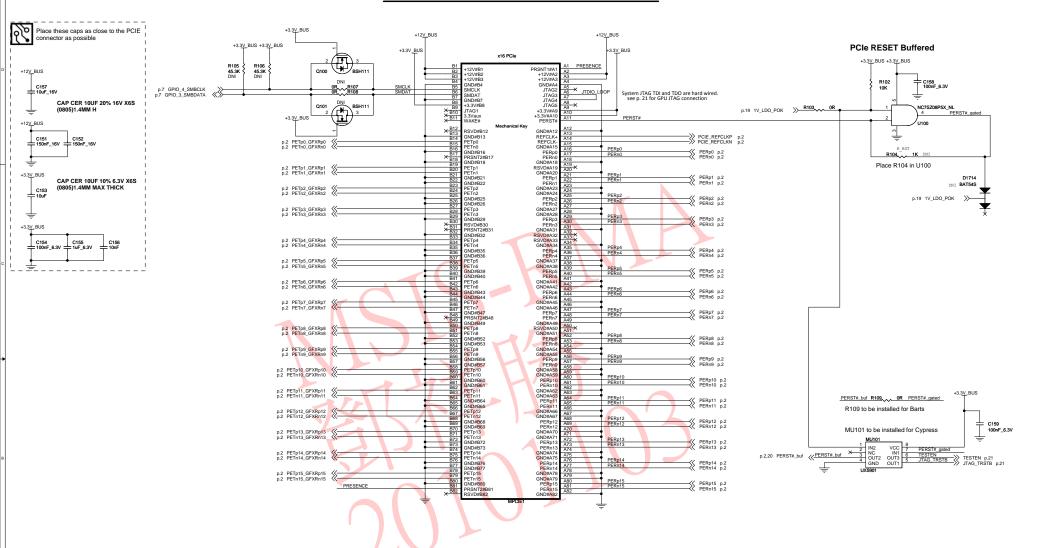
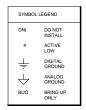
## PCI-EXPRESS EDGE CONNECTOR

Koopa

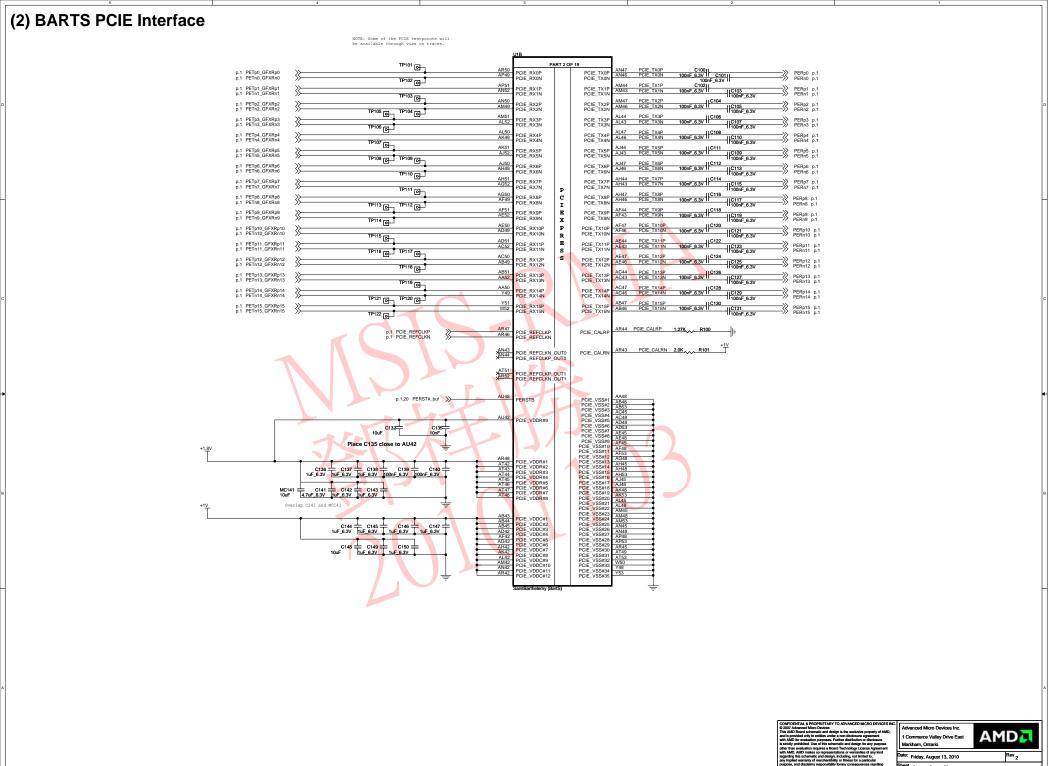




AMD

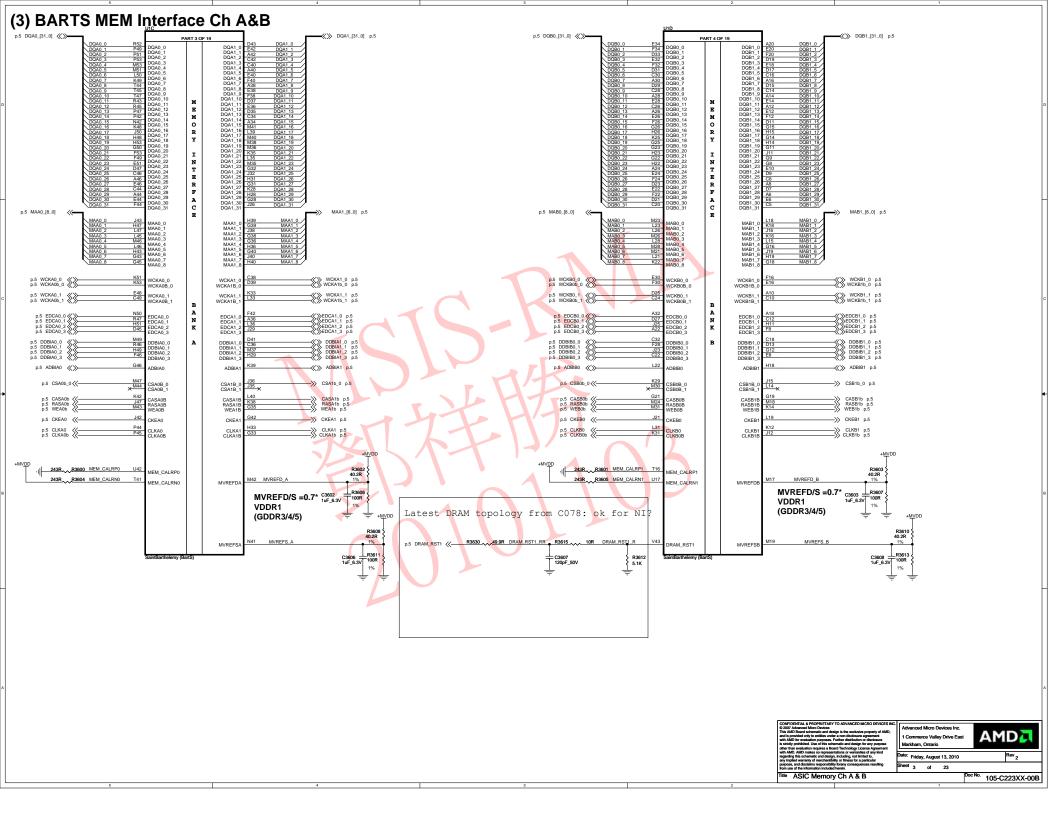
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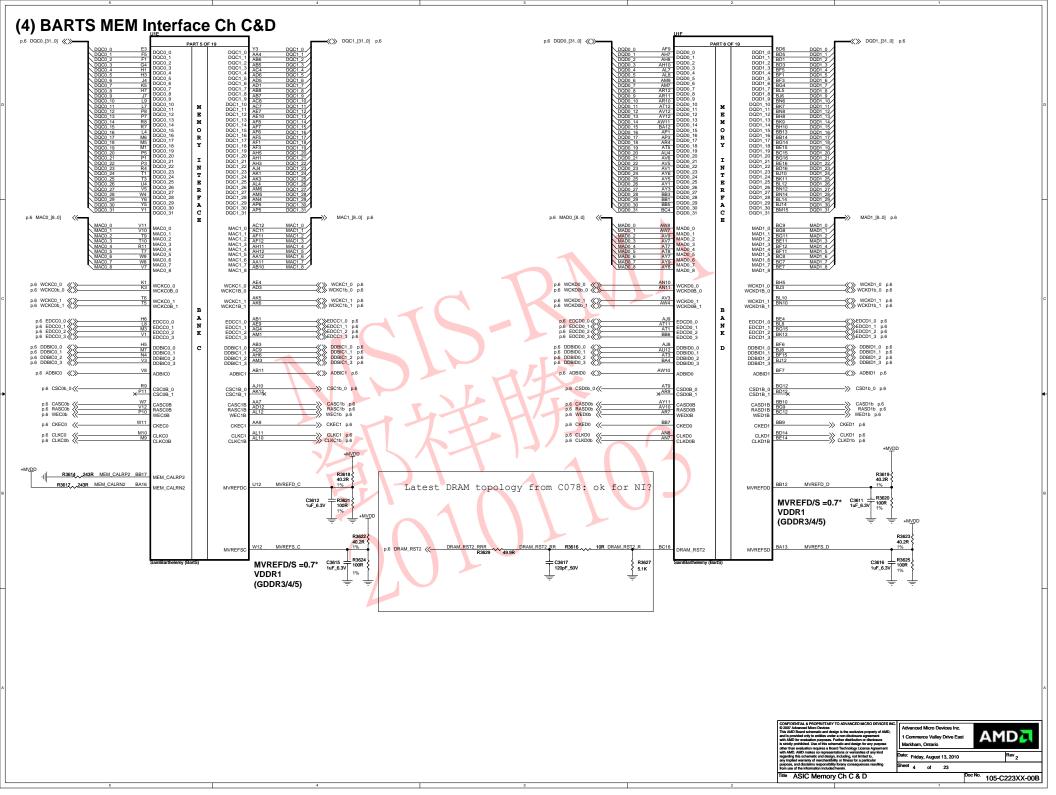


