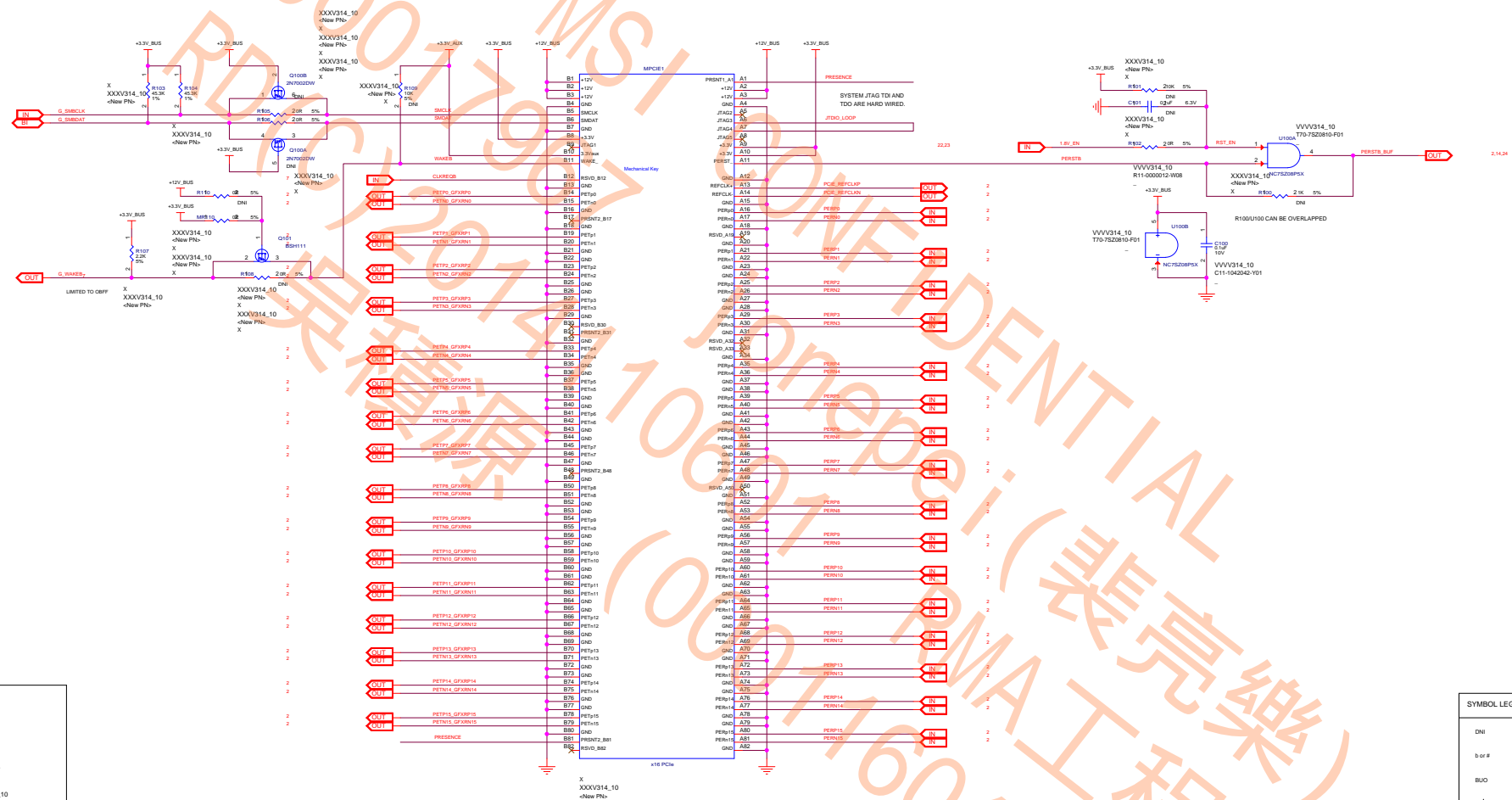


(1) PCI-EXPRESS EDGE CONNECTOR



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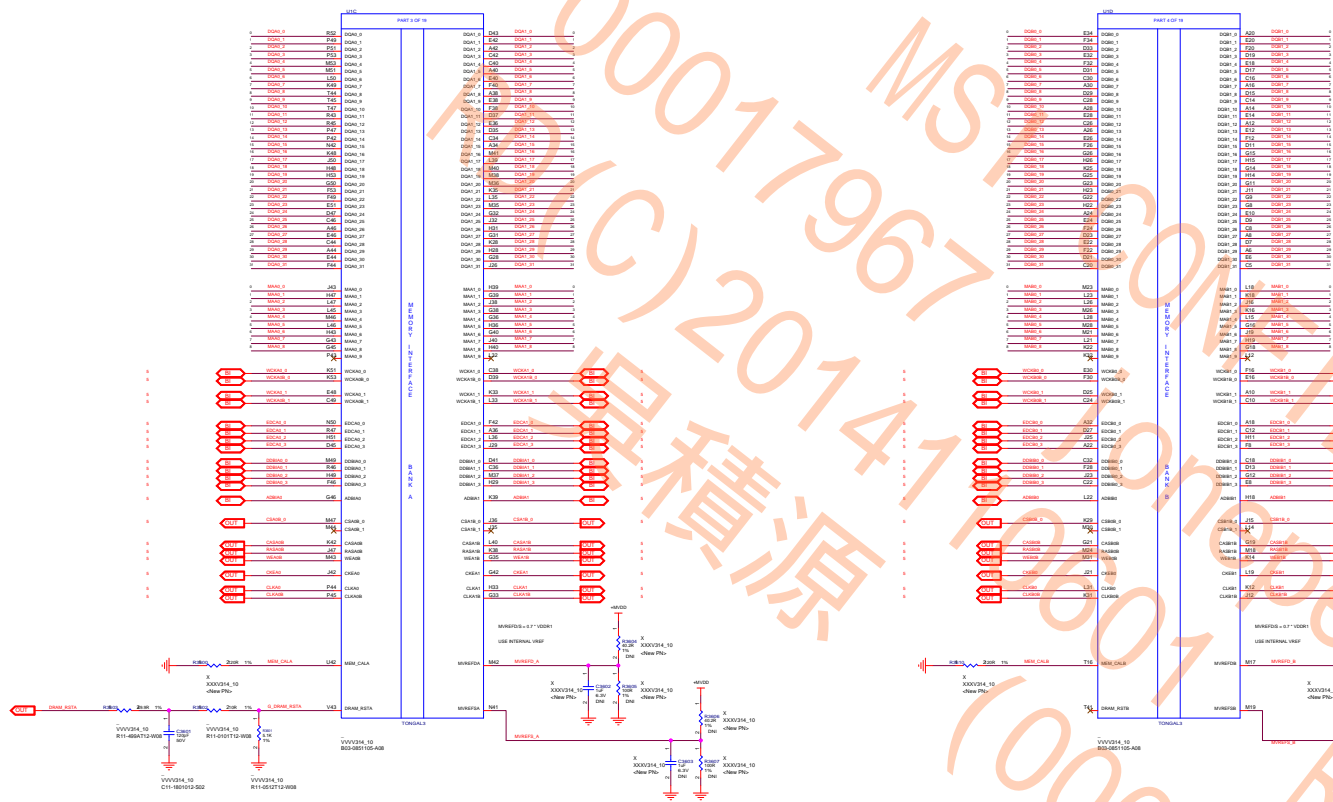
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DATE: Mon May 12 19:11:52 2014

