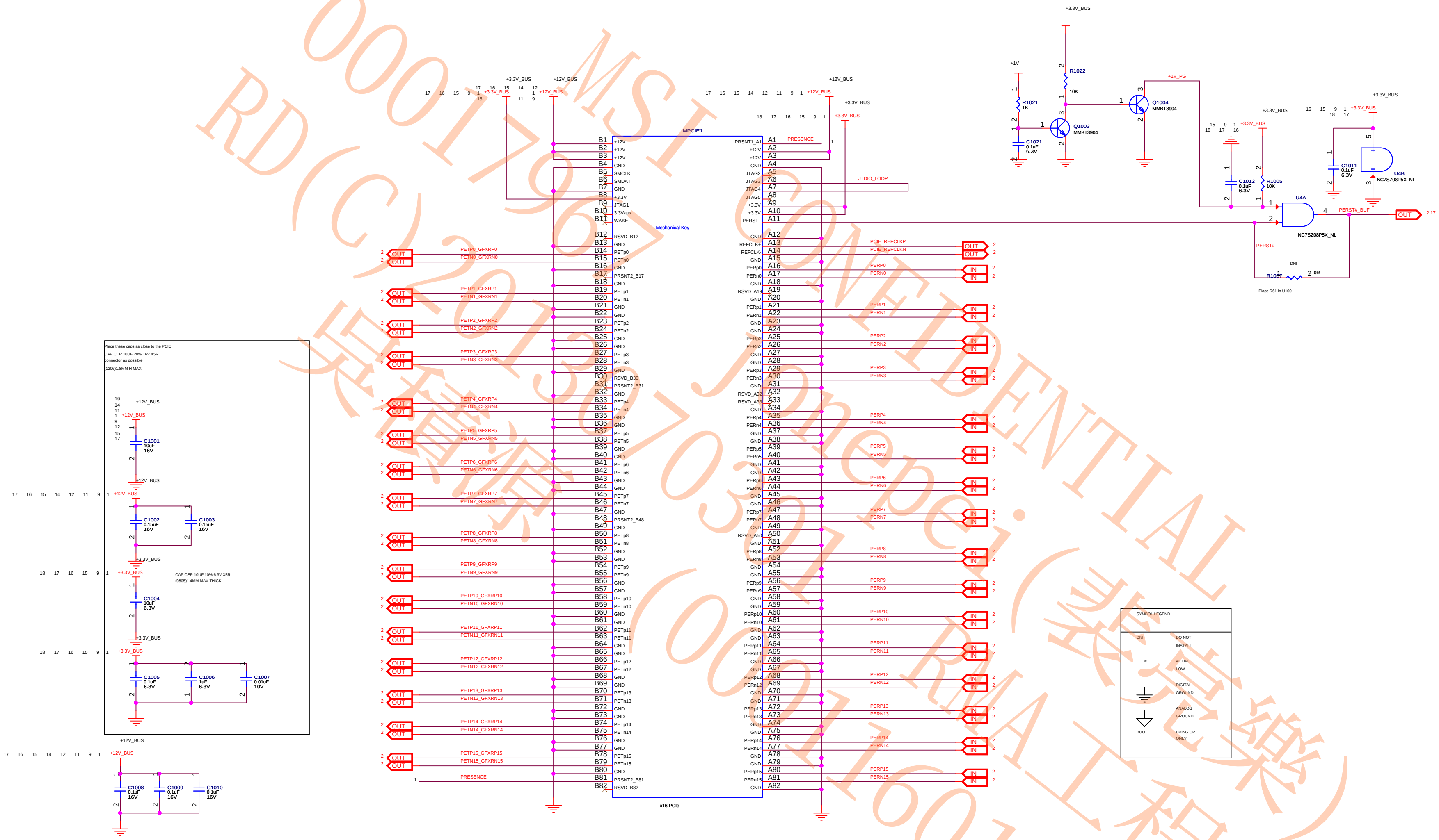
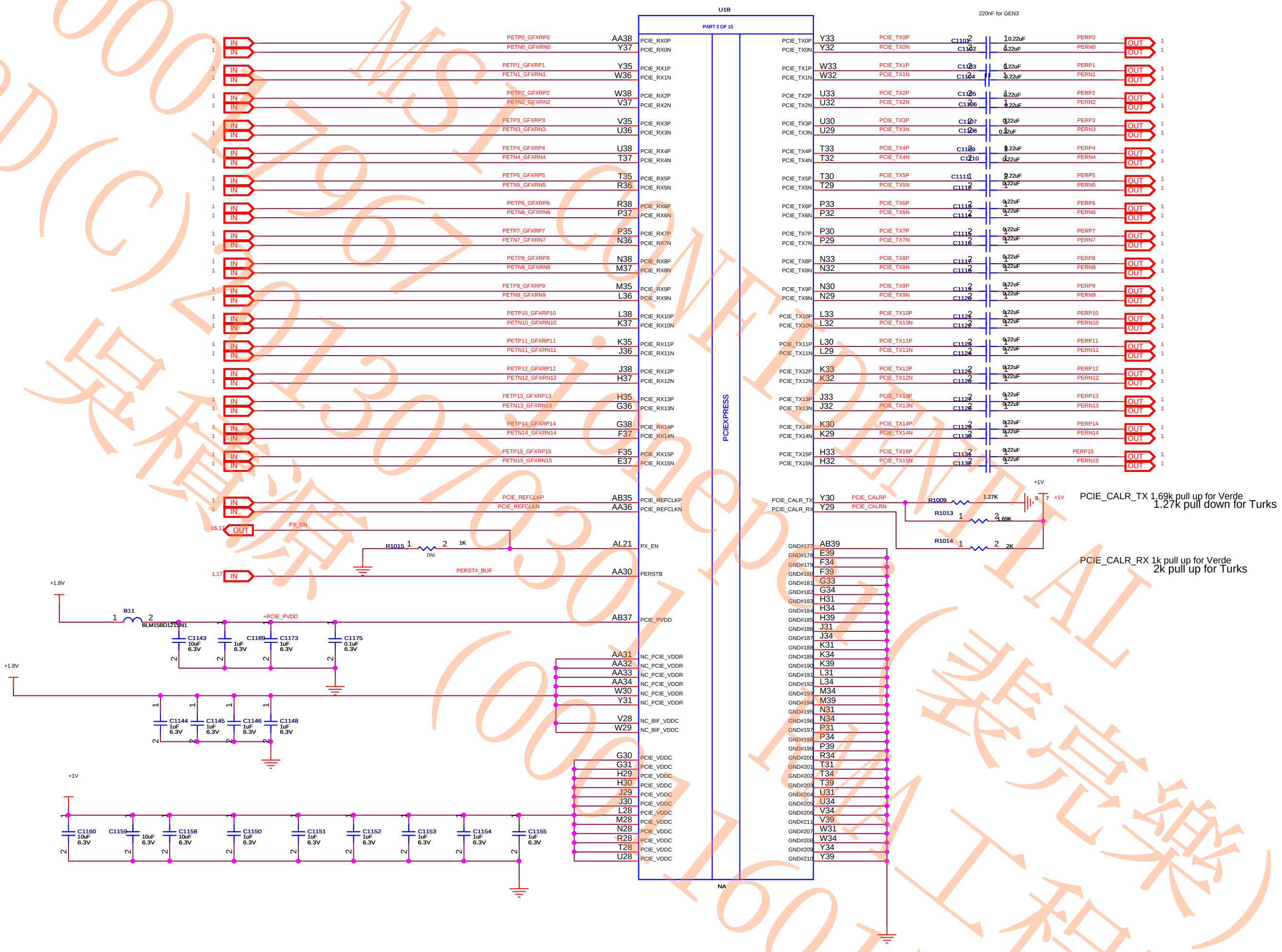
PCI-EXPRESS EDGE CONNECTOR



