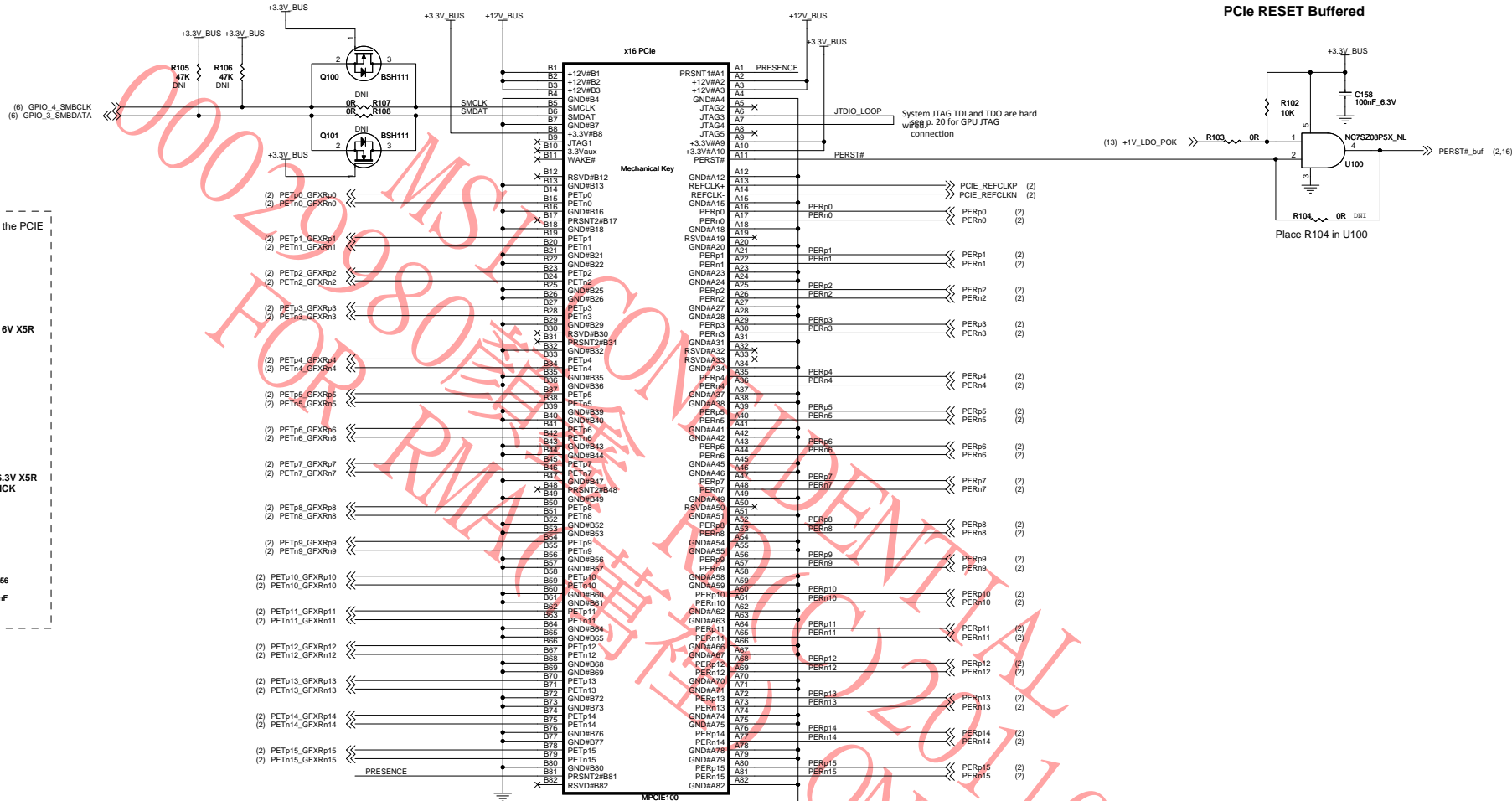
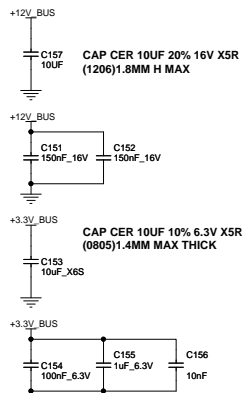


