

PCI-EXPRESS EDGE CONNECTOR

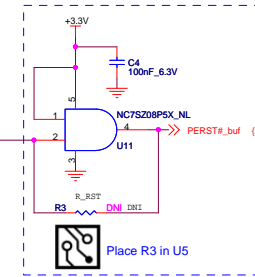
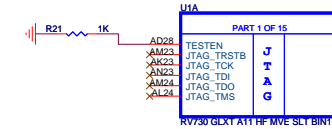
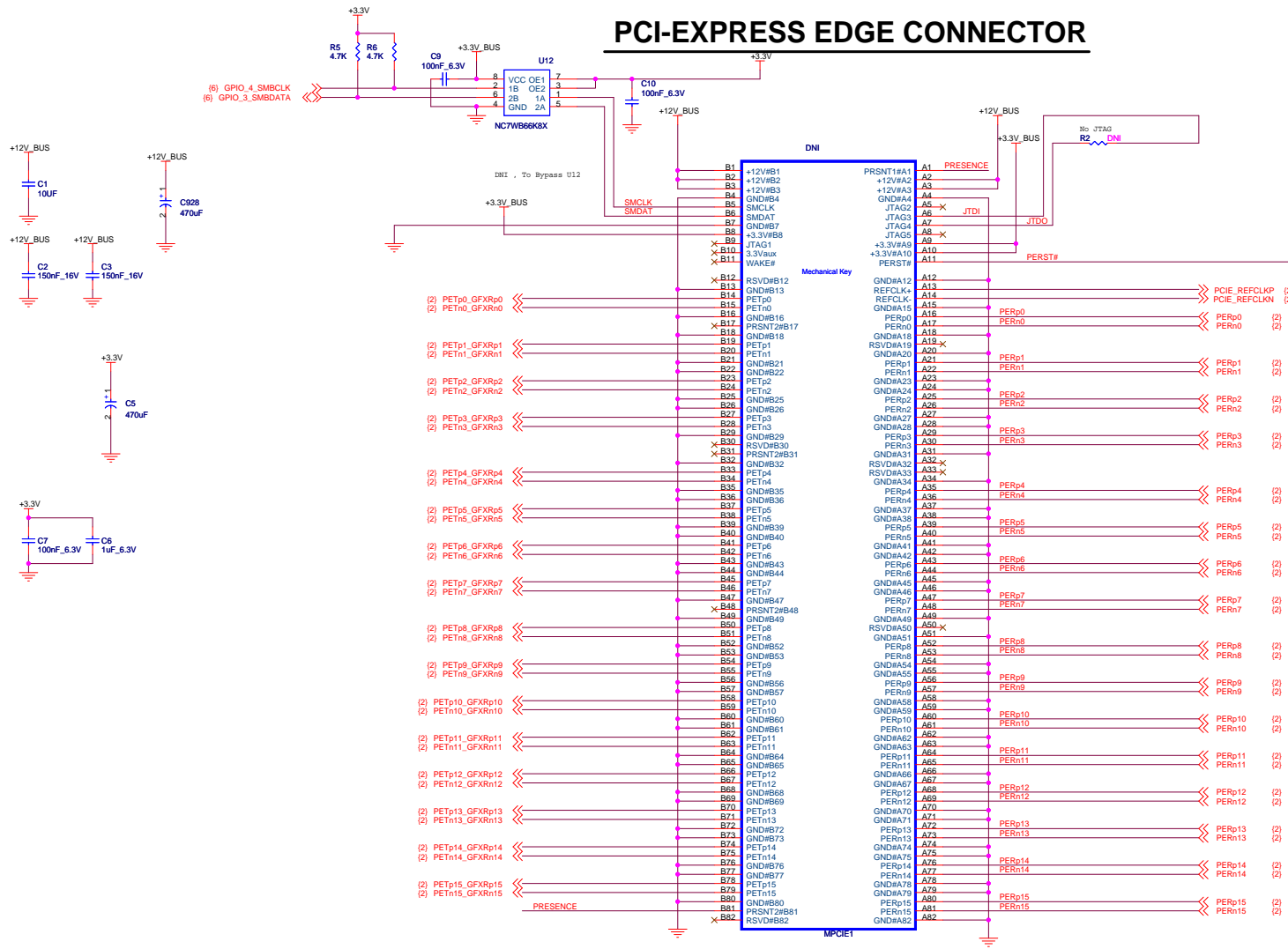


Table 1: Connection for JTAG

Production (No JTAG)	Install R1, R2 & Don't Install TSW1	
Internal Use Only	JTAG	TSW1 Switch #1, 2, 3, 4, 5 and 6 closed (ON) #8 and 7 open
	NO JTAG	TSW1 Switch #1, 2, 3, 4, 5 and 6 open #8 & 7 closed (ON)

TSW1, R1 & R2 are located on the bottom side of the board close to PCIe connector.

SYMBOL LEGEND	
DNI	DO NOT INSTALL
#	ACTIVE LOW
	DIGITAL GROUND
	ANALOG GROUND
BUO	BRING UP ONLY

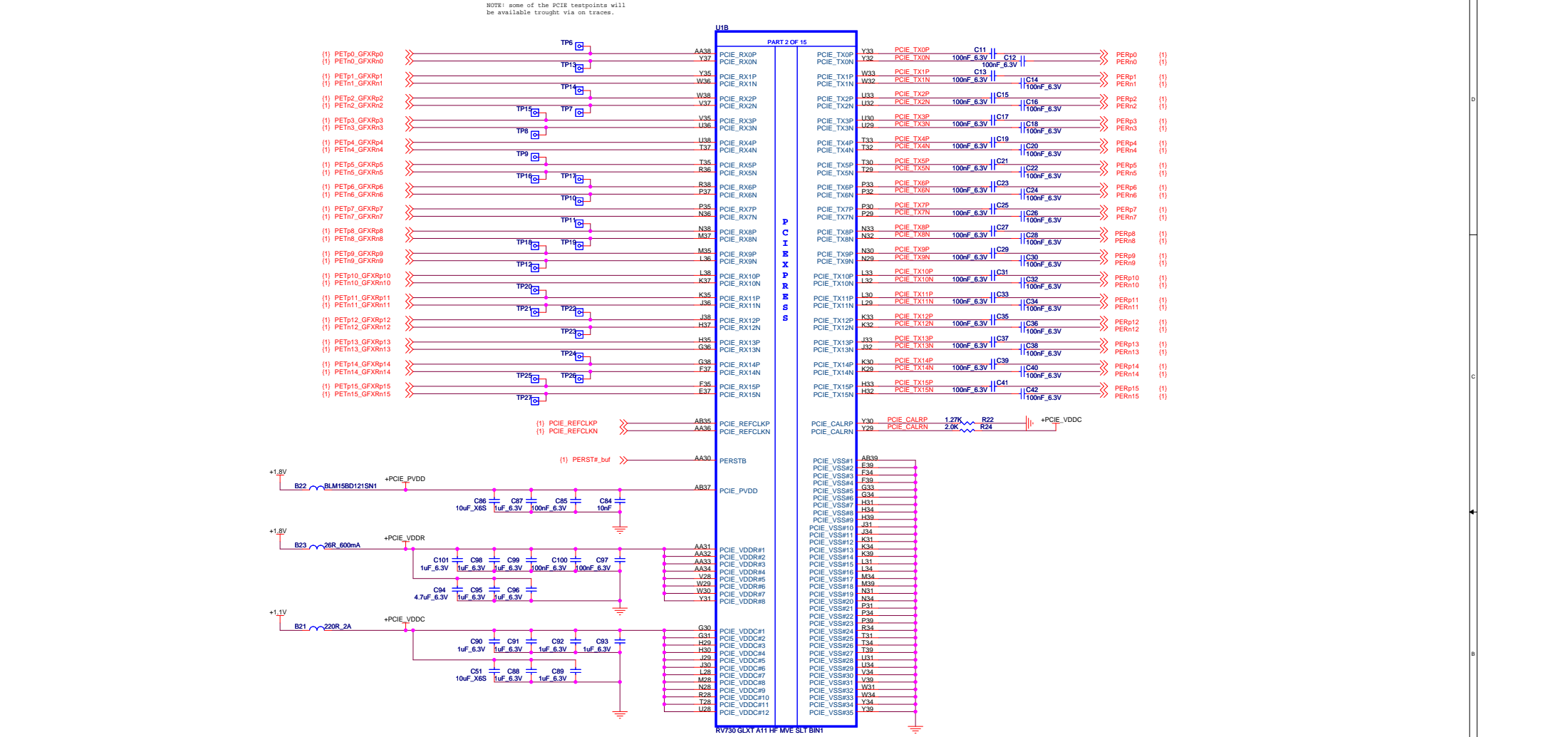
CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
7207 Advanced Micro Devices
This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from use of the information included herein.