Title	MS-V271-3.0 (AMD C445->C441)	
Size Custom	Document Number 2011-12-14-01	Rev 01
Date: Friday, February 24, 2012	Sheet 1 of 21	

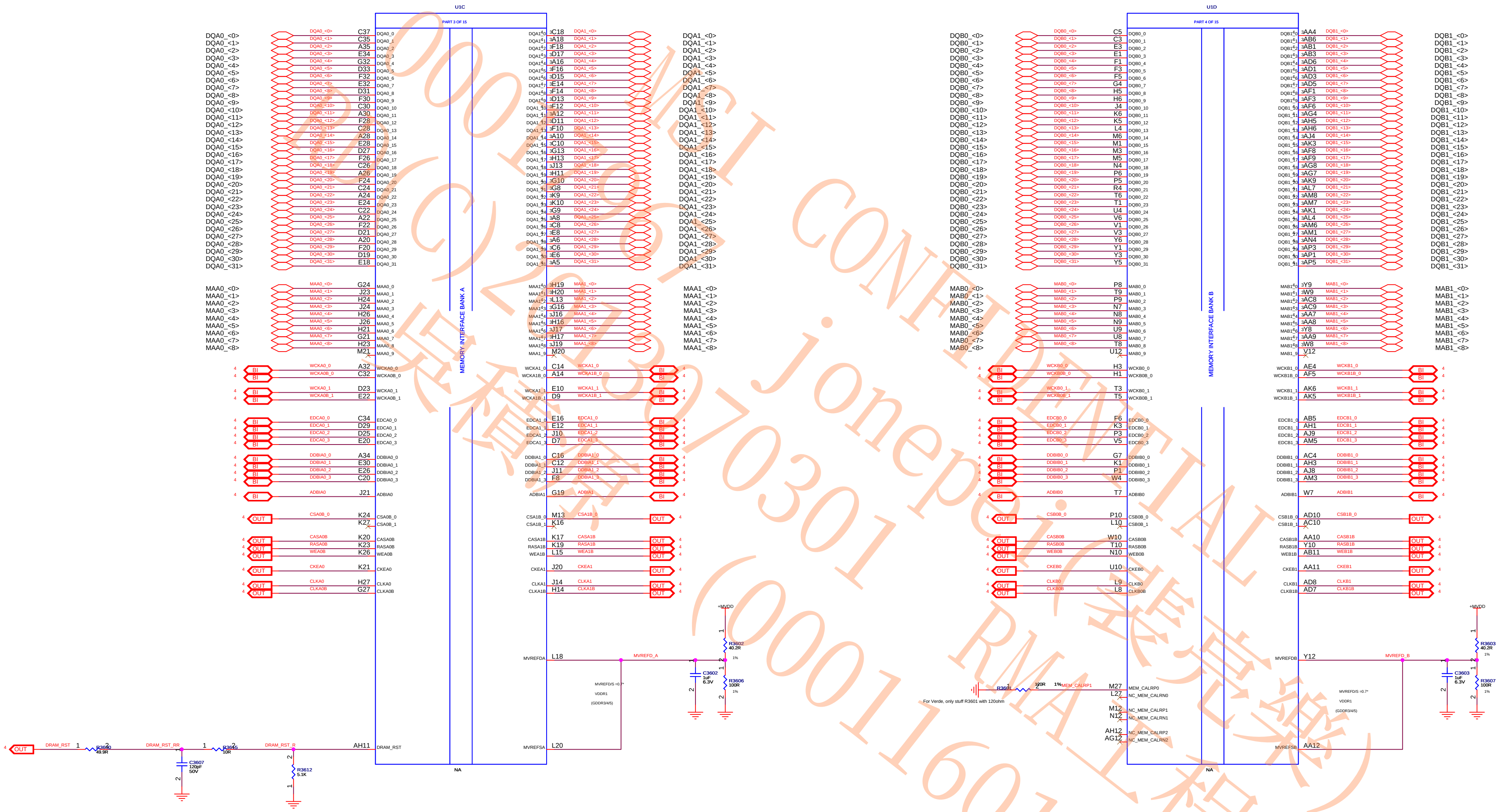
Cape_Verde PCIe Interface

NOTE: Some of the PCIE testpoints will
be available through vias on traces.

