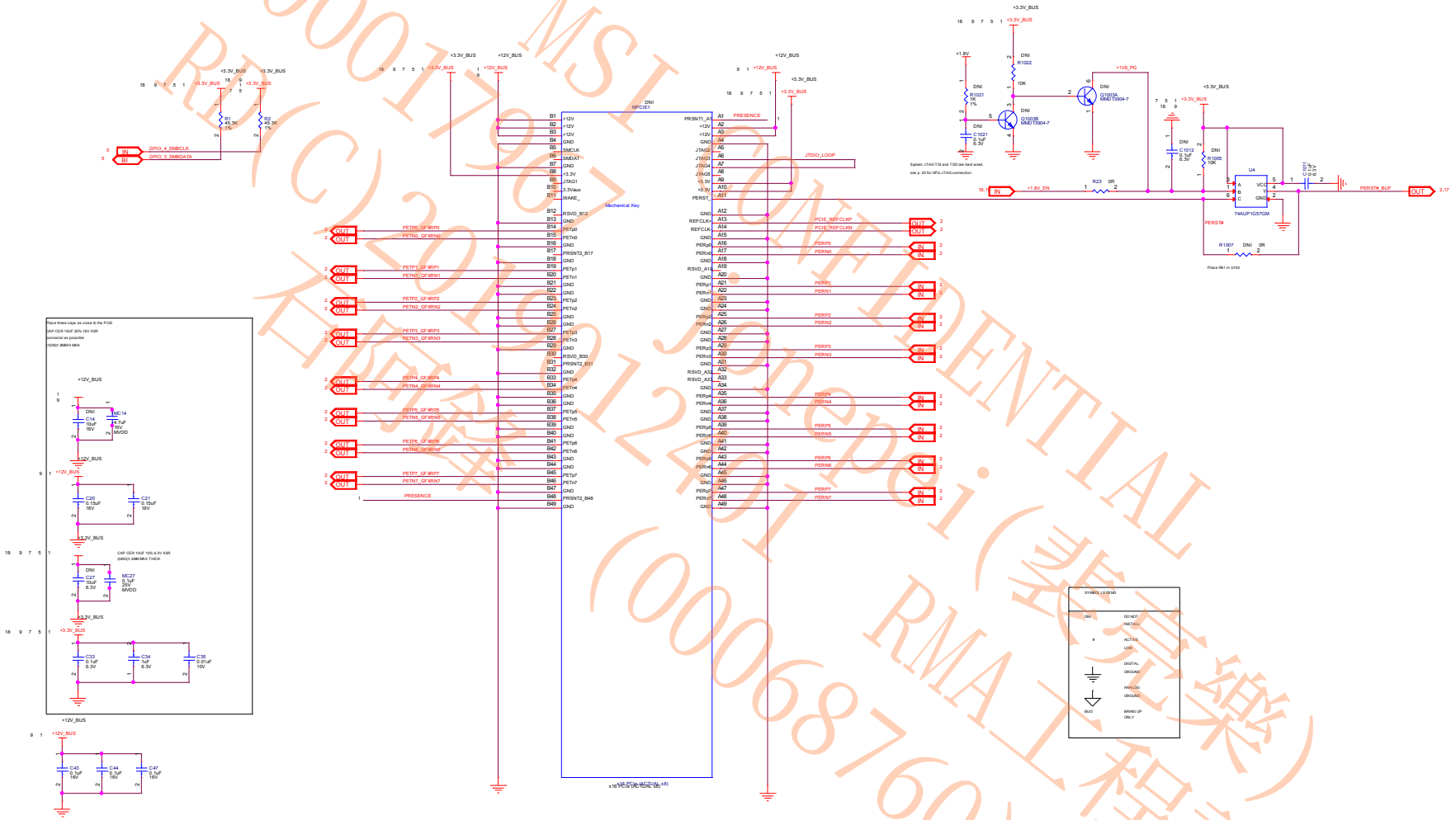
PCI-EXPRESS EDGE CONNECTOR



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(000068760)

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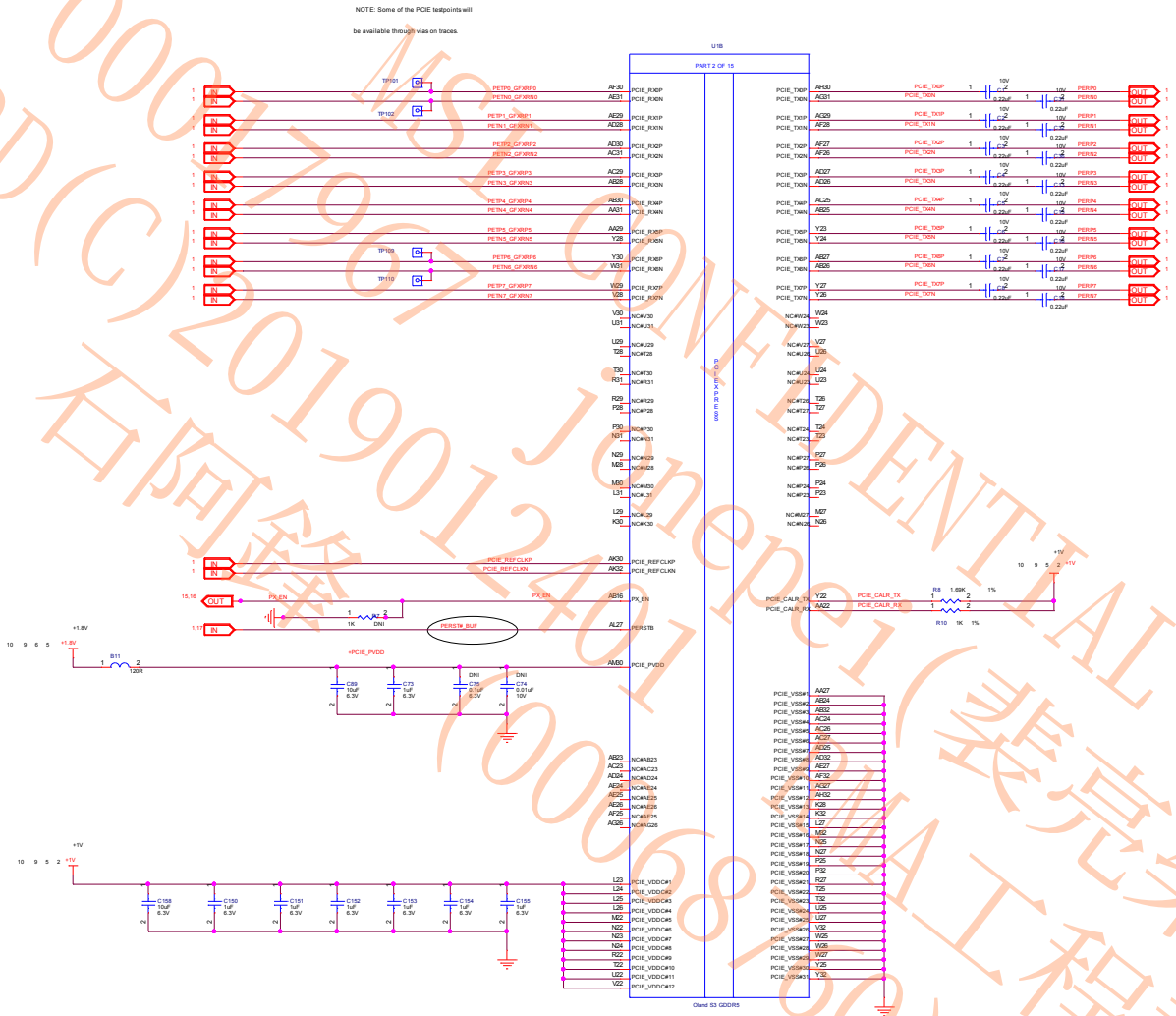
SHEET: PCI-E Edge Connector	
DATE: Wed Aug 29 03:27:33 2018 / REV: P00	
SHEET NUMBER: 1 OF 20	TITLE: XXX
DOCUMENT NUMBER: 105_d12900_00A	