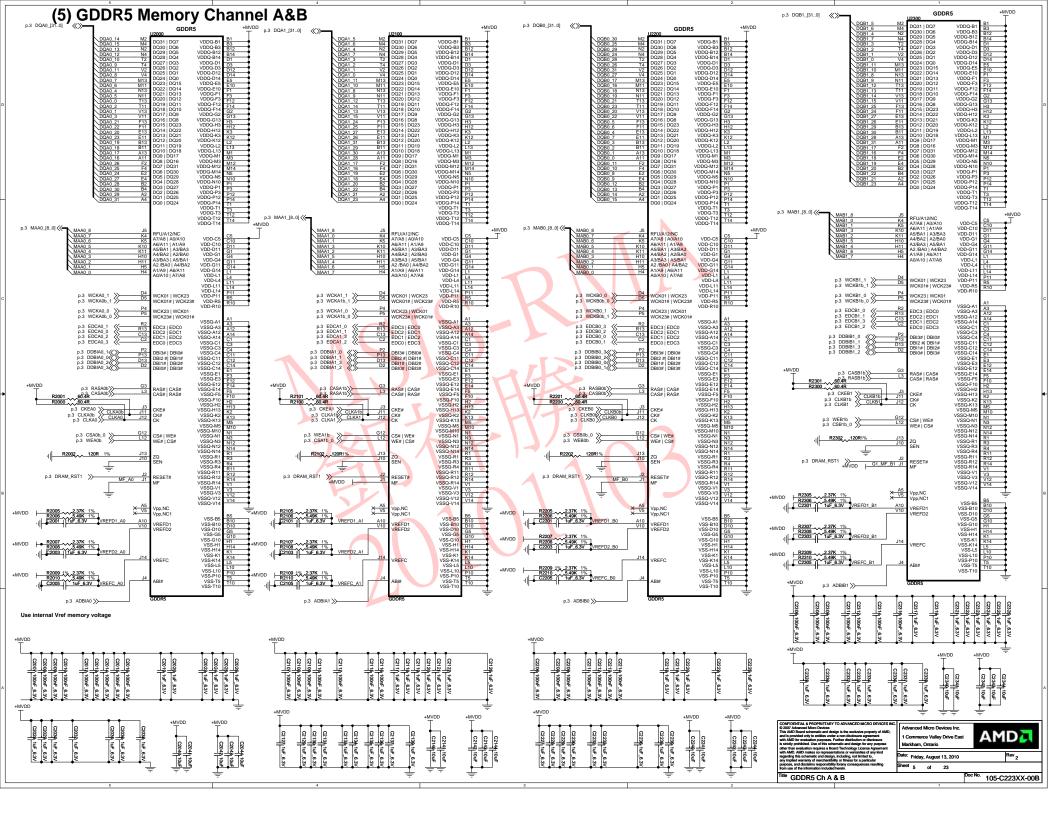


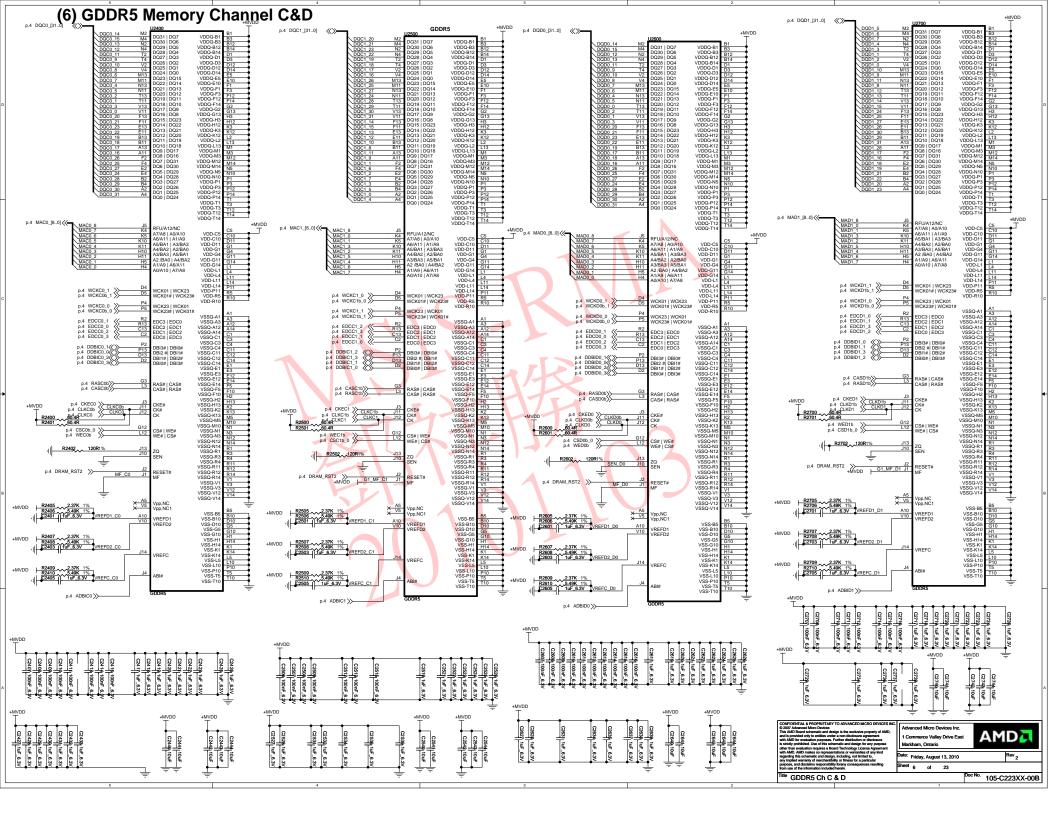
ASIC PCIE Interface

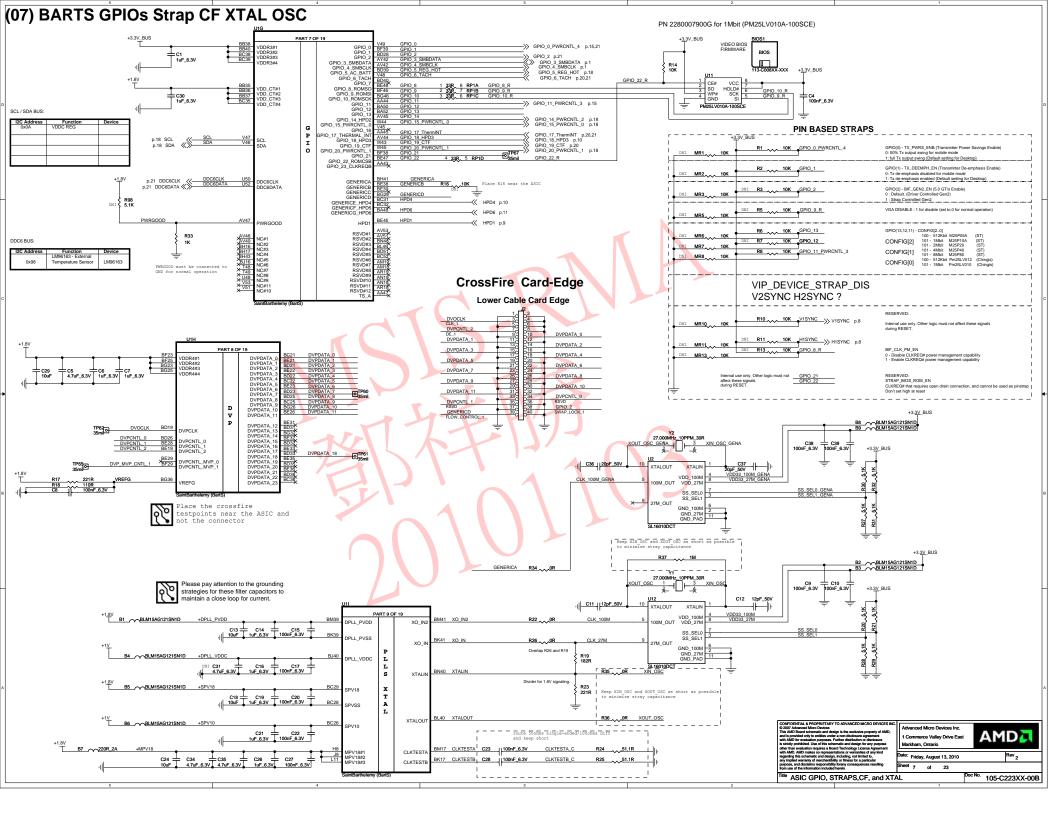
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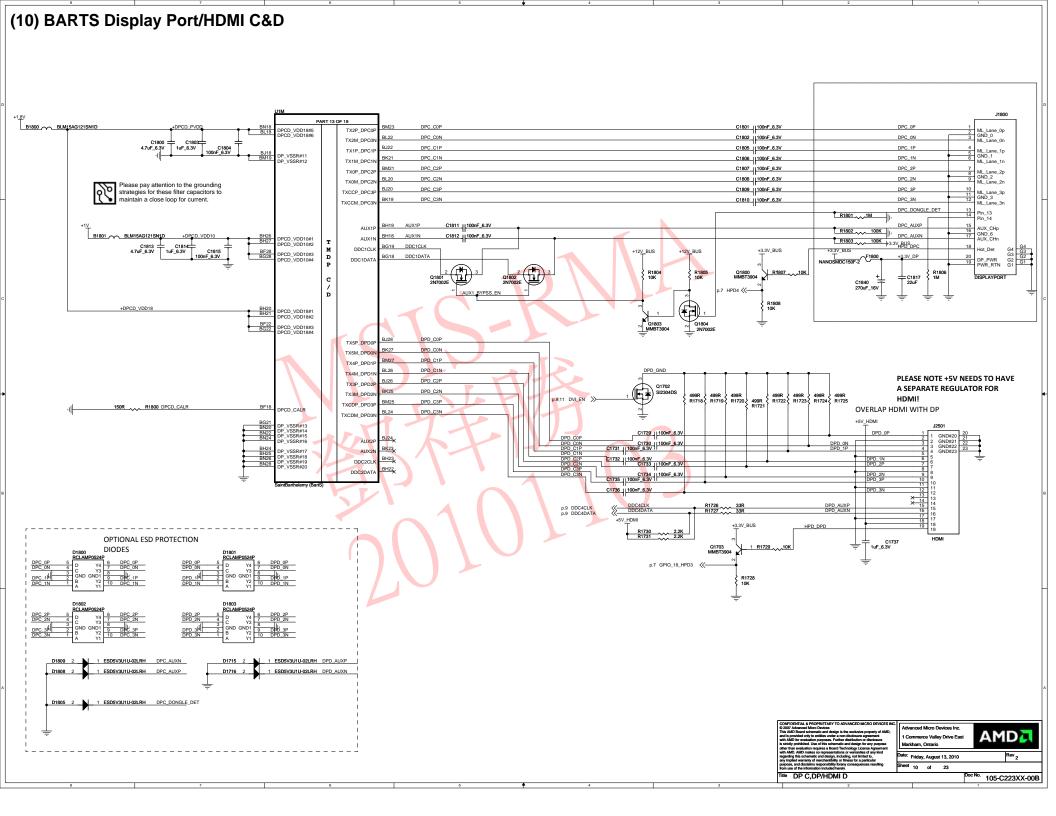


