

~~HISTORY~~

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02. PEX interface
03. GPU FB-interface
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05. MEMORY Bit 32..64
06. DAC-A, DB15 Con.
07. DAC-B, MUX, DB15
08. Internal TMDS
09. MIOA, MIOB
10. Straps
11. BIOS, GPIO, FAN Con.
12. Mini DIN
13. Power :NVVDD/FBVDD
14. Power others

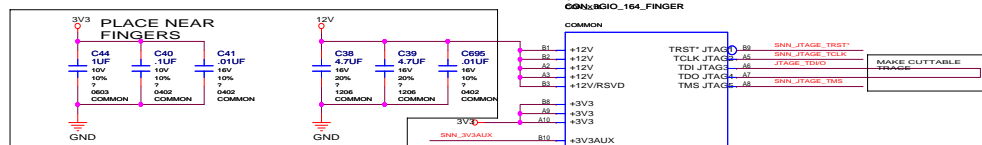
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V034

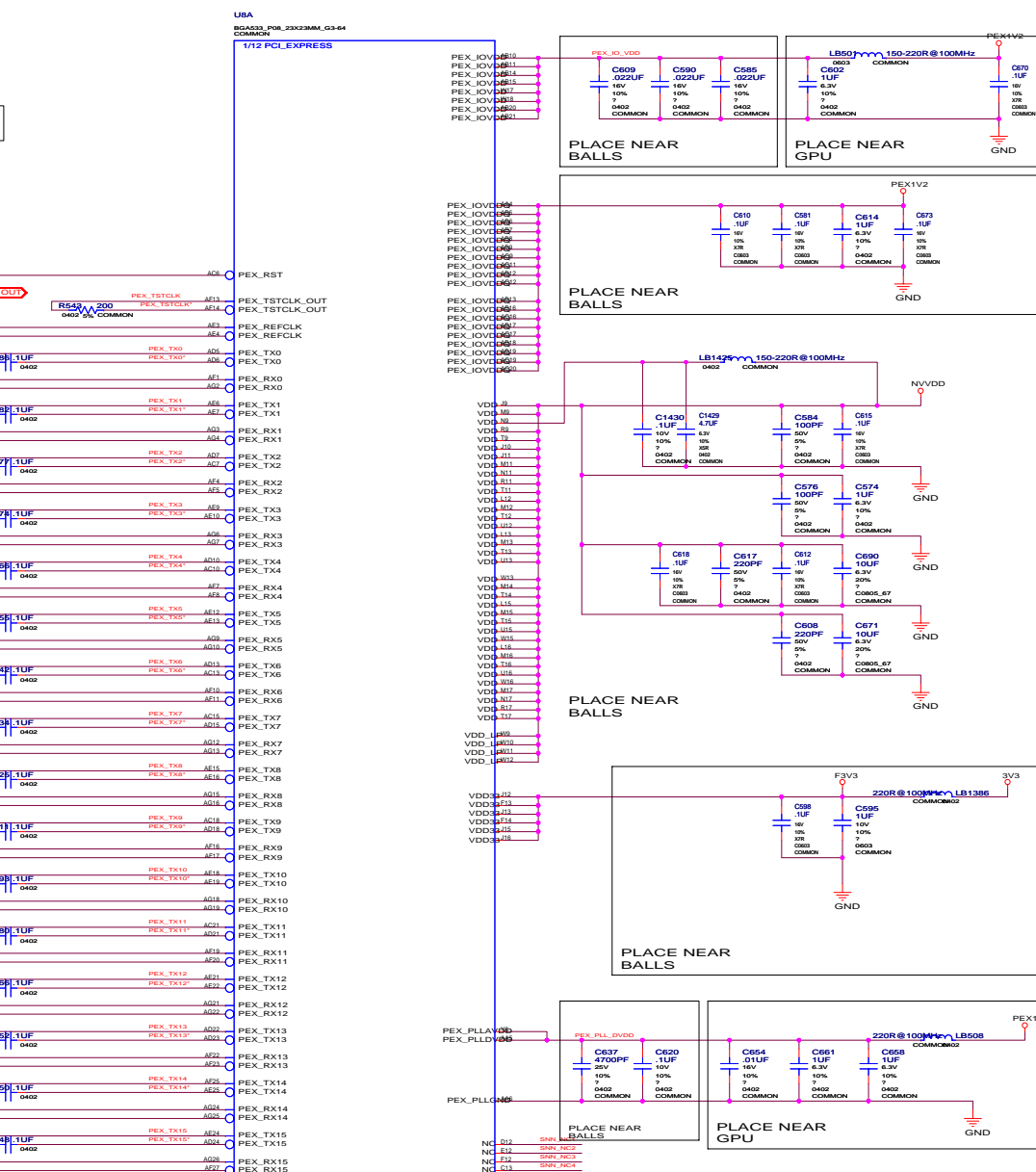
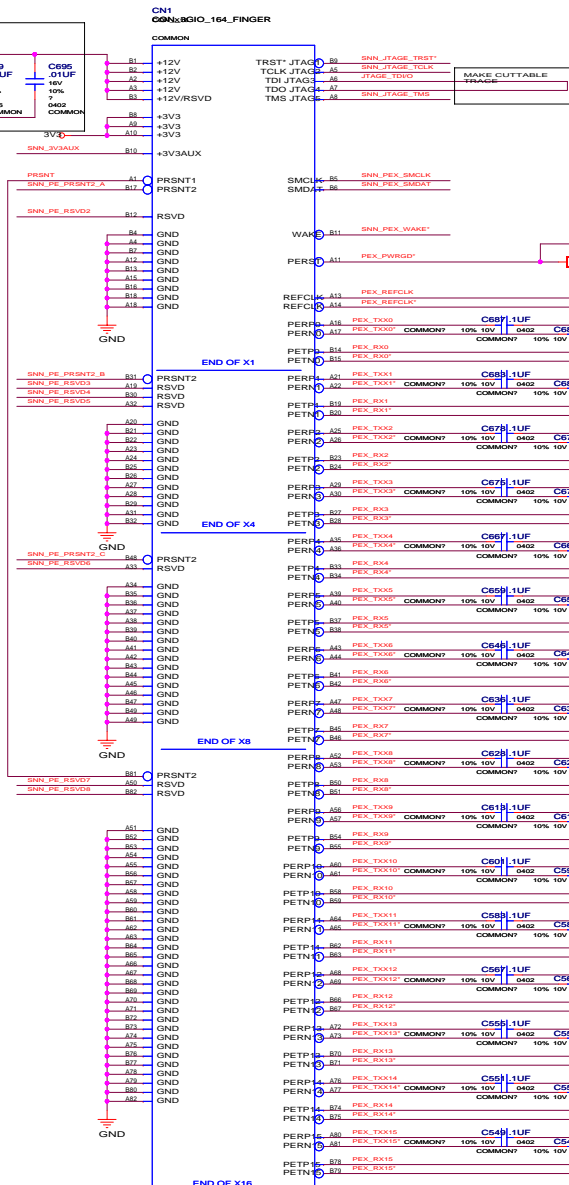
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PEX-Interface