OLAND PCIe Interface



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石阿餐 (000068/60) MA工程部

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SHEET:	Oland PCIEx8 Interface
DATE:	Thu Jan 05 05:41:57 2017
REV:	P00
SHEET NUMBER:	2 OF 20
DOCUMENT NUMBER:	105_d12900_00A
TITLE:	XXX

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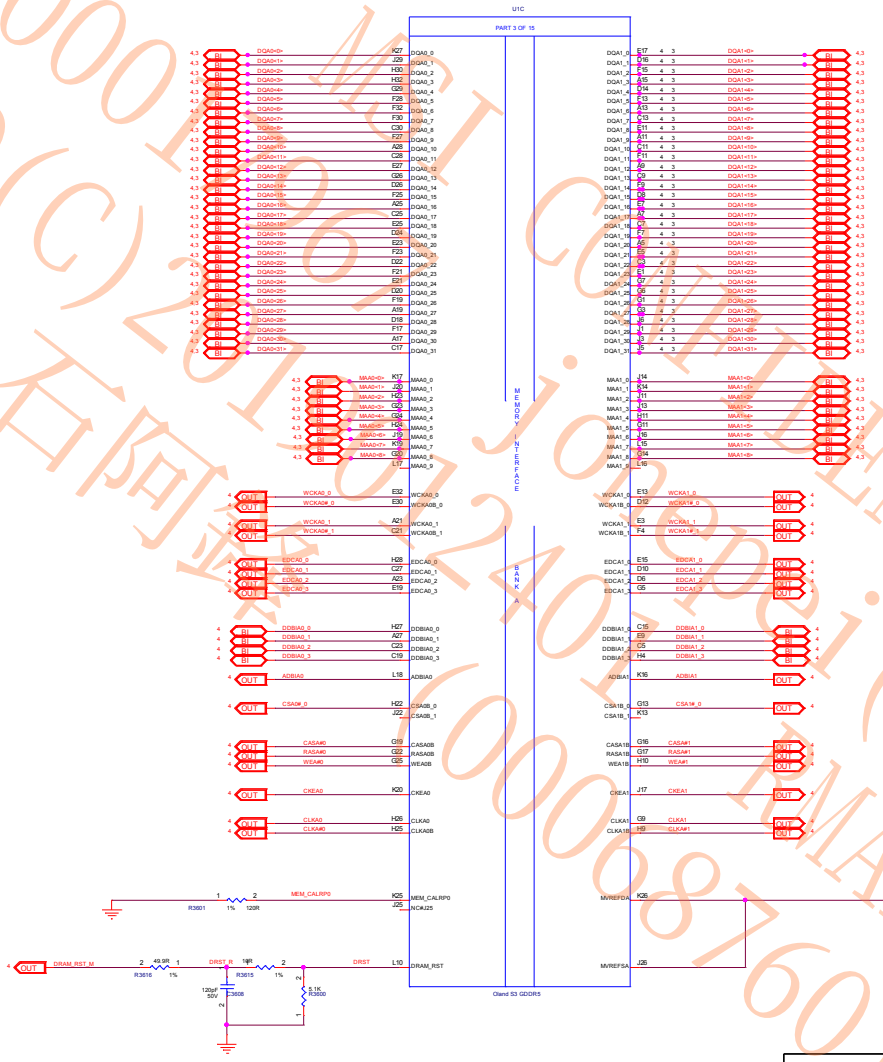
Oland S3 MEM Interface Ch A



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SHEET: VDDCI	
DATE: Wed Aug 29 03:24:49 2018	REV: P00
SHEET NUMBER: 3 OF 20	
DOCUMENT NUMBER: 105_d12900_00A	
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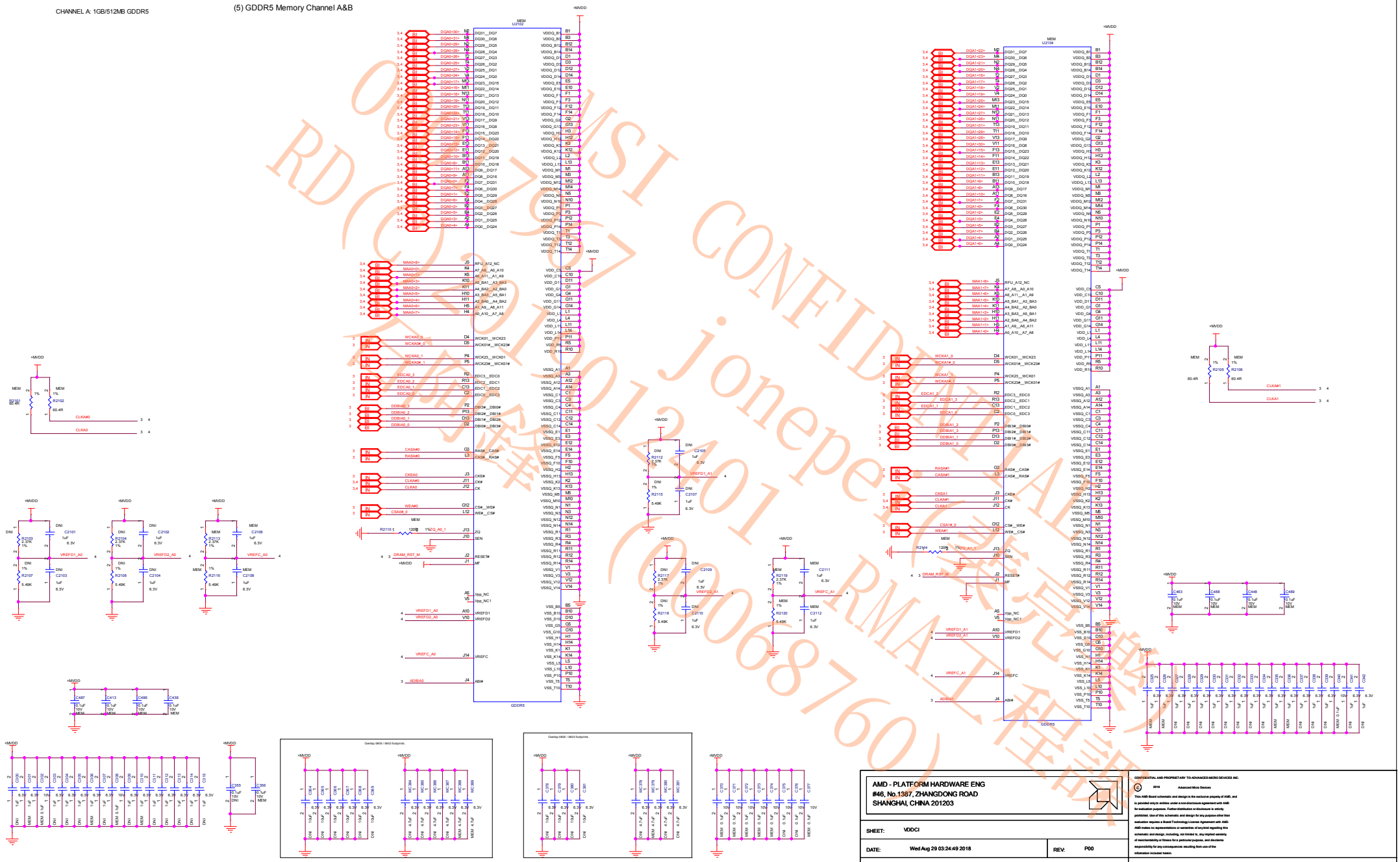
CHANNEL A: 1GB/512MB GDDR5