Advanced Micro Devices Inc.
1 Commerce Valley Drive East
Markham, Ontario

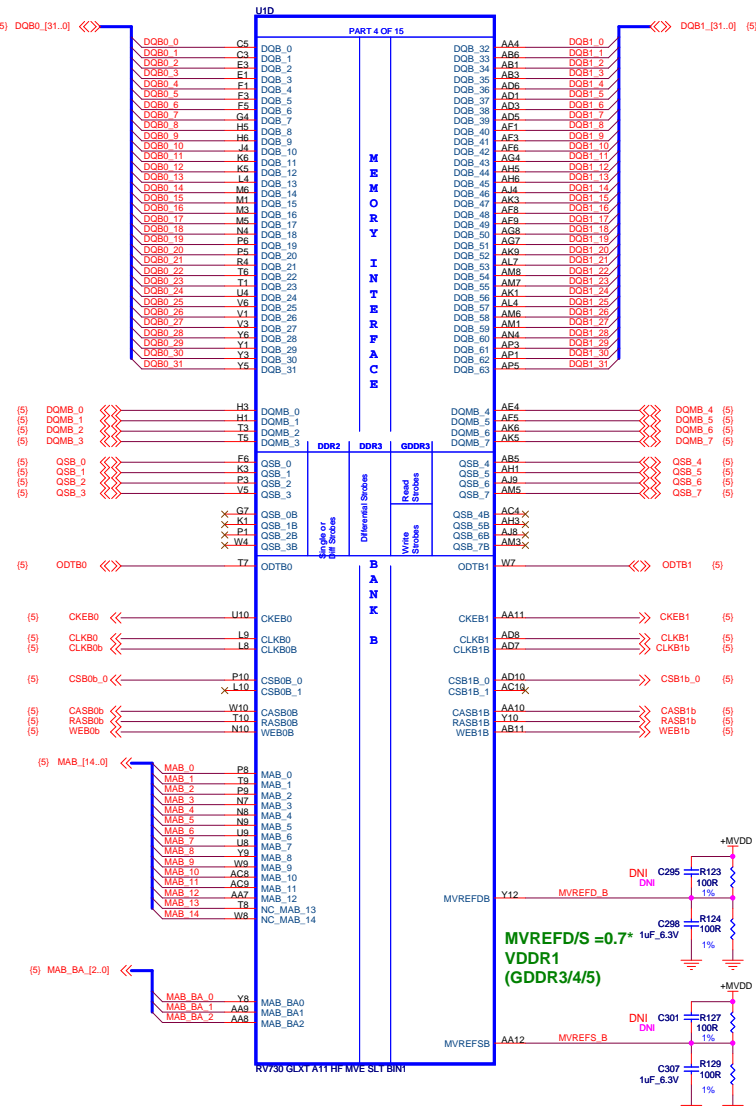
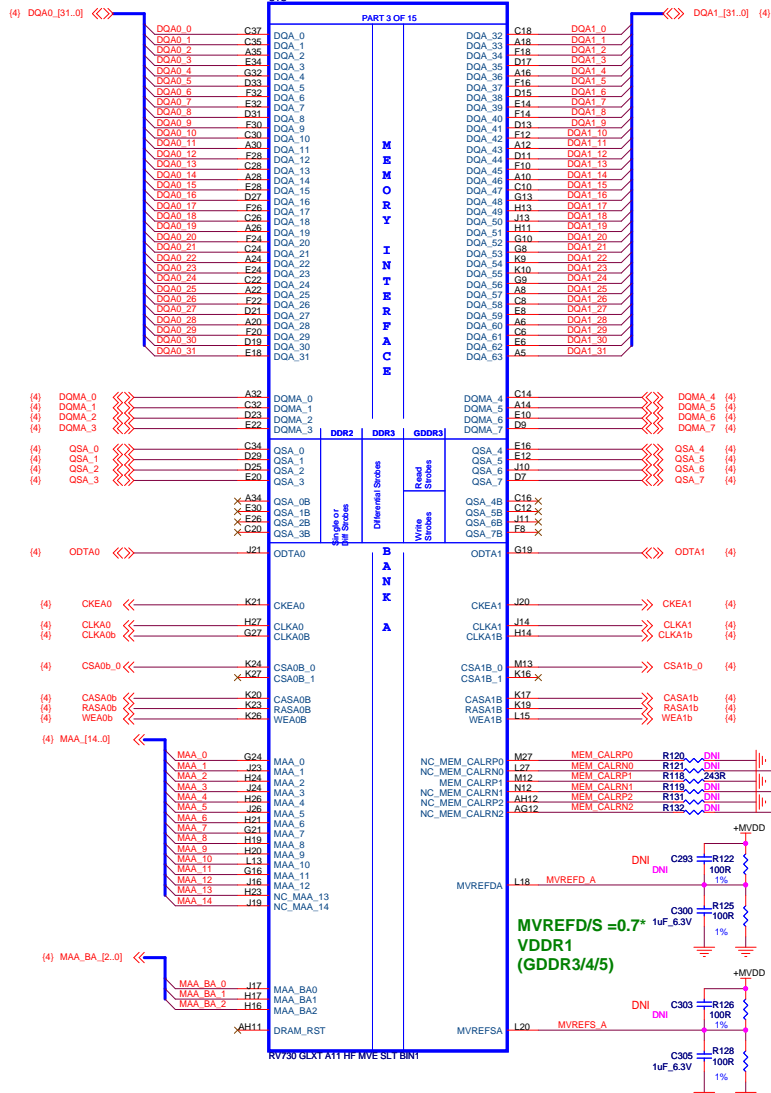
Date: Thursday, November 06, 2008
Sheet 1 of 10
Rev 0

Title RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6' Doc No. 105-B665xx-00A

(2) RV730 PCIe Interface



(3) RV730 MEM Interface Ch A&B



CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
72007 Advanced Micro Devices
This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from the use of the information disclosed herein.