Net DIFF_PAIR NET_SPACING_TYPE

Name			
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PEX_T81	PEX_T81	250M	
PEX_T82	PEX_T82	250M	
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PAGE	BOM NOT FINAL PCI Express Interface

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TRADE PRACTICE, OR INDUSTRY STANDARDS.

GPU: FB-Interface

UBB

8GA533_P0B_23X23MM_G3-64

COMMON

2112 FRAME_BUFFER

FB_DQ00

FB_DQ01

FB_DQ02

FB_DQ03

FB_DQ04

FB_DQ05

FB_DQ06

FB_DQ07

FB_DQ08

FB_DQ09

FB_DQ10

FB_DQ11

FB_DQ12

FB_DQ13

FB_DQ14

FB_DQ15

FB_DQ16

FB_DQ17

FB_DQ18

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FB_DQ289

FB_DQ290

FB_DQ291

FB_DQ292

FB_DQ293

FB_DQ294

FB_DQ295

FB_DQ296

FB_DQ297

FB_DQ298

FB_DQ299

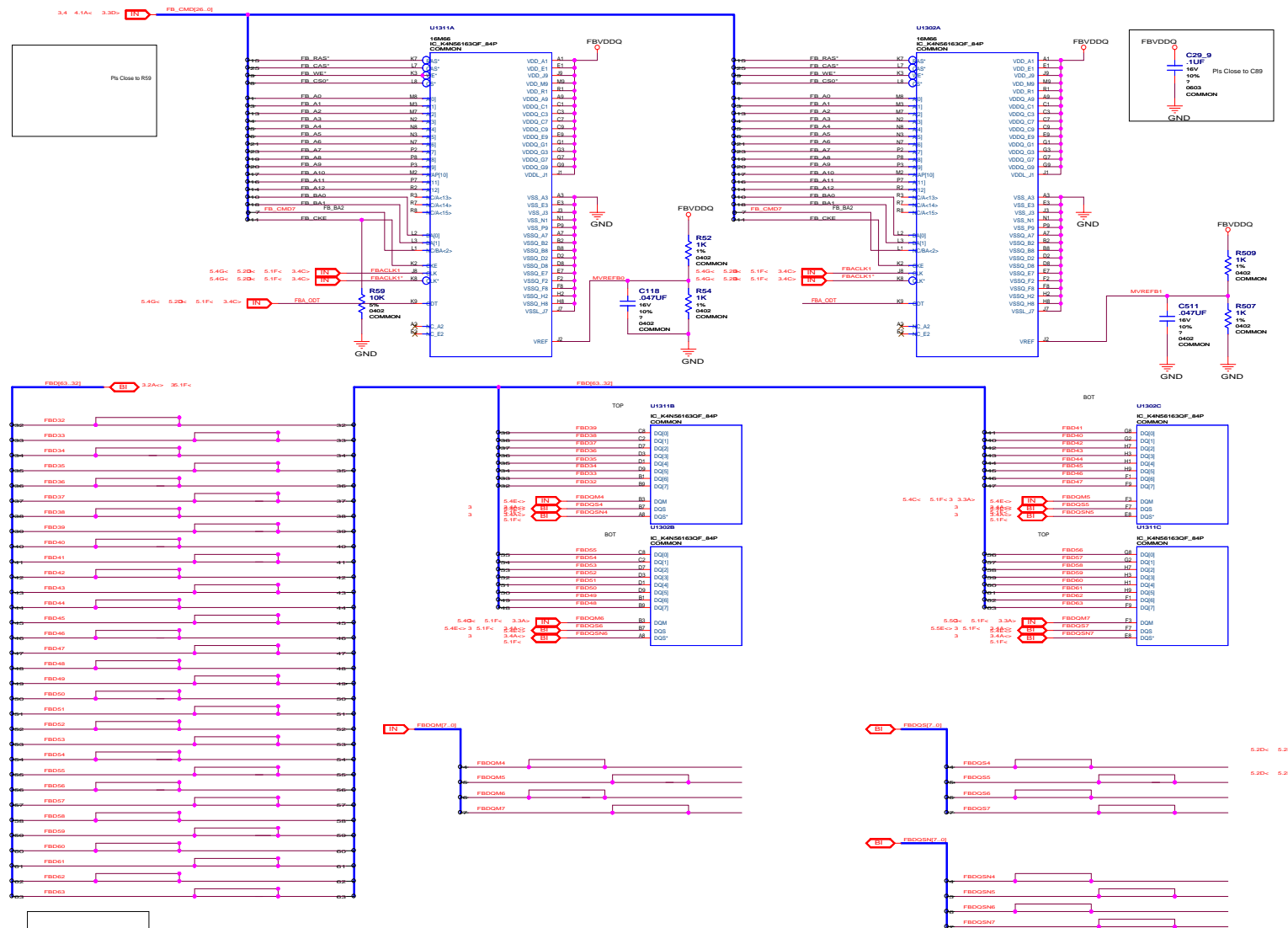
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FB_DQ301