(5) GDDR5 Memory Channel A&B



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SHEET:	VDDCI		
DATE:	Wed Aug 29 03:24:49 2018	REV:	P00
SHEET NUMBER:	4 OF 20		
DOCUMENT NUMBER:	105_d12900_00A		
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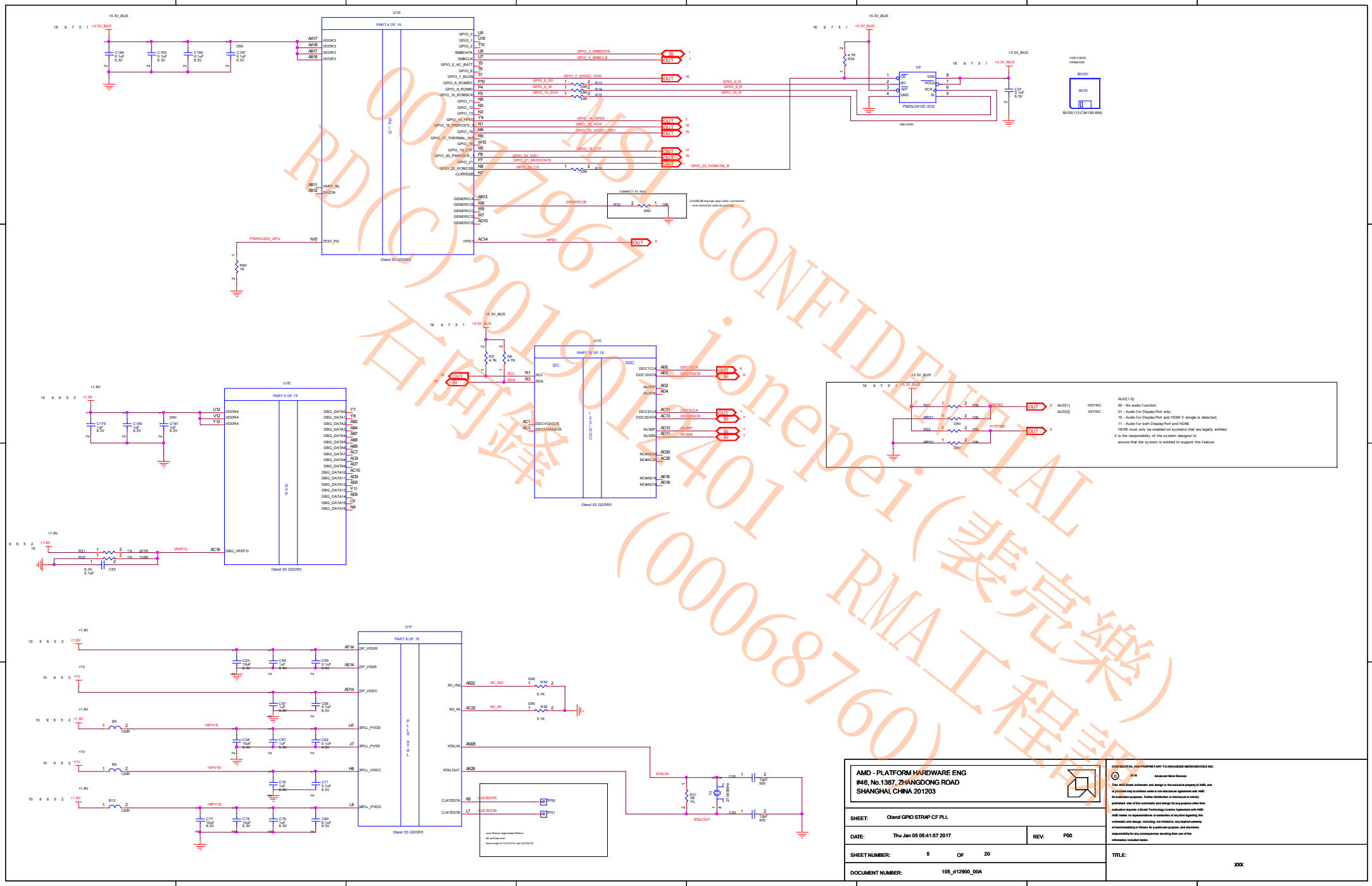

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SHEET:	Oland GPIO STRAP CF PLL
DATE:	Thu Jan 05 05:41:57 2017
REV:	P00
SHEET NUMBER:	5 OF 20
DOCUMENT NUMBER:	105_d12900_00A
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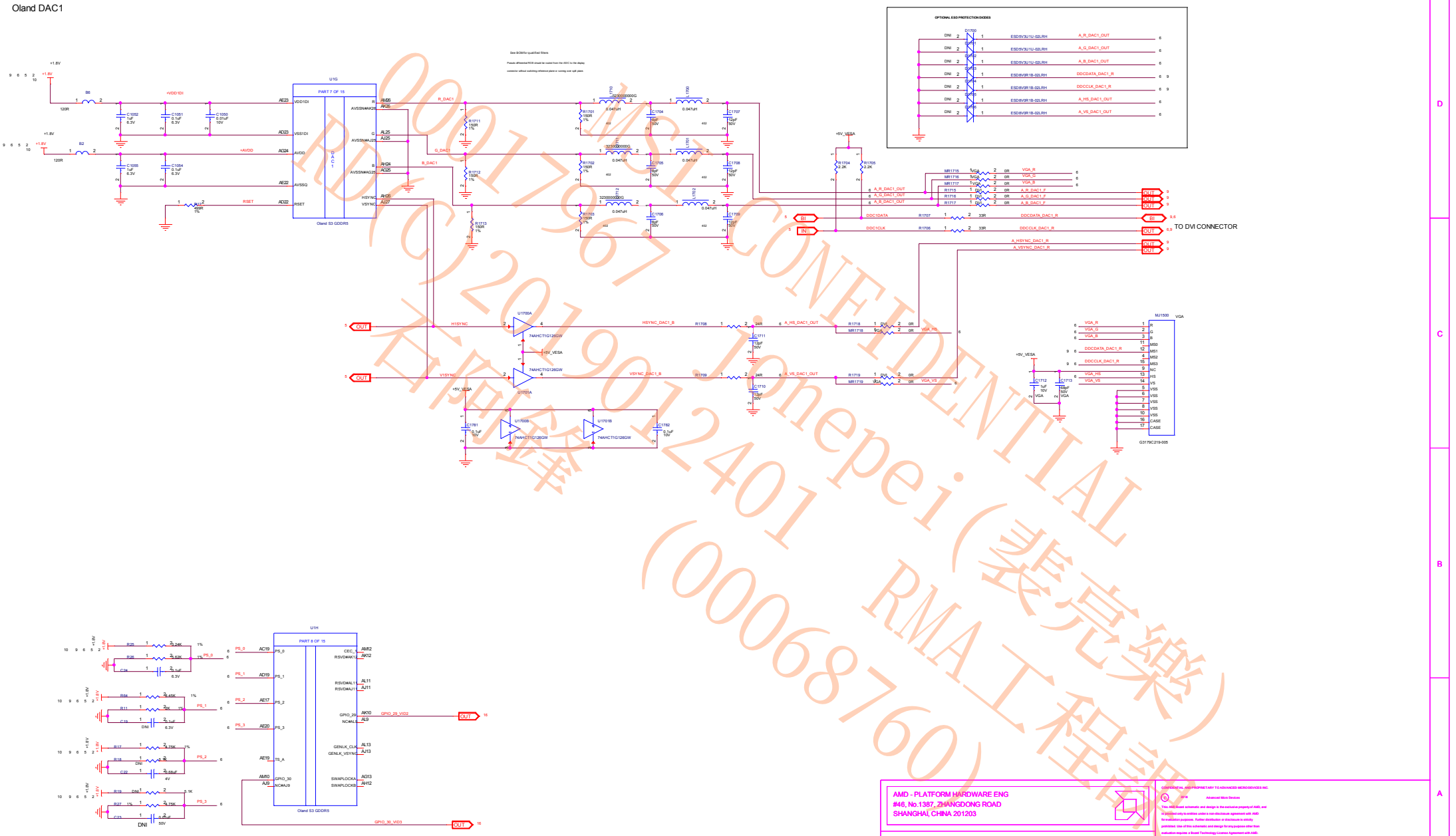
Oland DAC1