Advanced Micro Devices Inc.
1 Commerce Valley Drive East
Markham, Ontario

AMD

Date: Thursday, November 06, 2008

Sheet 3 of 19

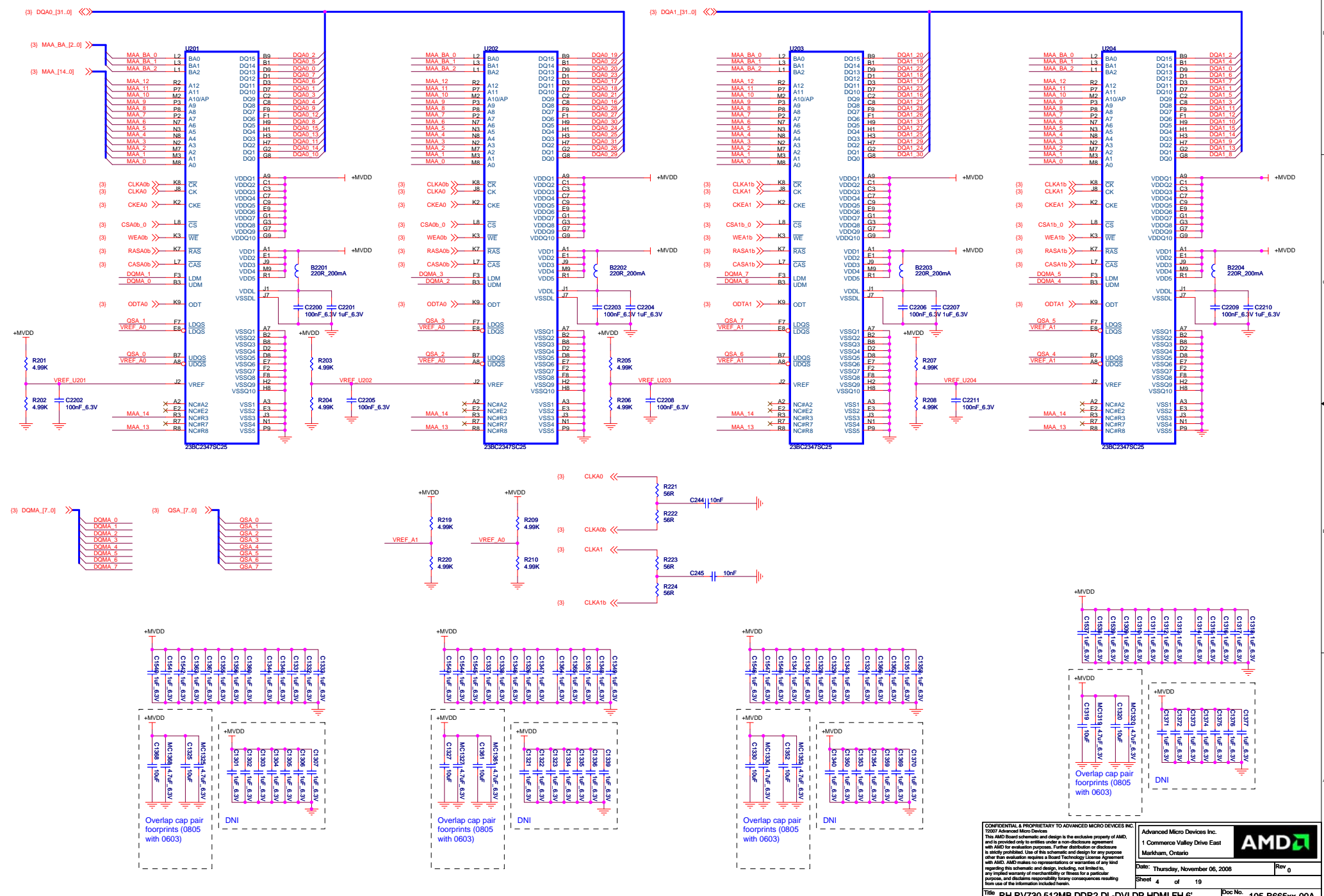
Rev 0

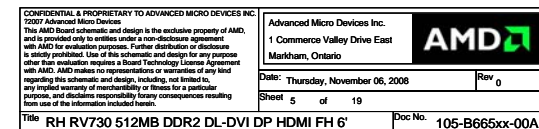
Title	RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6'
-------	--

Doc No. 105-B665xx-00A

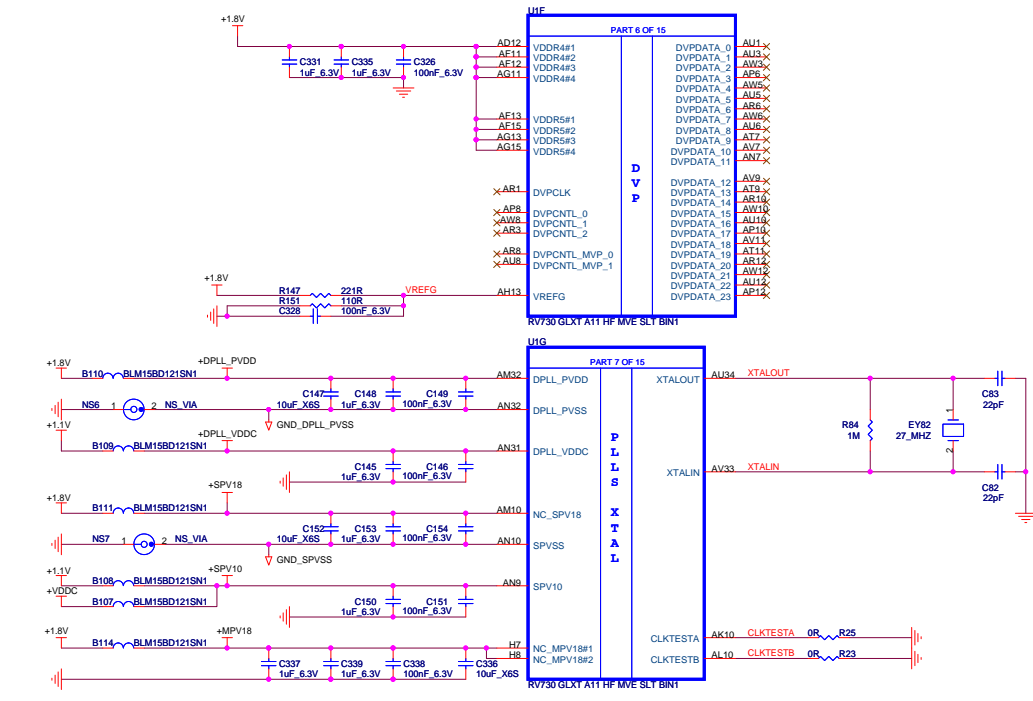
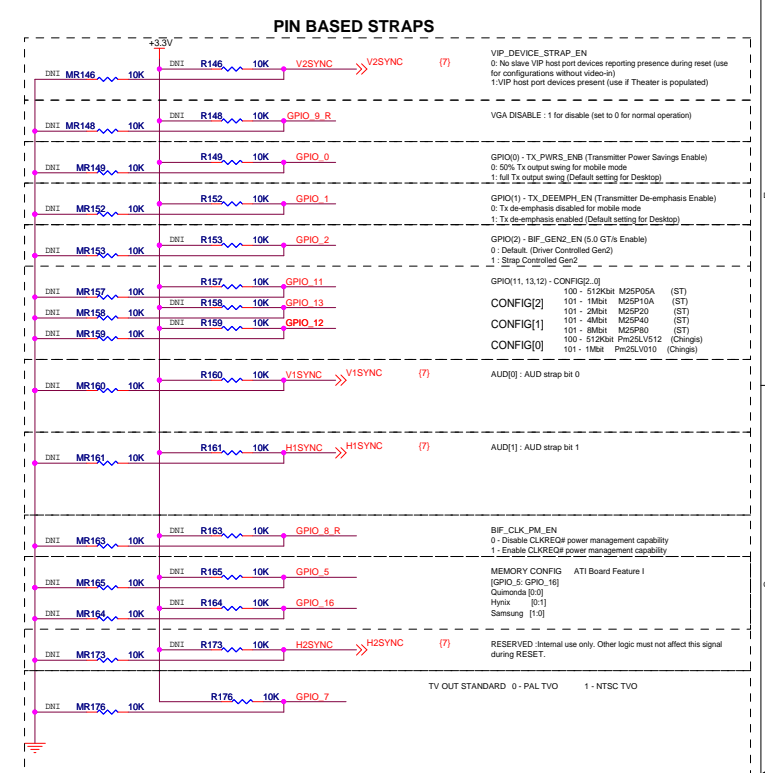
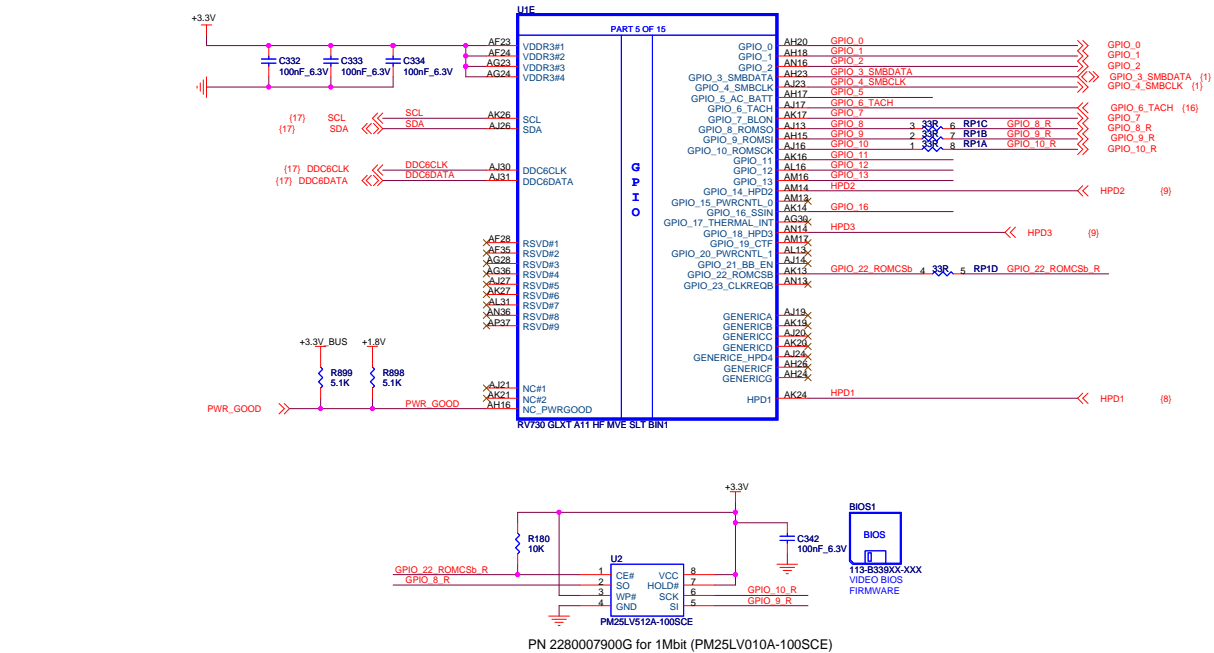
(4) DDR2 Ch A