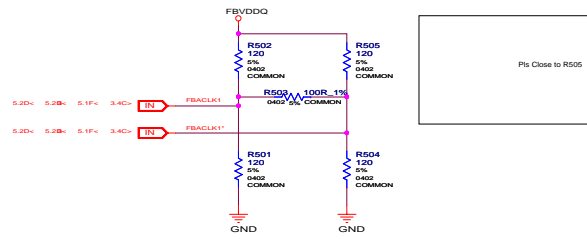
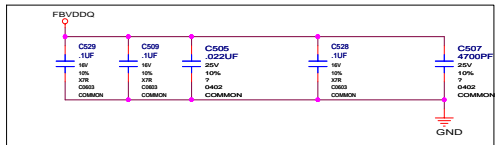
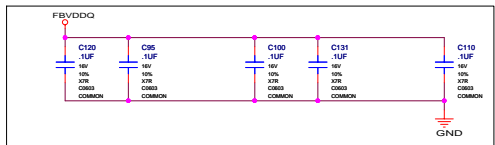
FB_DQ302

FB_DQ303

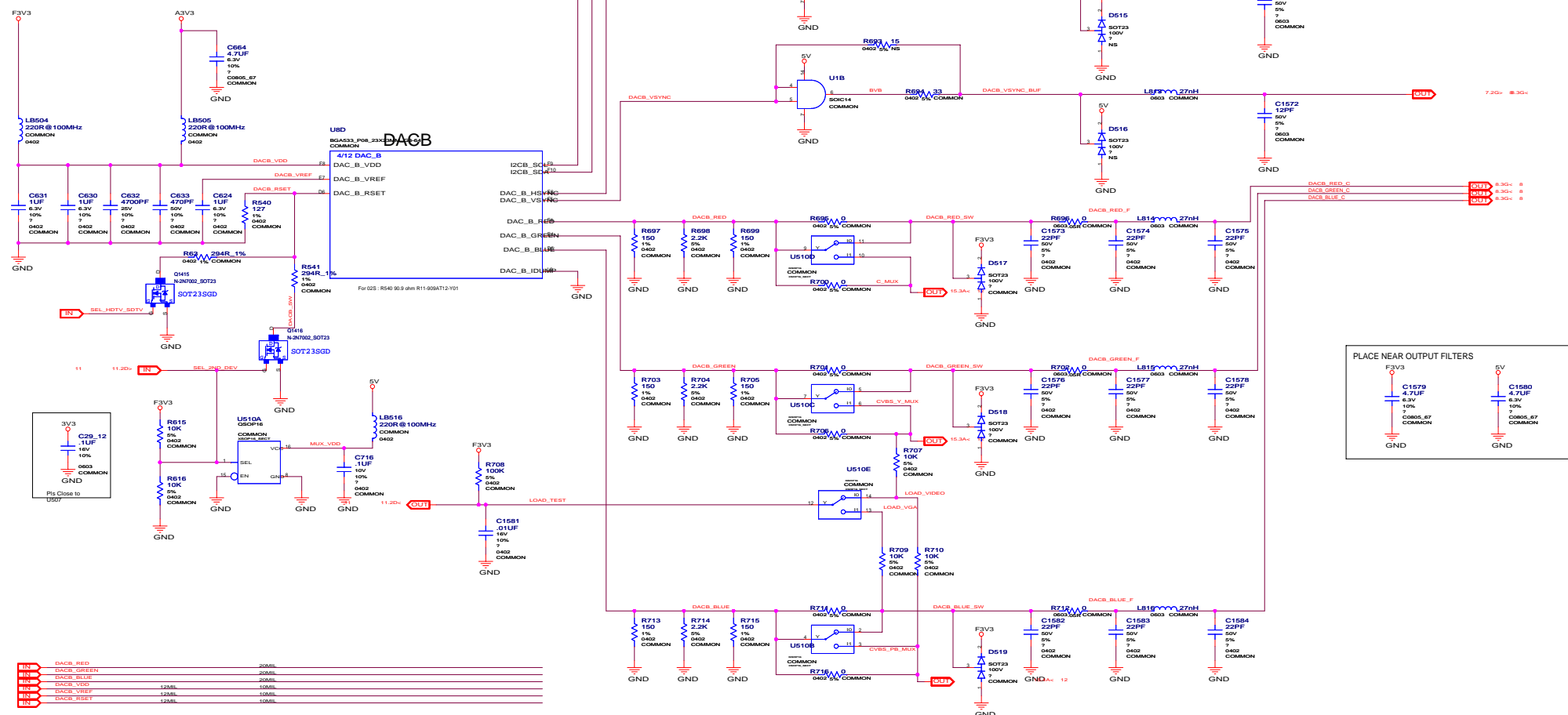
Memory Bit 32..63



Net	Name	Diffpair	NET_SPACING_RULE
IN	FRAGLK1	FRAGLK1	25MBL
IN	FRAGLK1	FRAGLK1	25MBL
IN	FRAGLK1_01		10MBL
IN	FRAGLK1_0		10MBL
IN	FRAGLK1_0E		10MBL
IN	FRAGLK1_0		10MBL