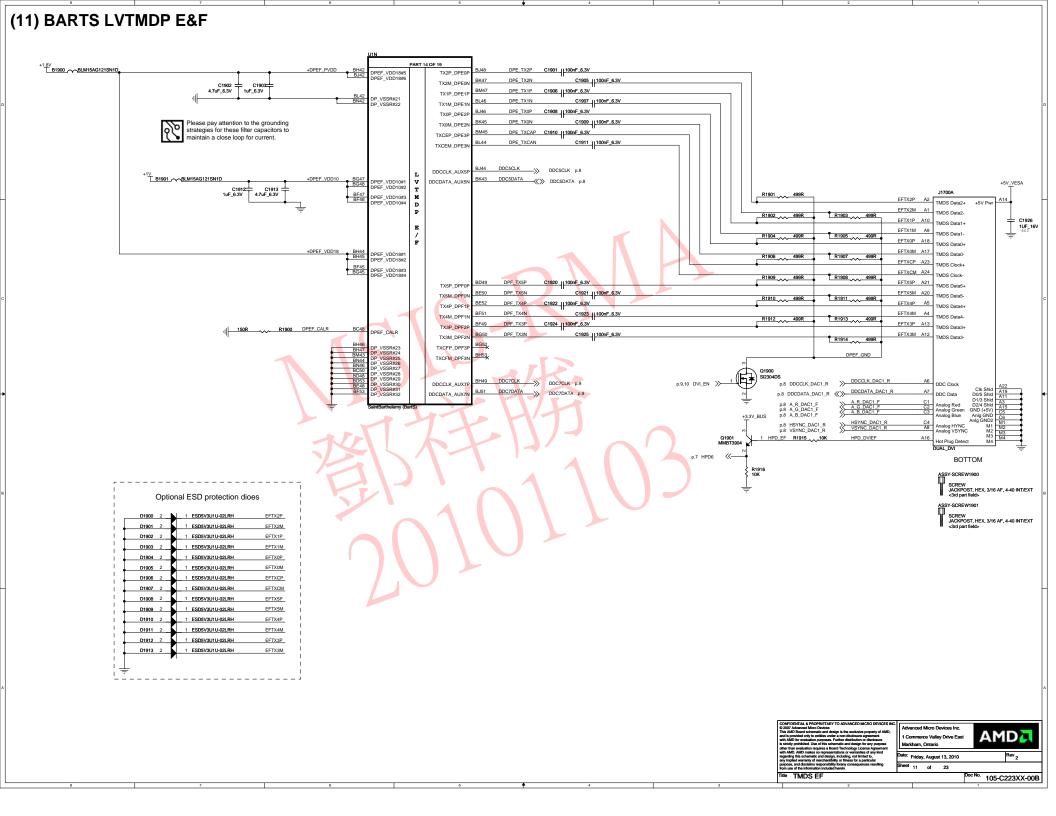


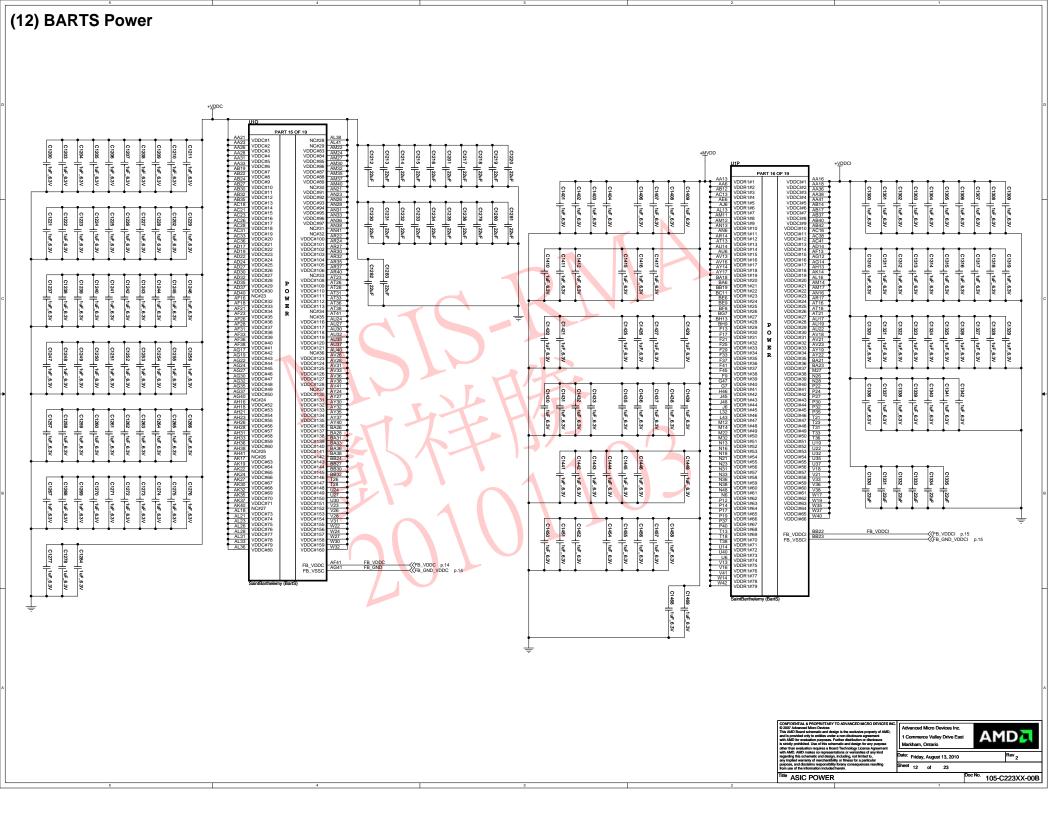


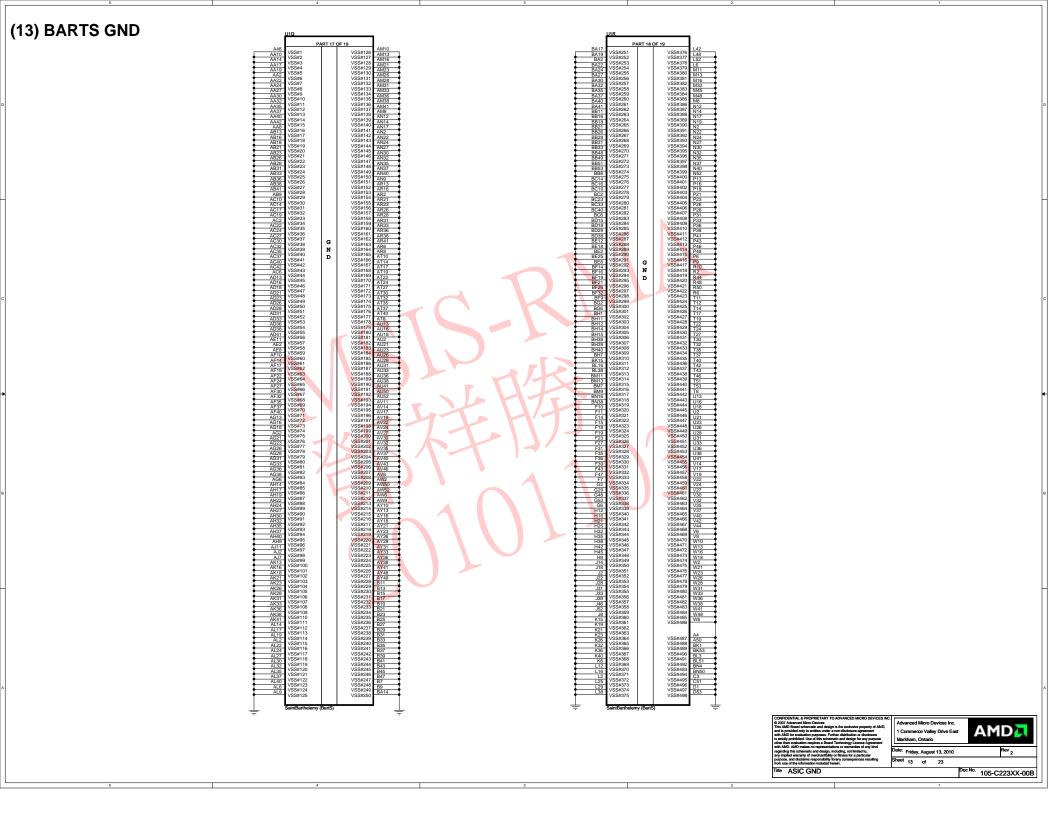
## (08) BARTS DAC1 OPTIONAL ESD PROTECTION DIODES 1 ESD5V3U1U-02LRH A\_G\_DAC1\_F See BOM for qualified filters Pseudo differential RGB should be routed from the ASIC to the display connector without switching reference plane or running over split plane DDCDATA DAC1 R 1 ESD8V0R1B-02LRH DDCCLK\_DAC1\_R +1\_8V B1600 BLM15AG121SN1D +VDD1DI AY47 R\_DAC1 AY46 RB\_DAC1 1 ESD8V0R1B-02LRH HSYNC\_DAC1\_R VDD1DI R1501 C1504 8.0pF C1503 T 402 12pF\_50V 1 ESD8V0R1B-02LRH VSYNC\_DAC1\_R 75R 402 R1503 +5V VESA A C R1504 C1506 75R 8.0pF B1601 \_\_\_\_\_ BLM15AG121SN1D +AVDD\_DAC1 BB45 R1505 R1506 2.2K AVDD 402 12nF 50V R1508 37.4R vssq BC47 B\_DAC1 BC46 BB\_DAC1 R1509 C1509 75R 8.0pF 402 402 R1510 \_\_\_\_ 33F DDCDATA\_DAC1\_R p.11 DDC5DATA «» ✓ DDCDATA\_DAC1\_R p.11 DDCCLK DAC1 R R1512 33R DDCCLK DAC1 R p.11 RSET p.11 DDC5CLK >>-R1513 HSYNC\_DAC1\_R VSYNC\_DAC1\_R HSYNC\_DAC1\_R p.11 VSYNC\_DAC1\_R p.11 Please pay attention to