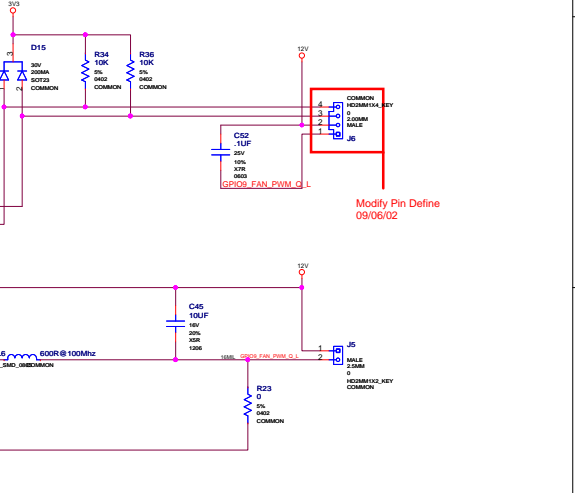
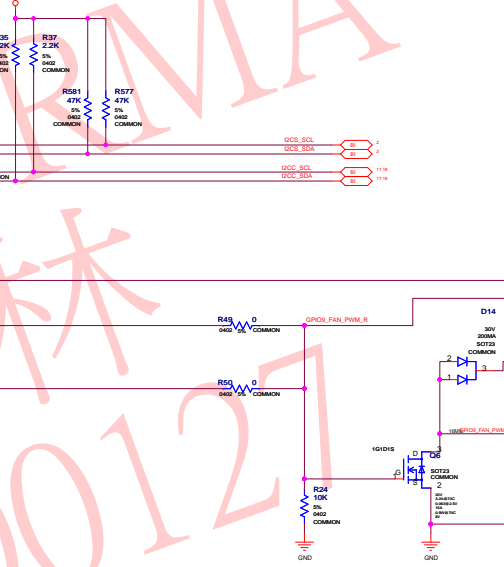
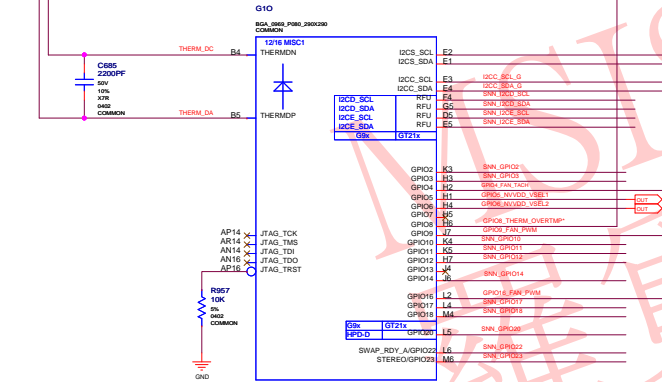
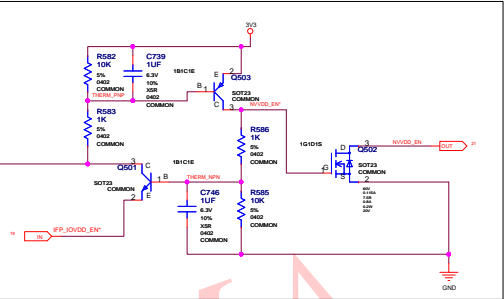
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EXTERNAL THERMAL SENSOR, FAN CONTROL, GPIO, JTAG