IN	FRAGLK1_01		10MBL

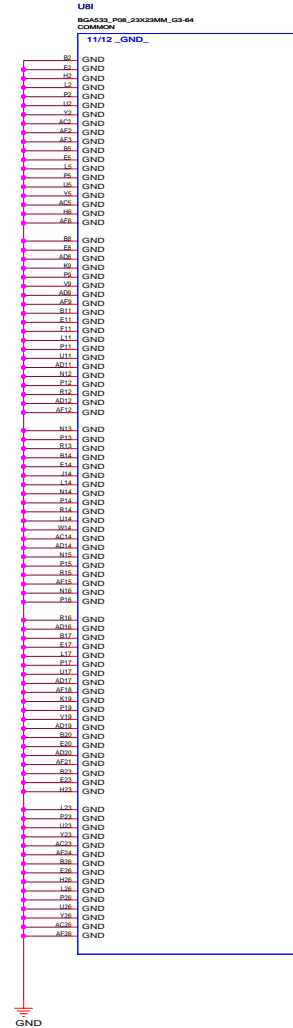


DAC-B, MUX,
DB15



IN	DACS_RED	20mV
IN	DACS_GREEN	20mV
IN	DACS_BLUE	20mV
IN	DACS_VDD	10mV
IN	DACS_VREF	12mV
IN	DACS_RSET	10mV

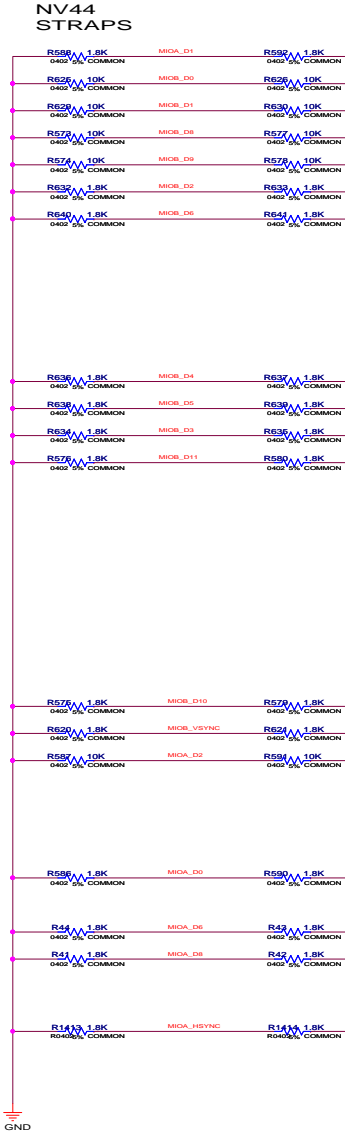
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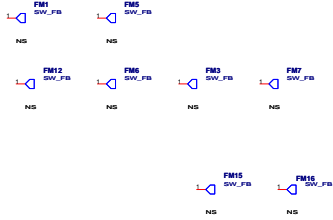
ASSEMBLY	LPC_ROM
PAGE	MIOA, MIOB Interface,