the grounding strategies for these filter capacitors to maintain a close loop for current. C1514 \_\_\_\_100nF\_6.3V p.7 H1SYNC <<-24R 402 HSYNC\_DAC1\_R R1514 . C1512 12pF\_50V 74VHCT125 U1500B VSYNC\_DAC1\_ Cypress backward compatibility when no display? Barts Cypress BGA TSS supply? NCDD B2D BG40 NC□□ B2B□ BF40 PART 11 OF 19 NCDD COMPD BE40 NC#15 NC#16 BG42 BF42 NC□□ G2□ BG43 NCDD G2BD BF43 NC R2 BG42 NCCC R2BC BF42 Barts□□ Cypress□ BGA NC#17 BF43 NC#18 SWAPLOCKAD R2SETD BC42 NCOO A2VDDO BD42 TSVSSQ DD A2VSSQD BC4 NC□□ A2VDDQ□ BC45 NCDD VDD2DID AY44 NCDD VSS2DID AW44 BG40 BF40 NC#19 NC#20 GENLK CLK□ H2SYNC□ BG38 GENLK VSYNC□ V2SYNC□ BG39 Need to check for grounding TP01 35mil - please do not add extra vias TSVSSQ □□ A2VSSQ□ BC43 □ TP02 SWAPLOCKB Y BE43 NC C BE42 TP03 35mil TP04 API OCK NC#21 NC#22 <u>o</u> SWAPLOCKA RSVDDD NM VDDCD AM19 RSVD□□ NM VDDCI□ AR19 RSVDDD NM VDDR10 AN18 RSVDDD NM VSSD AM18 RSVDDD NM VSSD AN19 RSVDDD NM VSSD AR18 VSS VSS\_MECH (12x) larkham Ontario ate: Friday, August 13, 2010 Power Management No. 105-C223XX-00B