PCI-EXPRESS EDGE CONNECTOR

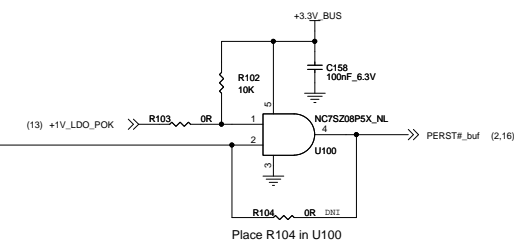
REDWOOD
ROGUE



Place these caps as close to the PCIe connector as possible



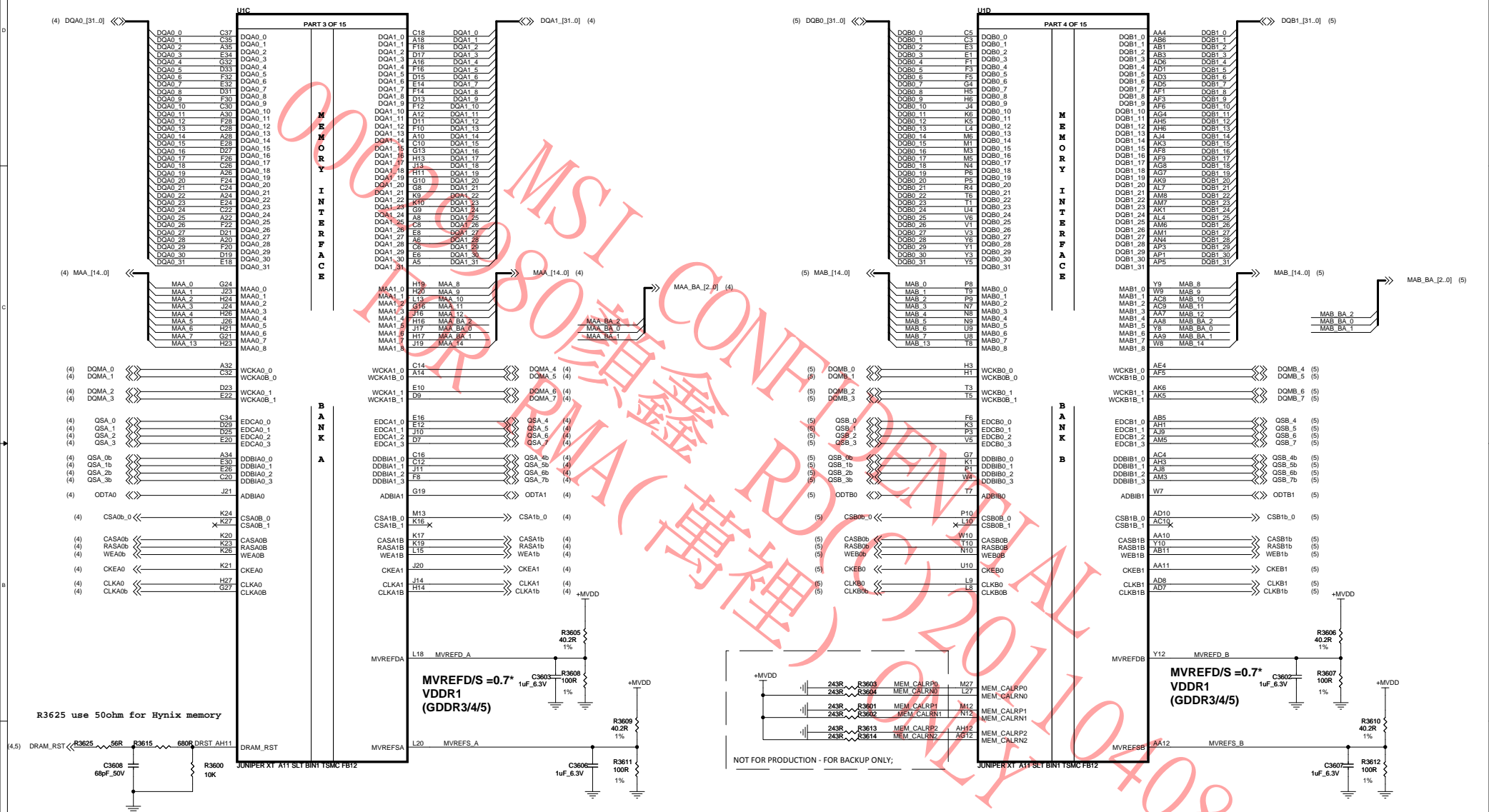
PCIe RESET Buffered



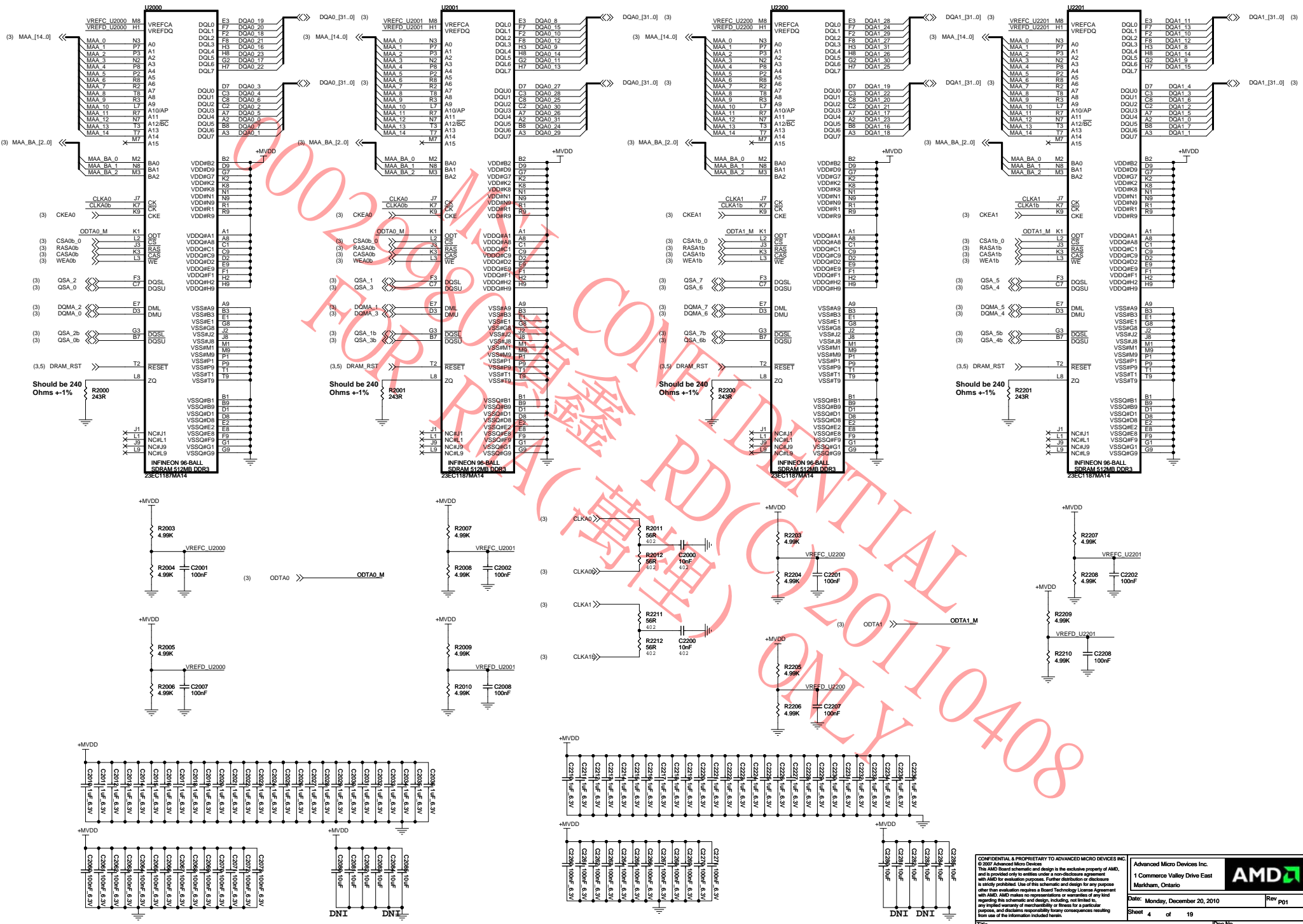
SYMBOL LEGEND	
DNI	DO NOT INSTALL
#	ACTIVE LOW
	DIGITAL GROUND
	ANALOG GROUND
BUO	BRING UP ONLY