CHANNEL A: 128MB/256MB DDR2

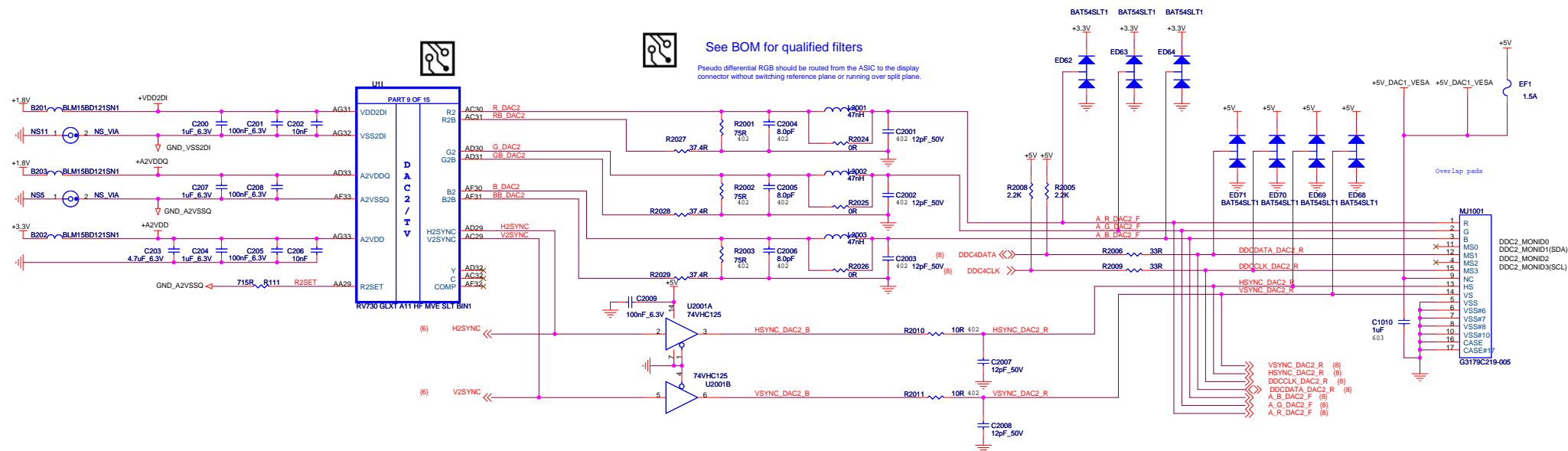
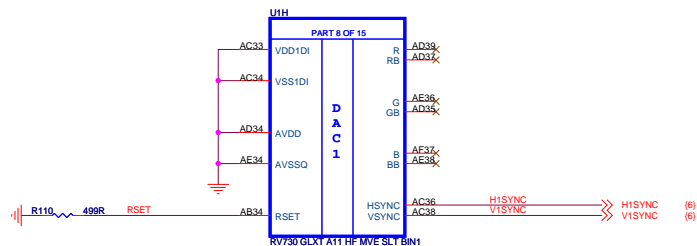




(06) RV730 GPIOs Strap CF XTAL




(07) RV730 DAC1 and DAC2/TV

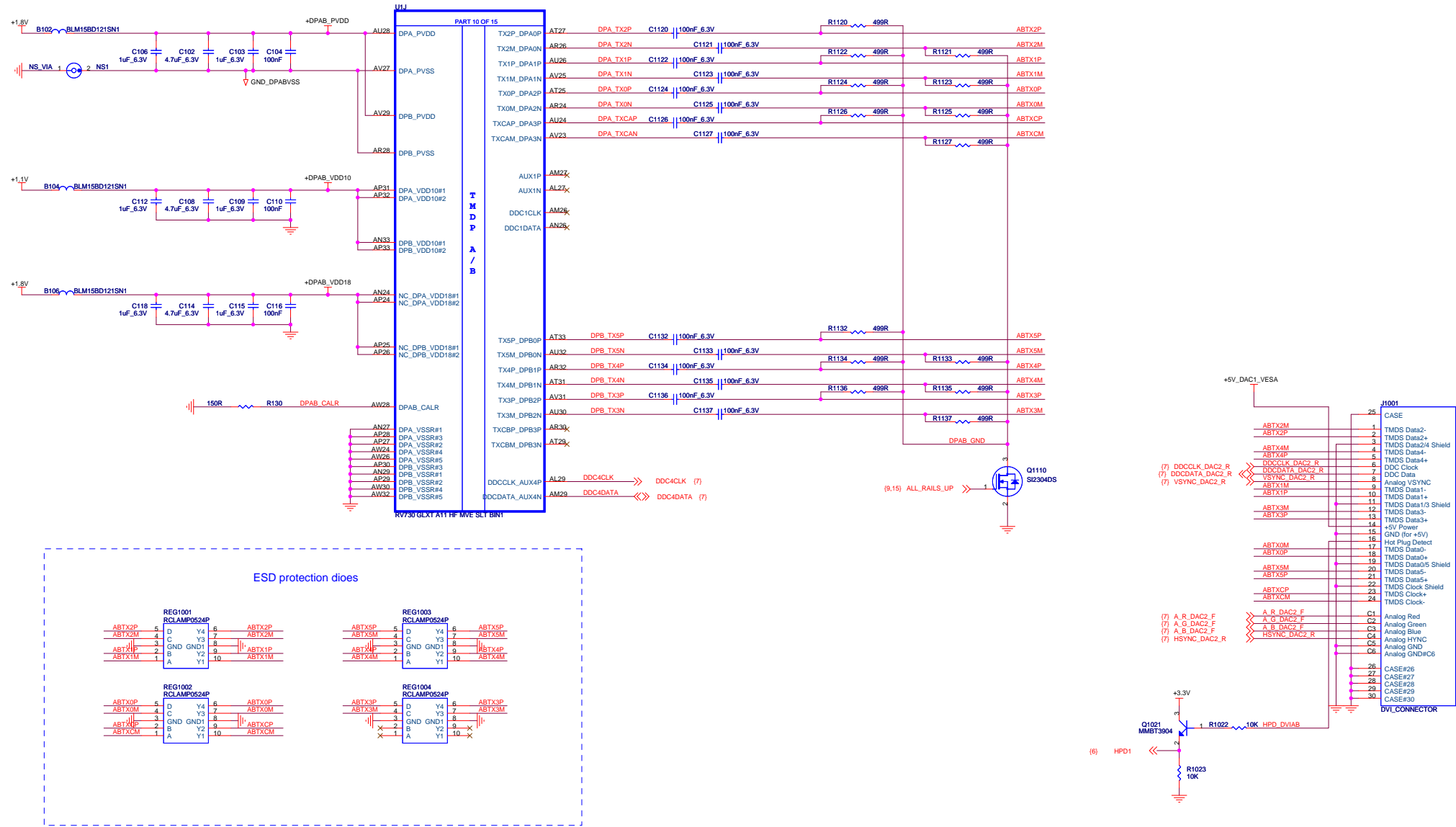


CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
72007 Advanced Micro Devices