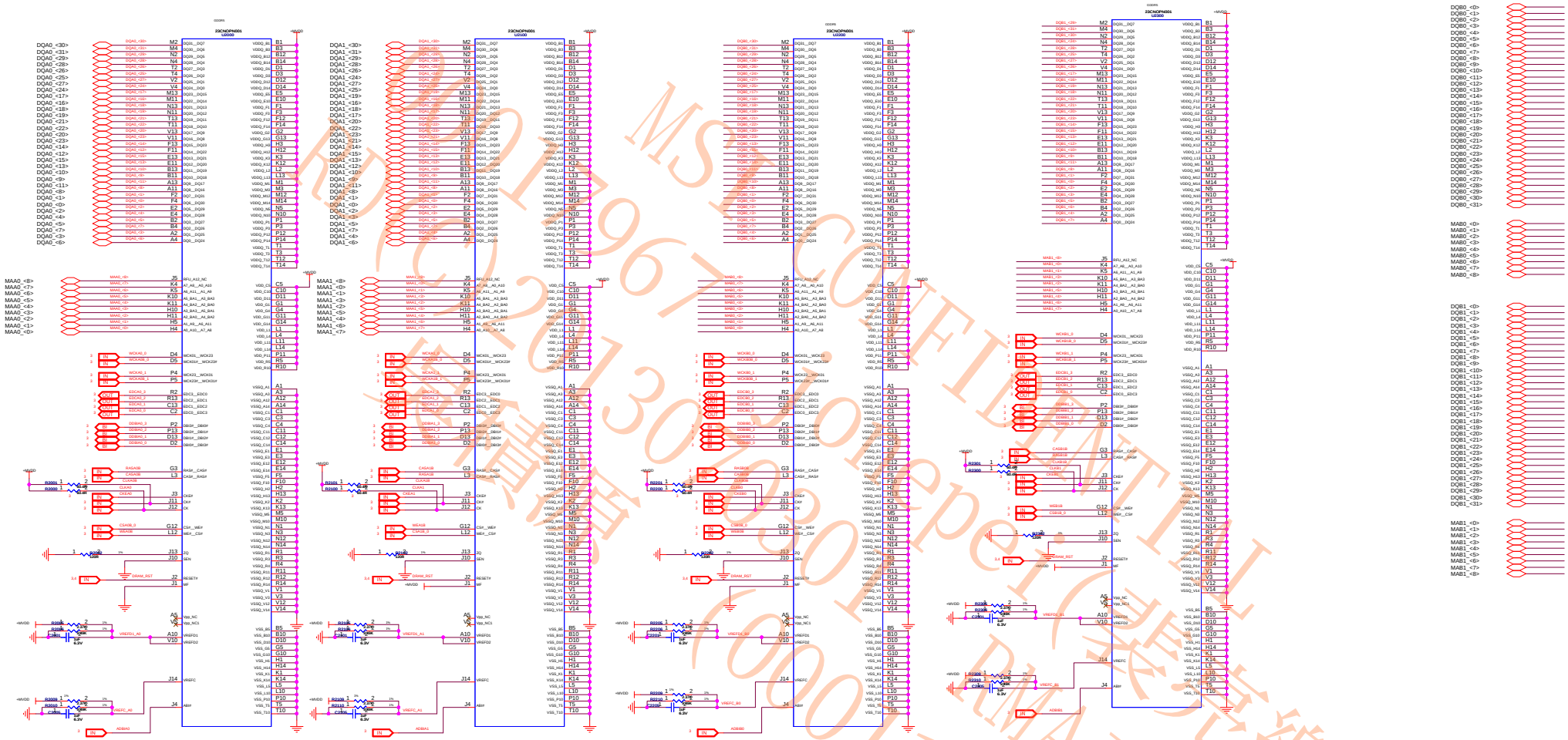


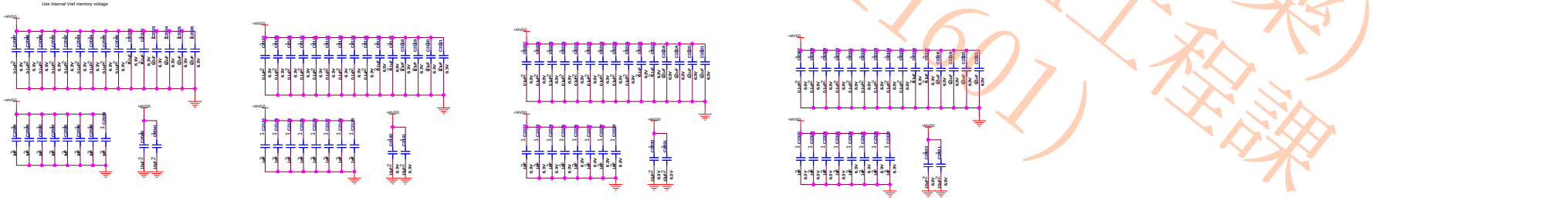
Title	MS-V271-3.0 (AMD C445->C441)	
Size: Custom	Document Number: 2011-12-14-01	Rev: 01
Date: Friday, February 24, 2012	Sheet 2 of 21	

CAPE VERDE MEM Interface Ch A&B



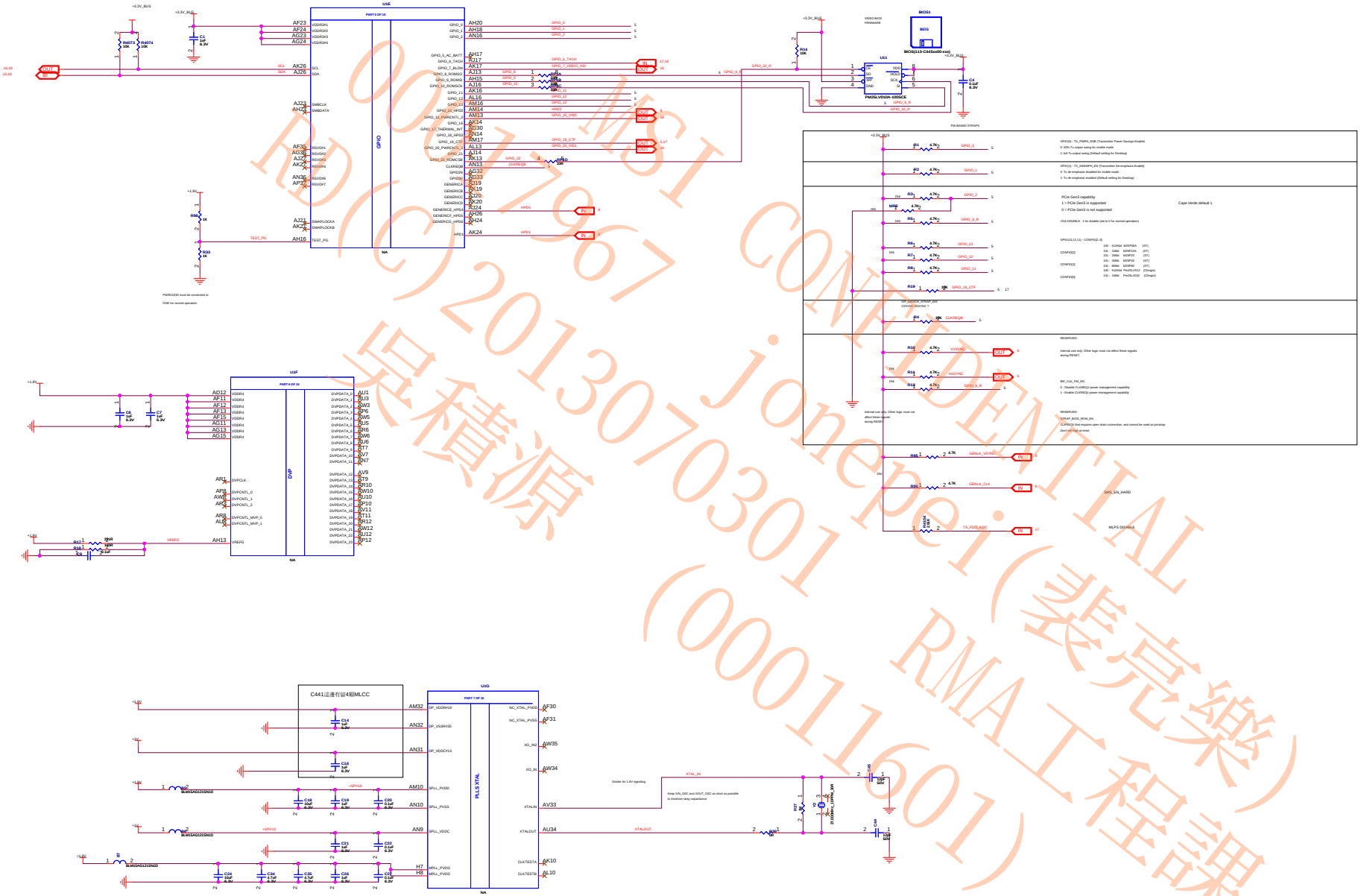
Title	MS-V271-3.0 (AMD C445->C441)	
Size Custom	Document Number 2011-12-14-01	Rev 01
Date: Friday, February 24, 2012	Sheet 3 of 21	