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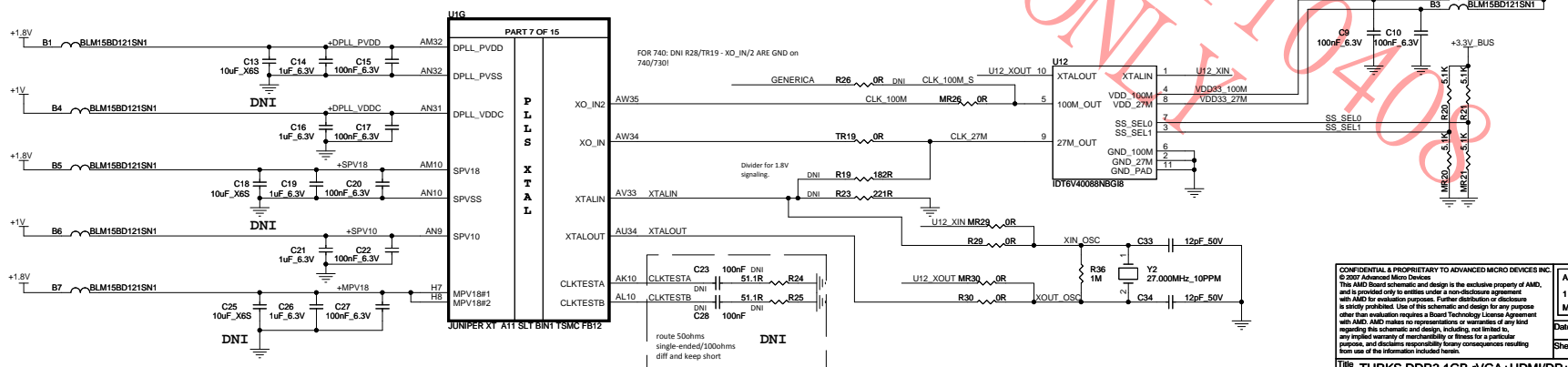
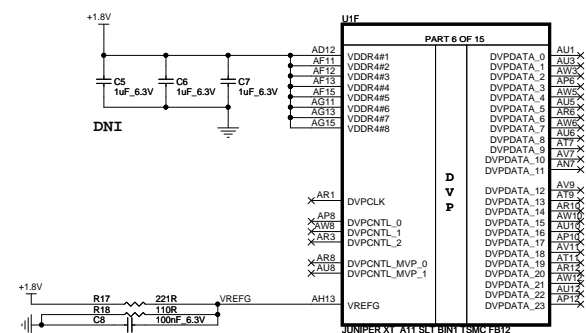
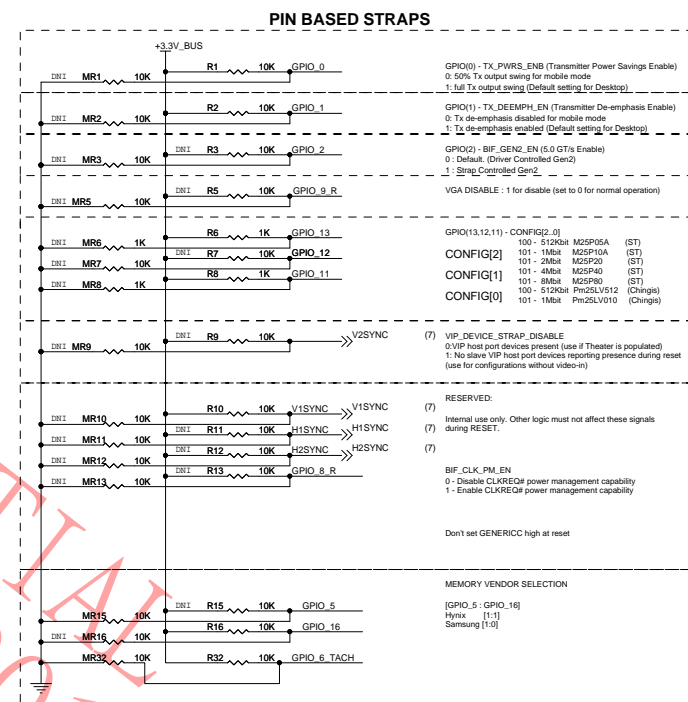
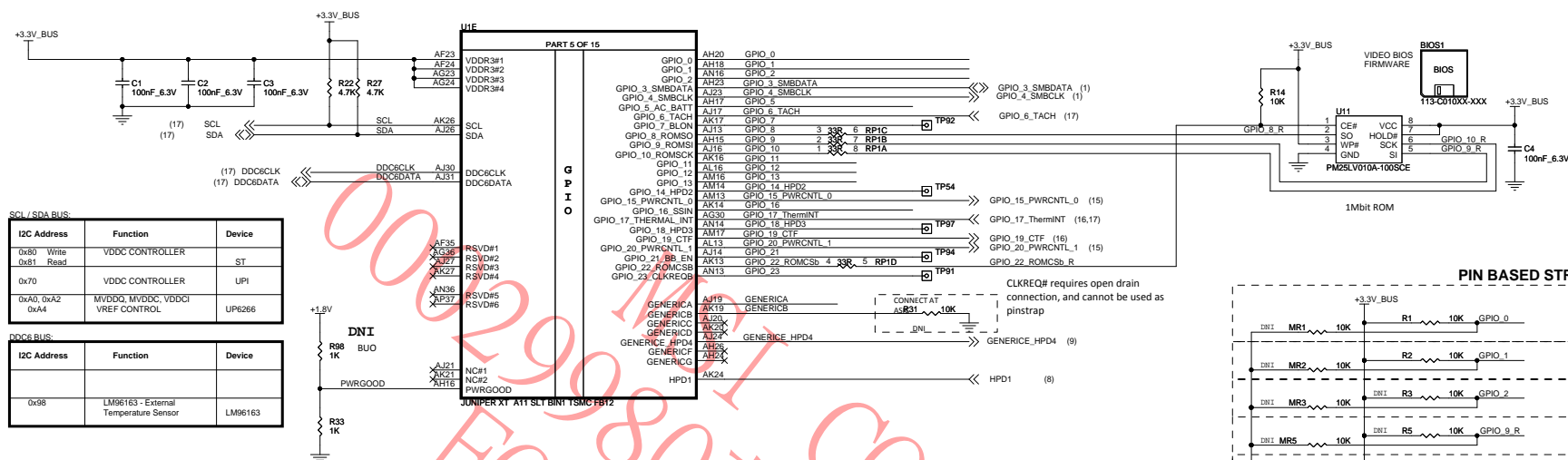
(3) TURKS MEM Interface Ch A&B