THERMAL SENSOR



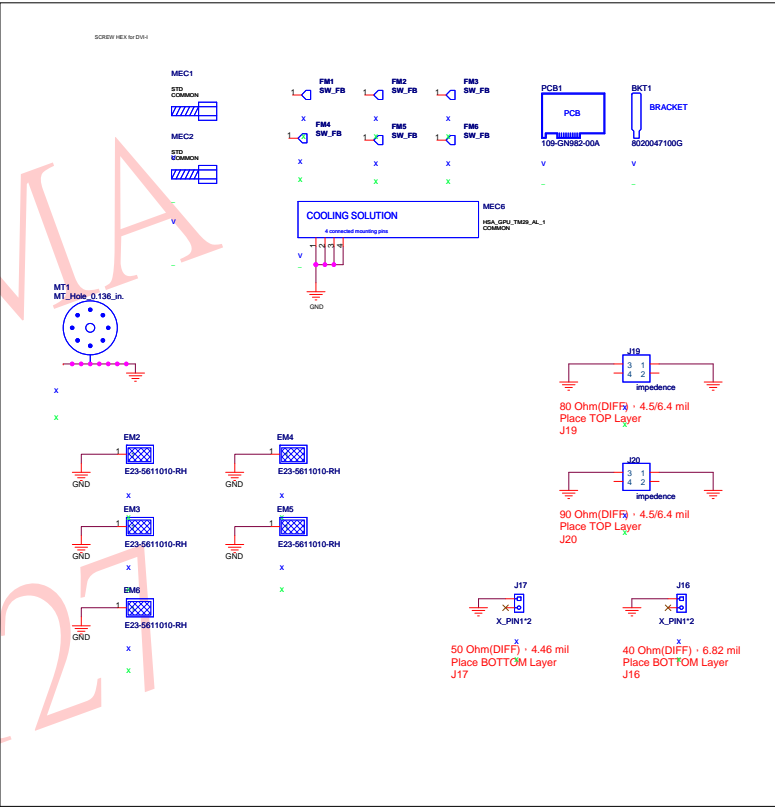
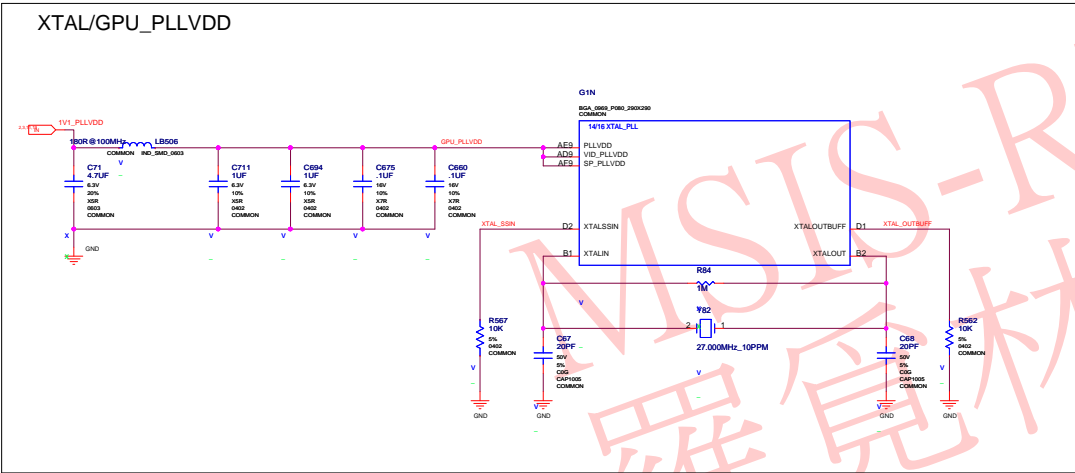
OVERTEMP LATCH