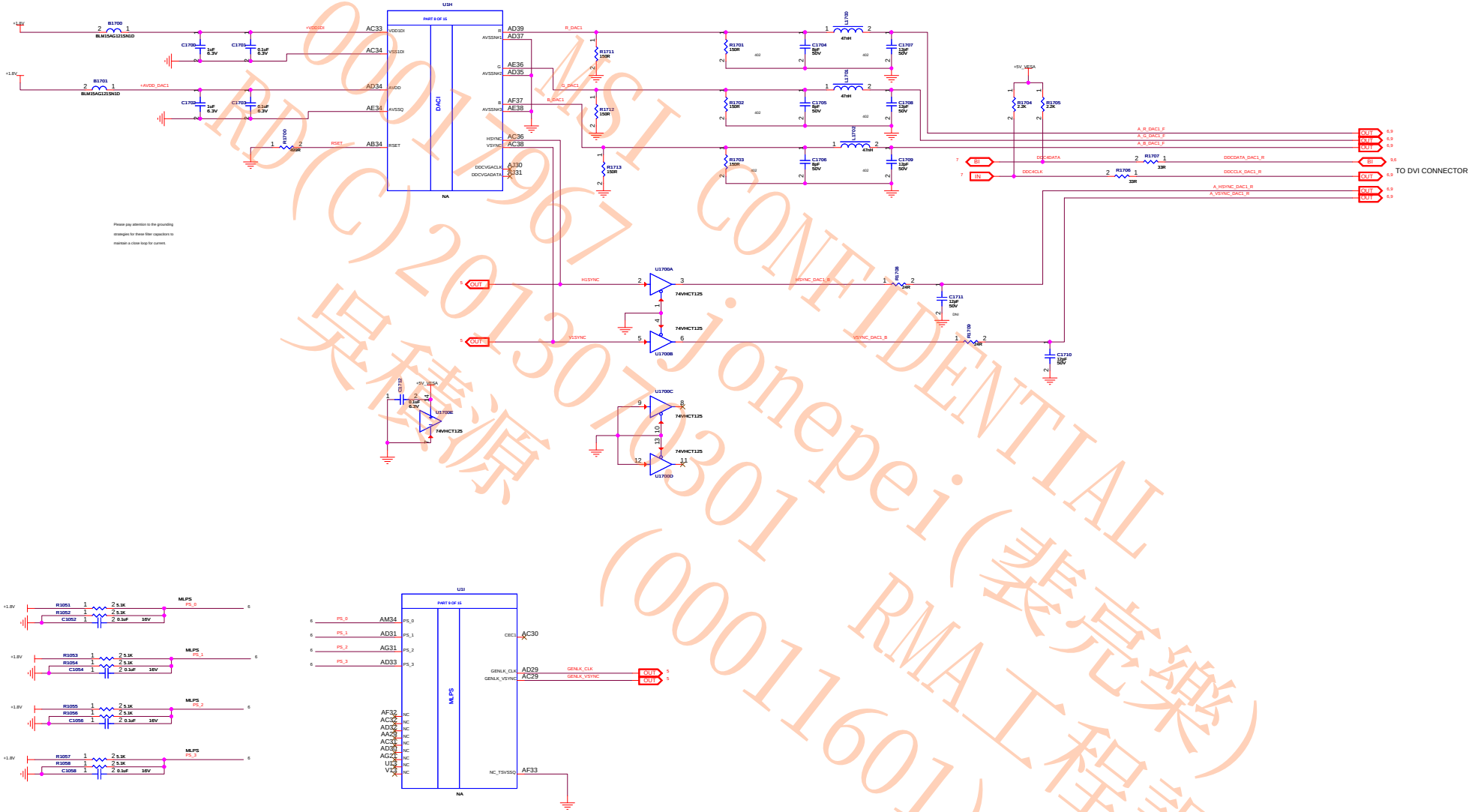


Title	MS-V271-3.0 (AMD C445->C441)		
Size	Document Number Custom2011-12-14-01		Rev 01
Date:	Friday, February 24, 2012	Sheet 4 of 21	

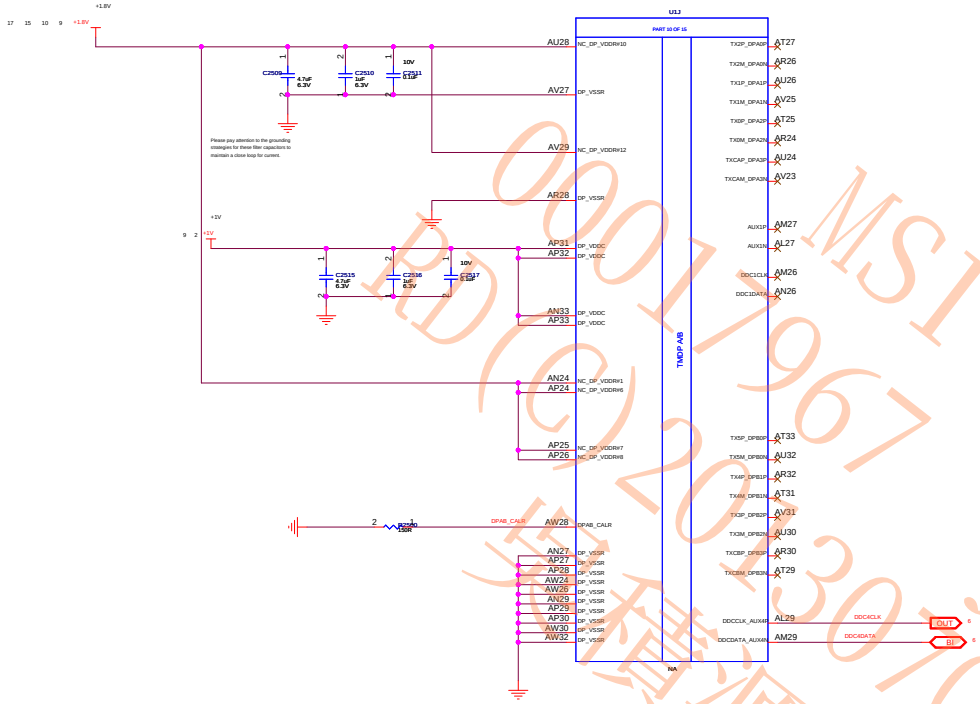
CAPE VERDE GPIOs Strap CF XTAL OSC



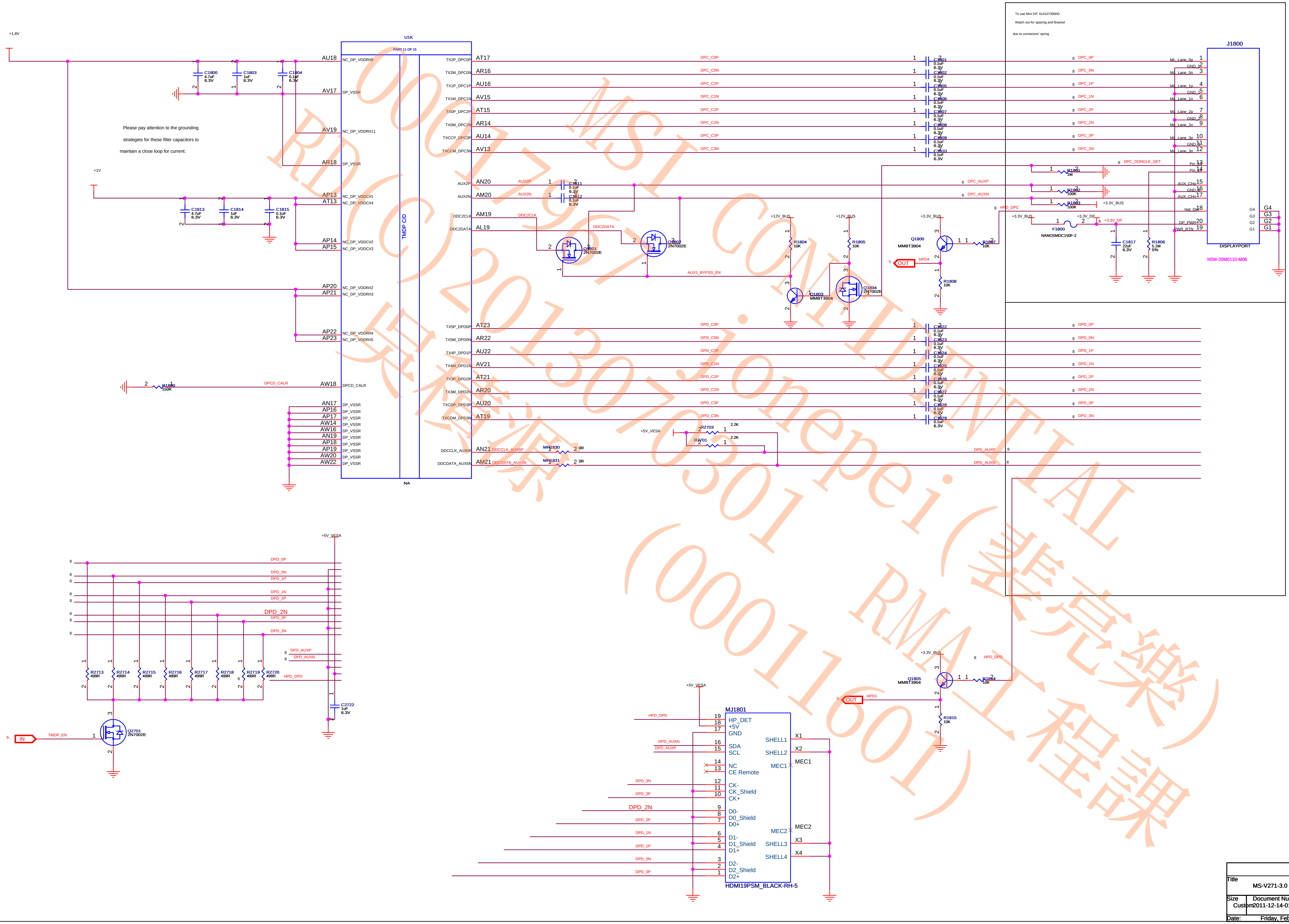
Title	MS-V271-3.0 (AMD C445->C441)		
Size	Document Number Custom2011-12-14-01		Rev 01
Date:	Friday, February 24, 2012	Sheet 5 of 21	