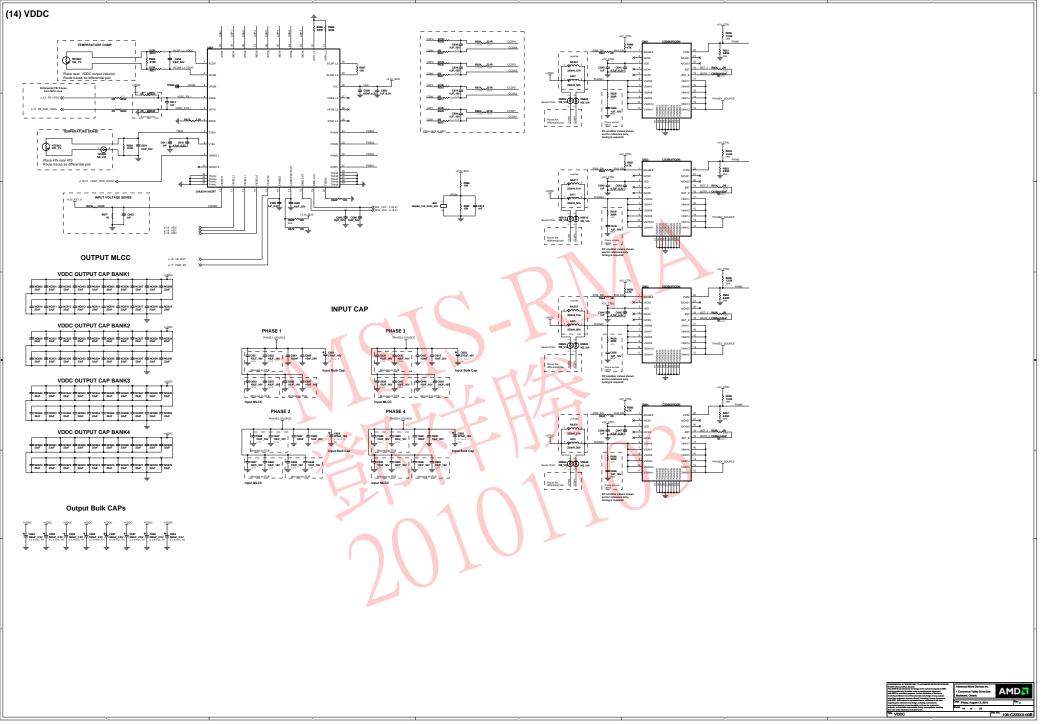
## (09) BARTS TMDS A&B 1.8V to be merged: which bead to use in case of merge? 1 bead for all the rails? PART 12 OF 19 DPA\_TX2N C1702 4.7uF\_6.3V DPA\_TX1P DPA\_TX1N TX1M DPA1N DPA\_TX0P TX0P\_DPA2F Please pay attention to the grounding strategies for these filter capacitors to TX0M\_DPA2N maintain a close loop for current. DPA\_TXCAP TXCAP\_DPA3F DPA\_TXCAN TXCAM\_DPA3N DDC3CLK DDCCLK\_AUX3I +1V B1701 BLM15AG121SN1D +5V VESA C1713 : 4.7uF\_6.3V C1701 ||100nF\_6.3V L1701 7.5nH\_5% TMDS\_Data2+ C1705 ||100nF\_6.3V L1705 7.5nH\_5% 1.0V to be merged: TMDS Data2. R1702 \_\_\_\_\_ 499R C1706 100nF\_6.3V L1706 7.5nH\_5% C1712 DPA\_TX1P ABTX1P B10 which bead to use in case of merge? 1 bead for all the rails? 1UF\_16V TMDS Data1+ C1707 100nF 6.3V L1707 7.5nH\_5% ABTX1M B9 TMDS Data1-R1704 00 499R C1708 100nF\_6.3V L1708 7.5nH\_5% C1709 || 100nF 6.3V L1709 7.5nH\_5% BH33 R1706 499R R1707 499R DPA TXCAP C1710 | 100nF\_6.3V TMDS Clocks DPAB\_VDD18#3 DPAB\_VDD18#4 DPA\_TXCAN C1711 100nF\_6.3V ABTXCM B24 TMDS Clock-R1709 \_\_\_\_ 499R R1708 C1720 | 100nF\_6.3V TMDS\_Data5+ TX5P\_DPB0I C1721 100nF\_6.3V C1722 | 100nF\_6.3V C1723 | 100nF\_6.3V TX4M DPB1 TMDS Data4-R1712 \_\_\_\_ 499R R1713 \_\_\_\_ 499R C1724 100nF\_6.3V ABTX3P B13 DPB TX3P TX3P DPB2F TMDS Data3+ DPAB\_CALR\_BF36 DPAB CALR ABTX3M B12 C1725 100nF 6.3V TX3M\_DPB2N TMDS\_Data3-R1714 499R BM35 DP\_VSSR#3 DP\_VSSR#4 DP\_VSSR#5 DP\_VSSR#6 TXCBP\_DPB3P BL34 TXCBM\_DPB3N DP\_VSSR#7 DP\_VSSR#8 DP\_VSSR#9 DP\_VSSR#10 BJ34 DDC4CLH p.10,11 DVI\_EN \_\_DDC7CLK\_R DDC4CLK p.10 DDCCLK AUX4 DDC Clock BK33 DDC4DATA DDC7DATA\_R DCDATA\_AUX4I DDC\_Data +3.3V BUS Optional ESD protection dioes Q1701 MMBT3904 Hot Plug Detect 1 ESD5V3U1U-02LRH DUAL\_DVI TOP ASSY-SCREW1700 SCREW JACKPOST, HEX, 3/16 AF, 4-40 INT/EXT <3rd part field> D1704 2 1 ESD5V3U1U-02LRH D1705 2 ASSY-SCREW1701 D1706 2 1 ESD5V3U1U-02LRH +5V\_VESA SCREW JACKPOST, HEX, 3/16 AF, 4-40 INT/EXT <3rd part field> D1708 2 D1710 2 1 ESD5V3U1U-02LRH ABTX4P ABTX4M 1 ESD5V3U1U-02LRH p.11 DDC7CLK >> DDC7CLK p.11 DDC7DATA >>> DDC7DATA arkham Ontario te: Friday, August 13, 2010 No. 105-C223XX-00B