Remove JTAG Connector



XTAL, MECHANICALS, THERMALS

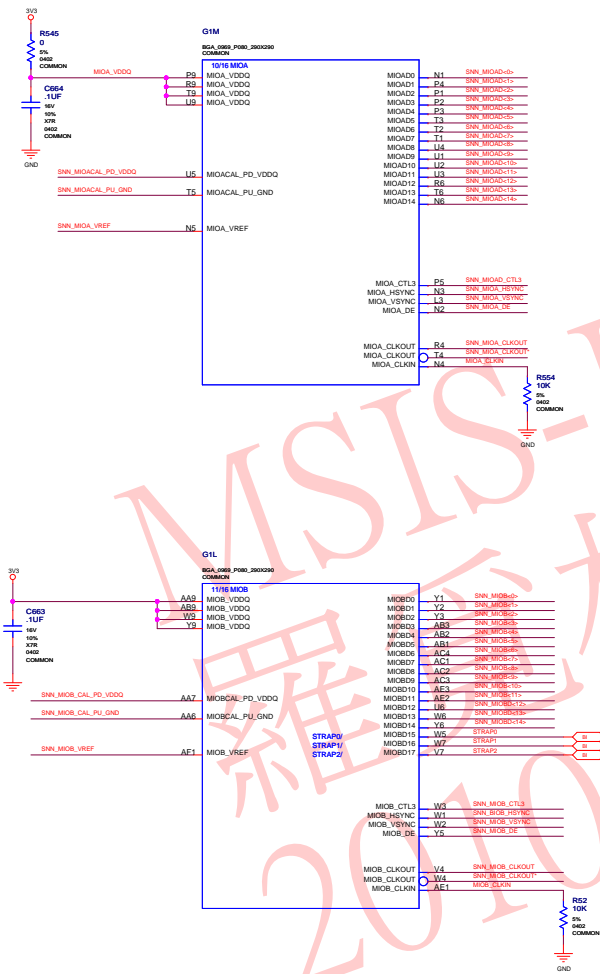


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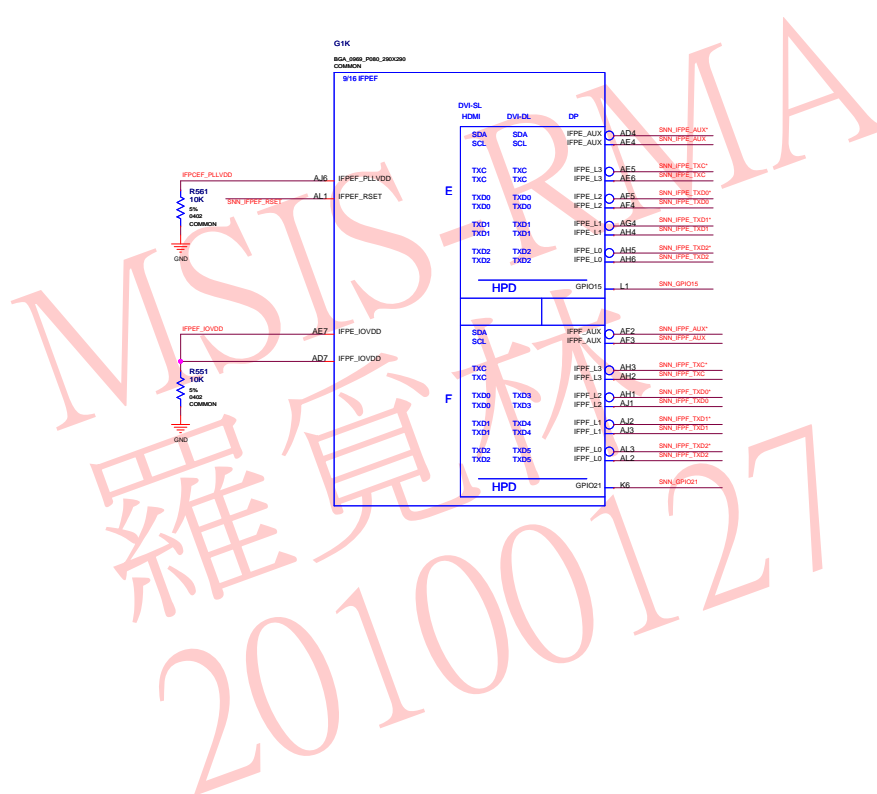


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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFP EF (UNUSED)

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<b>NV_PN</b> 600-10681-base-100 A			
<b>ID</b>		<b>PAGE</b>	
<b>NAME</b>		<b>DATE</b>	05-FEB-2009