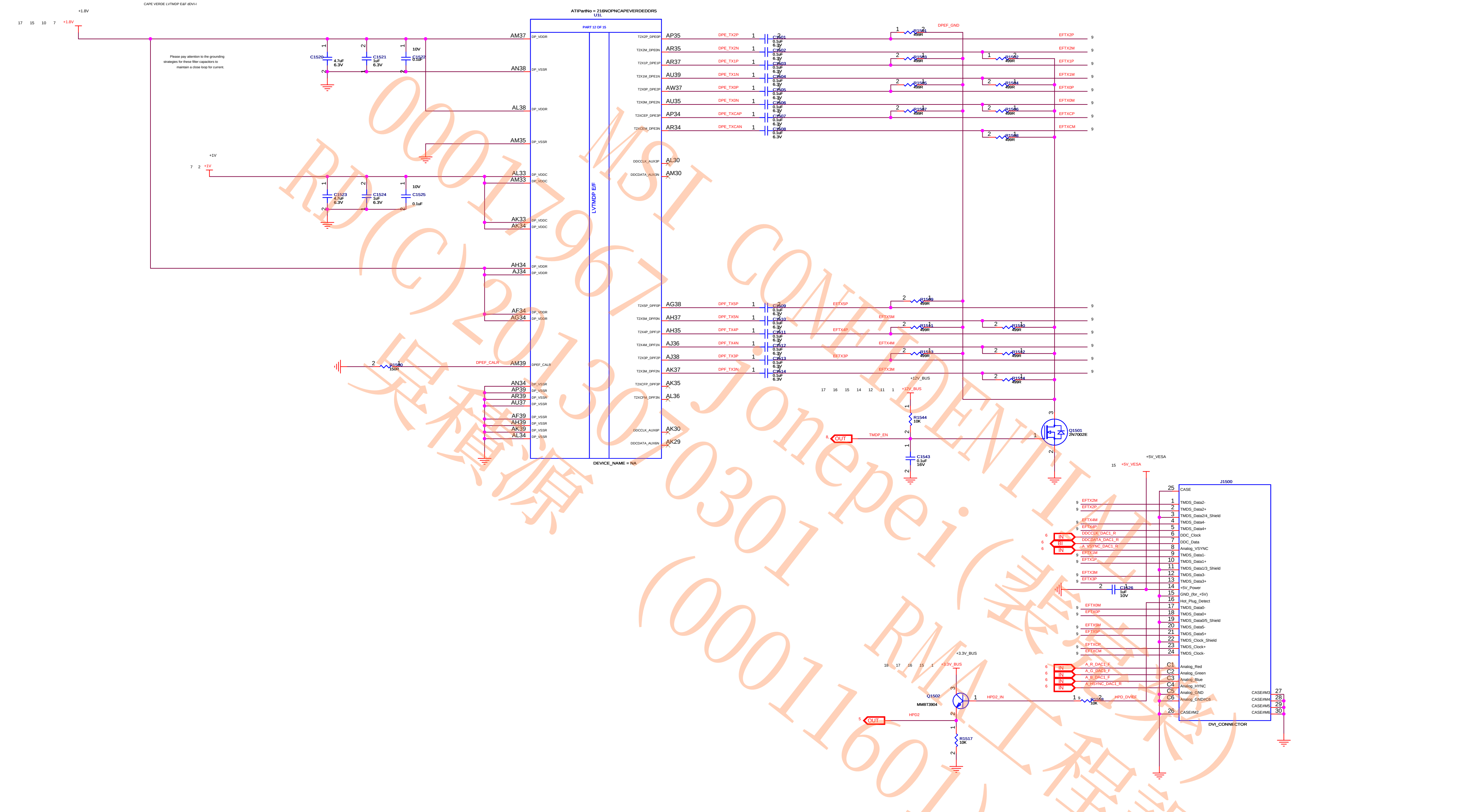
Title	MS-V271-3.0 (AMD C445->C441)		
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 6 of 21		



Title: MS-V271-3.0 (AMD C445->C441)			
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 7 of 21		