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SHEET:	Oland DAC
DATE:	Thu Jan 05 05:41:56 2017
REV:	P00
SHEET NUMBER:	6 OF 20
DOCUMENT NUMBER:	105_d12900_00A
TITLE:	XXX

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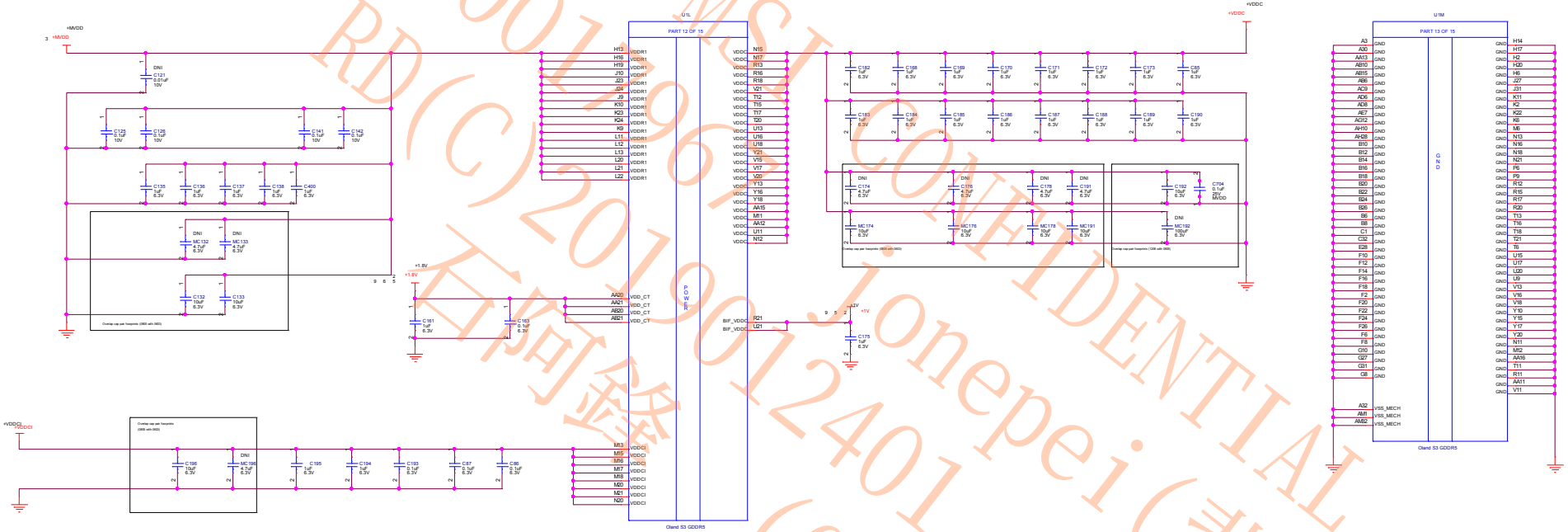
OLAND S3 Power & GND



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SHEET: VDDCI	
DATE: Wed Aug 29 03:24:49 2018 / REV: P00	
SHEET NUMBER: 10 OF 20	TITLE: XXX
DOCUMENT NUMBER: 105_d12900_00A	
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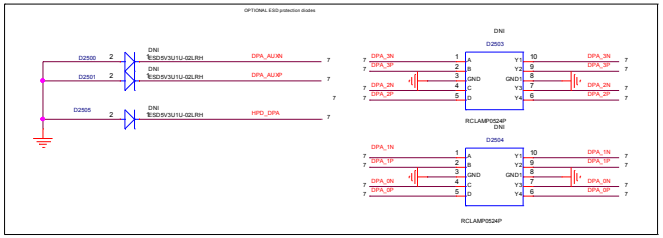

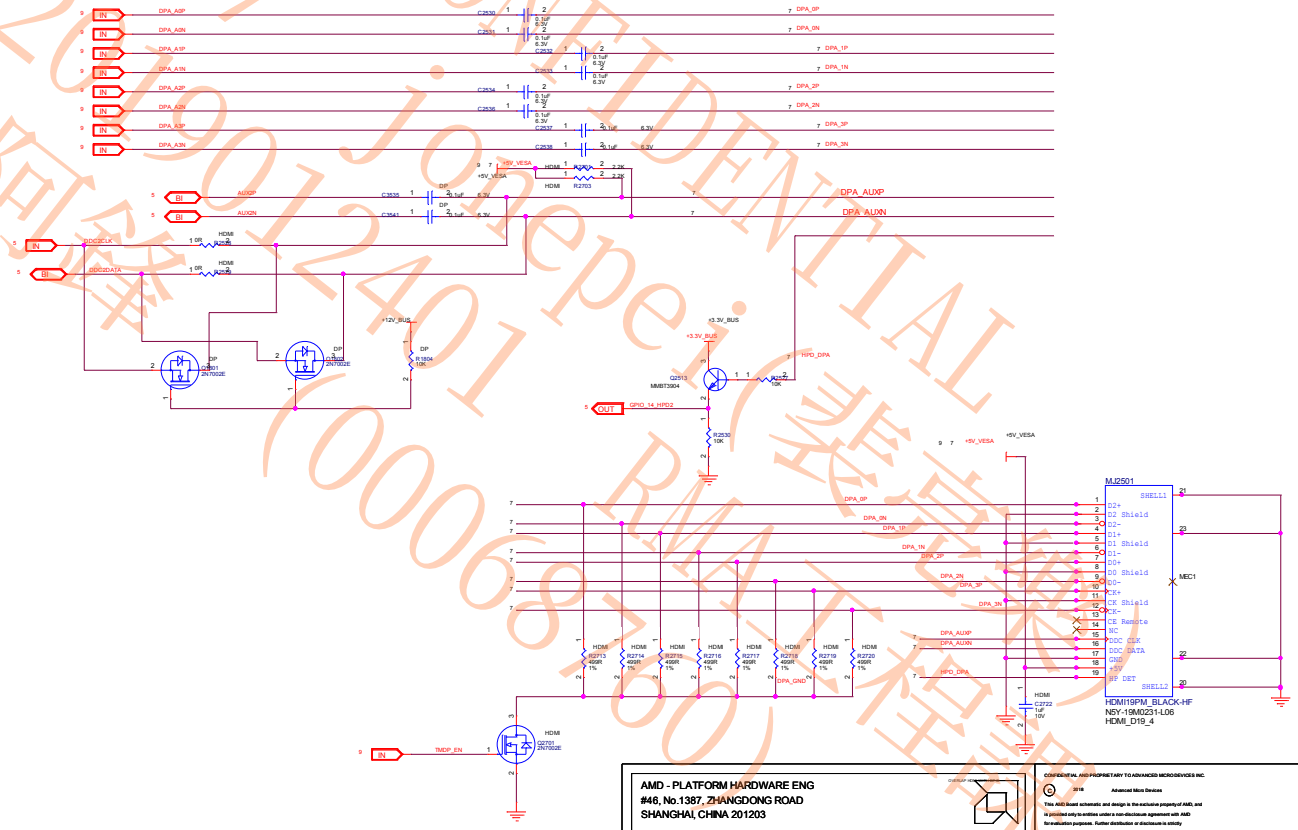

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SHEET:	Oland HDMI/DP
DATE: Thu Jan 05 05:41:56 2017	REV: P00
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DOCUMENT NUMBER: 105_d12900_00A	