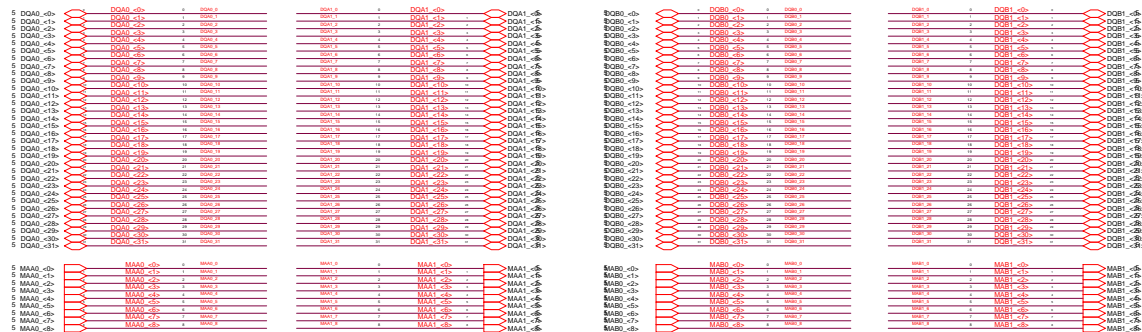
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Tonga-256 G5 x32

DOCUMENT NUMBER: 105-C766xx-00A



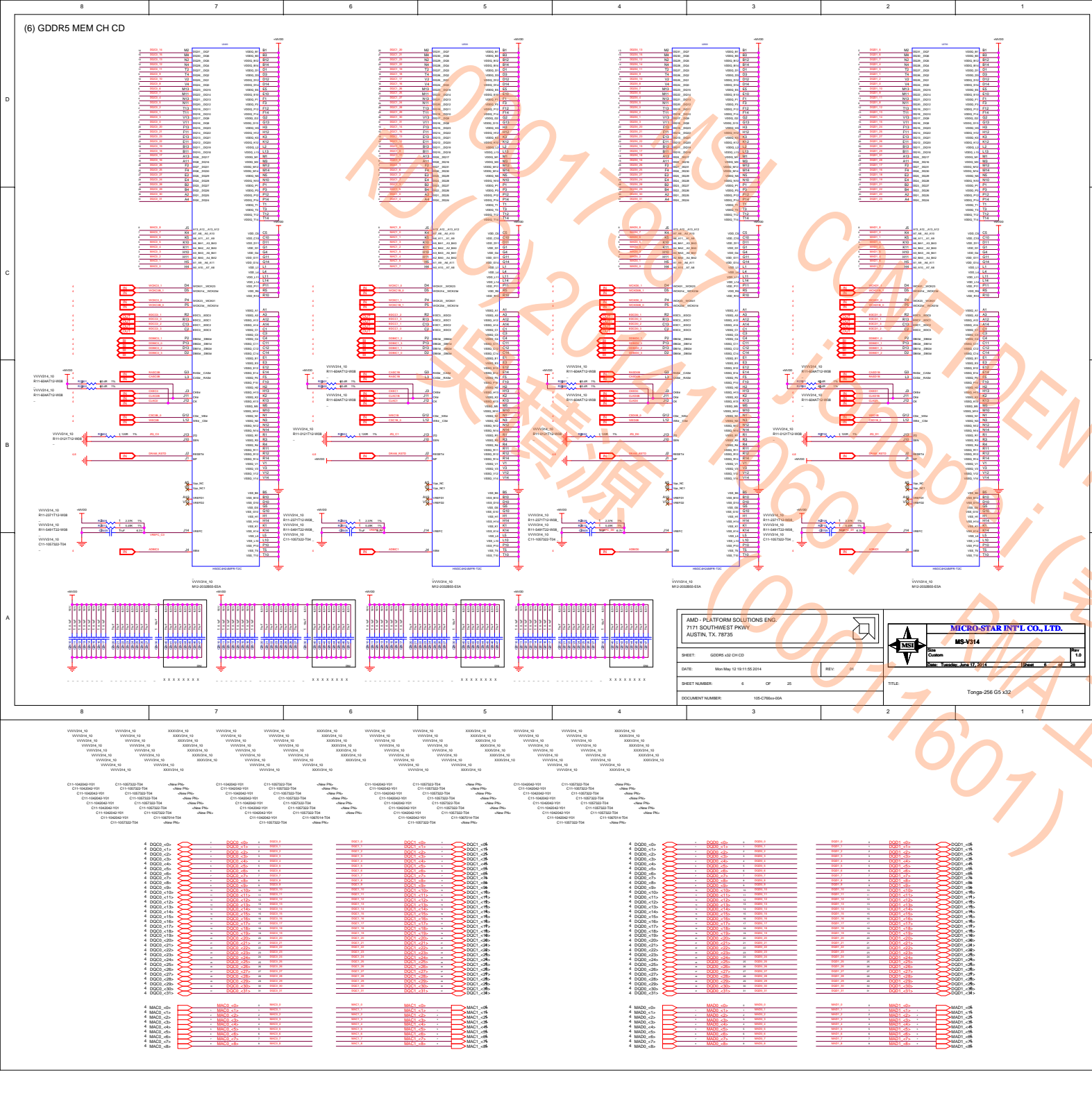
AMD - PLATFORM SOLUTIONS ENG. 7171 SOUTHWEST PKWY AUSTIN, TX. 78735				MICRO-STAR INT'L CO., LTD.	
SHEET: GPU MEM CH AB		REV: 01		MSI-V314	
DATE: Mon May 19 10:11:52 2014				Date Created: 17/2014	
SHEET NUMBER: 3 OF 25		TITLE: Tonga-266 05 x32		Rev: 1/3	
DOCUMENT NUMBER: 105.C769a-05A					