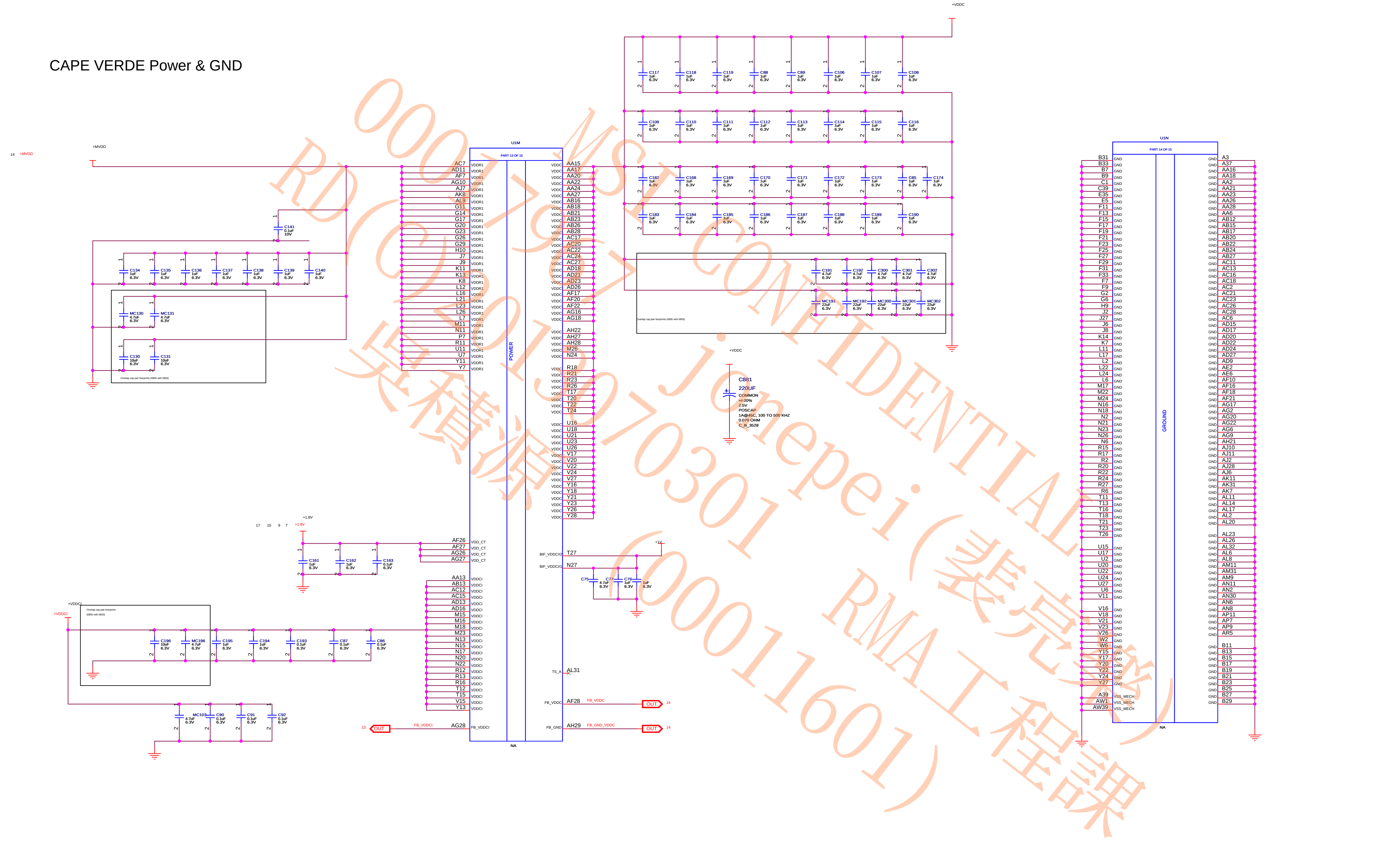


Title	MS-V271-3.0 (AMD C445->C441)
Size Custom	Document Number 2011-12-14-01
Rev	01
Date:	Friday, February 24, 2012
Sheet	8 of 21



Title	MS-V271-3.0 (AMD C445->C441)		
Size	Document Number		Rev
Custom	2011-12-14-01		01
Date:	Friday, February 24, 2012	Sheet 9 of 21	