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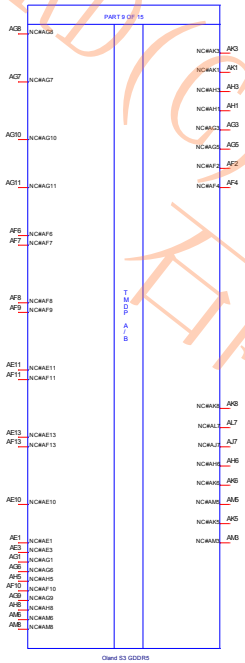
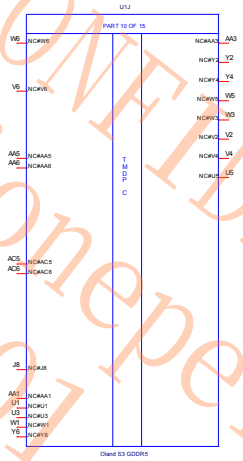
石阿鑫 joepei(裴清泉)
RMA工程师(00068180)





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石阿鋒 (00068760)

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SHEET: Oland Unused Modules

DATE: Wed Aug 29 03:24:48 2018 REV: P00

SHEET NUMBER: 8 OF 20

DOCUMENT NUMBER: 105_d12900_00A

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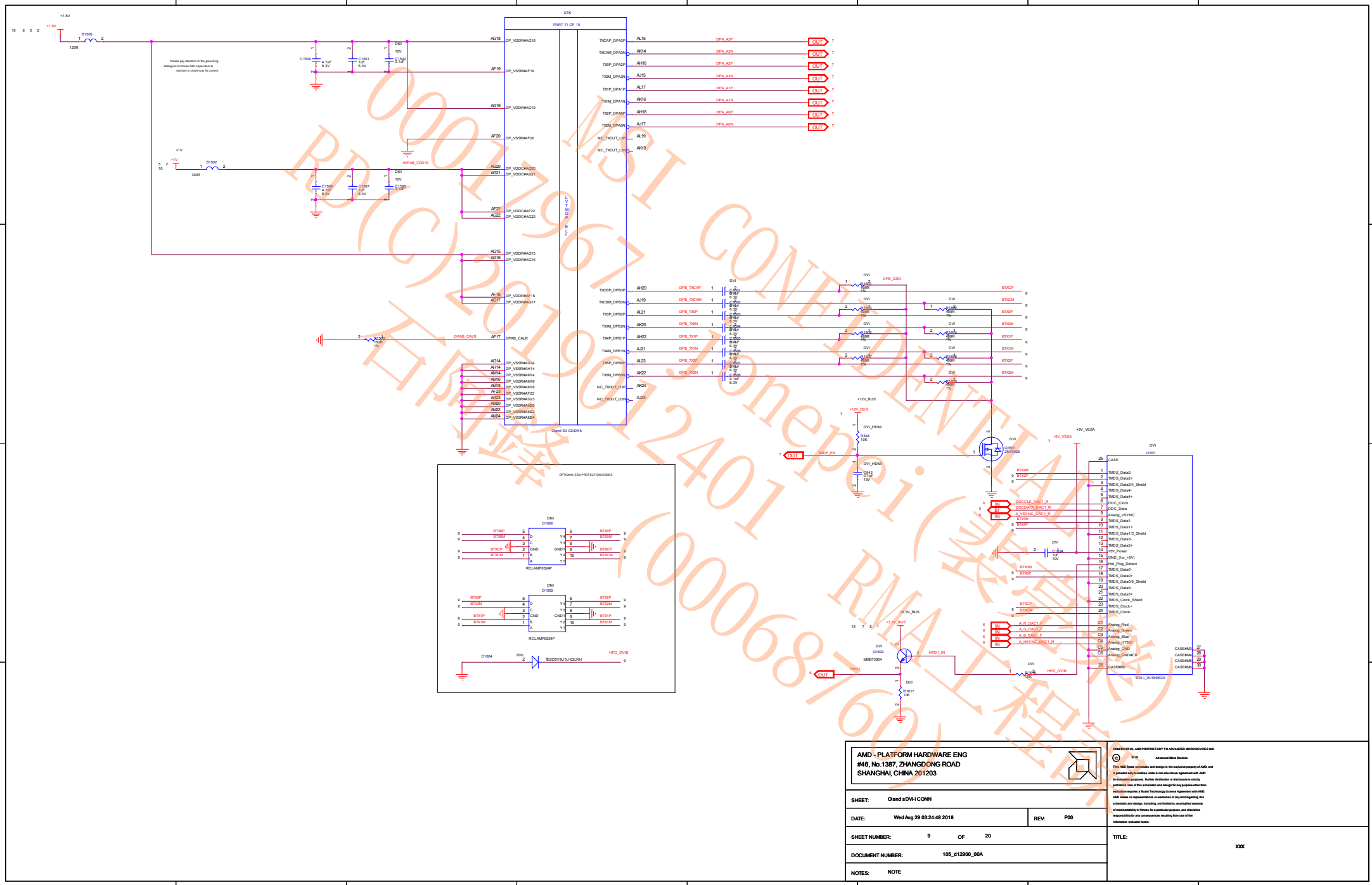

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RMA工程部
(0006876)

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SHEET:	Oland sDVI-I CONN
DATE:	Wed Aug 29 03:24:48 2018
REV:	P00
SHEET NUMBER:	9 OF 20
DOCUMENT NUMBER:	105_d12900_00A
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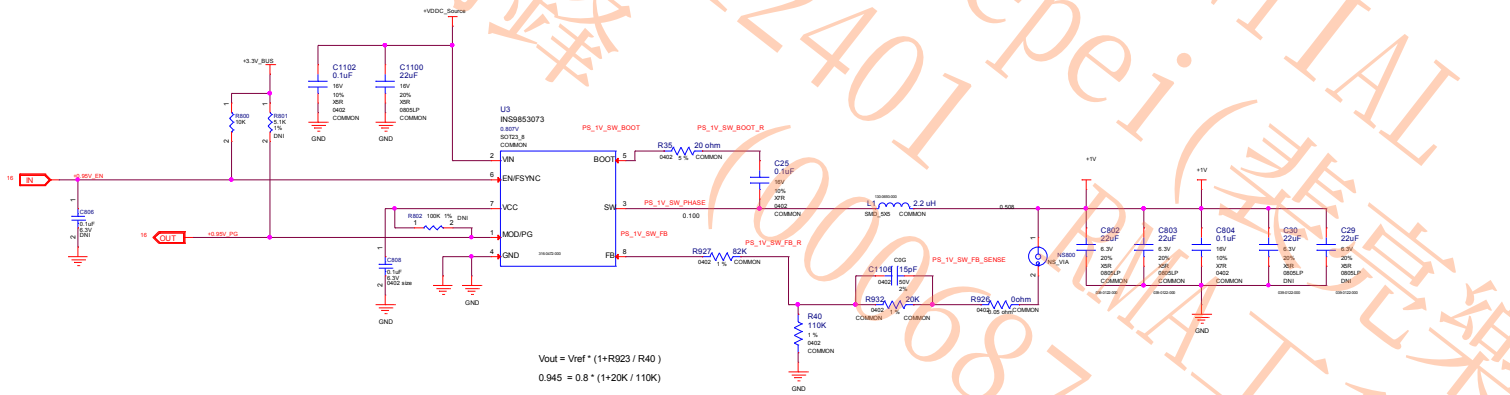
TITLE: XXX