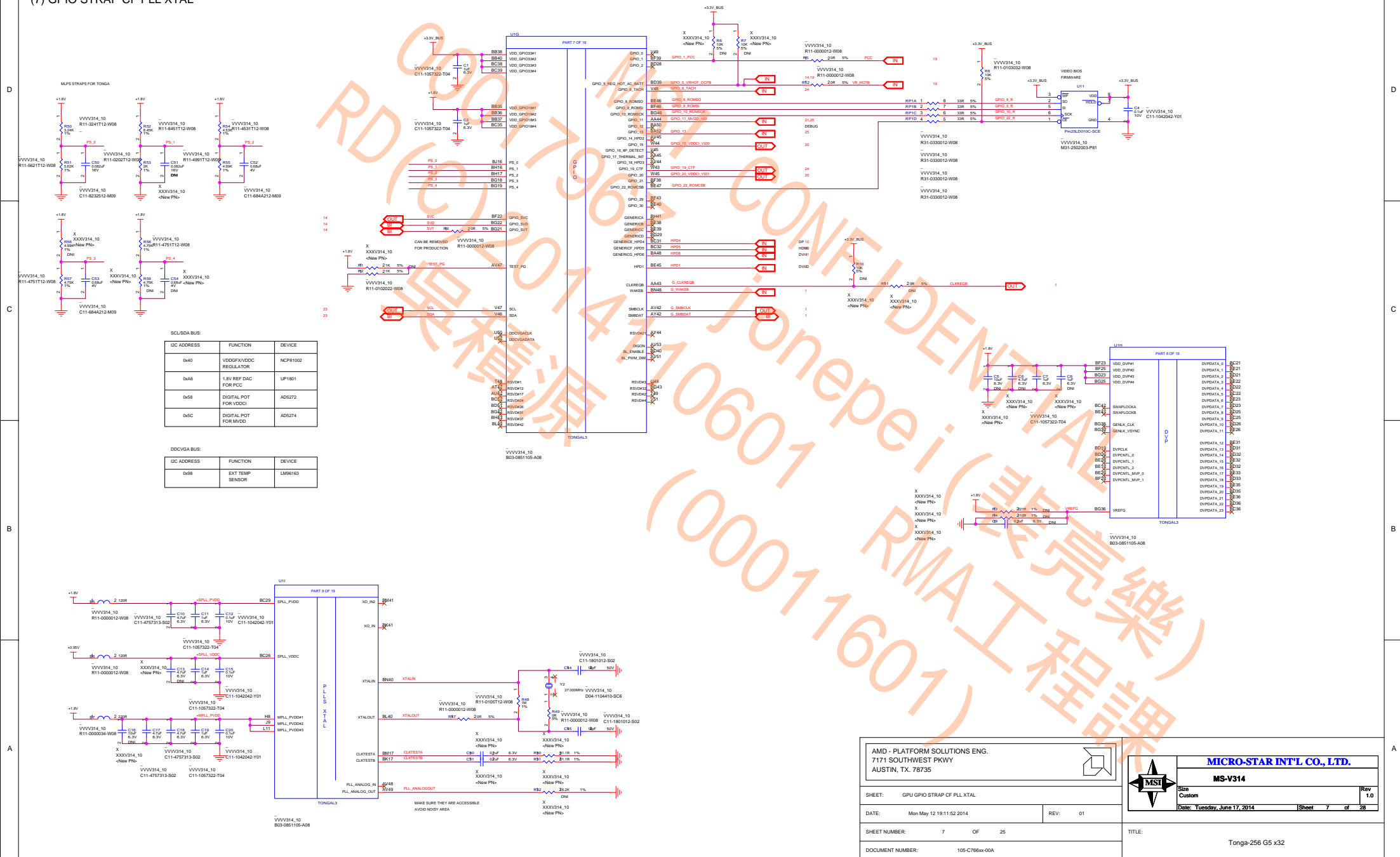
(5) GDDR5 MEM CH AB



(6) GDDR5 MEM CH CD

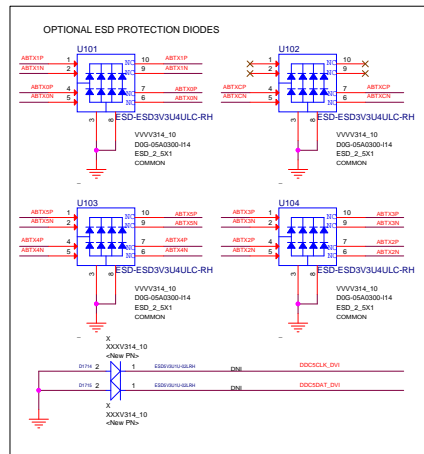
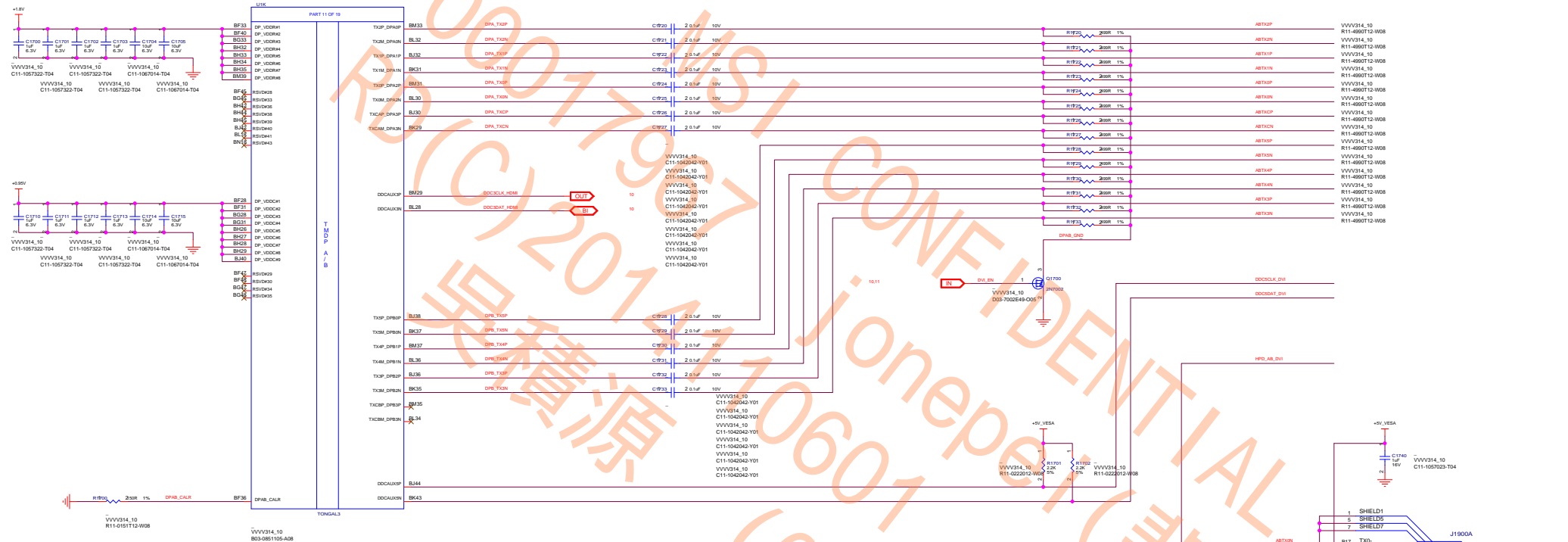


(7) GPIO STRAP CF PLL XTAL




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(9) TMDPAB sDVI



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MS-V314

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Date: Tuesday, June 17, 2014

Sheet 9 of 28

SHEET: GPU TMDPAB dV1 TOP

REV: 01

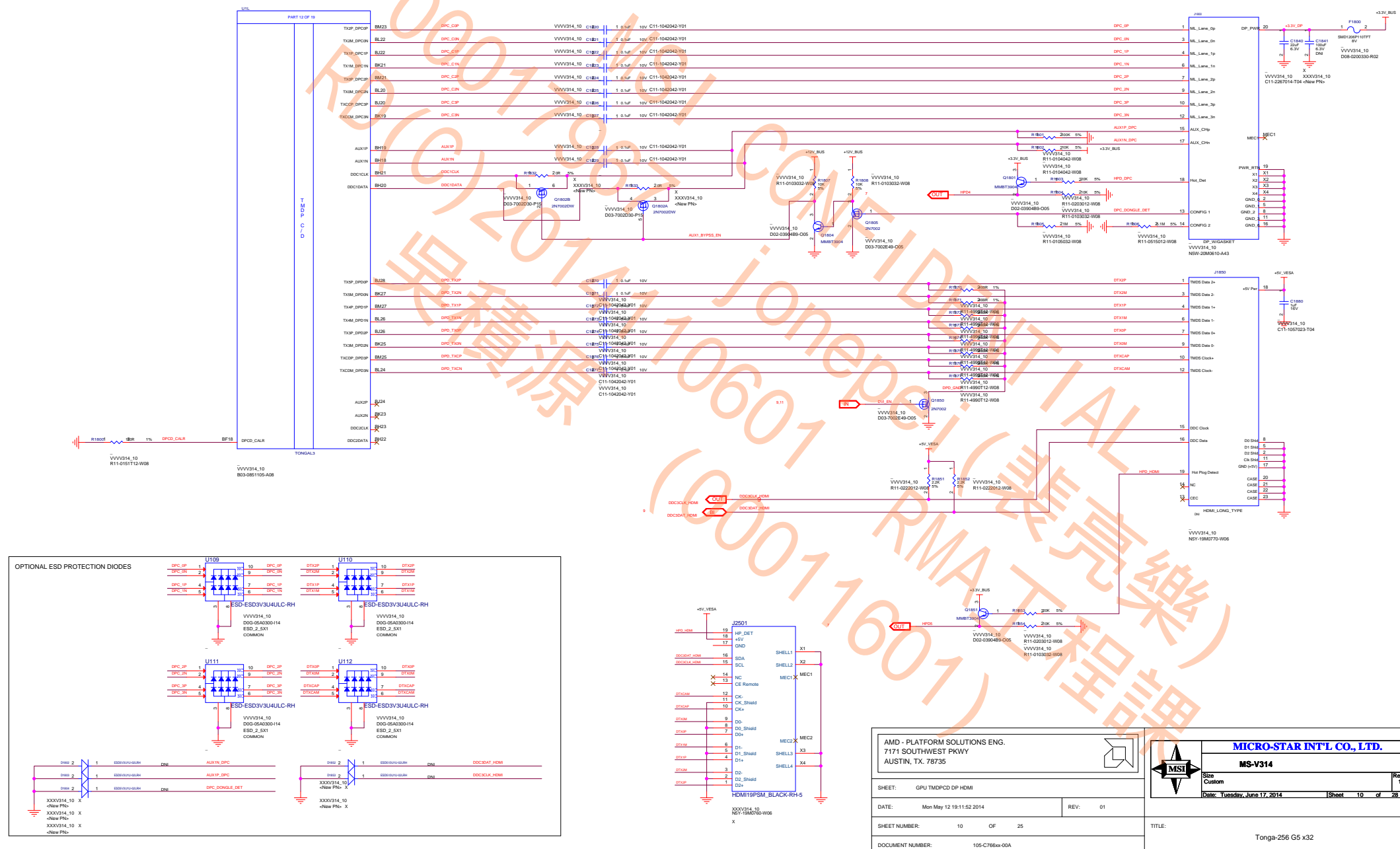
DATE: Mon May 12 19:11:52 2014

SHEET NUMBER: 9 OF 25


DOCUMENT NUMBER: 105-C766xx-00A

TITLE: Tonga-256 G5 x32

(10) TMDPCD DP HDMI





	MICRO-STAR INT'L CO., LTD.		
	MS-V314		
Size Custom	Date: Tuesday, June 17, 2014		Rev 1.0
		Sheet 11 of 28	