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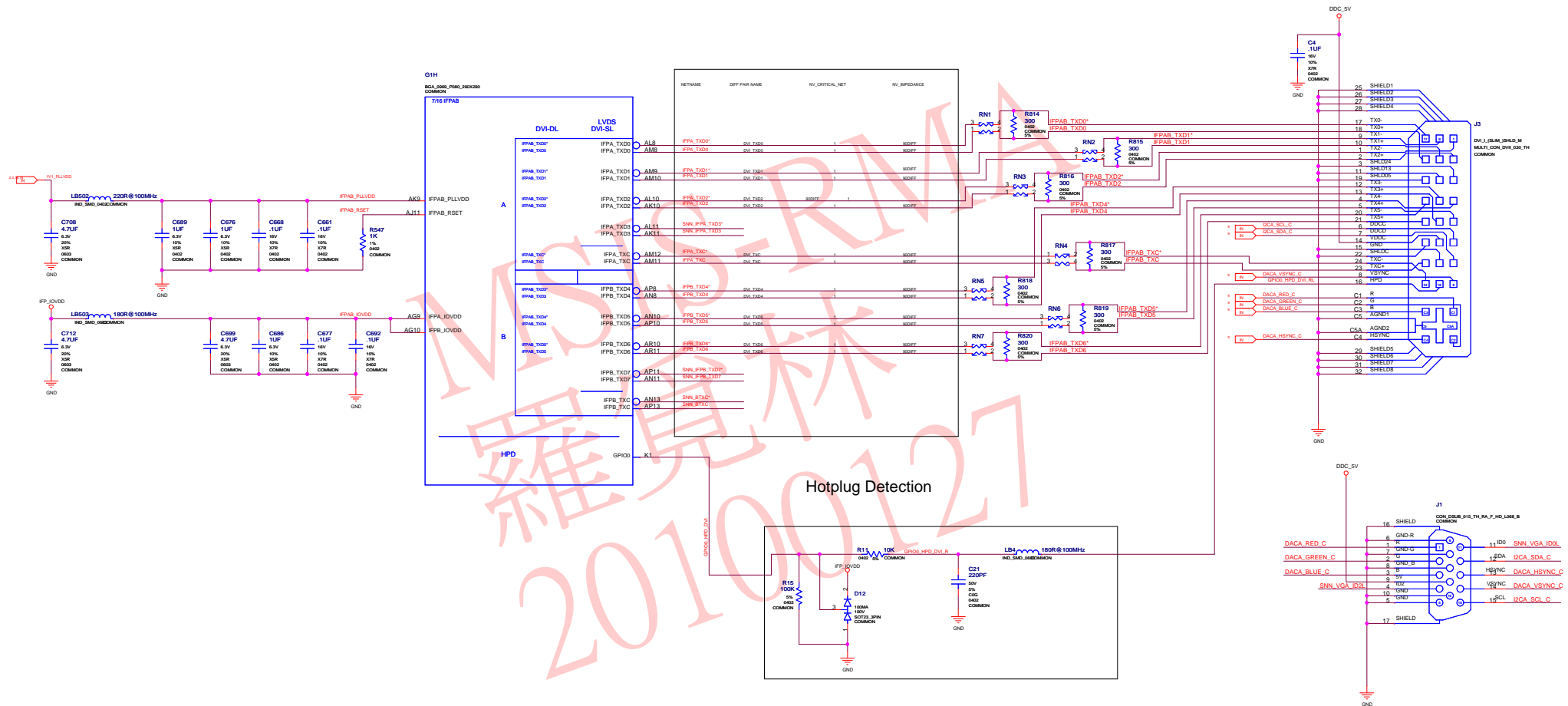
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## IFP AB (SOUTH DVI-I)