LDO #1: Vin = +1.5V +/-2% Vout = +0.95V +/- 2%; Iout = 1.44A (TBV) RMS MAX

PCB: 50 to 70mm sq. copper area for cooling



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RD(C)20190124 01 (0006 8760)
石阿鋒 DIA工程部

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SHEET:	VDDCI
DATE:	Wed Aug 29 03:24:49 2018
REV:	P00
SHEET NUMBER:	11 OF 20
DOCUMENT NUMBER:	105_d12900_00A
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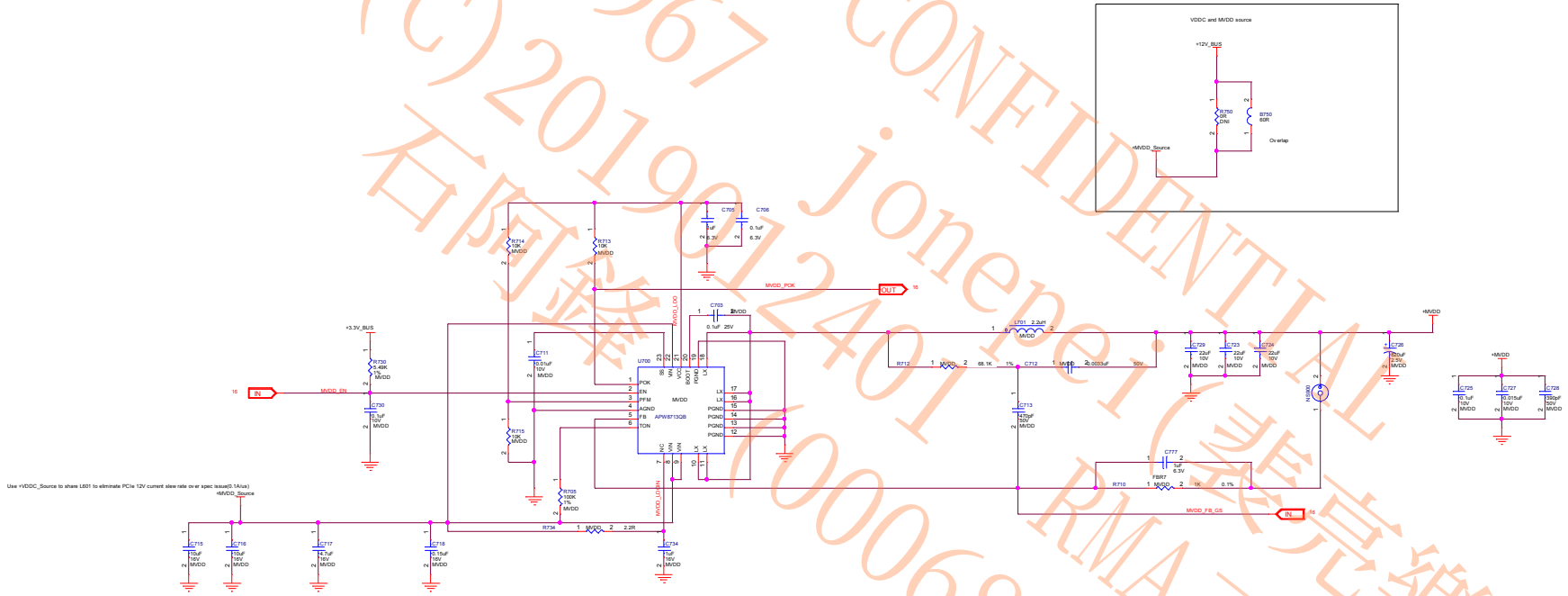
Regulator for MVDD



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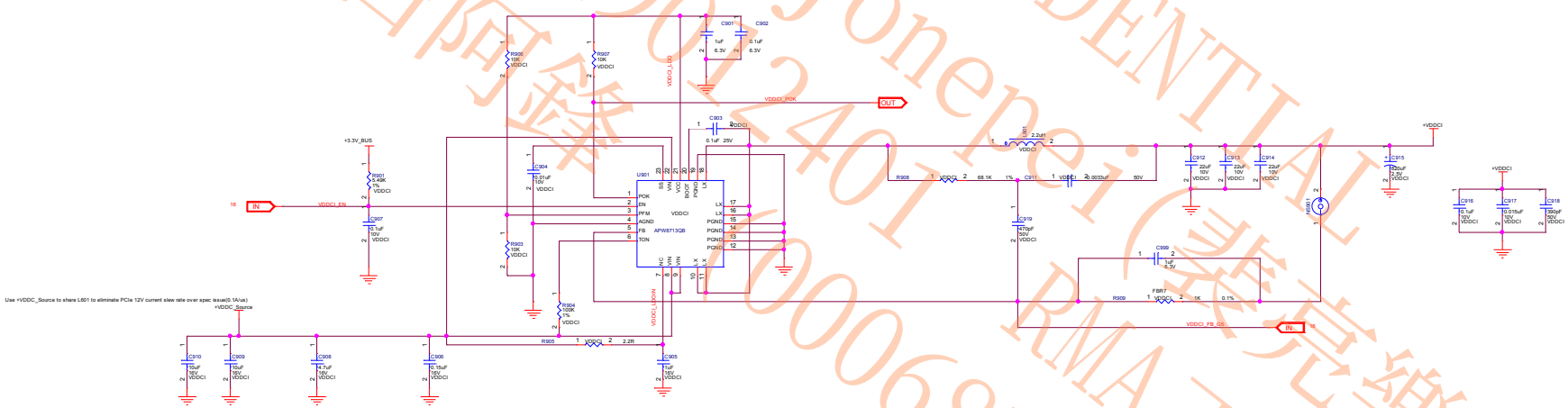
Regulator for MVDD



Use +VDDC_Source to share L601 to eliminate PCIe 12V current slew rate over spec issue(0.1A/us)