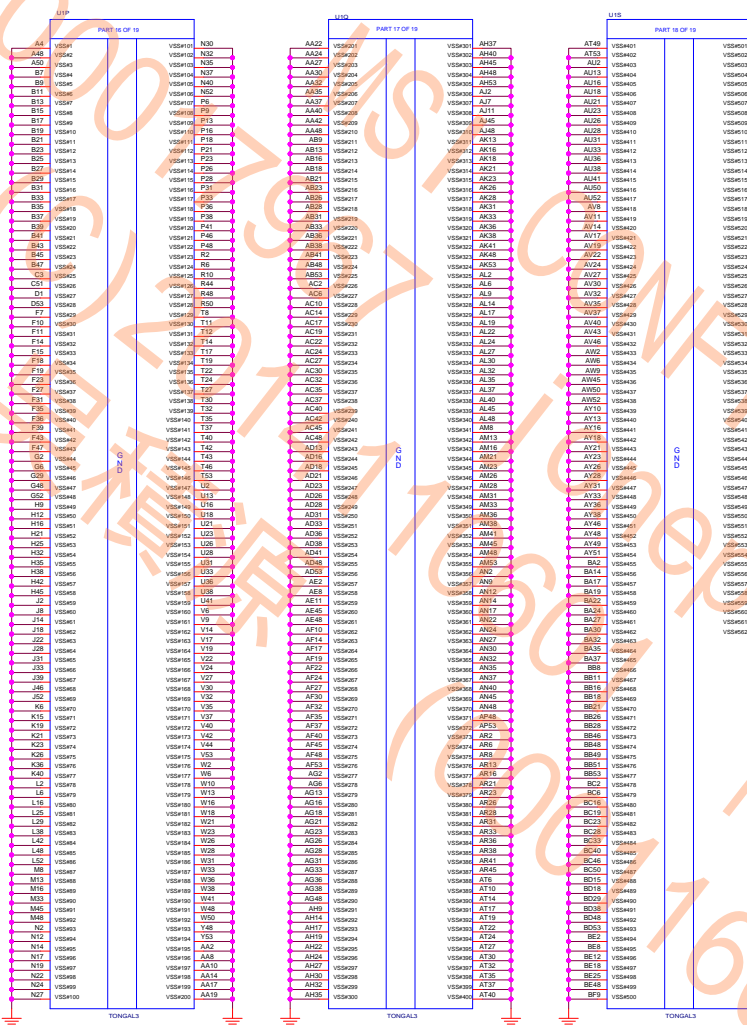
TITLE: Tonga-256 G5 x32

TITLE:	Tonga-256 G5 x32
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(13) GND



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SHEET: GPU GND

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REV: 01

SHEET NUMBER:

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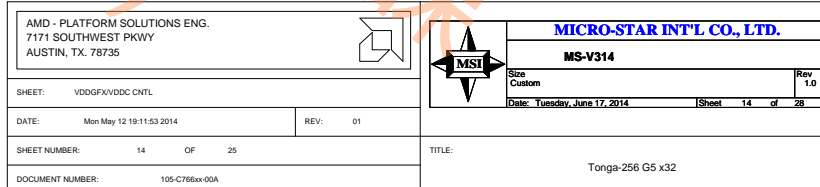
25

TITLE:

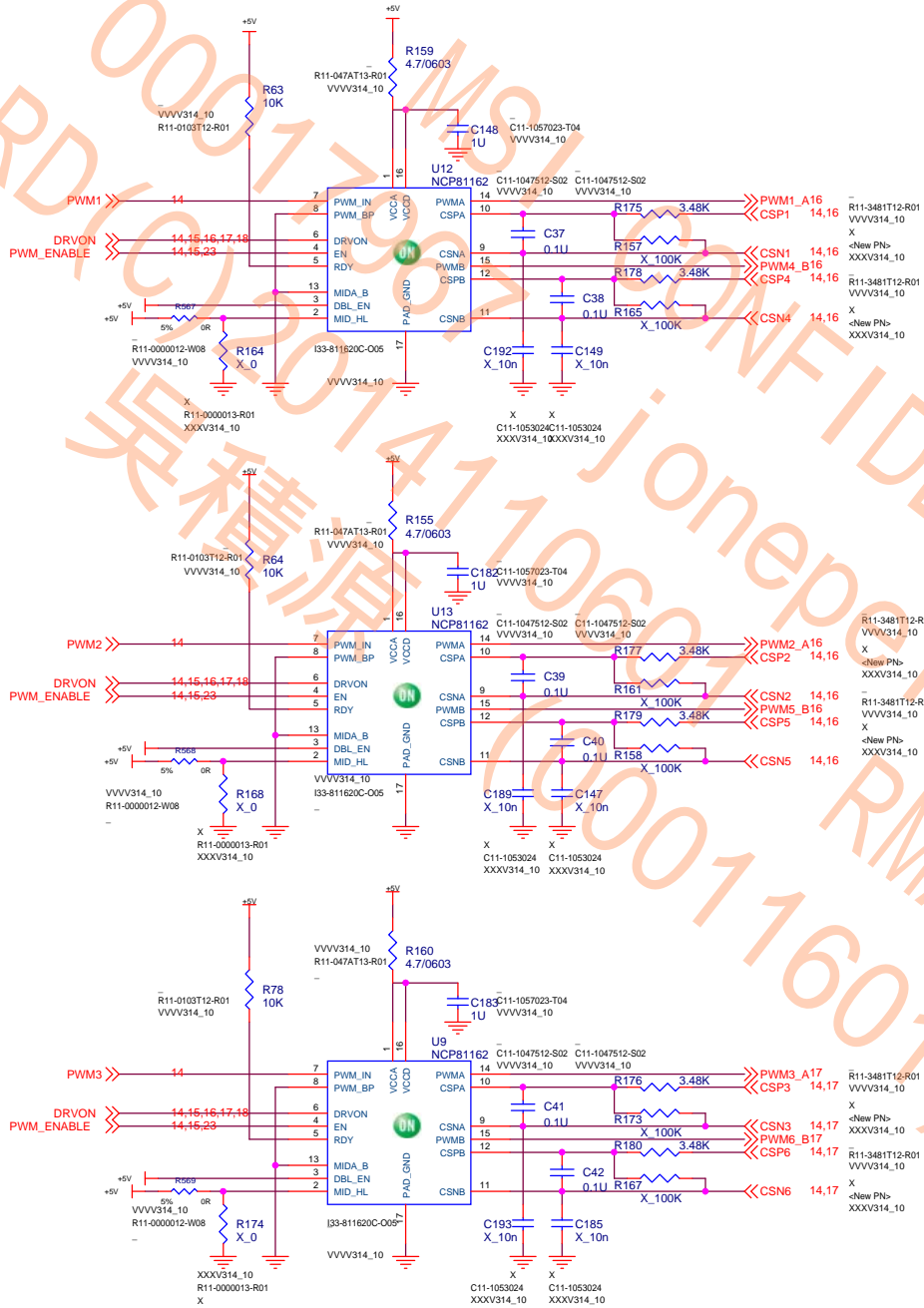
Tonga-Z56 G5 x32

DOCUMENT NUMBER: 105-C766xx-00A

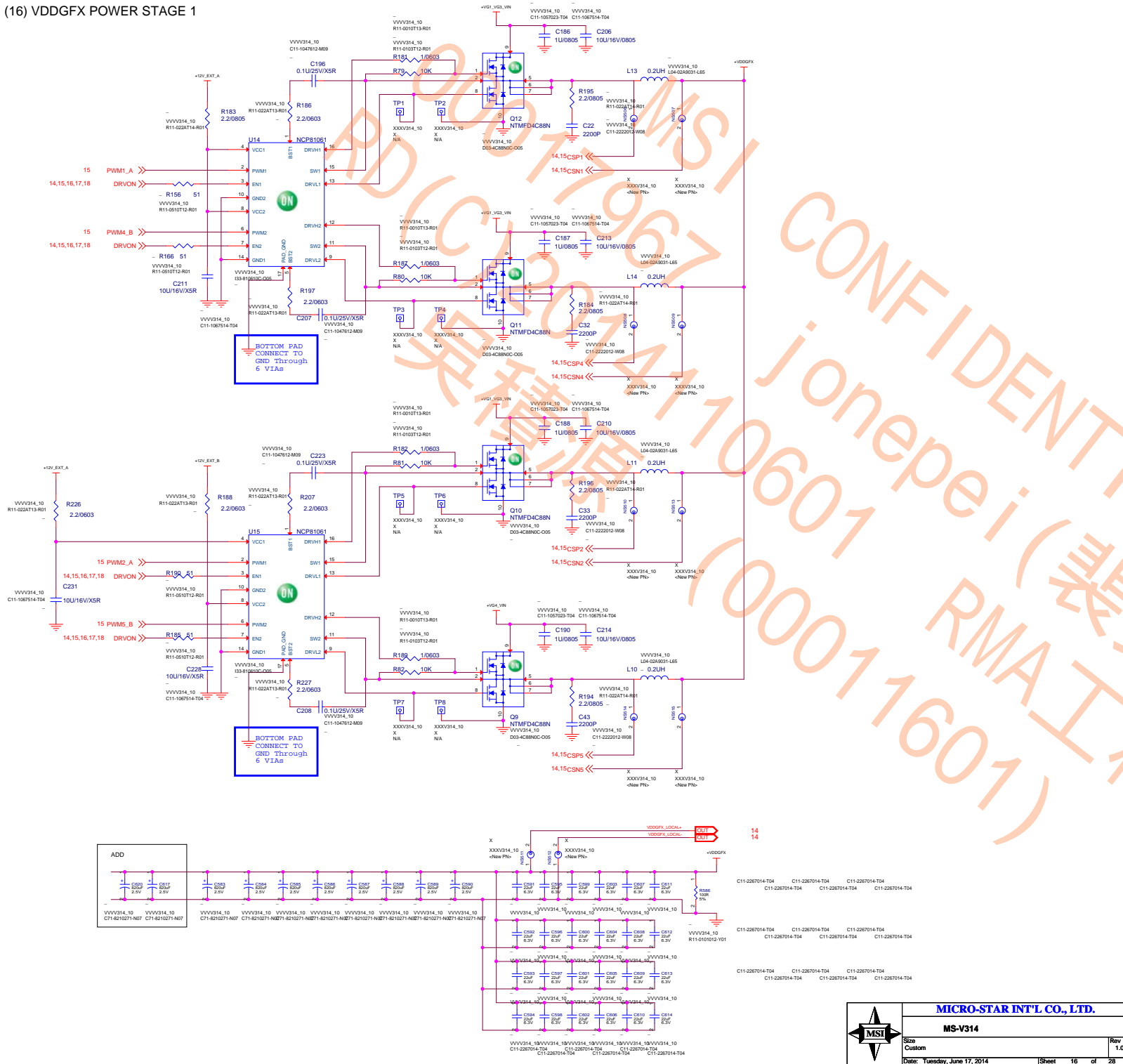
AMD SVI2 POWER CKT - 6+1 PHASE

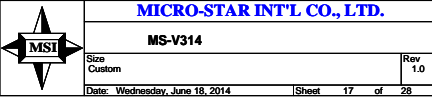


(15) PHASE DOUBLERS

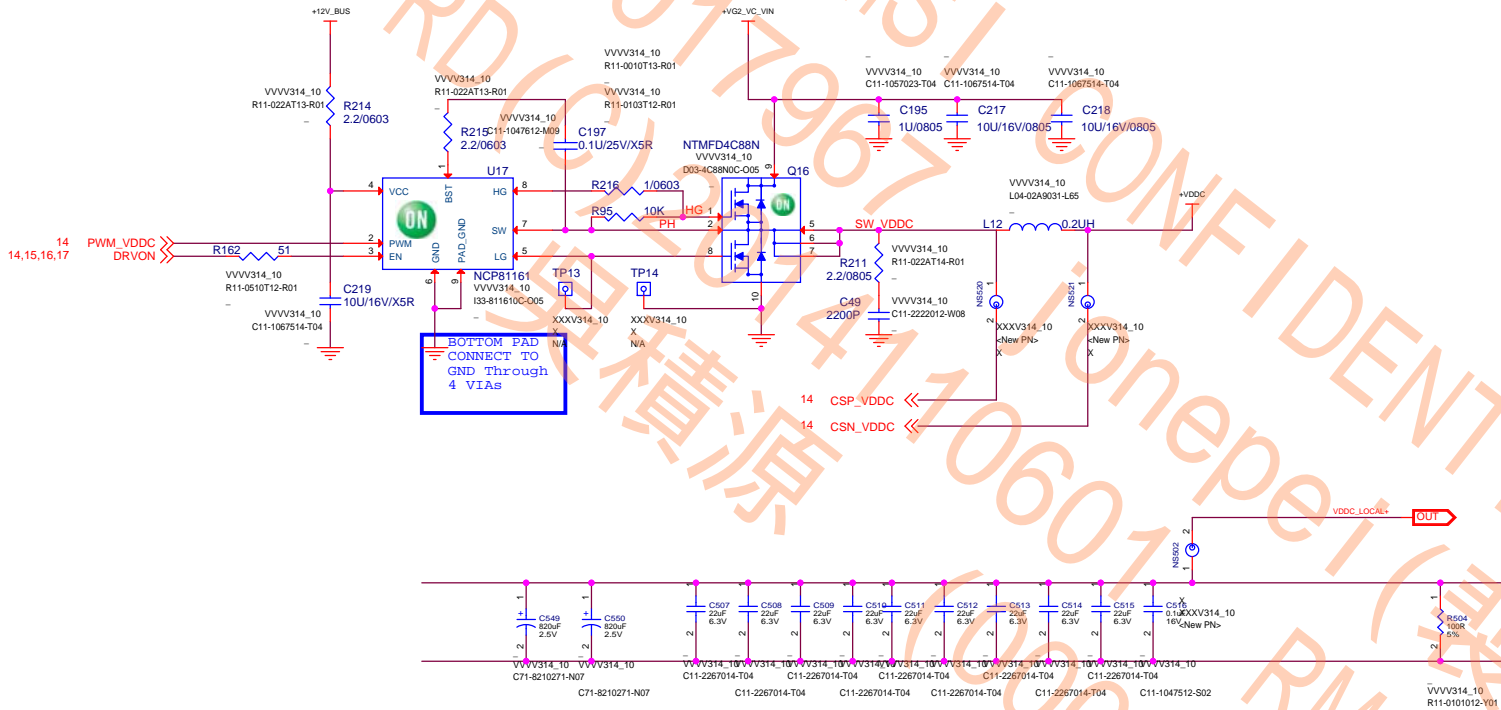



(16) VDDGFX POWER STAGE 1

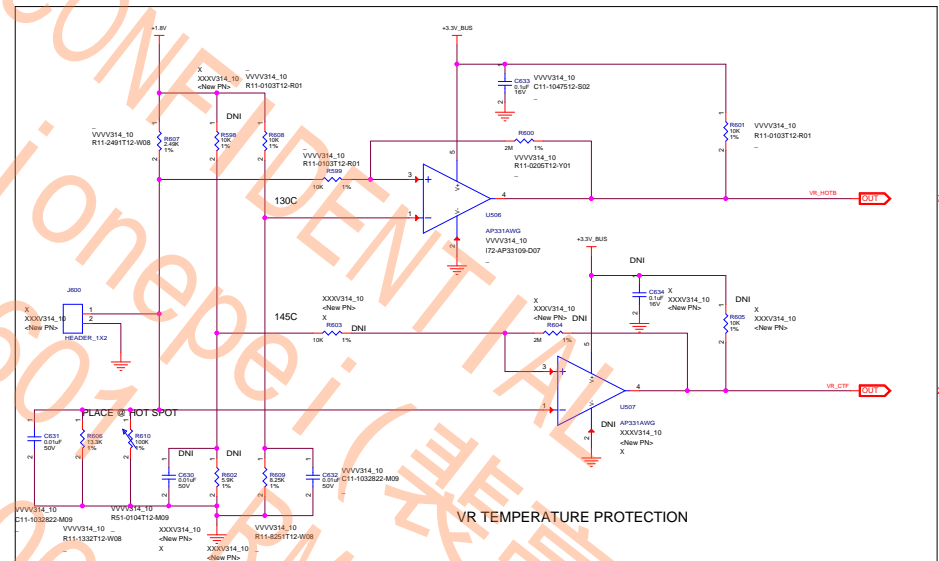
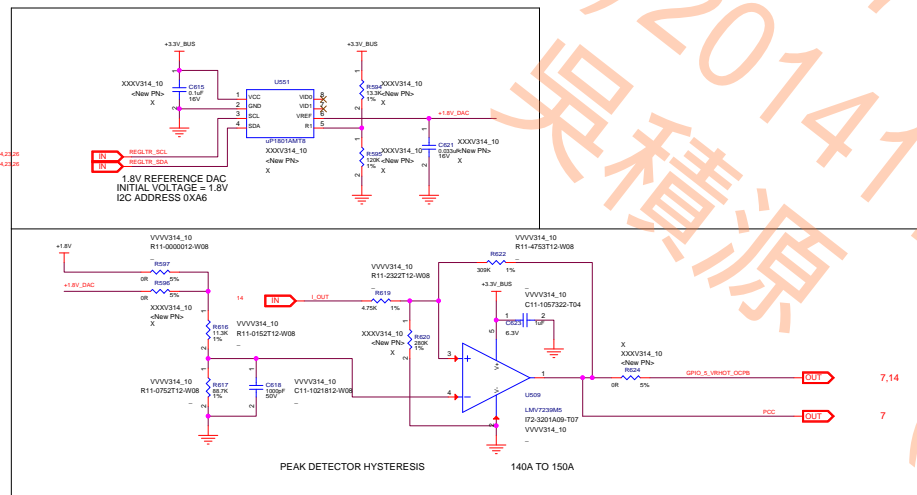




(18) VDDC OUTPUT STAGE



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SHEET: PCC VRHOT
DATE: Mon May 12 19:11:53 2014
SHEET NUMBER: 17 OF 25
DOCUMENT NUMBER: 105-C766x-00A