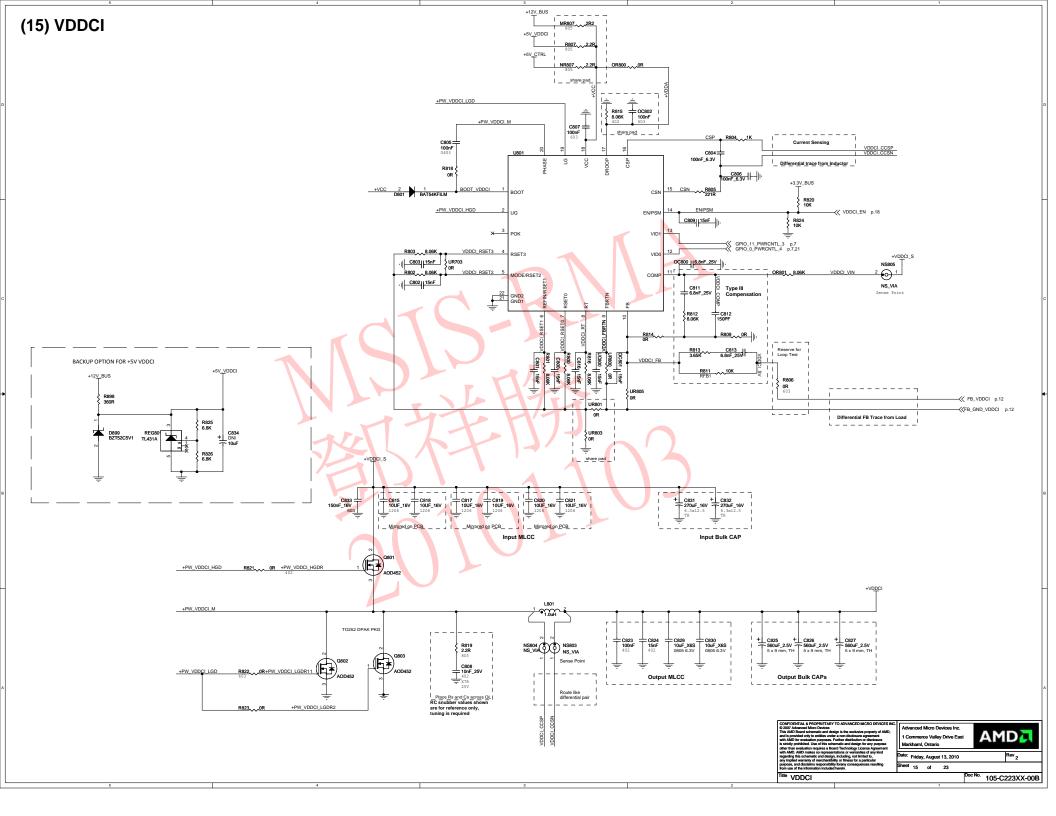


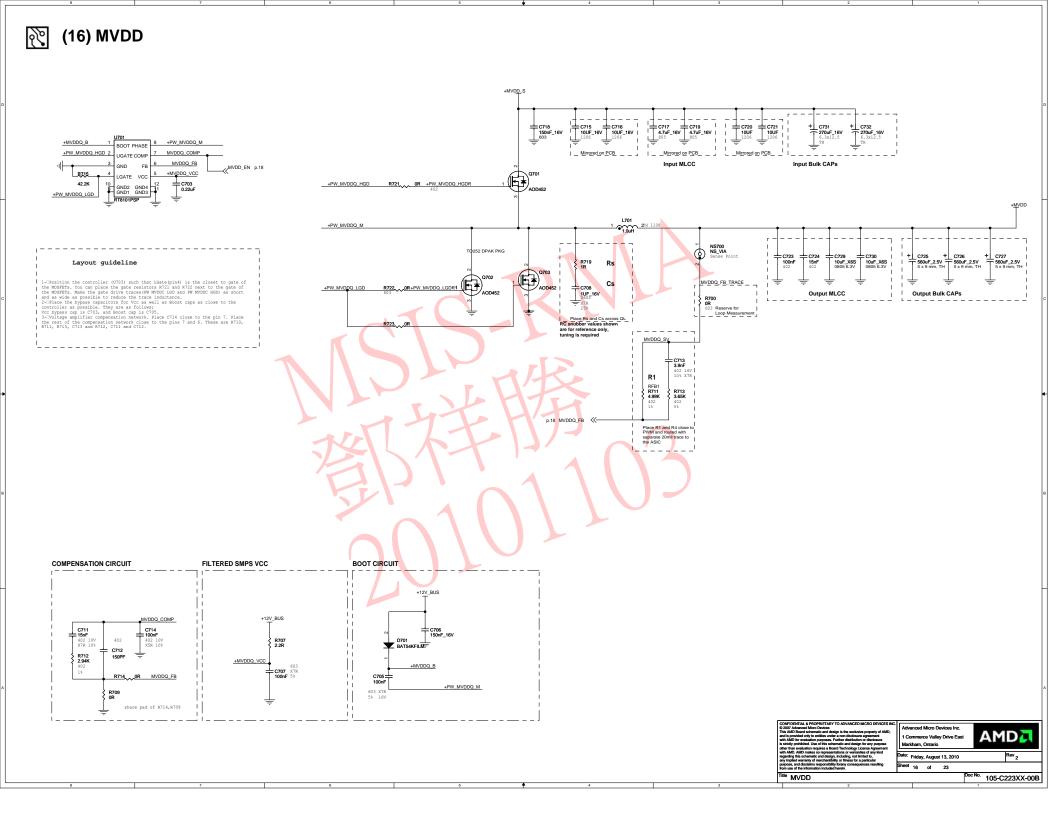


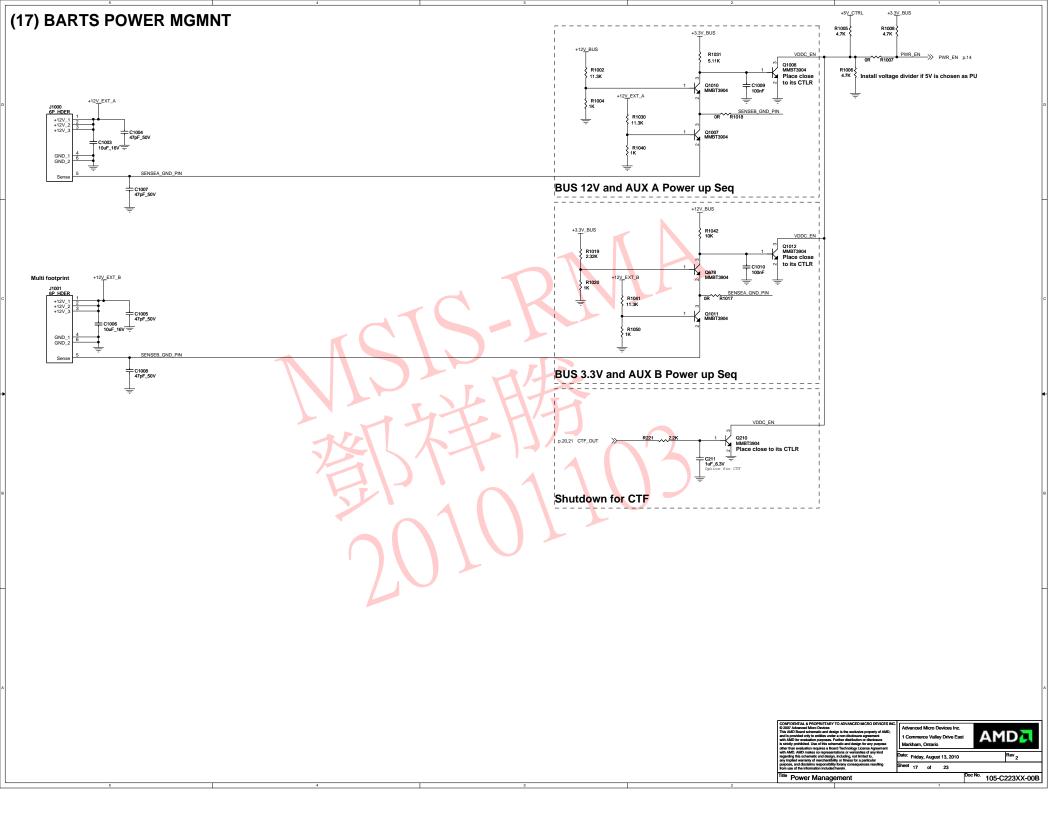