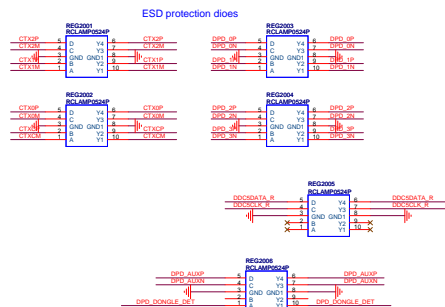
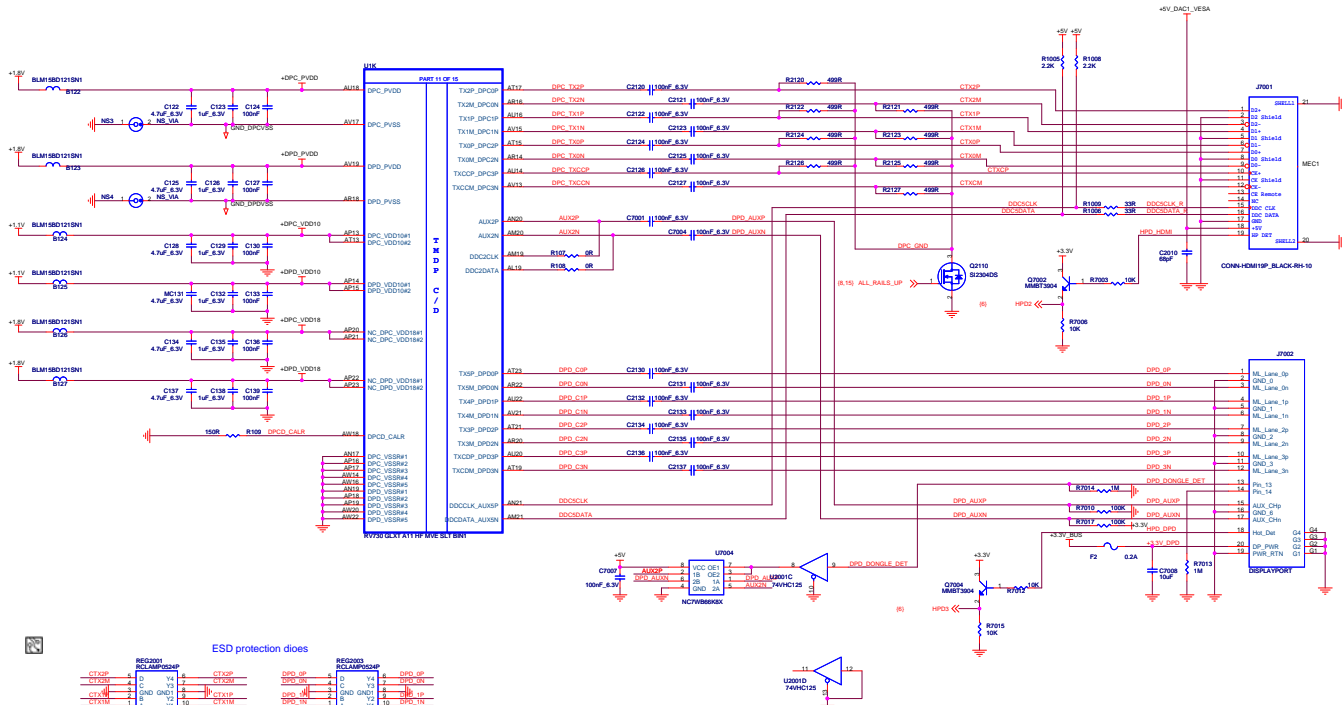
This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims any and all liability for any consequences resulting from use of the information, including but not limited to, any damages, costs, expenses, or attorney's fees.

Advanced Micro Devices Inc. 1 Commerce Valley Drive East Markham, Ontario			
Date: Thursday, November 06, 2008		Rev 0	
Sheet 7 of 19		Doc No. 105-B665xx-00A	