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STRAPS, Mechanical Parts



Bit Signal	Values
00: PCL_AD_SWAP	0 REVERSED 1 NORMAL
01: SUB_VENDOR	0 VENDOR FROM BIOS 1 VENDOR FROM ROM
02: RAM_CFG_0	0000 1000 0001 8Mx16DDR W04 0010 256M W04 0011 8Mx16DDR W04 0100 16Mx16DDR W04 0101 8Mx16DDR W04 0110 16Mx16DDR W04 0111 8Mx16DDR W04 1000 RFU 1001 RFU 1010 RFU 1011 RFU 1100 RFU 1101 RFU 1110 RFU 1111 RFU
03: RAM_CFG_1	0000 1000 0001 8Mx16DDR W04 0010 256M W04 0011 8Mx16DDR W04 0100 16Mx16DDR W04 0101 8Mx16DDR W04 0110 16Mx16DDR W04 0111 8Mx16DDR W04 1000 RFU 1001 RFU 1010 RFU 1011 RFU 1100 RFU 1101 RFU 1110 RFU 1111 RFU
04: RAM_CFG_2	0000 1000 0001 8Mx16DDR W04 0010 256M W04 0011 8Mx16DDR W04 0100 16Mx16DDR W04 0101 8Mx16DDR W04 0110 16Mx16DDR W04 0111 8Mx16DDR W04 1000 RFU 1001 RFU 1010 RFU 1011 RFU 1100 RFU 1101 RFU 1110 RFU 1111 RFU
05: RAM_CFG_3	0000 1000 0001 8Mx16DDR W04 0010 256M W04 0011 8Mx16DDR W04 0100 16Mx16DDR W04 0101 8Mx16DDR W04 0110 16Mx16DDR W04 0111 8Mx16DDR W04 1000 RFU 1001 RFU 1010 RFU 1011 RFU 1100 RFU 1101 RFU 1110 RFU 1111 RFU
06: CRYSTAL_0	00 13.500 MHz 01 14.31818 MHz 10 14.31818 MHz 11 UNKNOWN
22: CRYSTAL_1	00 13.500 MHz 01 14.31818 MHz 10 14.31818 MHz 11 UNKNOWN
07: TV_MODE_0	00 0FCAM 01 0FCAM 10 0FCAM 11 0FCAM
08: TV_MODE_1	00 0FCAM 01 0FCAM 10 0FCAM 11 0FCAM
09: AGP_30_8x	0 AGP8x 1 AGP8x 2 AGP8x 3 AGP8x 4 AGP8x 5 AGP8x 6 AGP8x 7 AGP8x 8 AGP8x 9 AGP8x 10 AGP8x 11 AGP8x 12 AGP8x 13 AGP8x 14 AGP8x 15 AGP8x 16 AGP8x 17 AGP8x 18 AGP8x 19 AGP8x 20 AGP8x 21 AGP8x 22 AGP8x 23 AGP8x 24 AGP8x 25 AGP8x 26 AGP8x 27 AGP8x 28 AGP8x 29 AGP8x 30 AGP8x 31 AGP8x
10: AGP_SBA	0 SBA 1 SBA 2 SBA 3 SBA 4 SBA 5 SBA 6 SBA 7 SBA 8 SBA 9 SBA 10 SBA 11 SBA 12 SBA 13 SBA 14 SBA 15 SBA 16 SBA 17 SBA 18 SBA 19 SBA 20 SBA 21 SBA 22 SBA 23 SBA 24 SBA 25 SBA 26 SBA 27 SBA 28 SBA 29 SBA 30 SBA 31 SBA
11: AGP_FASTWR	0 FW 1 FW 2 FW 3 FW 4 FW 5 FW 6 FW 7 FW 8 FW 9 FW 10 FW 11 FW 12 FW 13 FW 14 FW 15 FW 16 FW 17 FW 18 FW 19 FW 20 FW 21 FW 22 FW 23 FW 24 FW 25 FW 26 FW 27 FW 28 FW 29 FW 30 FW 31 FW
12: PCI_DEVID_0	1100 (default 0x00FC)