(4) DDR3 Memory Channel A



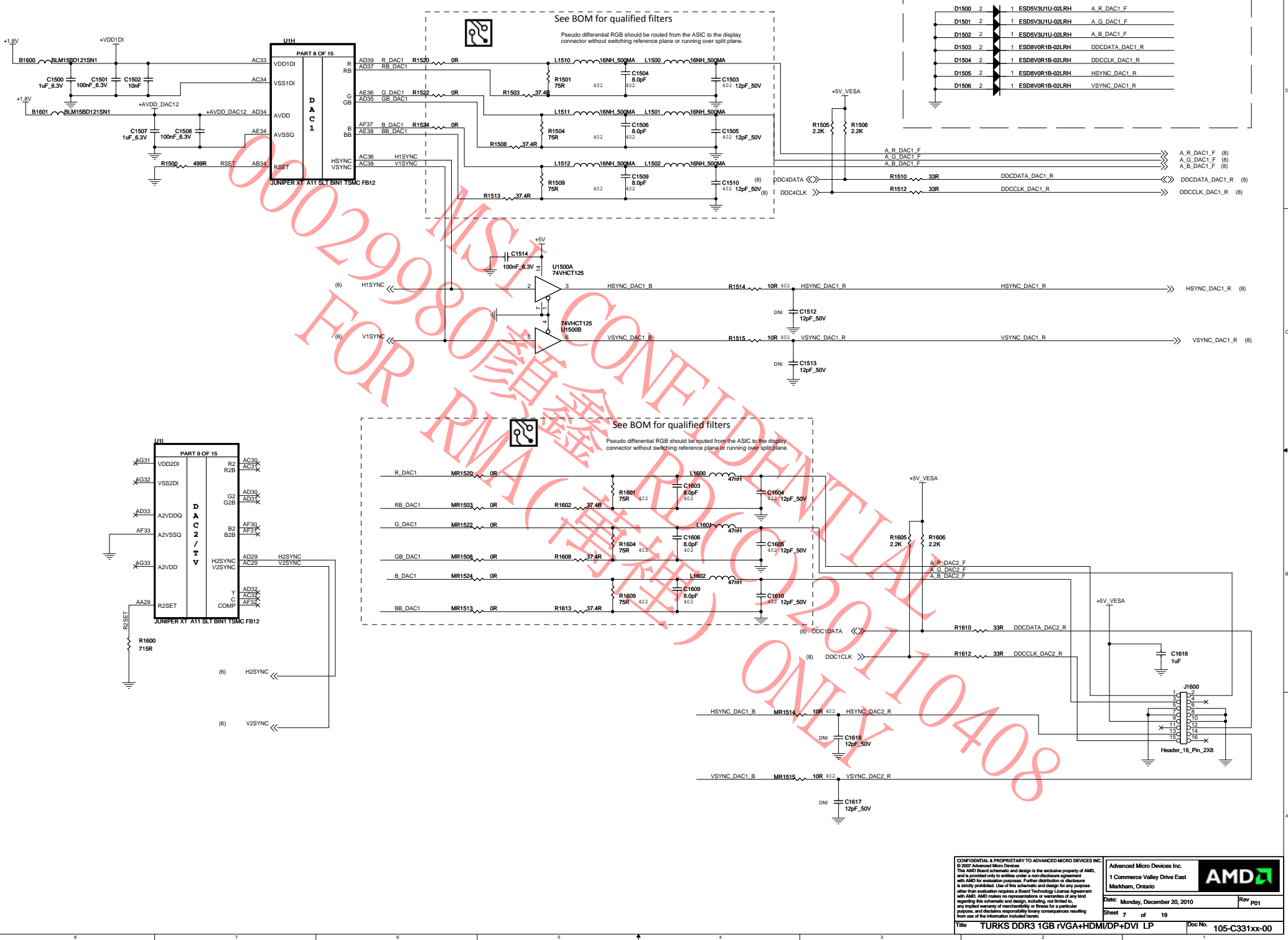
(06) TURKS GPIOs Strap CF XTAL OSC

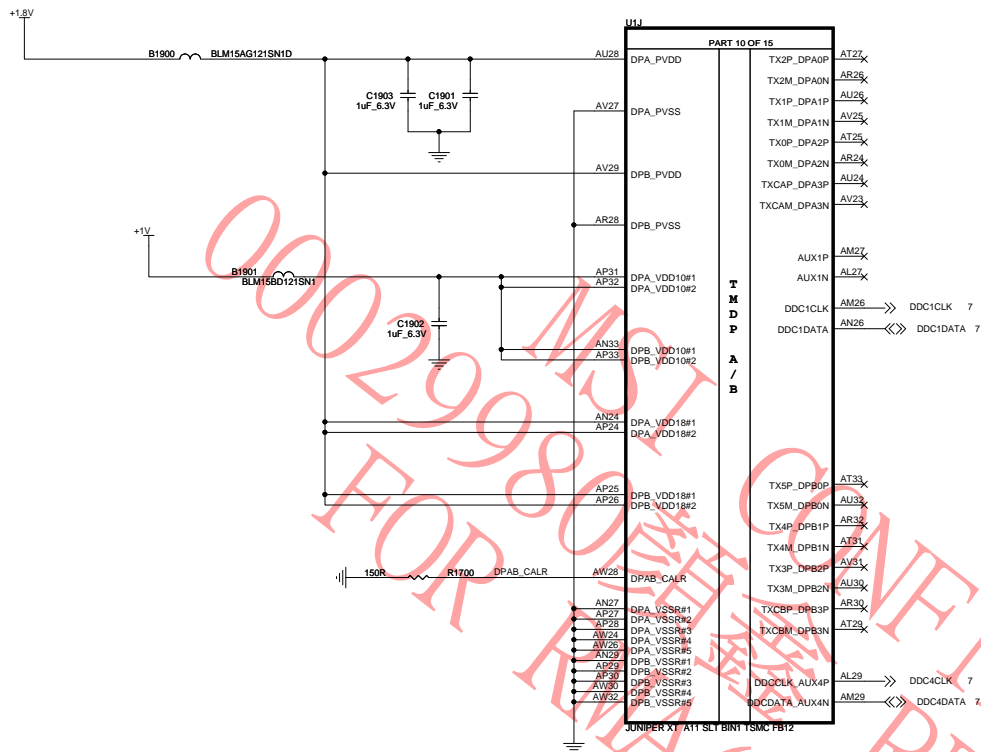


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(07) TURKS DAC1 and DAC2

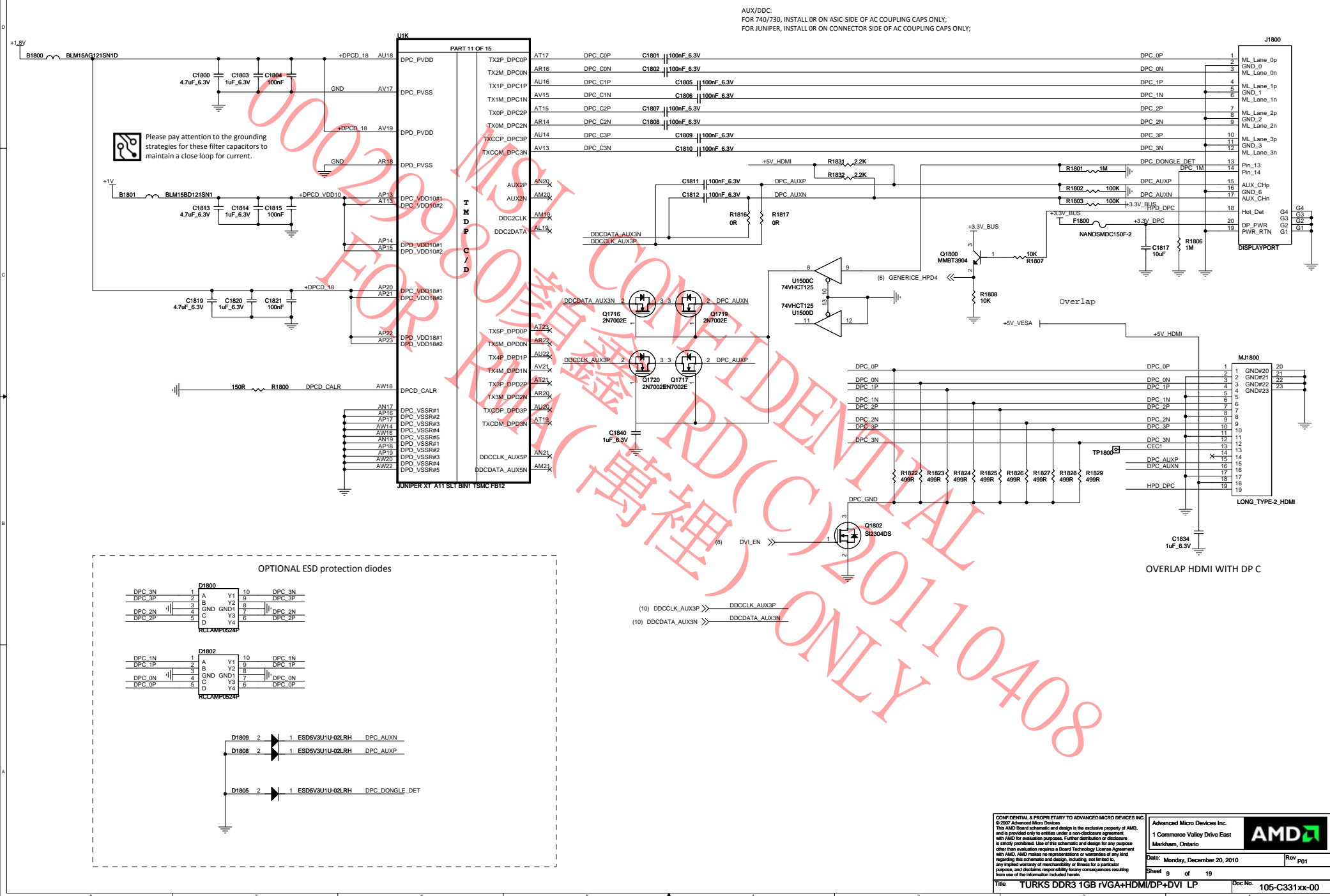




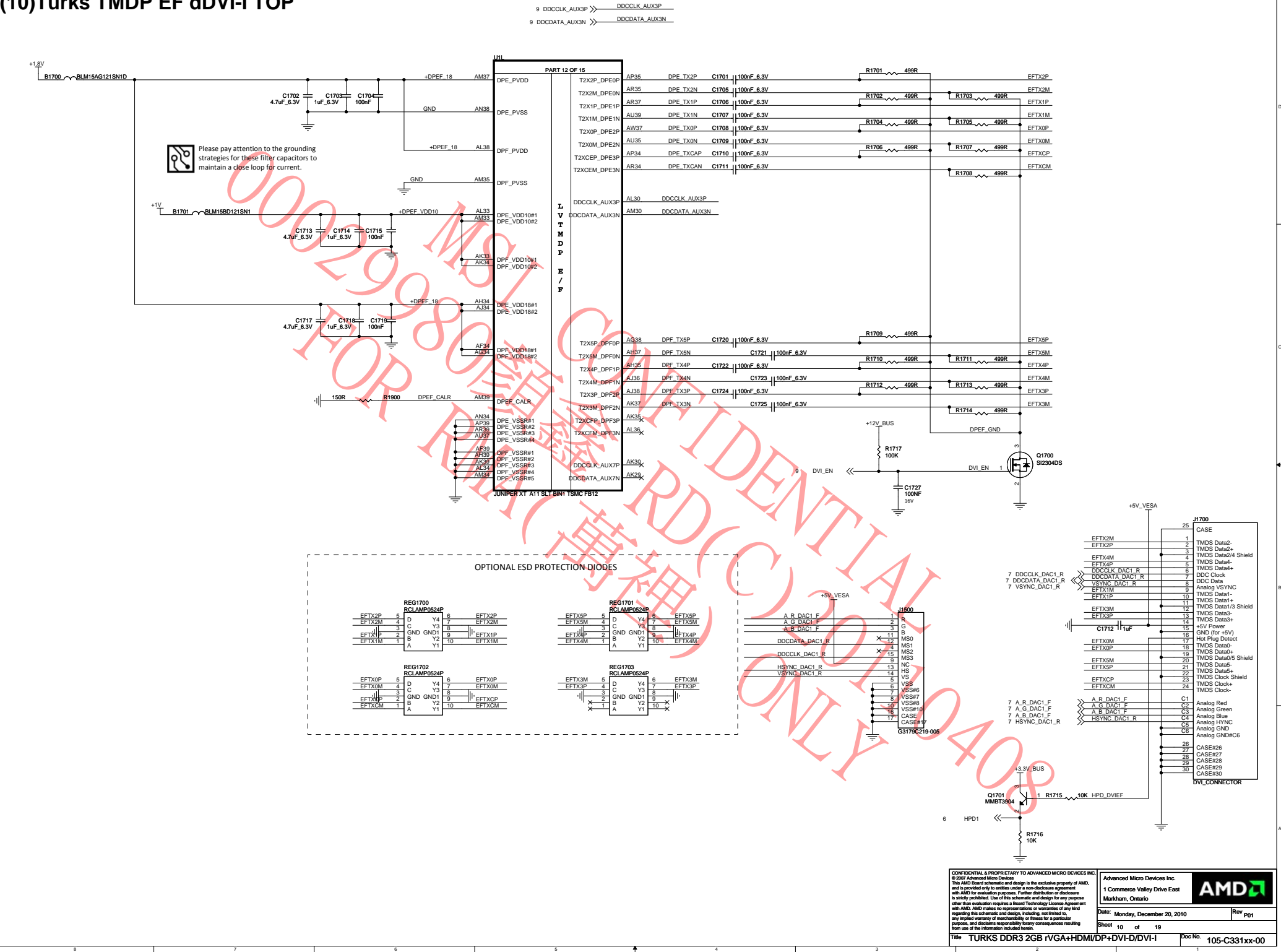