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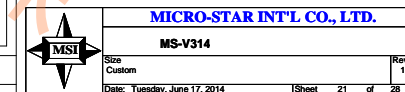


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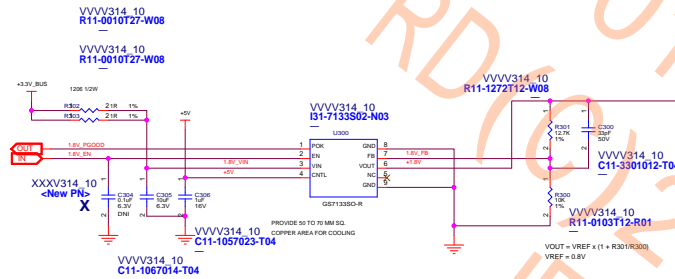
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TITLE: Tonga-Z56 G5 x32

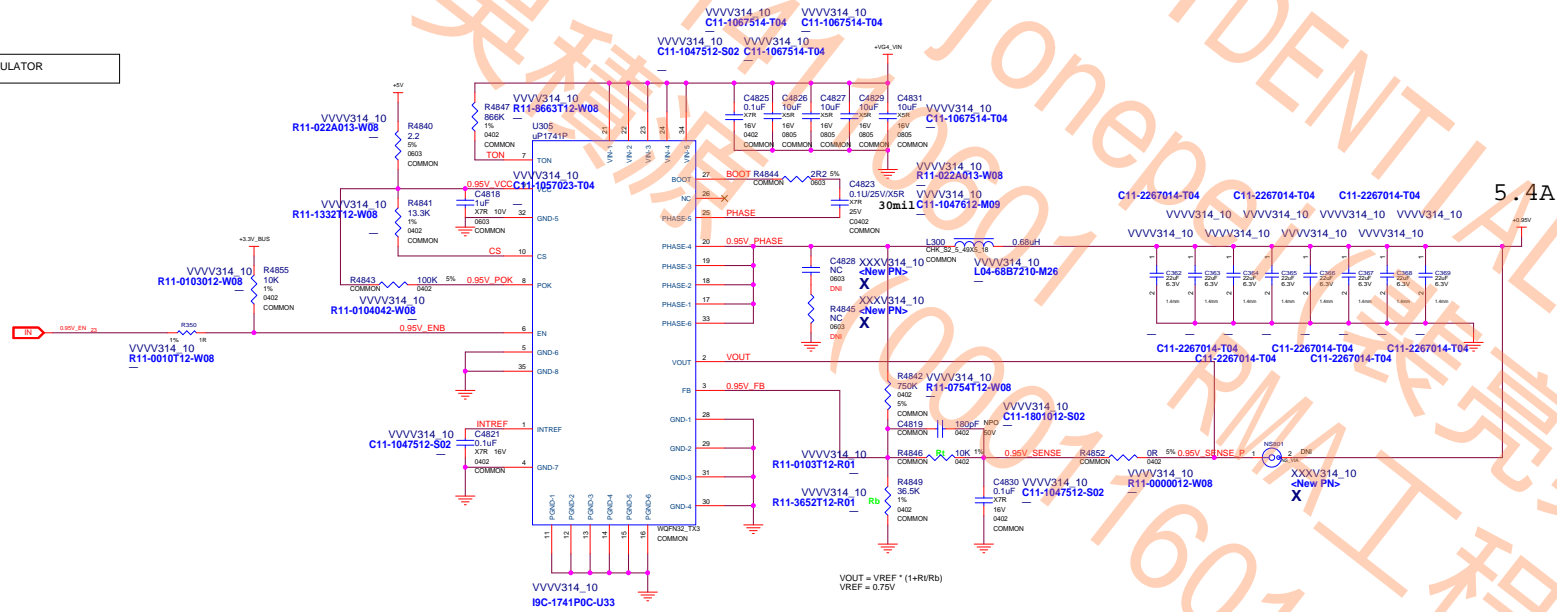


(22) SMALL RAIL REGULATOR

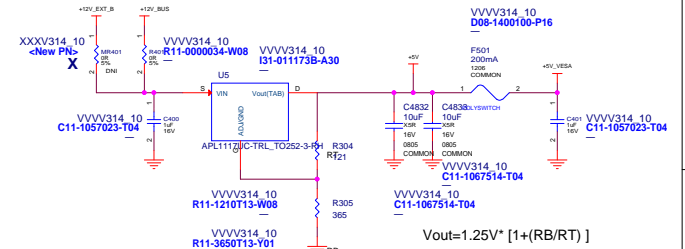
1.8V REGULATOR



0.95V REGULATOR



5V REGULATOR



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SHEET: SMALL RAIL REGULATOR

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DOCUMENT NUMBER: 105-C766xx-00A