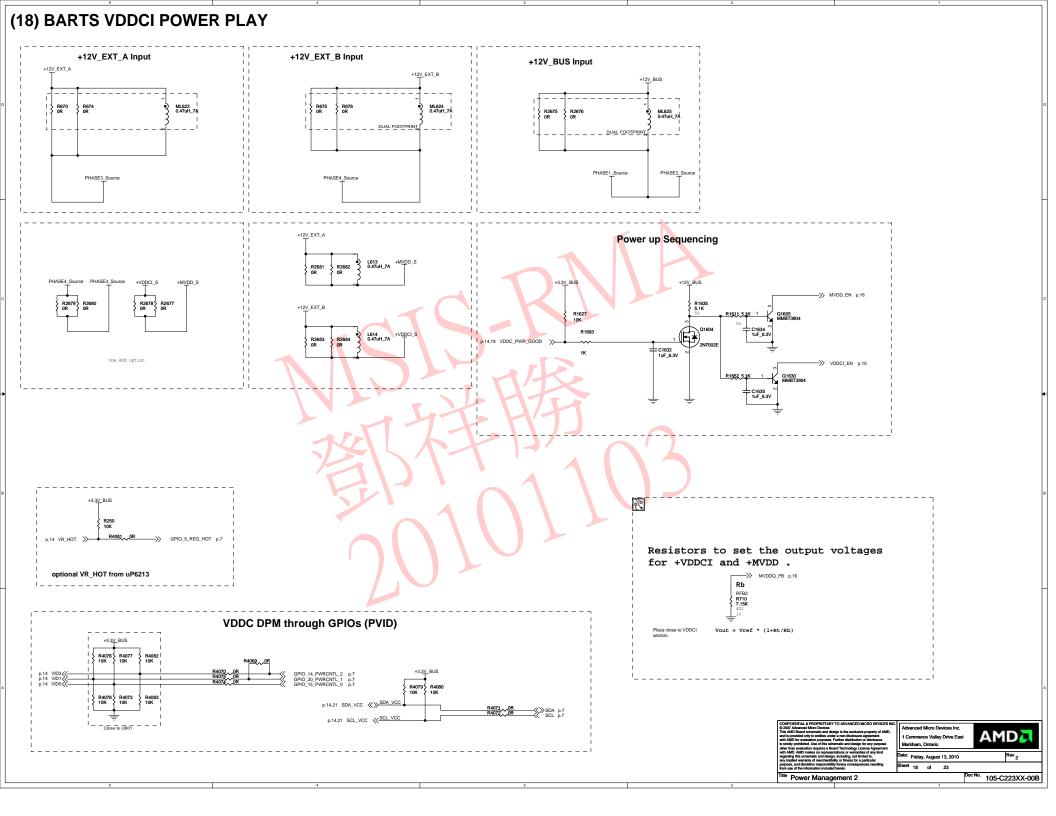


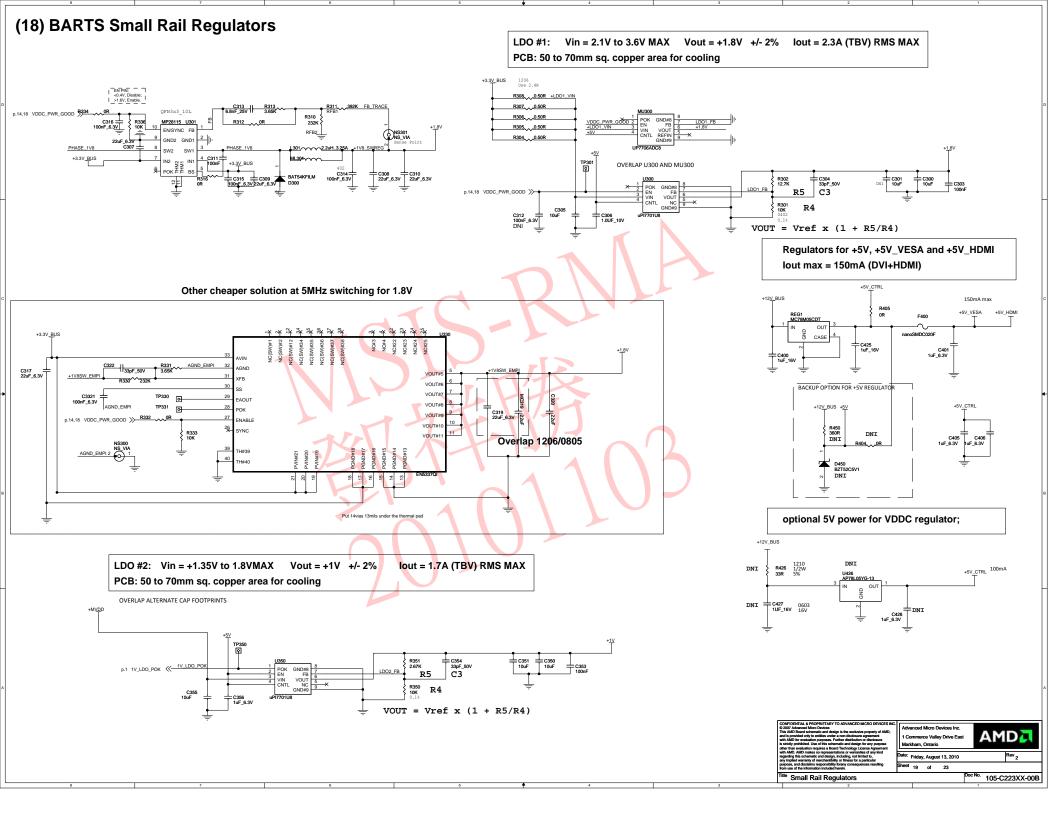


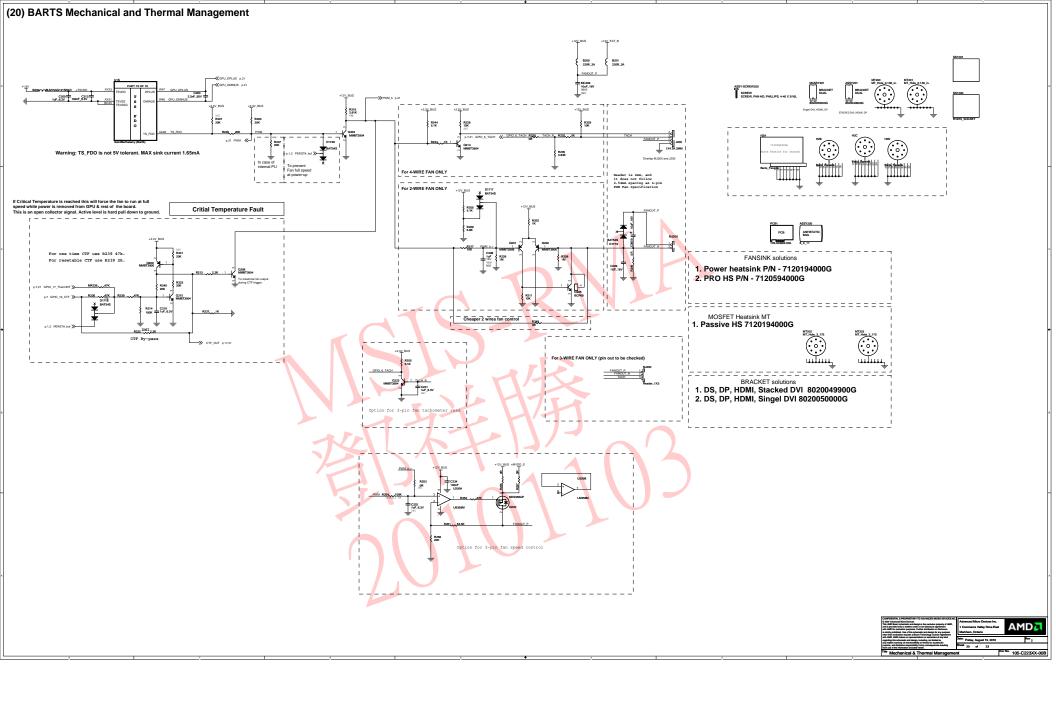