13: PCI_DEVID_1	1100 (default 0x00FC)
20: PCI_DEVID_2	1100 (default 0x00FC)
21: PCI_DEVID_3	1100 (default 0x00FC)
14: BUS_TYPE	0 PCI 1 AGP
15: FP_IFACE	0 248M 1 128M 2 128M 3 128M 4 128M 5 128M 6 128M 7 128M 8 128M 9 128M 10 128M 11 128M 12 128M 13 128M 14 128M 15 128M 16 128M 17 128M 18 128M 19 128M 20 128M 21 128M 22 128M 23 128M 24 128M 25 128M 26 128M 27 128M 28 128M 29 128M 30 128M 31 128M
23: FB_0	00 8M 01 8M 02 8M 03 8M 04 8M 05 8M 06 8M 07 8M 08 8M 09 8M 10 8M 11 8M 12 8M 13 8M 14 8M 15 8M 16 8M 17 8M 18 8M 19 8M 20 8M 21 8M 22 8M 23 8M 24 8M 25 8M 26 8M 27 8M 28 8M 29 8M 30 8M 31 8M
24: FB_1	00 8M 01 8M 02 8M 03 8M 04 8M 05 8M 06 8M 07 8M 08 8M 09 8M 10 8M 11 8M 12 8M 13 8M 14 8M 15 8M 16 8M 17 8M 18 8M 19 8M 20 8M 21 8M 22 8M 23 8M 24 8M 25 8M 26 8M 27 8M 28 8M 29 8M 30 8M 31 8M
25: BR	0 BRIDGE 1 BRIDGE 2 BRIDGE 3 BRIDGE 4 BRIDGE 5 BRIDGE 6 BRIDGE 7 BRIDGE 8 BRIDGE 9 BRIDGE 10 BRIDGE 11 BRIDGE 12 BRIDGE 13 BRIDGE 14 BRIDGE 15 BRIDGE 16 BRIDGE 17 BRIDGE 18 BRIDGE 19 BRIDGE 20 BRIDGE 21 BRIDGE 22 BRIDGE 23 BRIDGE 24 BRIDGE 25 BRIDGE 26 BRIDGE 27 BRIDGE 28 BRIDGE 29 BRIDGE 30 BRIDGE 31 BRIDGE
26: BR_128M	BR BITS IGNORED IF BRIDGE IS DISABLED
27: BR_AGP	0 AGP 1 AGP 2 AGP 3 AGP 4 AGP 5 AGP 6 AGP 7 AGP 8 AGP 9 AGP 10 AGP 11 AGP 12 AGP 13 AGP 14 AGP 15 AGP 16 AGP 17 AGP 18 AGP 19 AGP 20 AGP 21 AGP 22 AGP 23 AGP 24 AGP 25 AGP 26 AGP 27 AGP 28 AGP 29 AGP 30 AGP 31 AGP
28: BR_IO	0 BRIDGE 1 BRIDGE 2 BRIDGE 3 BRIDGE 4 BRIDGE 5 BRIDGE 6 BRIDGE 7 BRIDGE 8 BRIDGE 9 BRIDGE 10 BRIDGE 11 BRIDGE 12 BRIDGE 13 BRIDGE 14 BRIDGE 15 BRIDGE 16 BRIDGE 17 BRIDGE 18 BRIDGE 19 BRIDGE 20 BRIDGE 21 BRIDGE 22 BRIDGE 23 BRIDGE 24 BRIDGE 25 BRIDGE 26 BRIDGE 27 BRIDGE 28 BRIDGE 29 BRIDGE 30 BRIDGE 31 BRIDGE
29: RCM_TYPE_0	00 PARALLEL 01 SERIAL_AT25F 02 SERIAL_SST45VF 03 LPC
30: RCM_TYPE_1	00 PARALLEL 01 SERIAL_AT25F 02 SERIAL_SST45VF 03 LPC
16: USER_0	0000 (DEFAULT)
17: USER_1	0000 (DEFAULT)
18: USER_2	0000 (DEFAULT)
19: USER_3	0000 (DEFAULT)
PEX_PLL_EN_TERM100	
3GIO_PADCFG_LUT_ADDR[0]	
3GIO_PADCFG_LUT_ADDR[1]	