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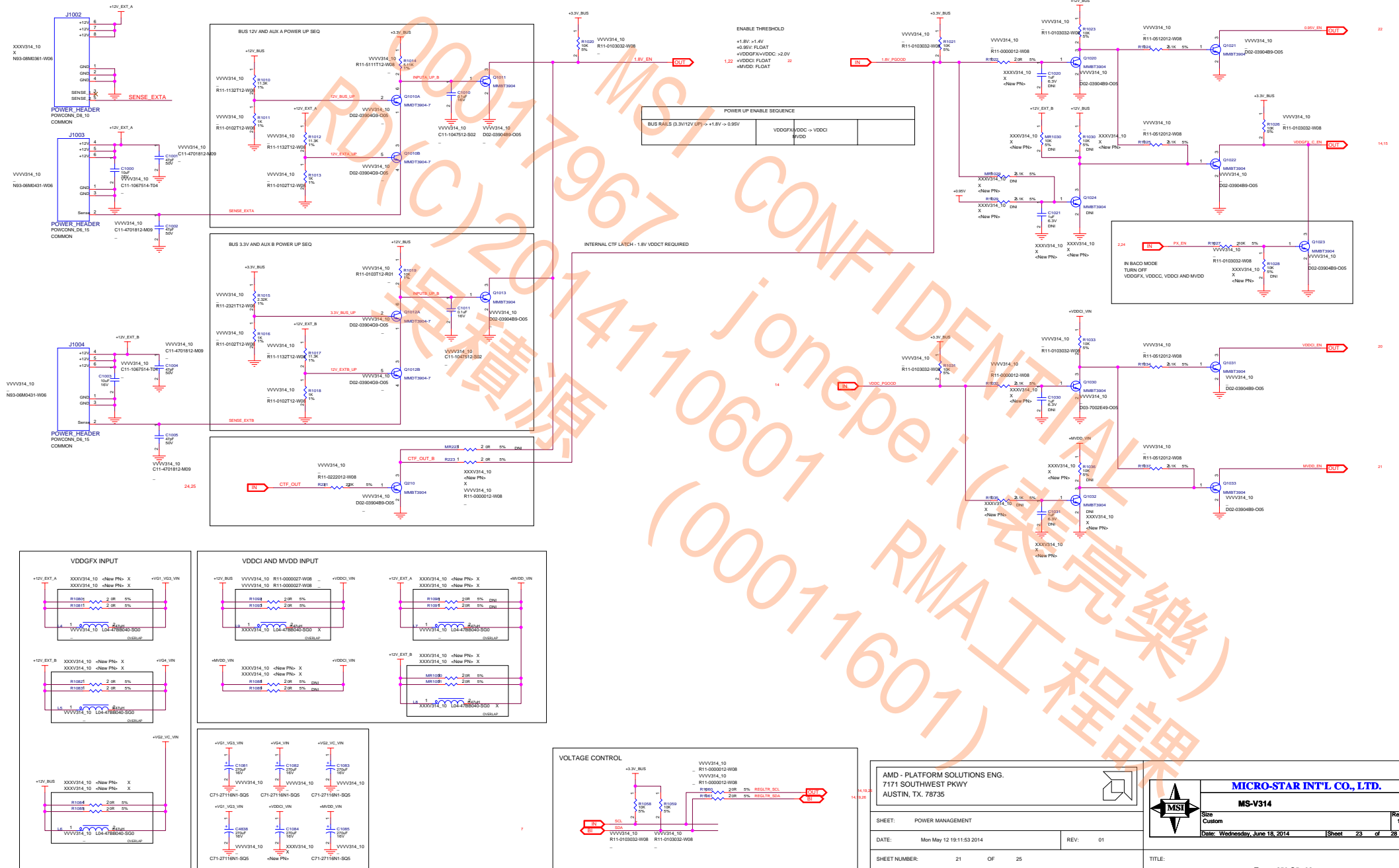
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TITLE:	
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Tonga-256 G5 x32

(23) POWER MANAGEMENT



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SHEET: POWER MANAGEMENT

DATE: Mon May 12 19:11:53 2014

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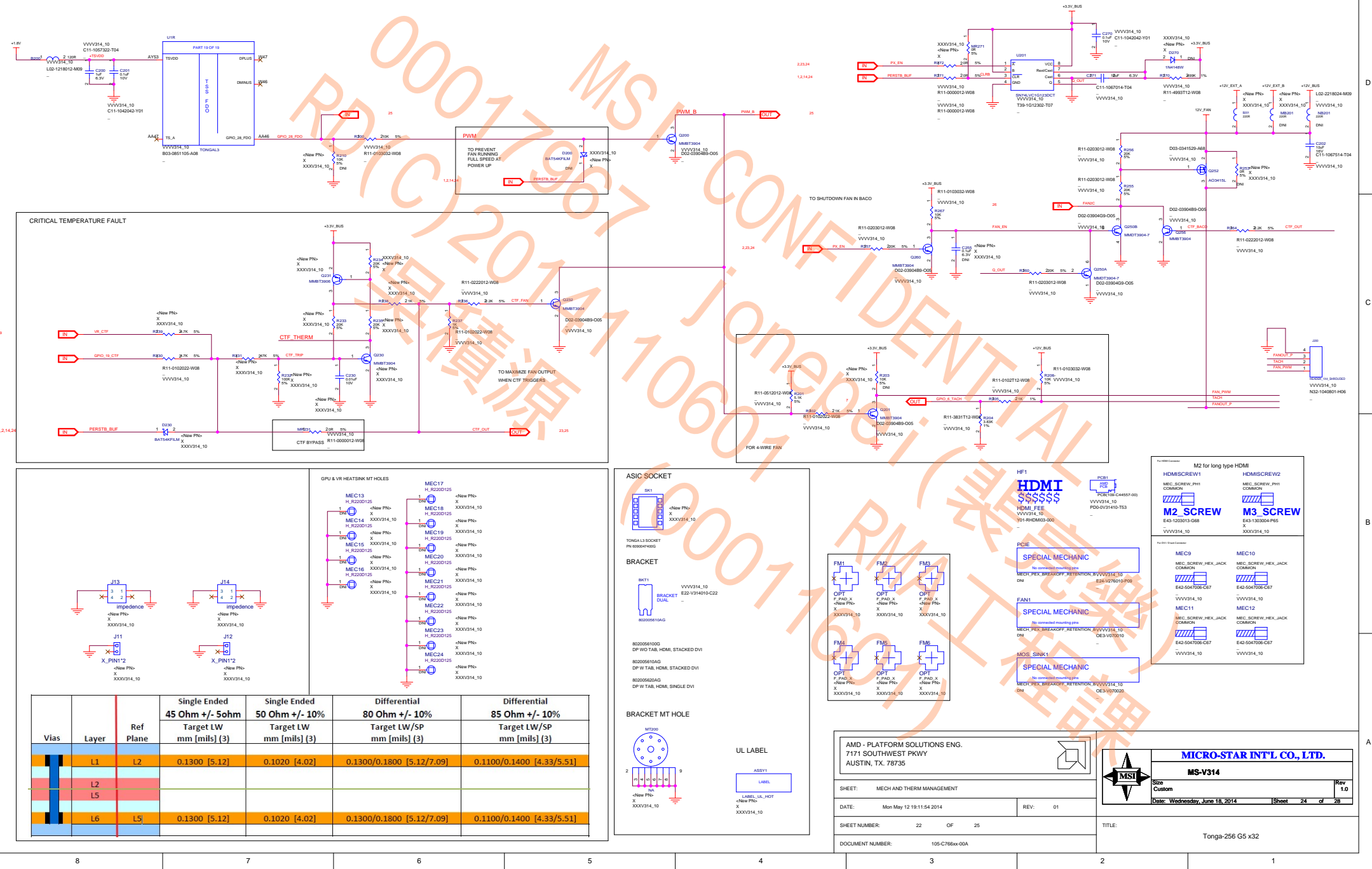
Wednesday, June 18, 2014

Tonga-256 G5 x32

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[illegible]