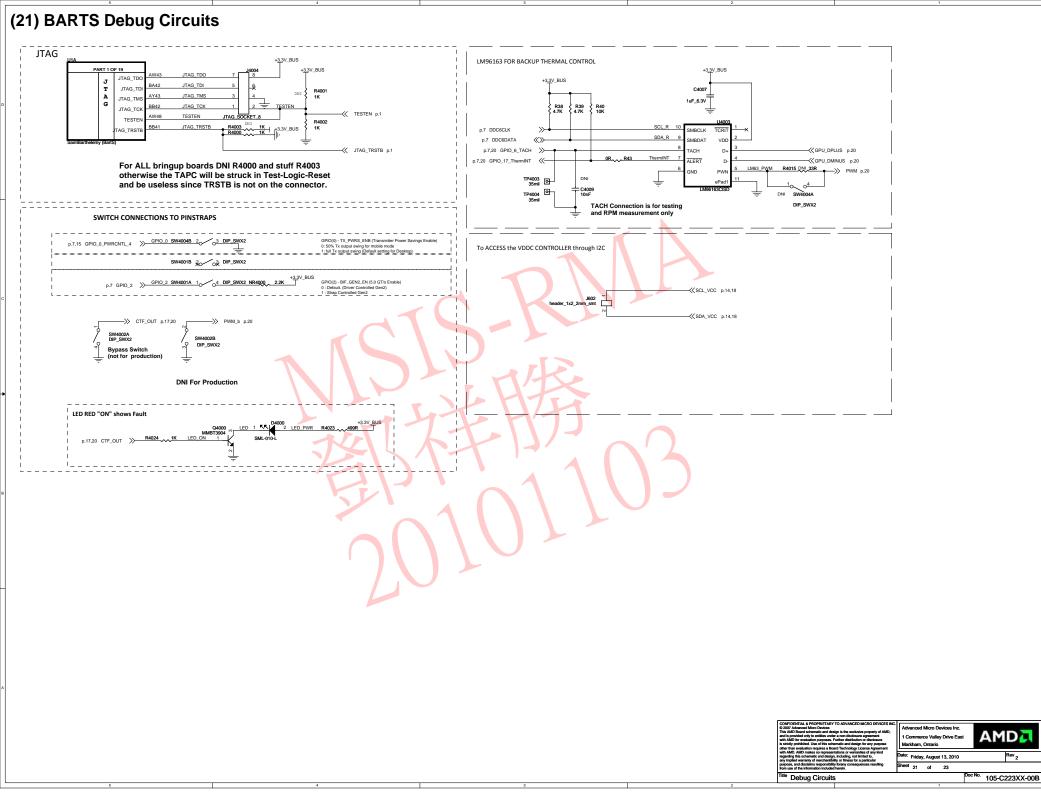


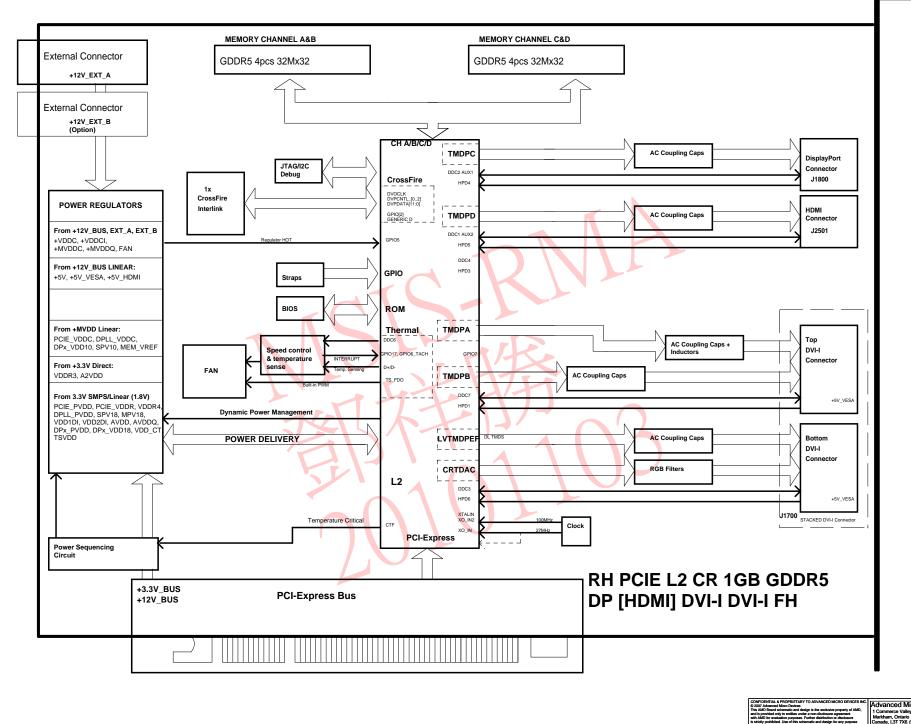












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