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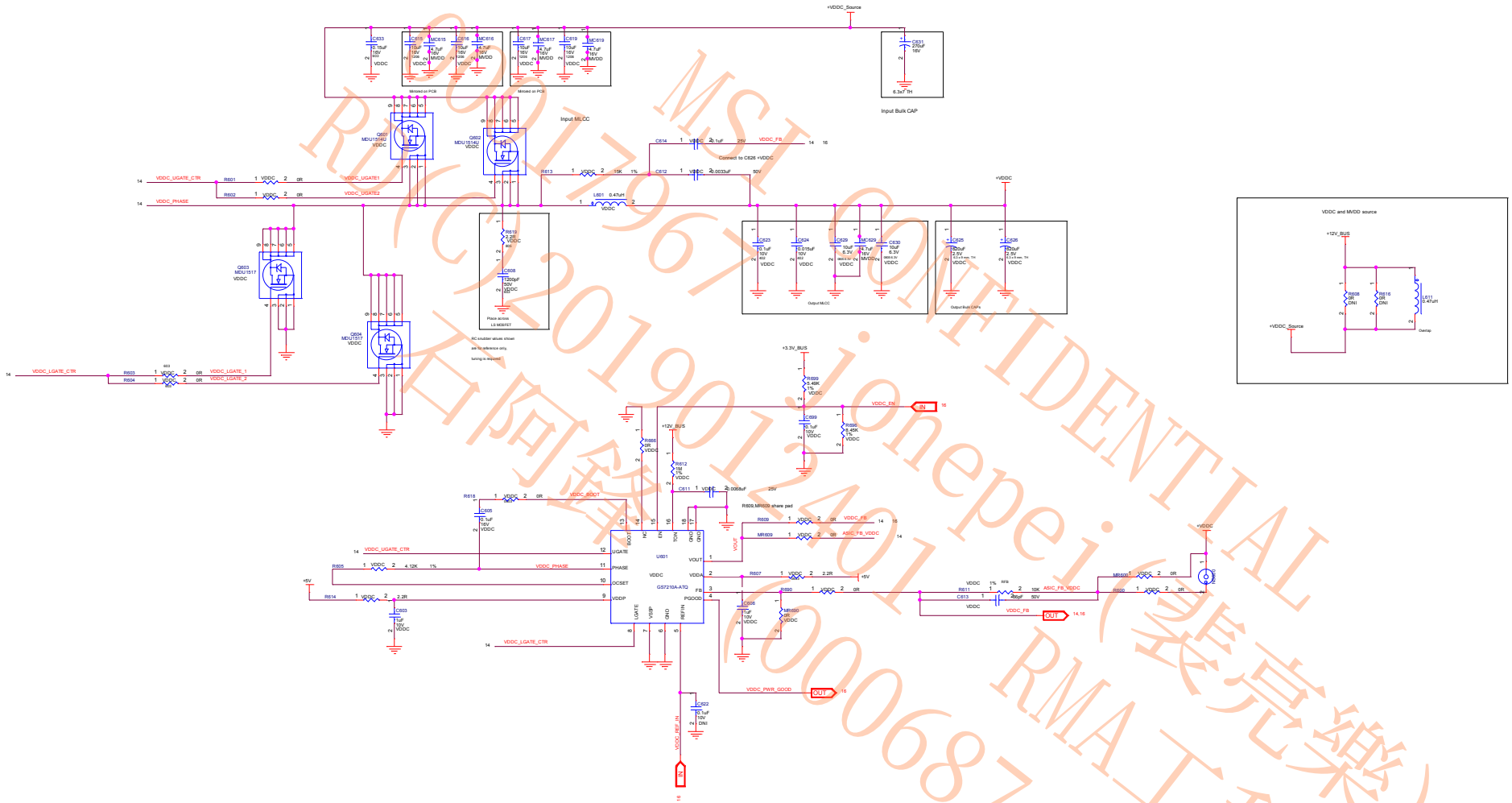

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SHEET:	VDDC
DATE:	Thu Jan 05 05:41:56 2017
REV:	P00
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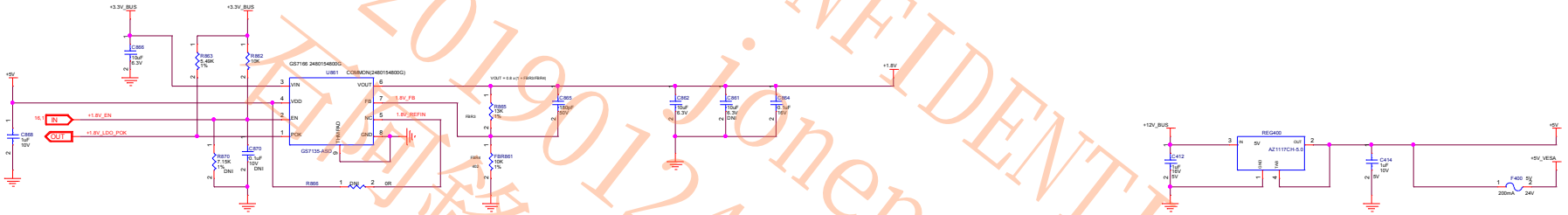
Linear Regulators

LDO #2: 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



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SHEET:	Linear Regulators
DATE:	Thu Jan 05 05:41:58 2017
REV:	P00
SHEET NUMBER:	15 OF 20
DOCUMENT NUMBER:	105_d12900_00A

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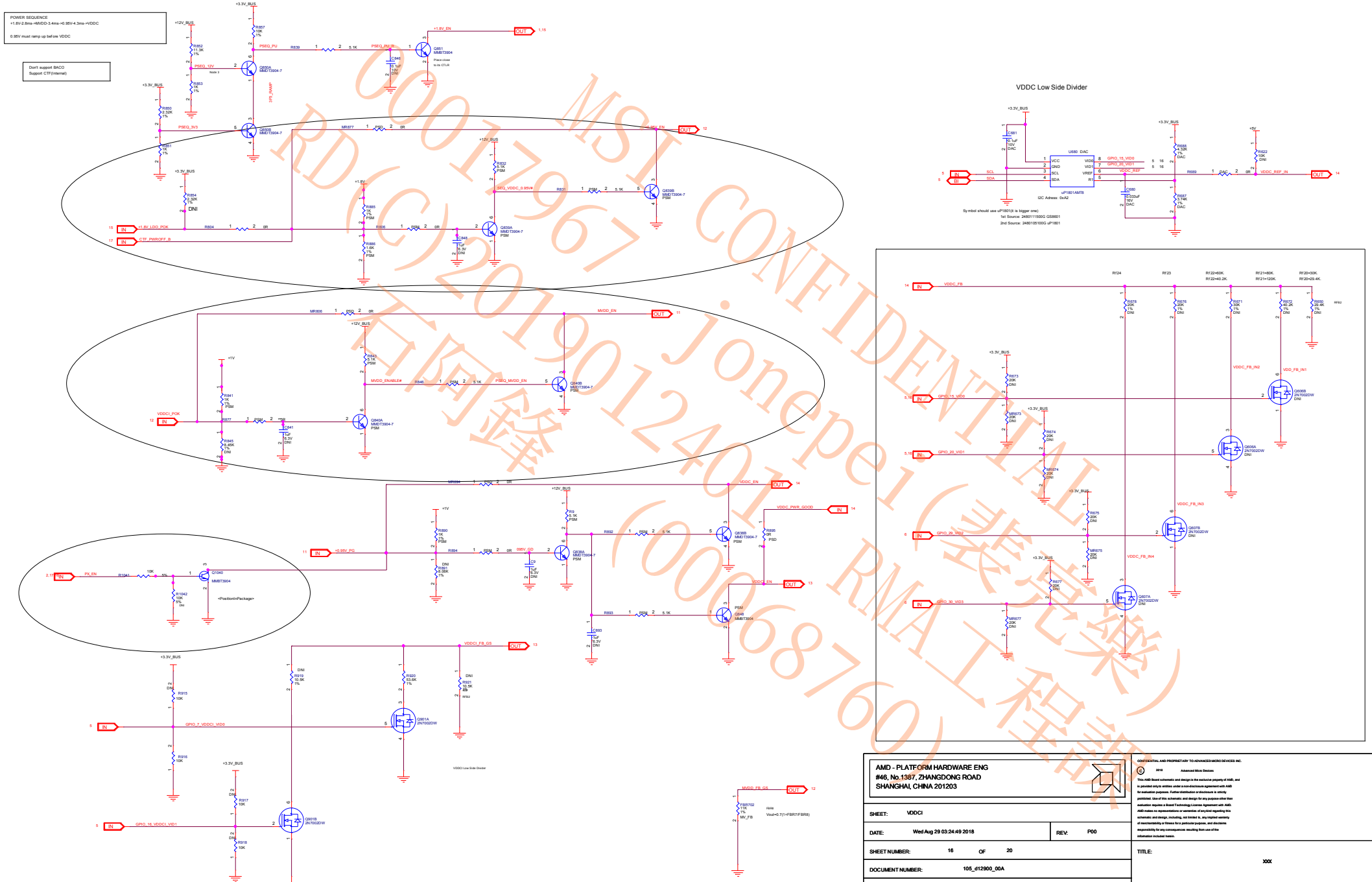
(00068760)