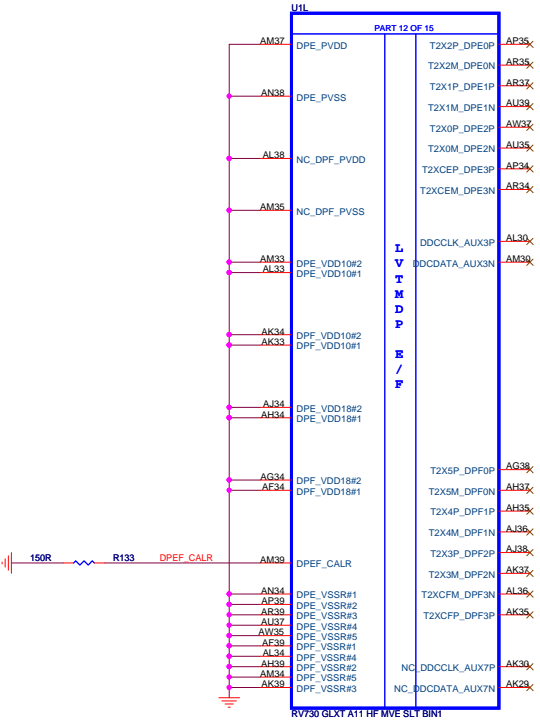
(08) RV730 TMD5 A&B



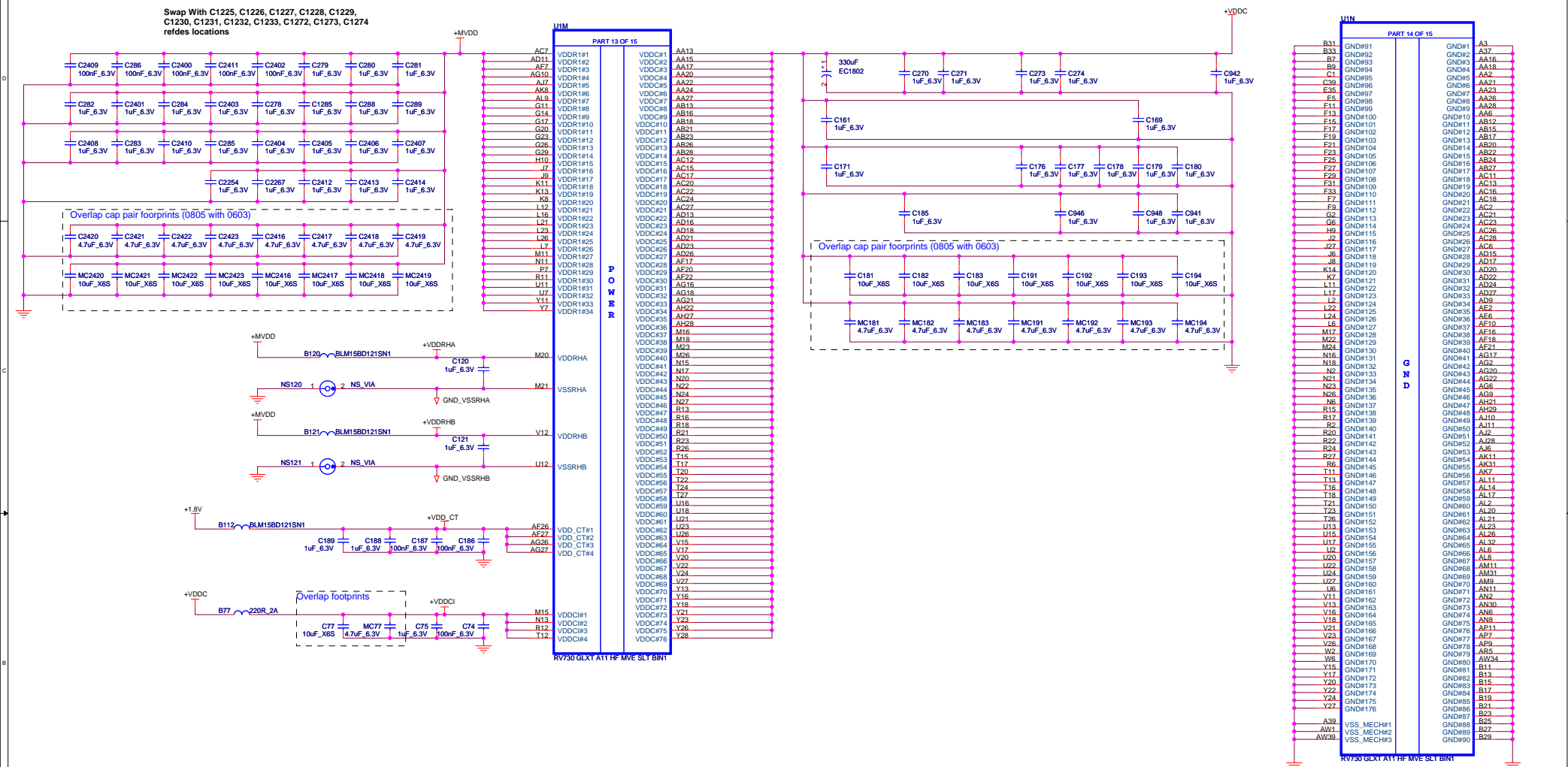
(09) RV730 HDMI and DisplayPort on C&D



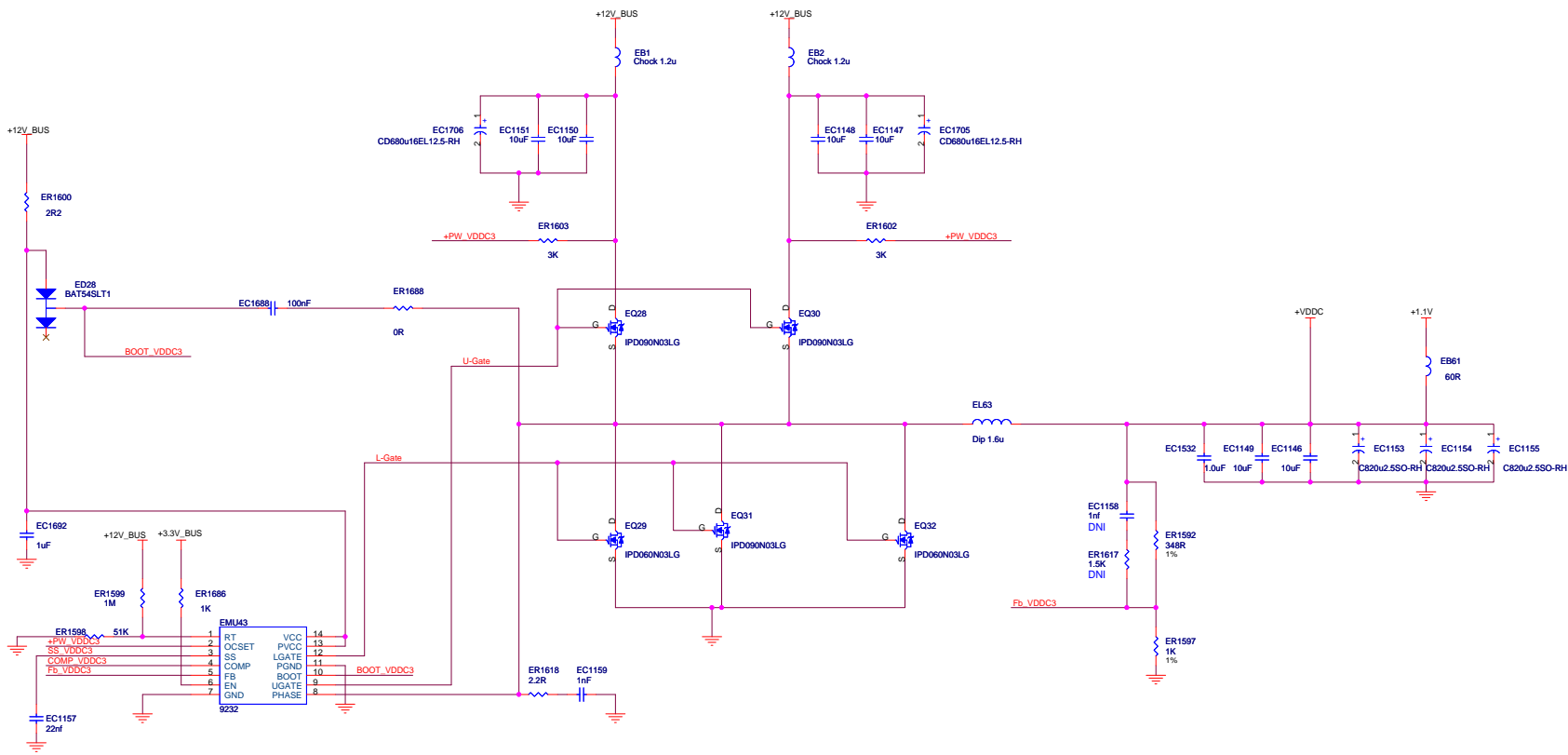
(10) No Connect E&F



(11) RV730 Power & GND

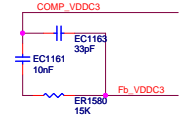


CORE REGULATOR VDDC

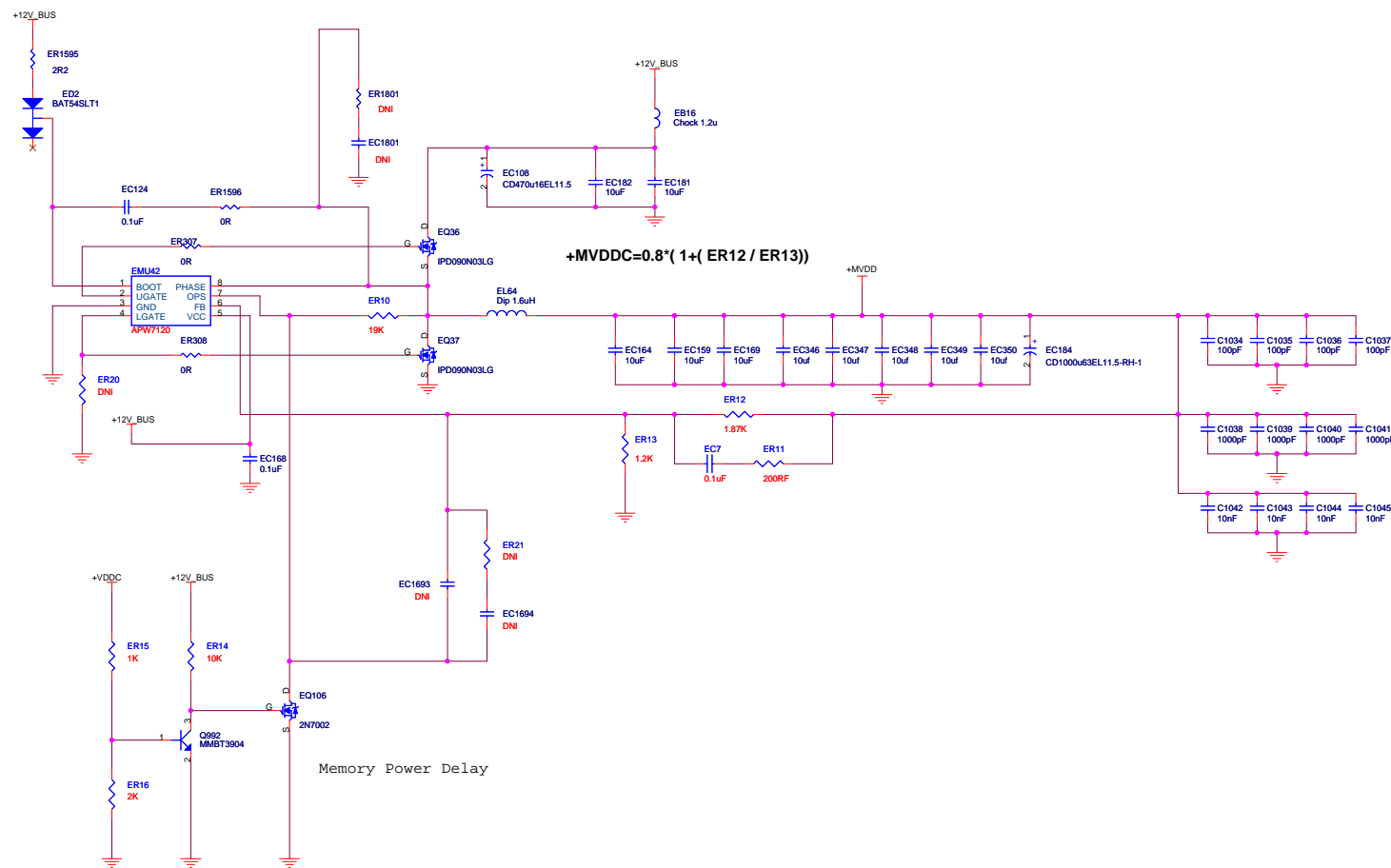


+VDDC=0.8*(1+(ER1592 / ER1597))