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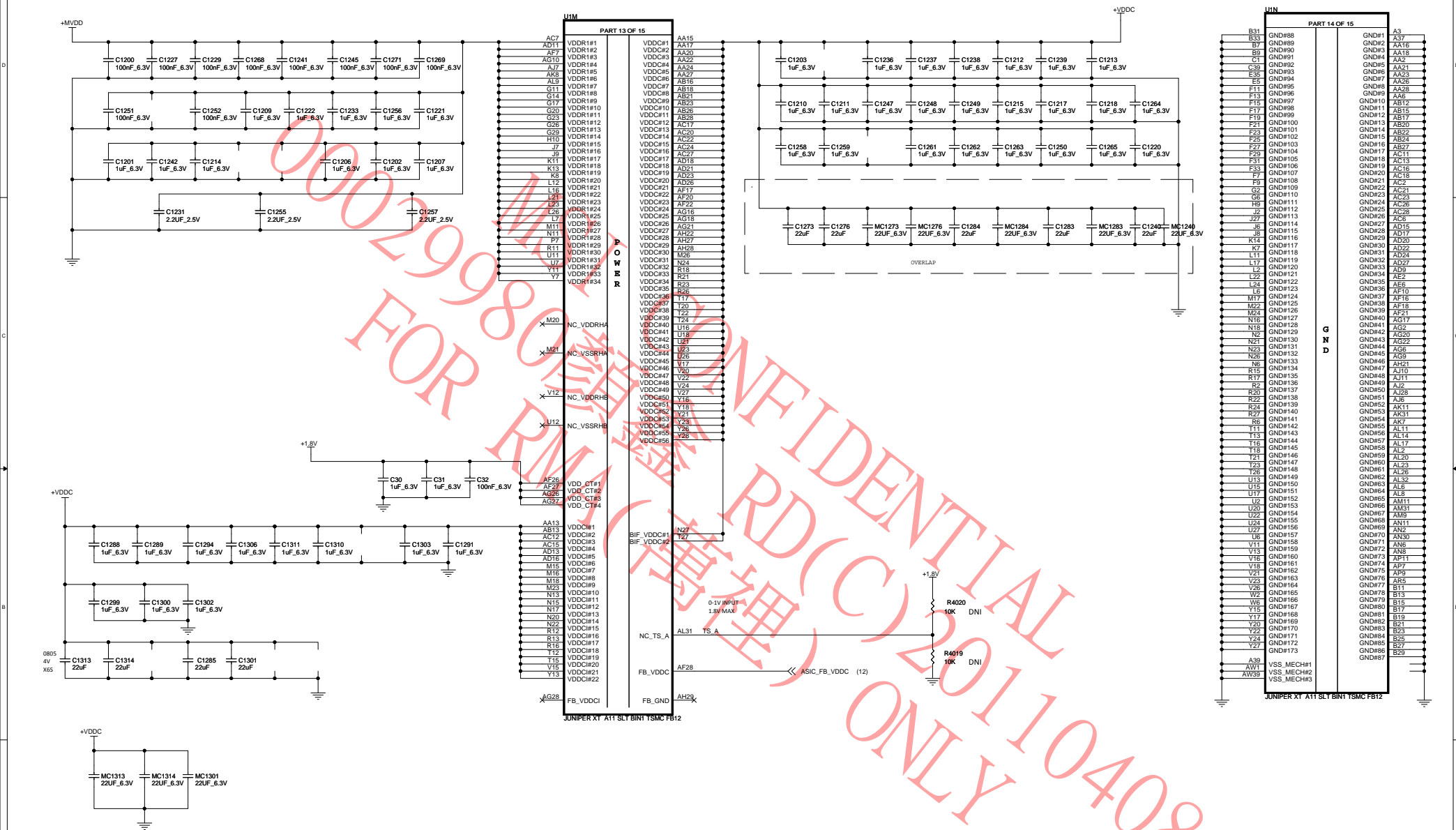
(09) TURKS Display Port C & Display Port/HDMI D



(10)Turks TMDP EF dDVI-I TOP



(11) TURKS Power & GND



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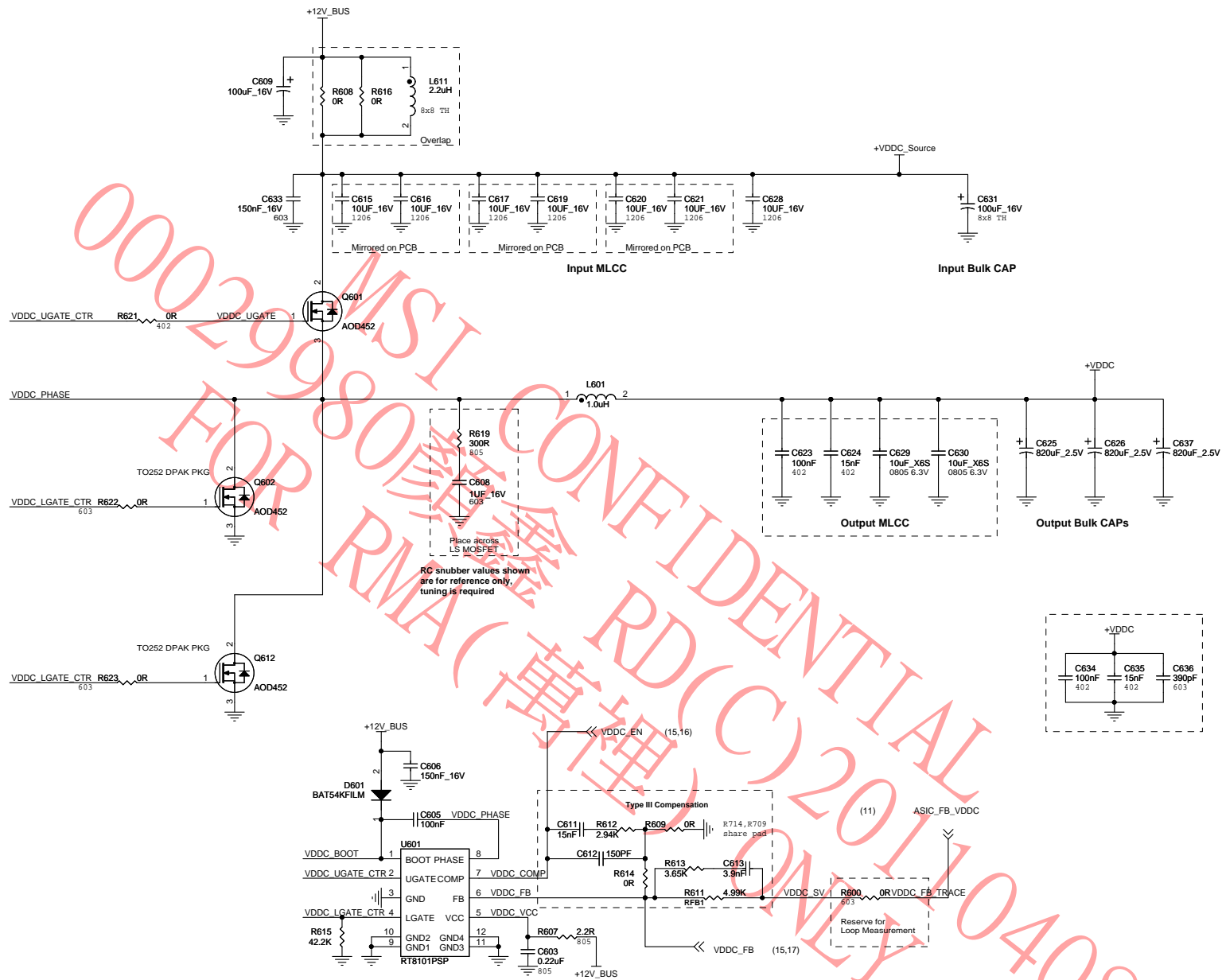
Rev P01