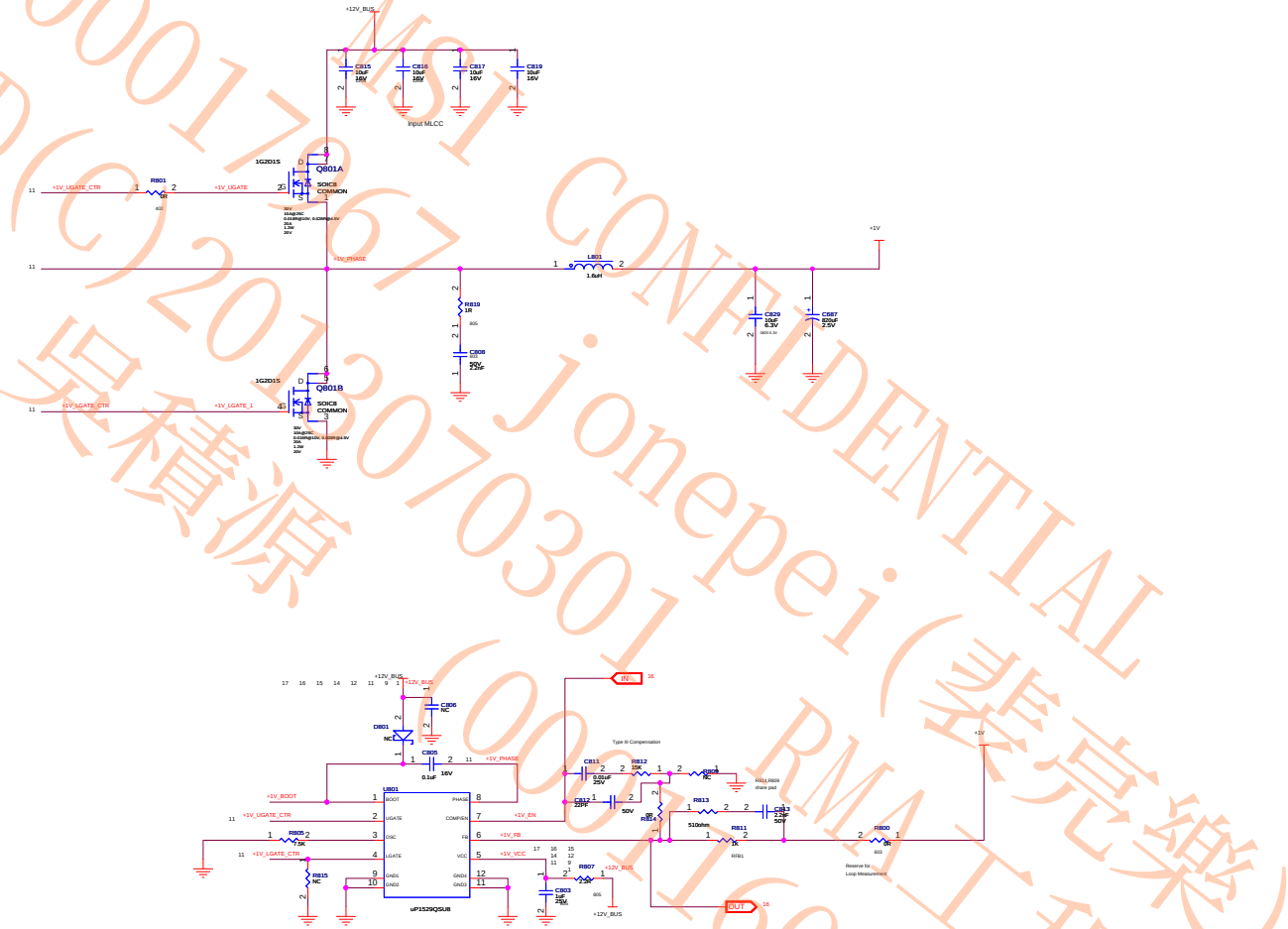
CAPE VERDE Power & GND



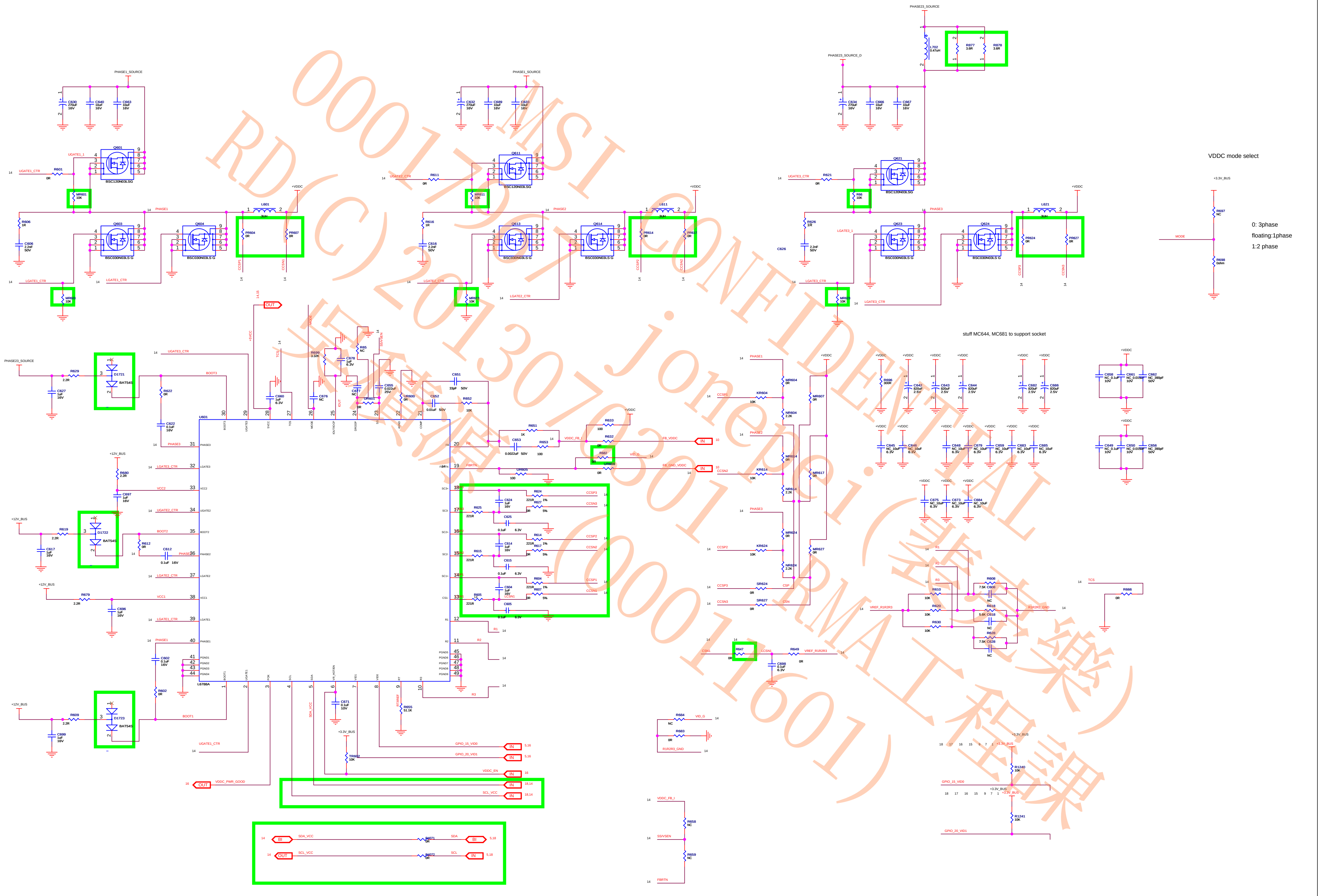
Title
MS-V271-3.0 (AMD C445->C441)

Size	Document Number	Rev
Custom	2011-12-14-01	01

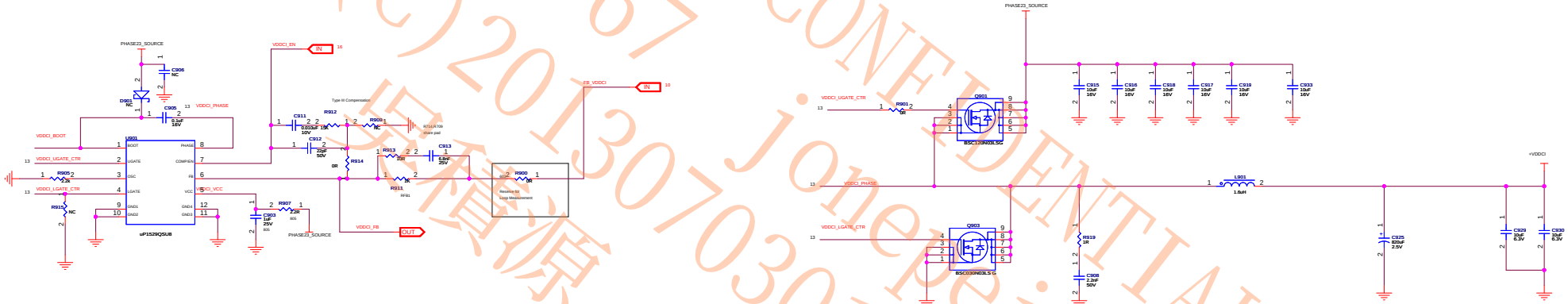
Date: Friday, February 24, 2012 Sheet 10 of 21



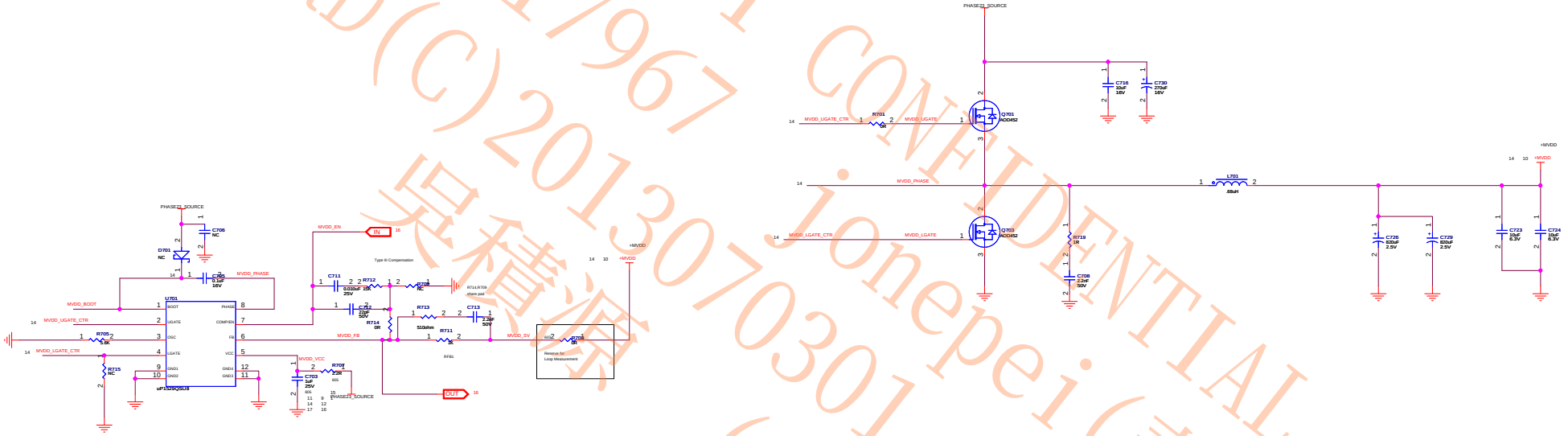
Title	MS-V271-3.0 (AMD C445->C441)		
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 11 of 21		