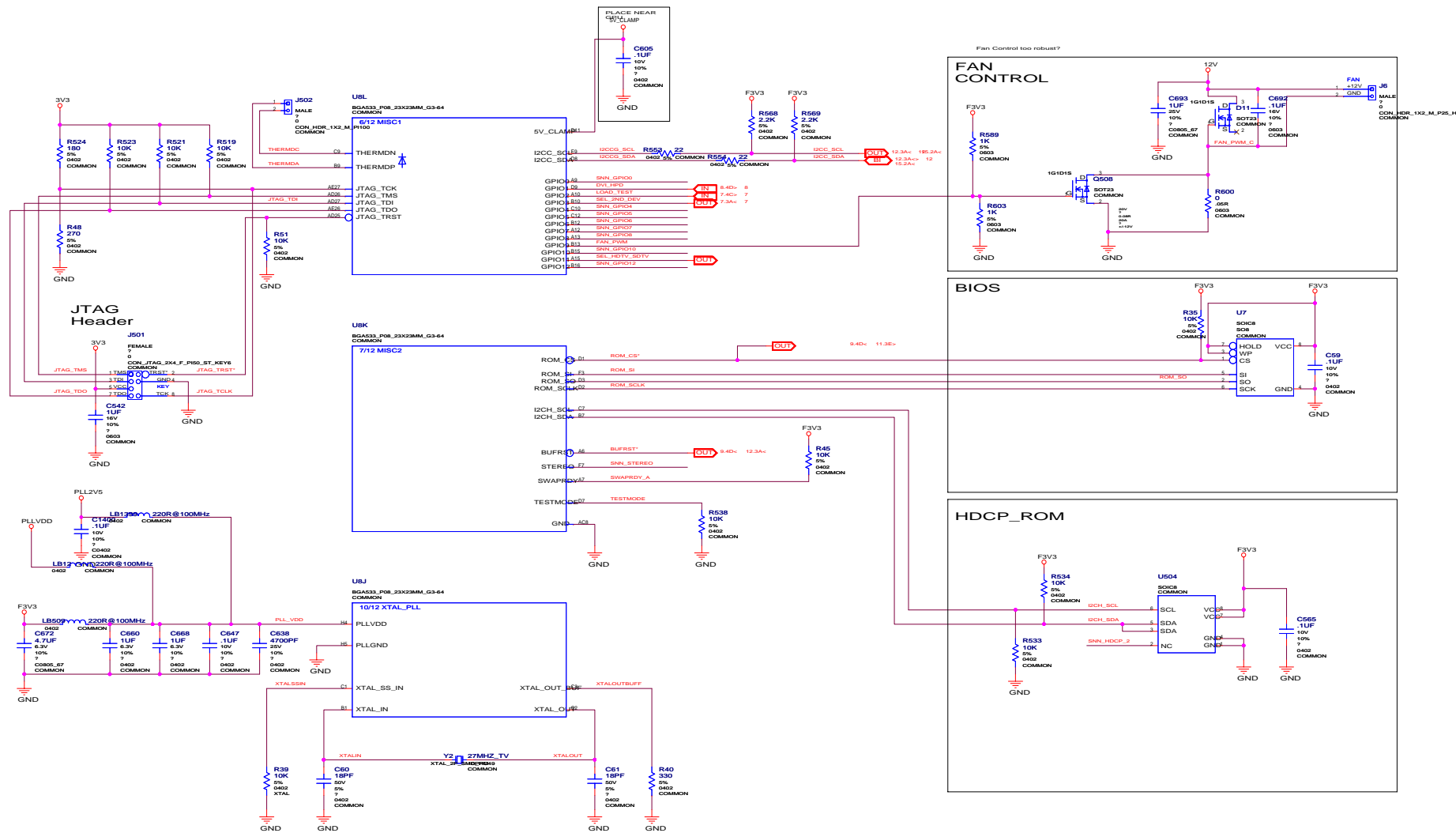
ASSEMBLY PAGE 44

BASE LEVEL GENERIC ONLY, COMMON & NO-STUFF ASSEMBLY NOTES AND

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XTAL, GPIO, BIOS, Fan Control, JTAG Headers

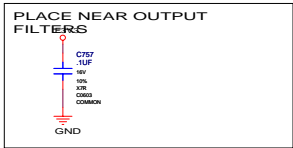
Net Name	NET_PHYSICAL_TYPE	NET_SPACING_RULE
PLVDD	5MIL_TRACE	20MIL
PLVDD	5MIL_TRACE	20MIL
PLVDD	12MIL_TRACE	10MIL
DMB_PLVDD	12MIL_TRACE	10MIL



ASSEMBLY	BASE LEVEL GENERIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND
PAGE	BOM NOT FINAL XtAL, GPIO, BIOS, Fan Control, JTAG Headers