Power Management - Power Gating and Dynamic Voltage Control



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SHEET:	VDDCI
DATE:	Wed Aug 29 03:24:49 2018
REV:	P00
SHEET NUMBER:	16 OF 20
DOCUMENT NUMBER:	105_d12900_00A
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TITLE: XXX

Install R4800	GPIO26 is 0: Fan stop GPIO26 is PWM: Fan running
Install R4810/Q4801/R4819	GPIO26 is 1: Fan stop GPIO26 is PWM: Fan running

Fan Control

Mechanical and Thermal Management

Critial Temperature Fault

Critial Temperature Fault

Bracket, VGA, HDMI, DVI	8G0005520XG
Bracket, VGA, DP(tab), DVI	8G0005520AG
Bracket, LP, DP(tab), DVI	8G0005530XG
Bracket, LP, HDMI, DVI	8G0005530AG

33W FANSINK 71204812000G

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SHEET: VDDCI	
DATE: Wed Aug 29 03:24:49 2018	REV: P00
SHEET NUMBER: 17 OF 20	
DOCUMENT NUMBER: 105_4P0000_00A	
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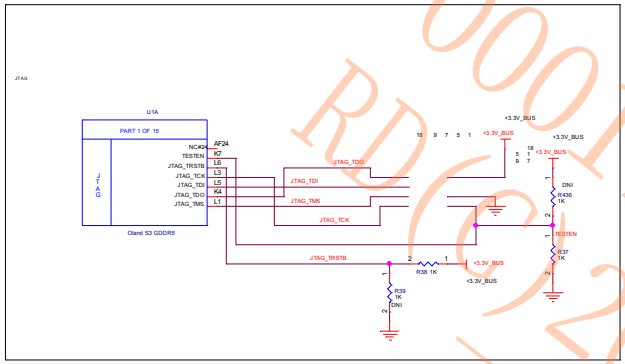
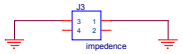
(19) Debug Circuits

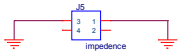


TOP
Single end
Memory data
45 ohm +/- 5 ohm
5.12 mils

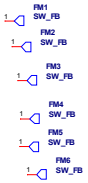
Bottom
Single end
Address trunk
45 ohm +/- 5 ohm
5.12 mils



TOP
Different
TMDS
85 ohm +/- 10 %
4.33 mils / 5.51 mils



Bottom
Different
PEX_PCIE
85 ohm +/- 10 %
4.33 mils / 5.51 mils



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AMD - PLATFORM HARDWARE ENG
#46, No.1387, ZHANGDONG ROAD
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SHEET: Debug

DATE: Thu Jan 05 05:41:58 2017 REV: P00

SHEET NUMBER: 18 OF 20

DOCUMENT NUMBER: 105_d12900_00A

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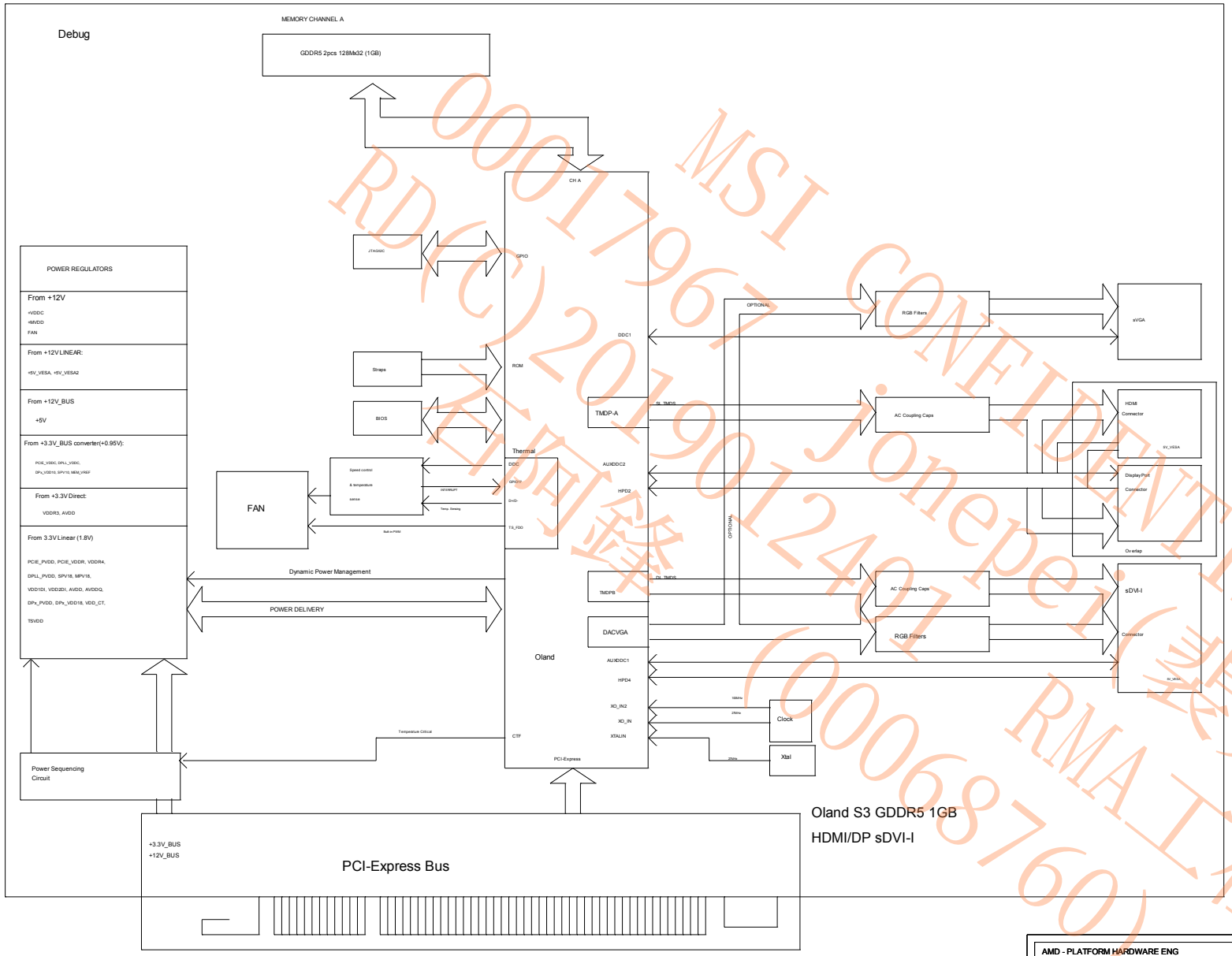
TITLE: XXX



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SHEET:	Diagram
DATE:	Thu Jan 05 05:41:15 2017
REV:	P00
SHEET NUMBER:	19 OF 20
DOCUMENT NUMBER:	105_d12900_00A
TITLE:	XXX

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TITLE	SCHEMATIC NO.	DATE
Oland S3 GDDR5 1GB HDMI/DP+eDVI-I/VGA	105-D129xx-00A	

REVISION HISTORY

NOTE: THIS SCHEMATIC REPRESENTS THE PCB, IT DOES NOT REPRESENT ANY SPECIFIC BAU.
FOR STUFFING OPTIONS, COMPONENT VALUES, ETC PLEASE CONSULT THE PRODUCT SPECIFIC BOM.
PLEASE CONTACT AMD REPRESENTATIVE TO OBTAIN LEATEST BOM SUBMITTED TO THE APPLICATION DESIRED.

REV P00

SCH REV	PCB REV	DATE	REVISION DESCRIPTION
00	00A	2016.11.28	Initial Oland D129 schematic, based on C241XX-00A

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SHEET:	Histery
DATE:	Thu Jan 05 05:41:18 2017
REV:	P00
SHEET NUMBER:	20 OF 20
DOCUMENT NUMBER:	105_d12900_00A
TITLE:	XXX