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of 1

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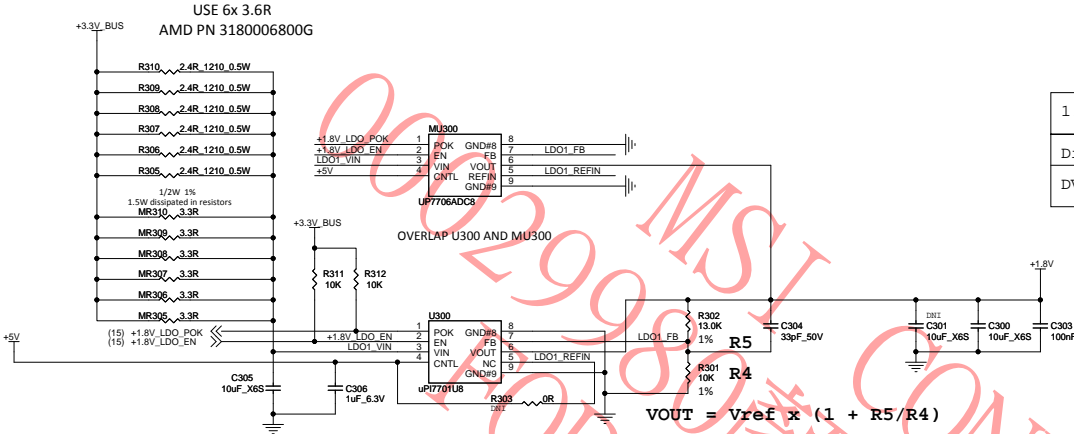
Date: Monday, December 20, 2010 Rev P01

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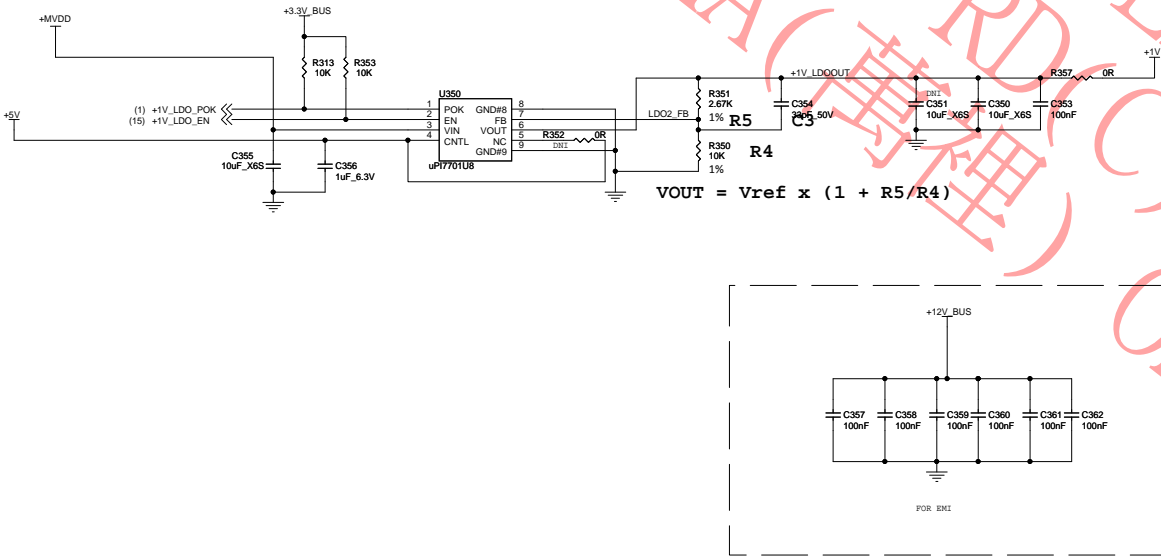
Title TURKS DDR3 1GB iVGA+HDMI/DP+DVI LP Doc No. 105-C331xx-00

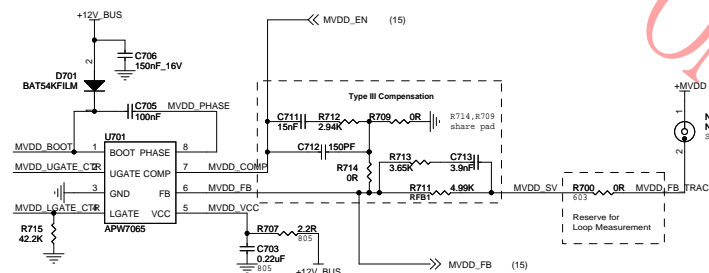
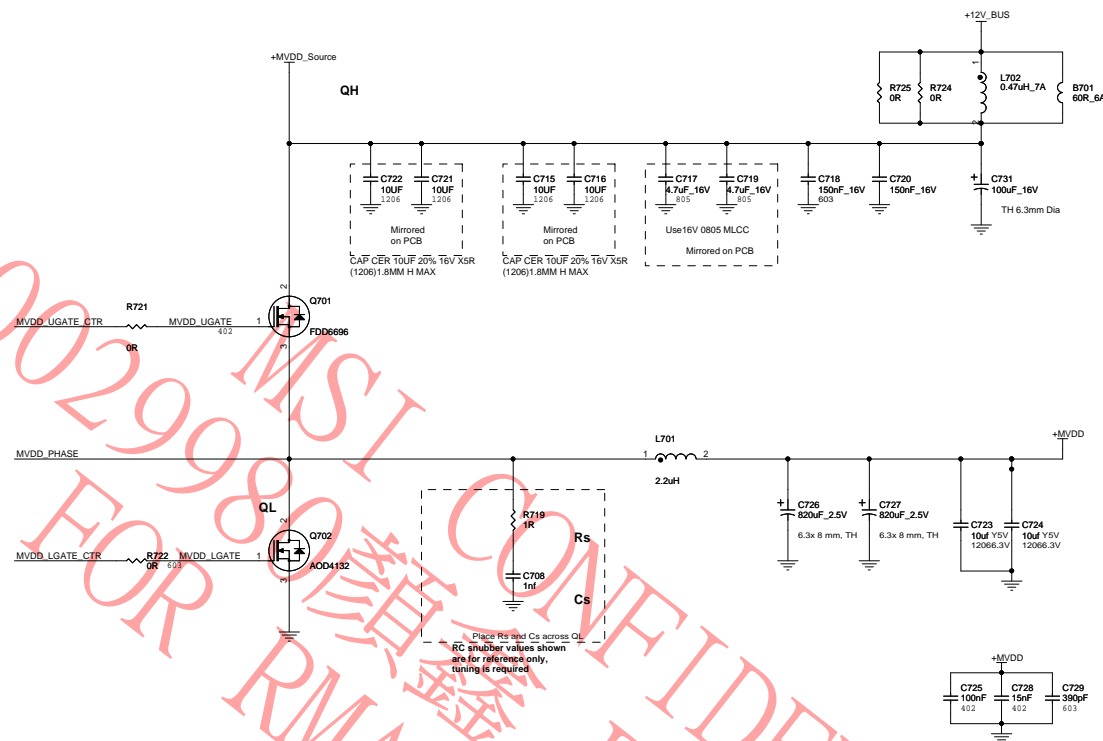
(15) Linear Regulators