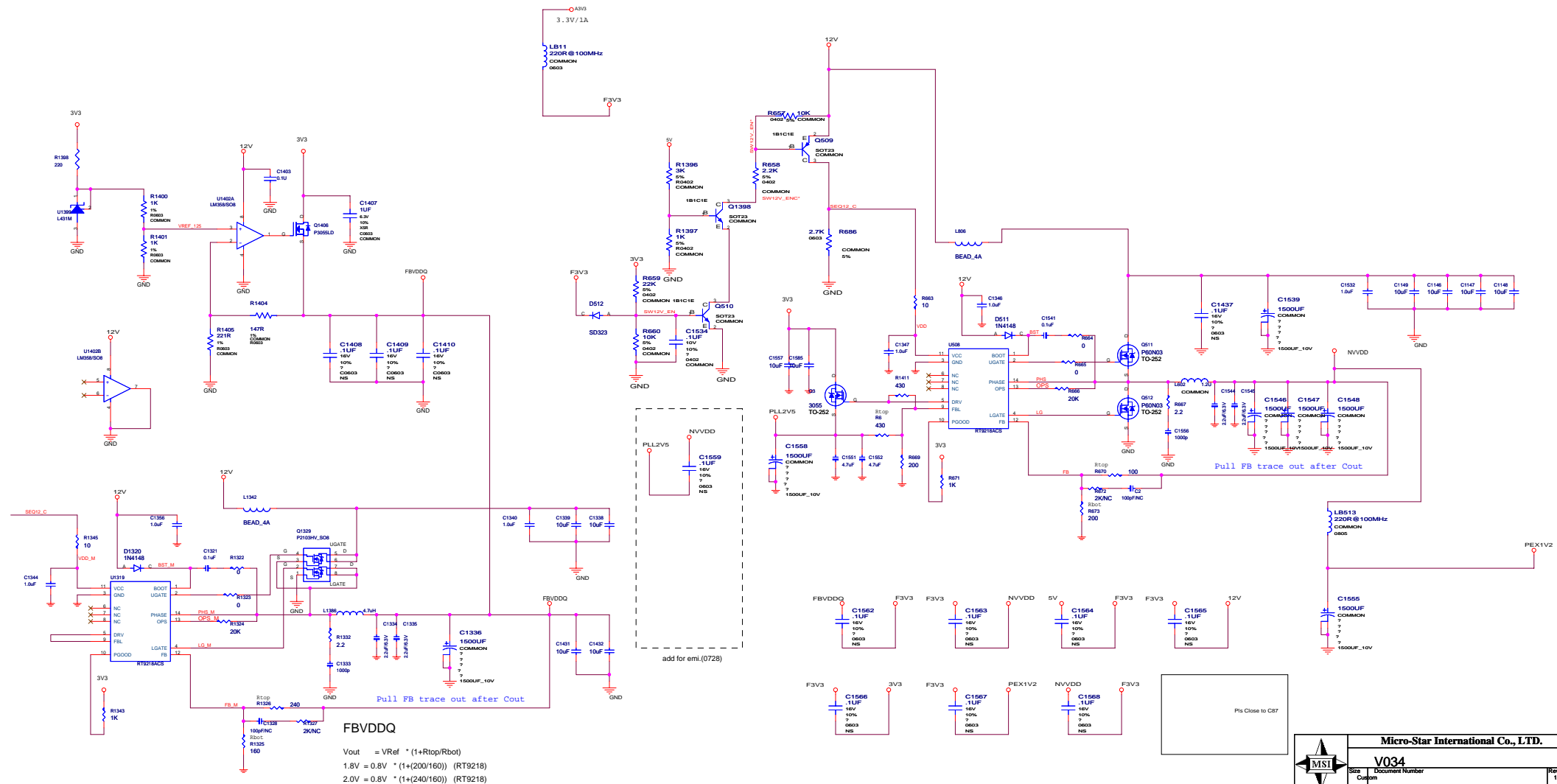
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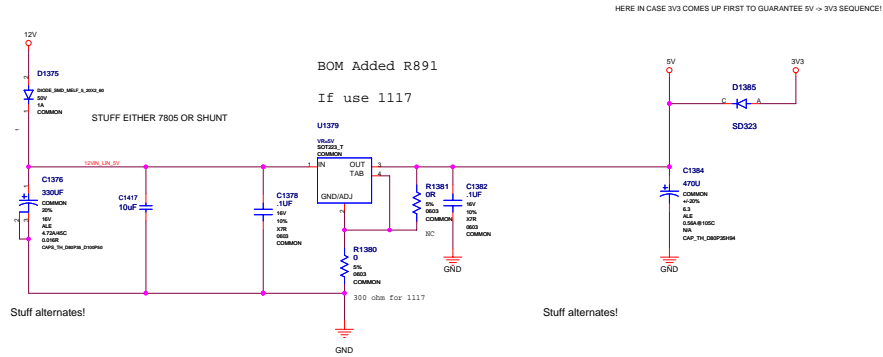
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PowerSupplyII: 5V, DDC5V, A3V3, F3V3, TMDS_PLLVDD



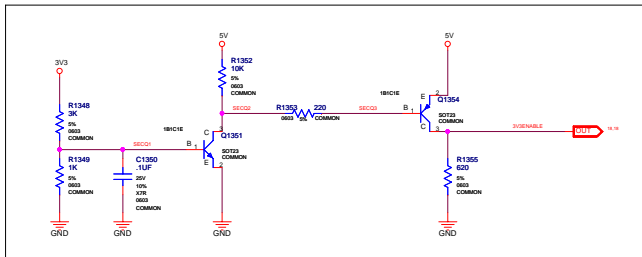
14 Others Power Supply (Linears)

5V,FBVDDQ,A3V3,3V3,TMDS_PLLVDD,TMDS_IOVDD,FBVTT



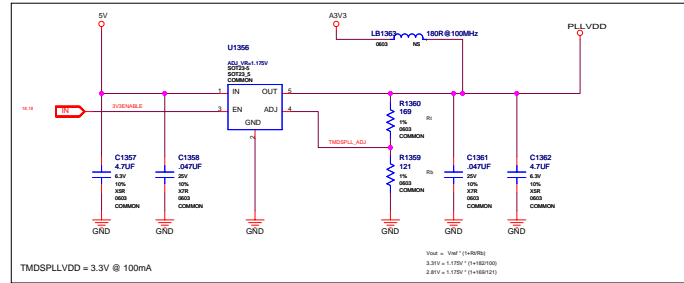
5V LOW COST REGULATOR

Power Sequencing

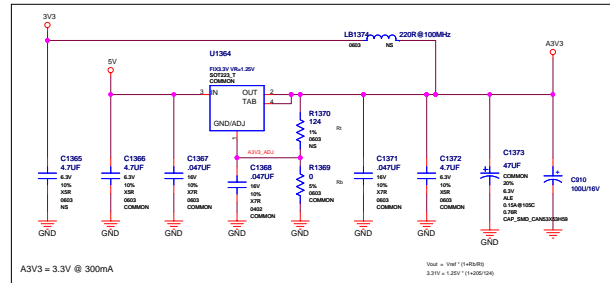


5V and PEX3V3 UP .. ALL OTHER LINEARS UP

TMDS PLL Supply



A3V3 Power Supply



5V_CLAMP