Compensation Circuit



(13) MVDD



Memory Power Delay

$$+MVDDC=0.8*(1+(ER12/ER13))$$

+MVDD

CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
72007 Advanced Micro Devices

This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from use of the information included herein.

Advanced Micro Devices Inc.
1 Commerce Valley Drive East
Markham, Ontario



Date: Thursday, November 06, 2008

Rev.

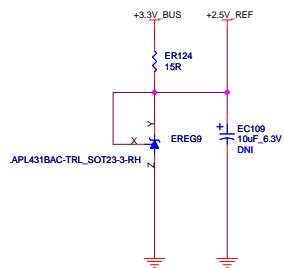
Sheet 13 of 19

--	--

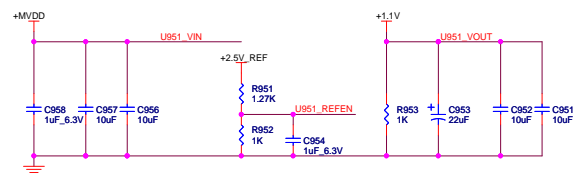
Title RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6'	
---	--

Doc No. 105 PGCE: 00A

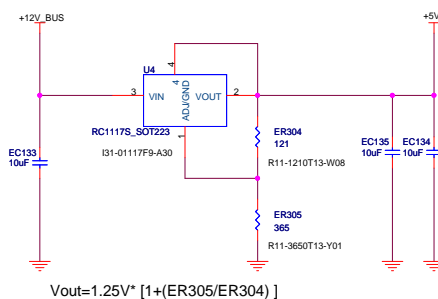
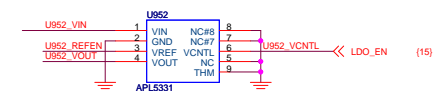
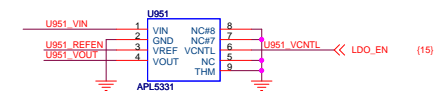
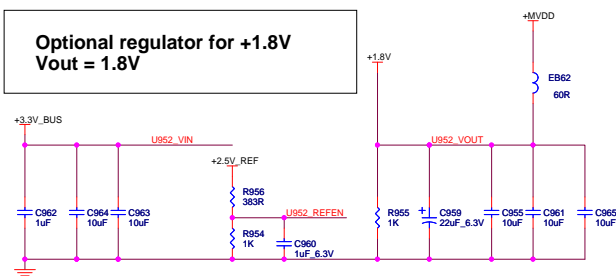
(14) Linear Regulators

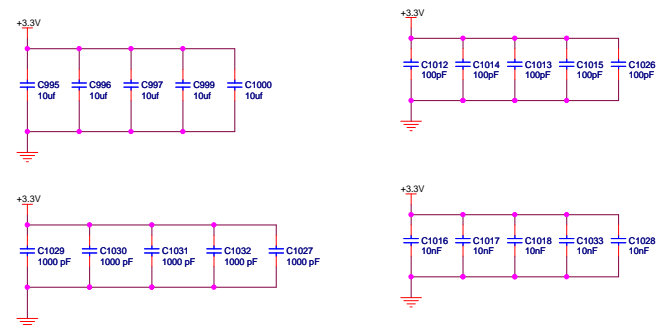


Optional regulator for +1.1V
V_{out} = 1.1V

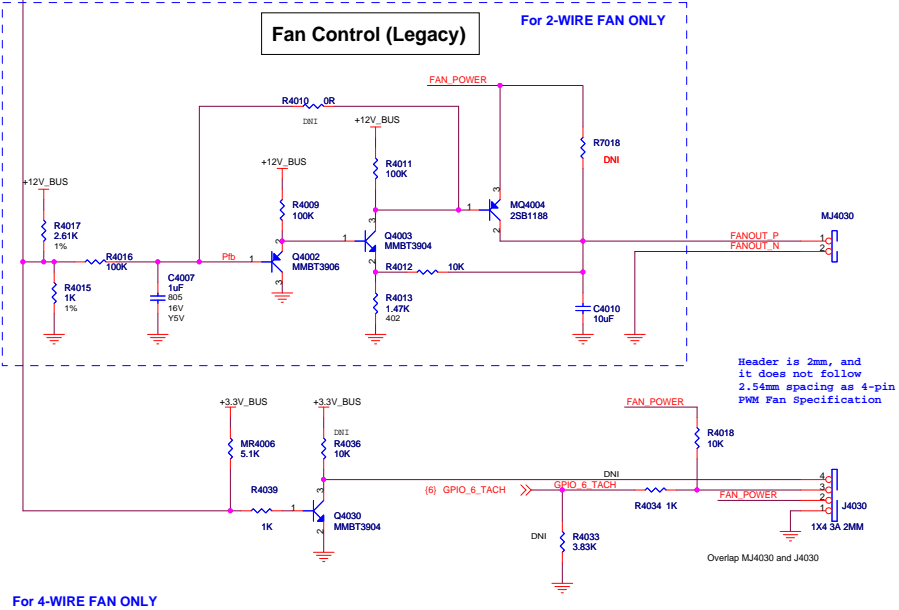
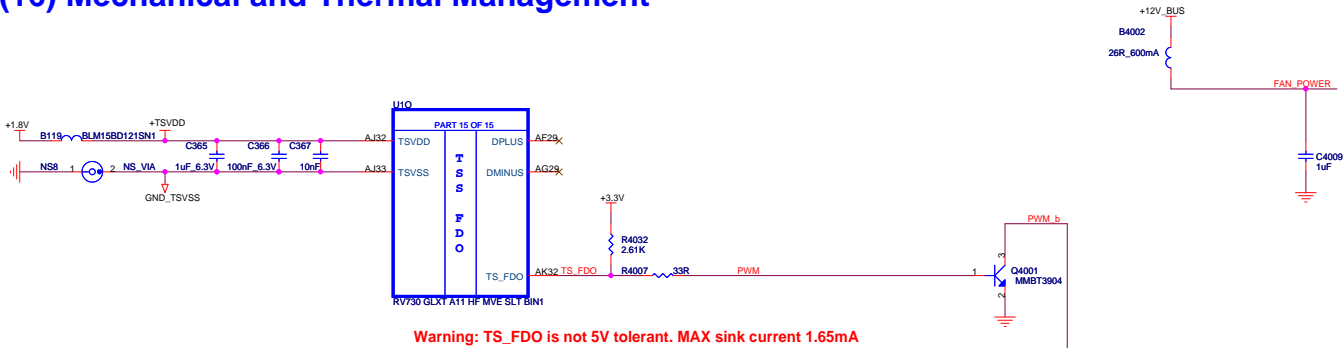


Optional regulator for +1.8V
V_{out} = 1.8V

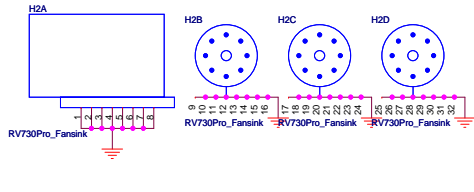
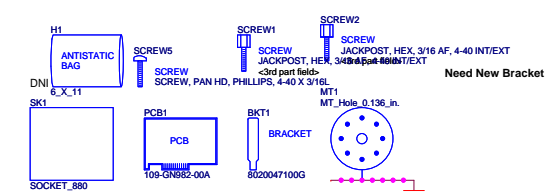