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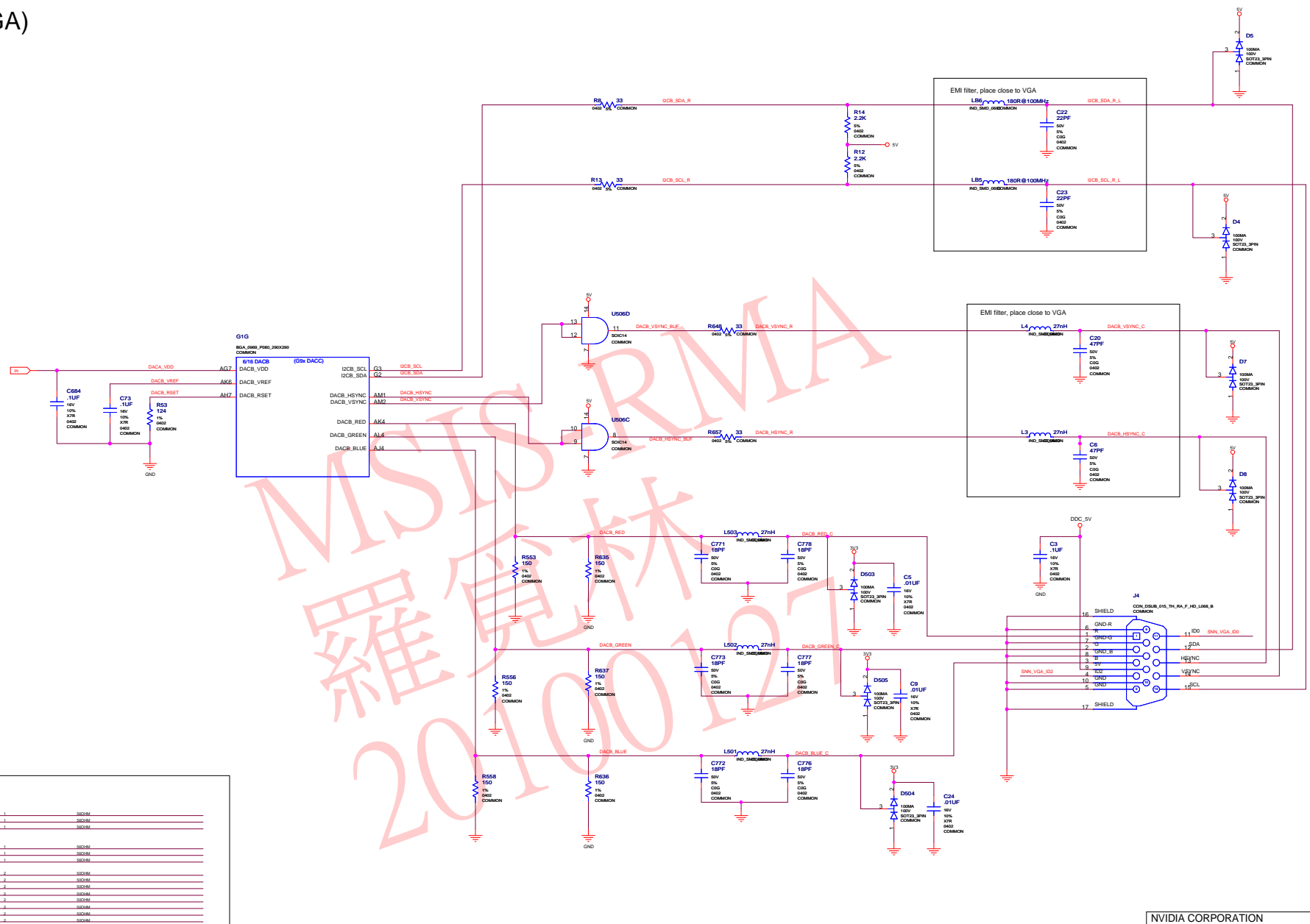


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DACB (MID VGA)



Color	Color Name	Count	Percentage
R	DNCR RED	1	50.0%
	DNCR GREEN	1	50.0%
	DNCR BLUE	1	50.0%
B	DNCR RED C	1	50.0%
	DNCR GREEN C	1	50.0%
	DNCR BLUE C	1	50.0%
G	DNCR VIOLET	2	50.0%
	DNCR VIOLET	2	50.0%
	DNCR VIOLET B	2	50.0%
B	DNCR VIOLET C	2	50.0%
	DNCR VIOLET B/F	2	50.0%
	DNCR VIOLET C	2	50.0%
R	DNCR VIOLET C	2	50.0%
	DNCR VIOLET C	2	50.0%
	DNCR VIOLET C	2	50.0%

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACB (MID VGA)

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# P681-A01 GT215/216 DESKTOP GB1-128 DDR3

## PCI-EXPRESSx16 DL-DVI VGA HDMI

- Page 1: P681-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 (MID 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: EXTERNAL THERMAL SENSOR, 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

V199 For Lenovo Schematic Change List 2009/03/31 by STEVEN CHANG

- Page 2: Remove JTAG Component
- Page 10: Move J1 D-SUB Connector to Page 11
- Page 11: Add Slim Type D-SUB Connector
- Page 17: Remove JTAG Connector
- Page 19: Remove IFP\_PLLVDD SUPPLY LDO IC
- Page 19: Add UP7706 LDO to Change PEX\_VDD Power Supply
- Page 19: Change AP1117 LDO External Schematic Design
- Page 20: Change UP6161 PWM IC to use UP6101 PWM IC Solution For FBVDDQ Power Supply
- Page 20: Change UP6210 PWM IC to use RT9232 PWM IC Solution For NVVDD Power Supply
- Page 20: Remove NVVDD SENSE Net

REV	VARIANT	NVPN	ASSEMBLY
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2	SKU002	600-10681-0002-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 1000MHz DDR3 DVI-I/VGA/HDMI
3	SKU011	600-10681-0011-100	GT215-300 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/VGA/HDMI
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