LDO #1: Vin = 3.00V to 3.60V (3.3V +/- 9%) Vout = +1.8V +/- 2%; Iout = 1.6A (TBV) RMS MAX
PCB: 50 to 70mm sq. copper area for cooling



LDO #2: Vin = +1.32V to 1.84VMAX Vout = +1.01V +/- 2% Iout = 1.7A (TBV) RMS MAX
PCB: 50 to 70mm sq. copper area for cooling





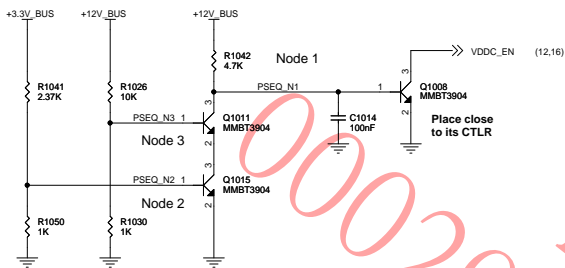
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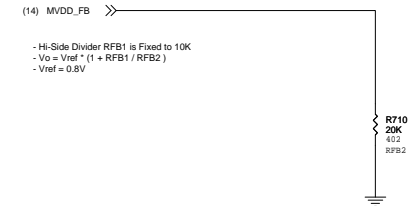
(16) Power Management - Power Gating and Dynamic Voltage Control

12V_BUS & 3V3_BUS POWER SEQUENCING

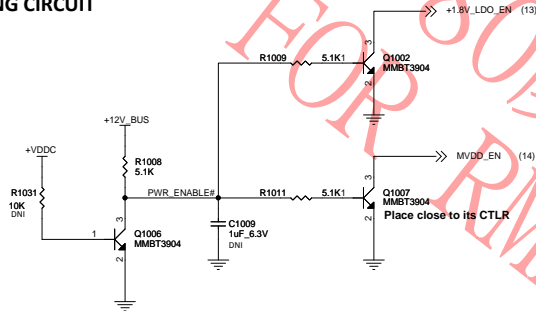


Install R1010 to gate 1V LDO with 1.8V LDO.
(13) +1.8V_LDO_POK << R1010 OR >> +1V_LDO_EN (13)

MVDD Low Side Divider

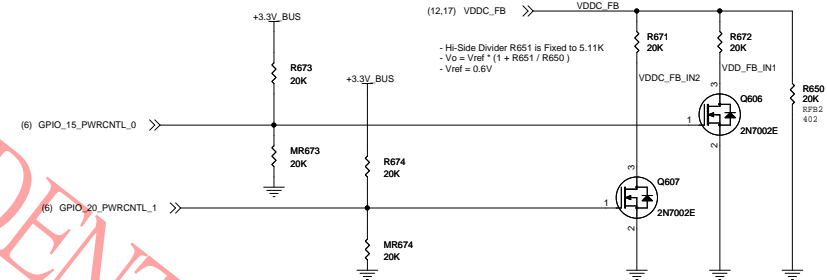


POWER SEQUENCING CIRCUIT

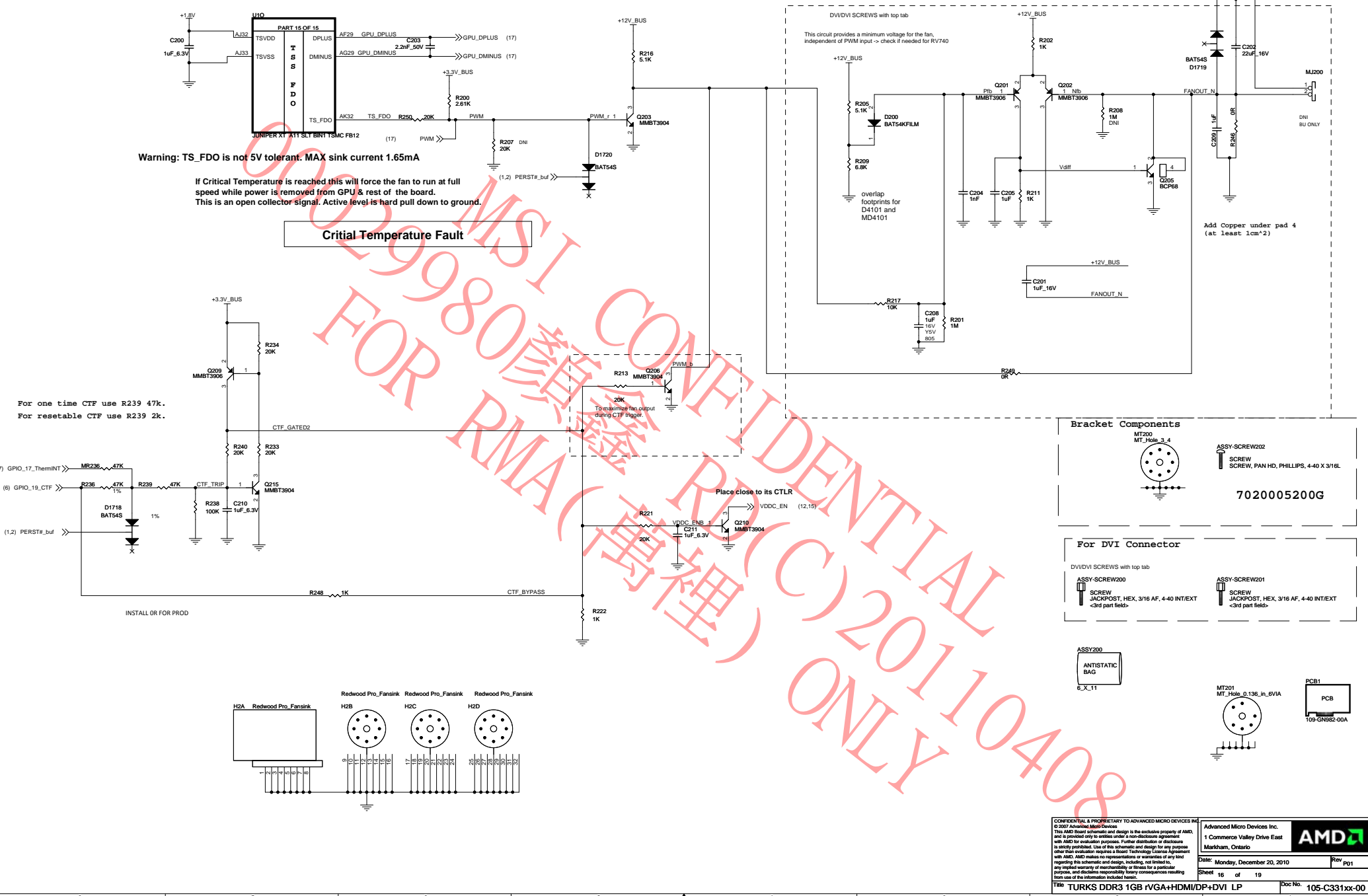


VDDC Low Side Divider

R650 must be populated only if VID is not used and VDDC VREFIN is pulled high to >4.5V. Then this will set VDDC to a fixed value.