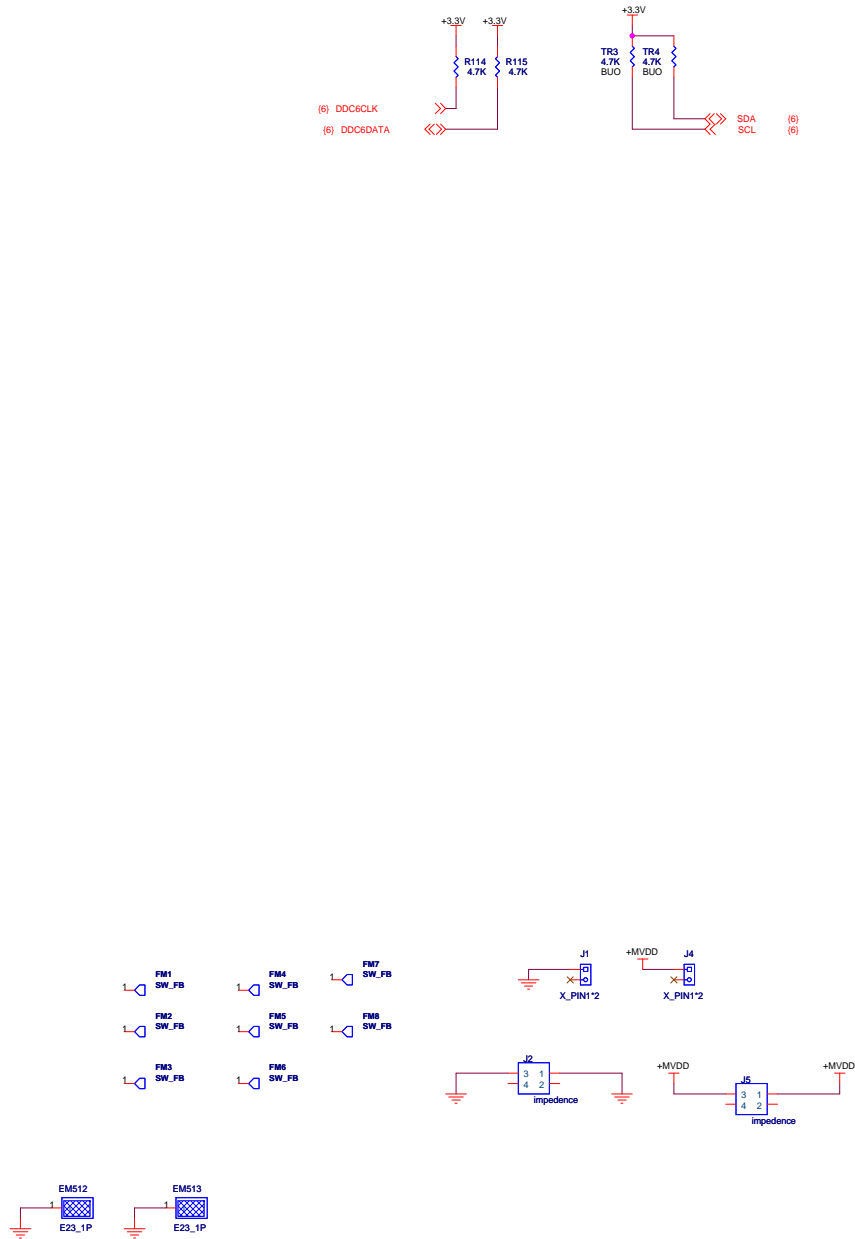
(16) Mechanical and Thermal Management

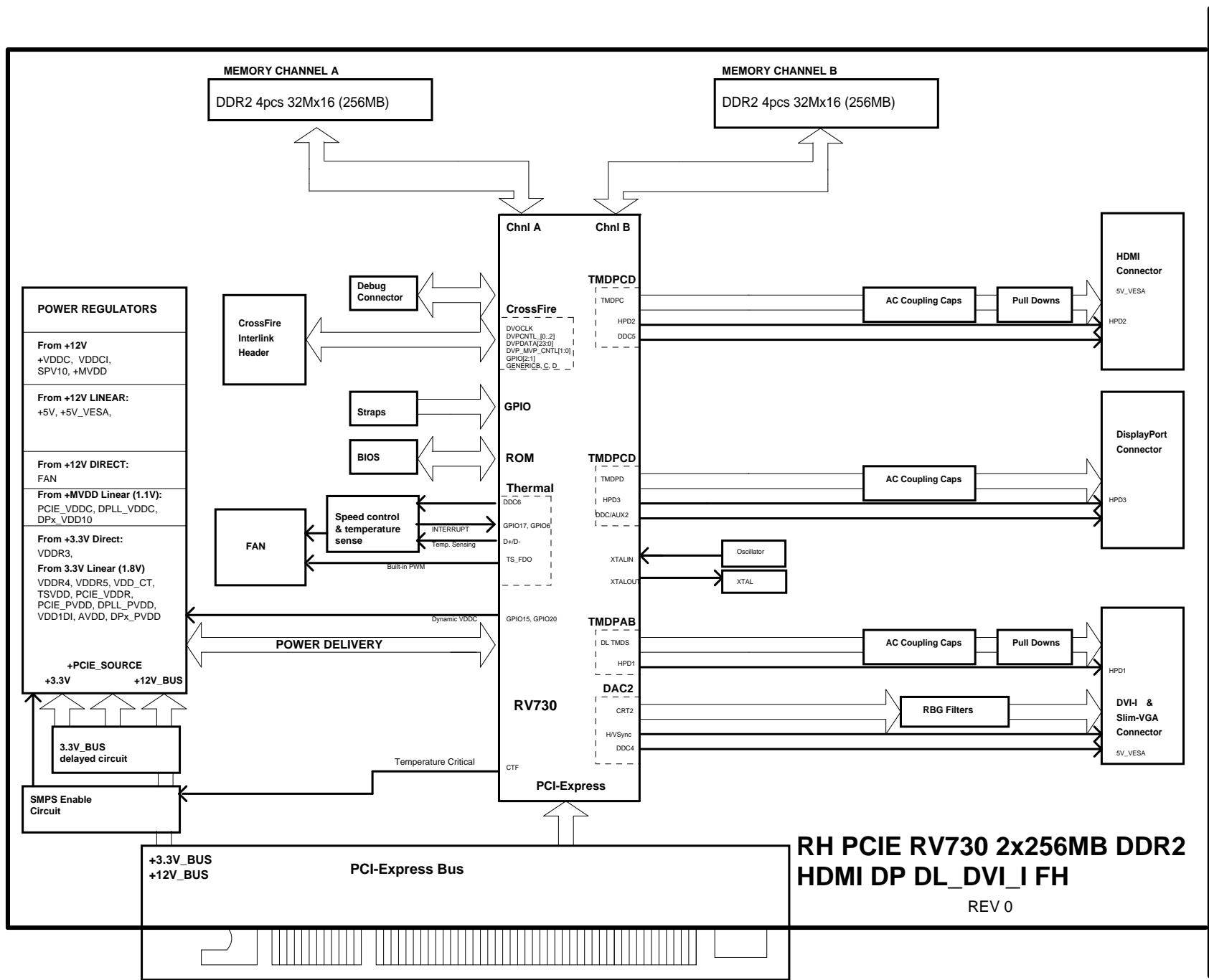


For 4-WIRE FAN ONLY



(17) Debug Circuits





<div>AMD</div>			Title		Schematic No.		Date:	
			RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6'		105-B665xx-00A		Thursday, November 06, 2008	
REVISION HISTORY			NOTE: This schematic represents the PCB, it does not represent any specific SKU. For Stuffing options (component values, DNI , ? please consult the product specific BOM. Please contact AMD representative to obtain latest BOM closest to the application desired.					Rev 0
Sch Rev	PCB Rev	Date	REVISION DESCRIPTION					
0	00A	08/04/01	Initial design for RV730 GDDR3					