(24) MECH AND THERM MANAGEMENT



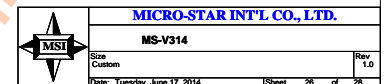
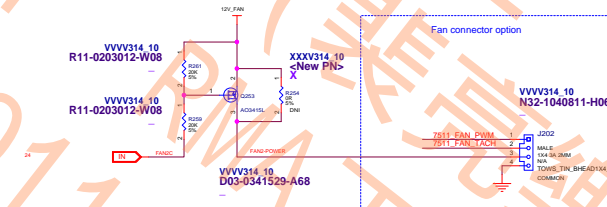
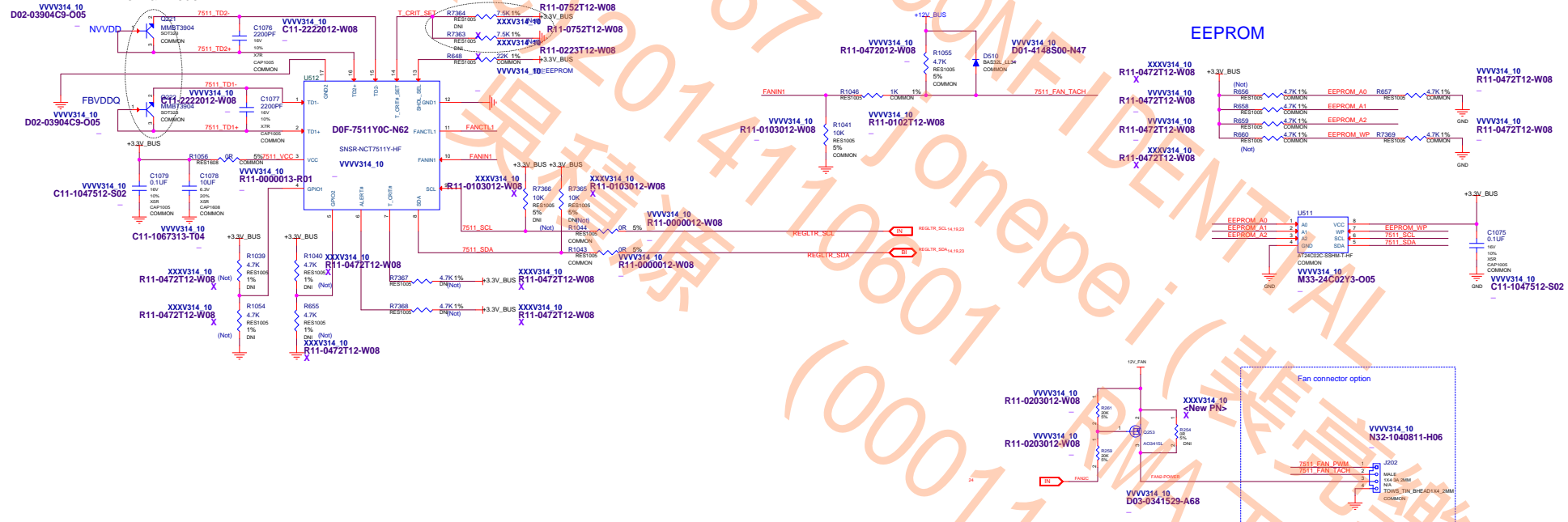
Thermal IC : NCT7511Y

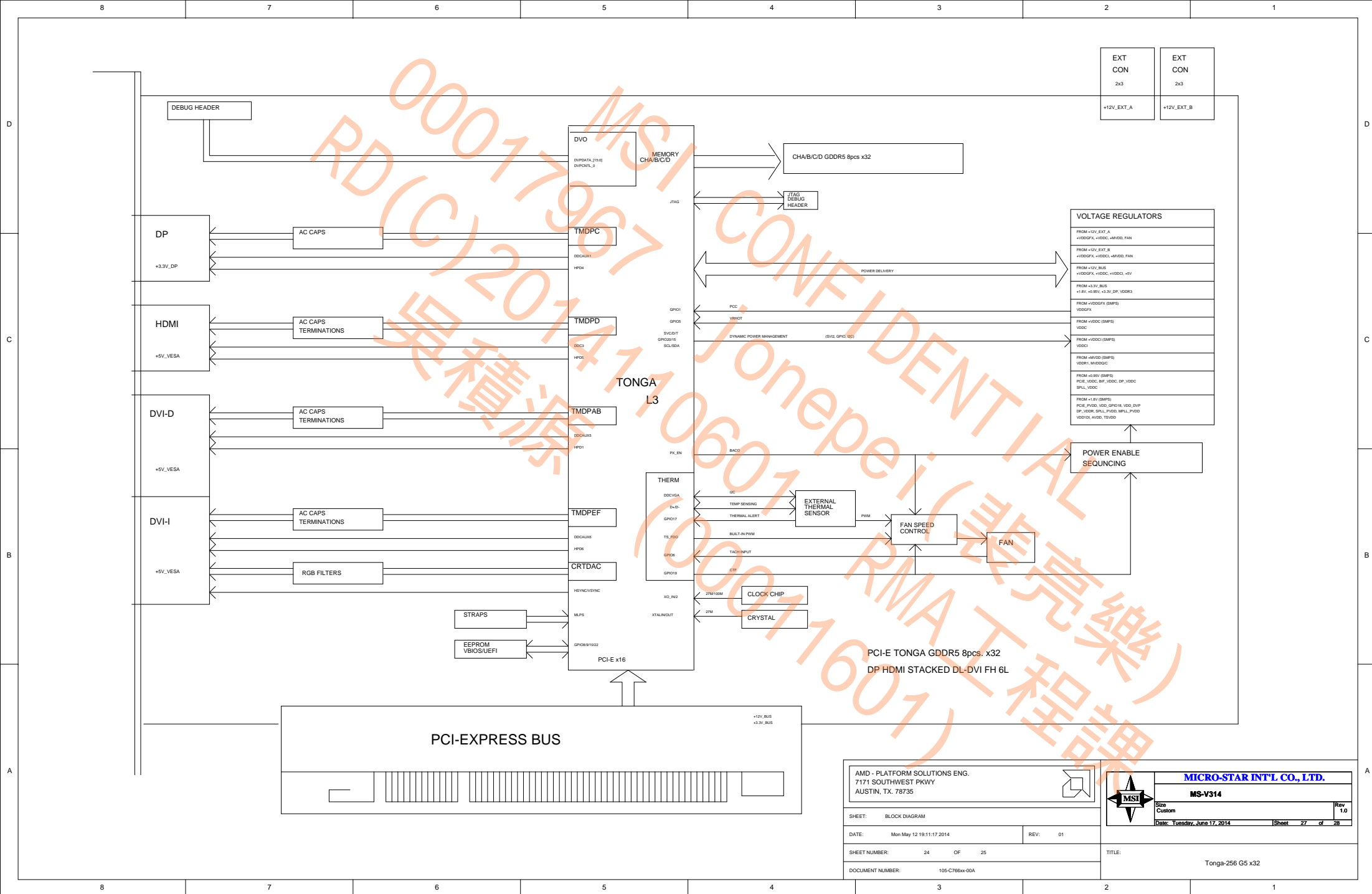
Layout notice :

- *Add ground shielding for D+ and Dtraces.
- *D+/D- route has to be away from the high noise area.
- *The recommended traces width and ground shielding spacing are 10mils.

Please refer datasheet
TCRIT_SET Table
If floating, shutdown temp. set to 65°C

Thermal Diode





REVISION HISTORY

ENGINEER:

YYY

NOTES:

NOTE

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SHEET NUMBER: 28 OF 2

REV: 1.0

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#48, No.1387, ZHANGDONG ROAD
SHANGHAI, CHINA 201203

SCH Rev	PCB Rev	Date	REVISION DESCRIPTION
0	00A	20141106	INITIAL SCHEMATIC
1	00B	20141106	LAYOUT FOR KILLING CONNECTION FOR VIDEO ANAL ADD HEAT SINK SYMBOL, HD
MS-1314	1.0	20141106	01. IO 接口換常用料,增加 ESD 零件. 02. HDMI co-lay long body. 03. Vcore 加 Hi-C cap. 04. Vcore 加入 doubler, 相數增到 6 phase. 05. PWM 的 MOSFET 和 Choke 改常用料. 06. LDO 換常用料. 07. 0.95V 改用 V303 的線路. 08. 改反向 6 pin EXT_12V 接口其中一個 colay 8pin. 09. 移除部分公板不上件線路. 10. 增加 V277-0C 風扇控制線路. 11. 12V_BUS 和 12V_EXT A/B 重新分配.