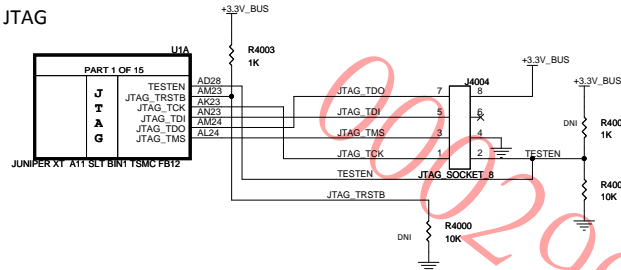


(19) Mechanical and Thermal Management

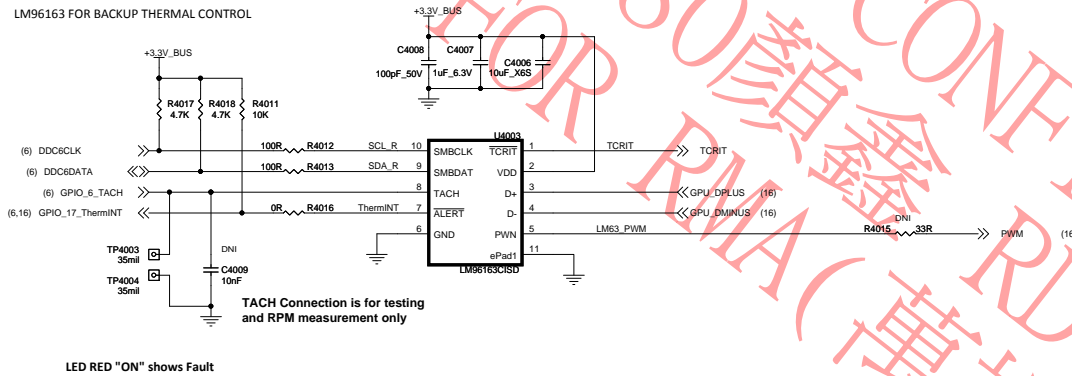


(19) Debug Circuits

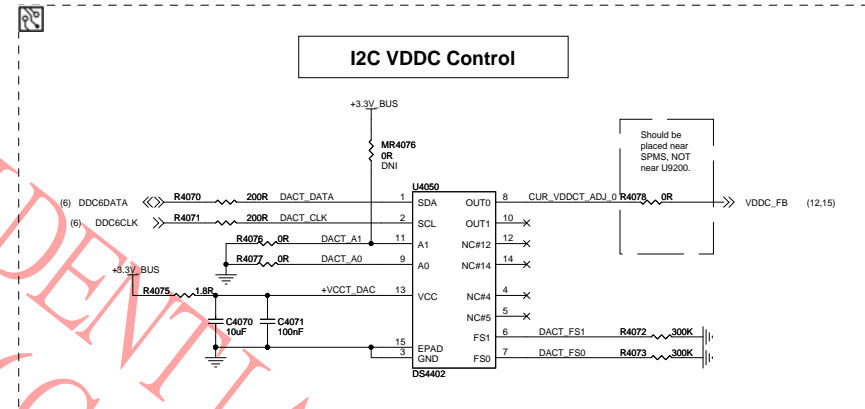
JTAG



LM96163 FOR BACKUP THERMAL CONTROL

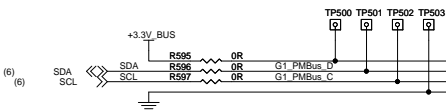


I2C VDDC Control



SCL/SDA PORT DEBUG ACCESS

Place testpoints together on the back side (easily accessible and not blocked by the heatsink).



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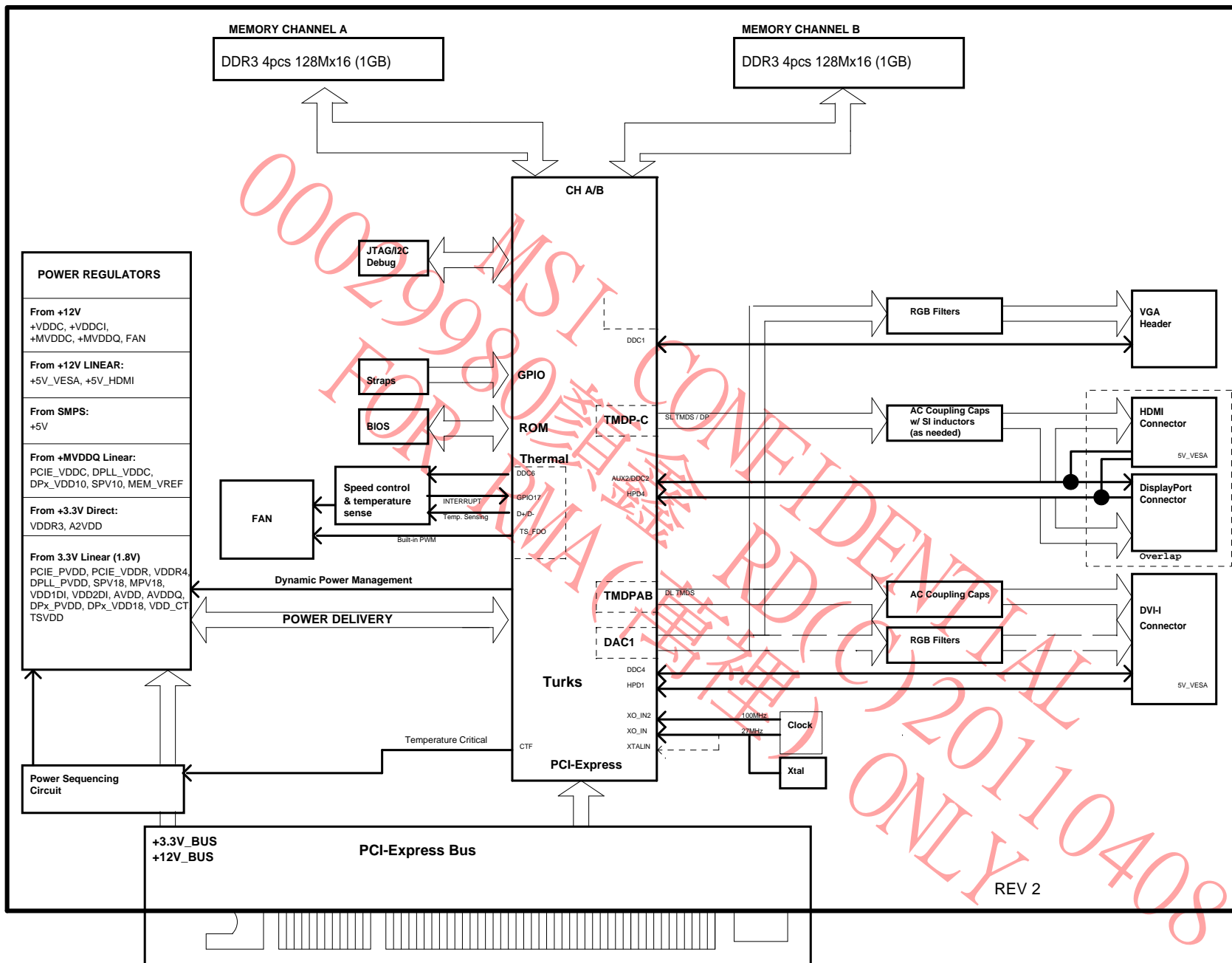
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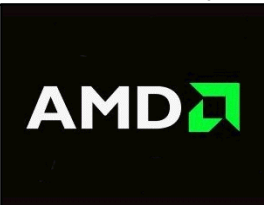
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TURKS DDR3 1GB rVGA+HDMI/DP+DVI LP



TURKS DDR3 1GB rVGA+HDMI/DP+DVI LP

105-C331xx-00

Monday, December 20, 2010

REVISION HISTORY

NOTE: This schematic represents the PCB, it does not represent any specific SKU.
 For Stuffing options (component values, DNI's, ...) please consult the product specific BOM.
 Please contact AMD representative to obtain latest BOM closest to the application desired.

Rev P01

Sch Rev	PCB Rev	Date	REVISION DESCRIPTION
00	00A	2010/10/12	Turks PRO DDR3 1GB BASED ON C241, changing dual link DVI to TMDP E&F

PRO DDR3 1GB BASED ON C241, changing dual link DVI to TMDP E&F