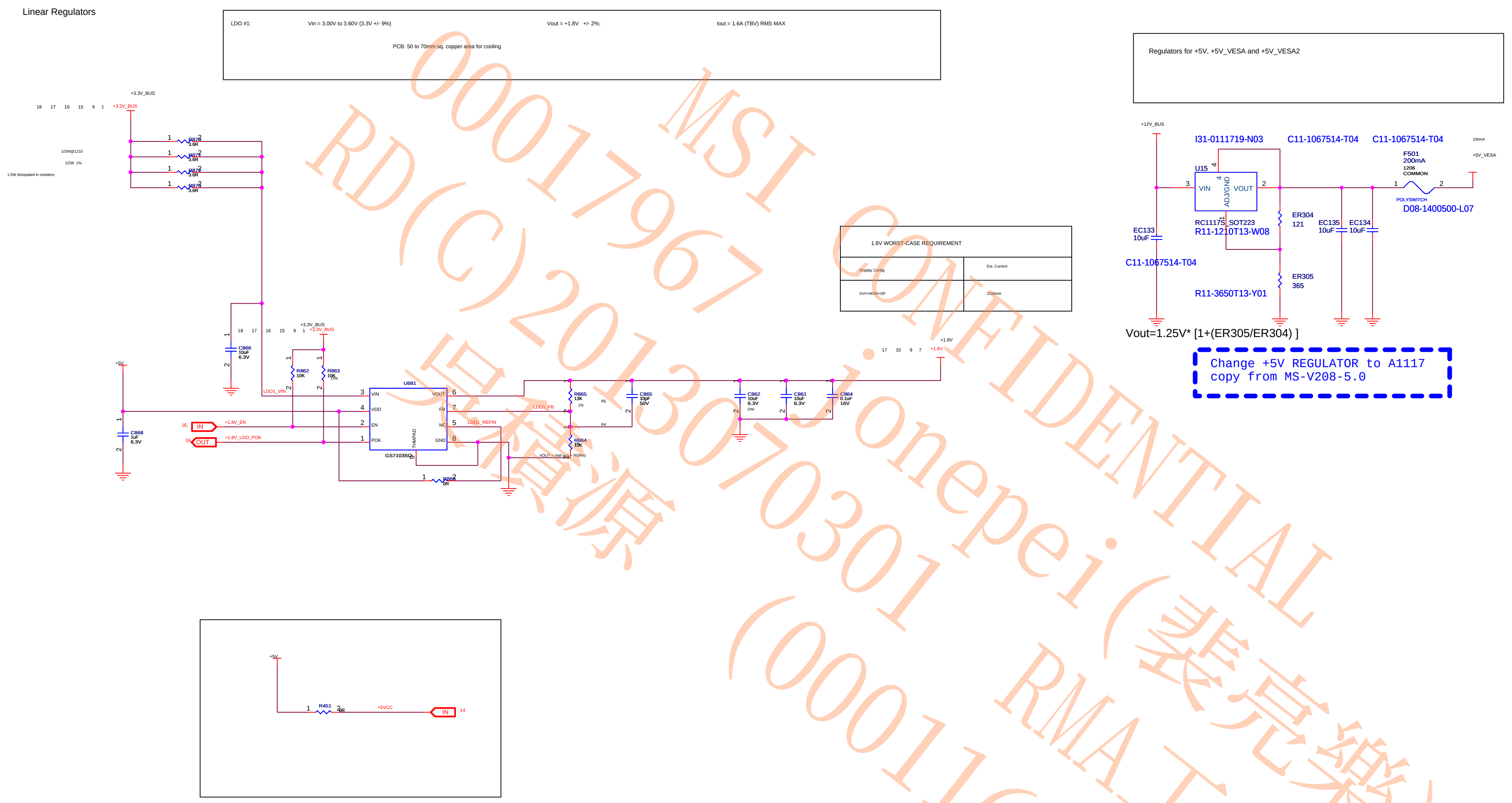
Title	MS-V271-3.0 (AMD C445->C441)	
Size Custom	Document Number 2011-12-14-01	Rev 01
Date: Friday, February 24, 2012	Sheet 12 of 21	



Title	MS-V271-3.0 (AMD C445->C441)		
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 13 of 21		

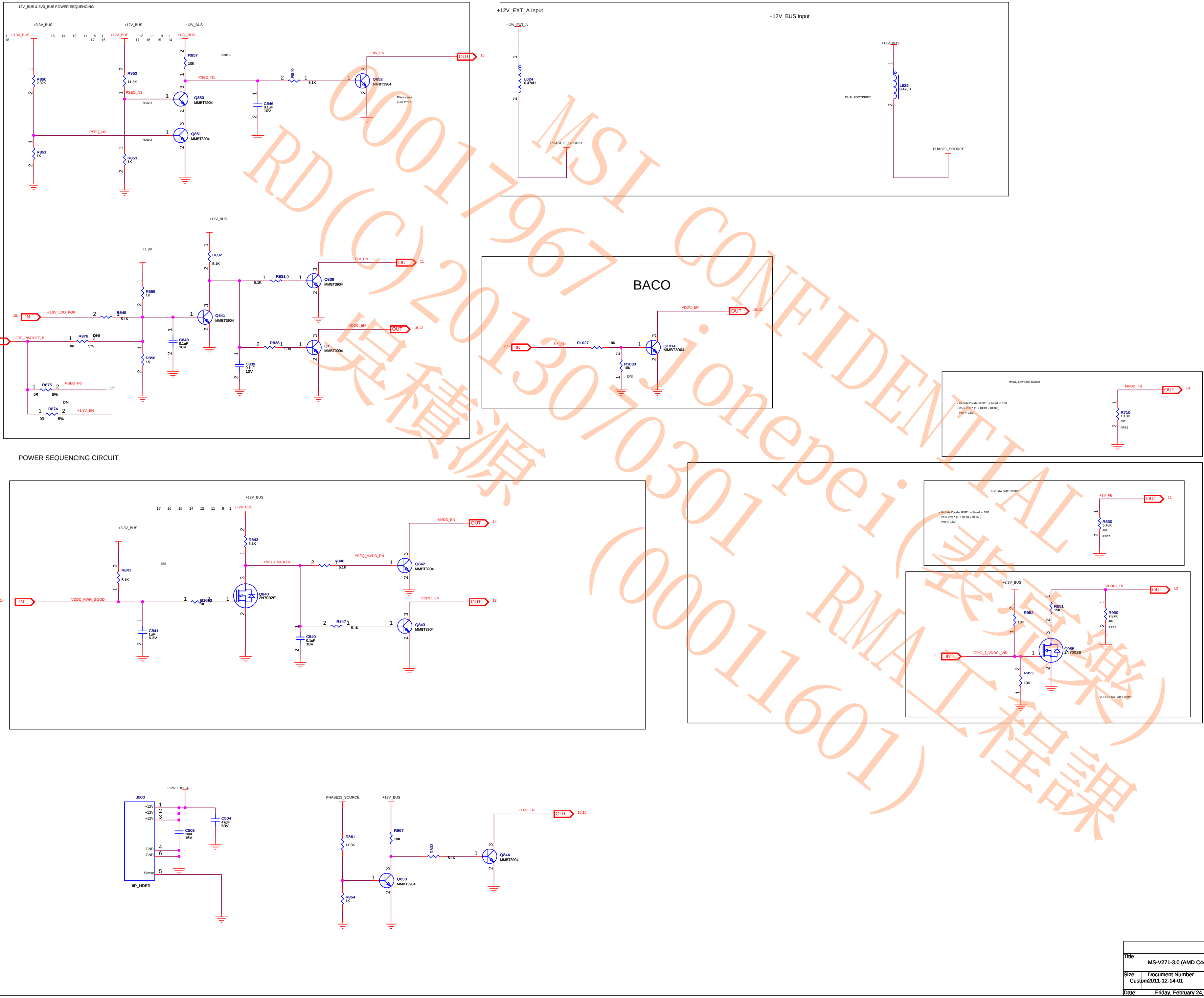


Title	MS-V271-3.0 (AMD C445->C441)		
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 14 of 21		



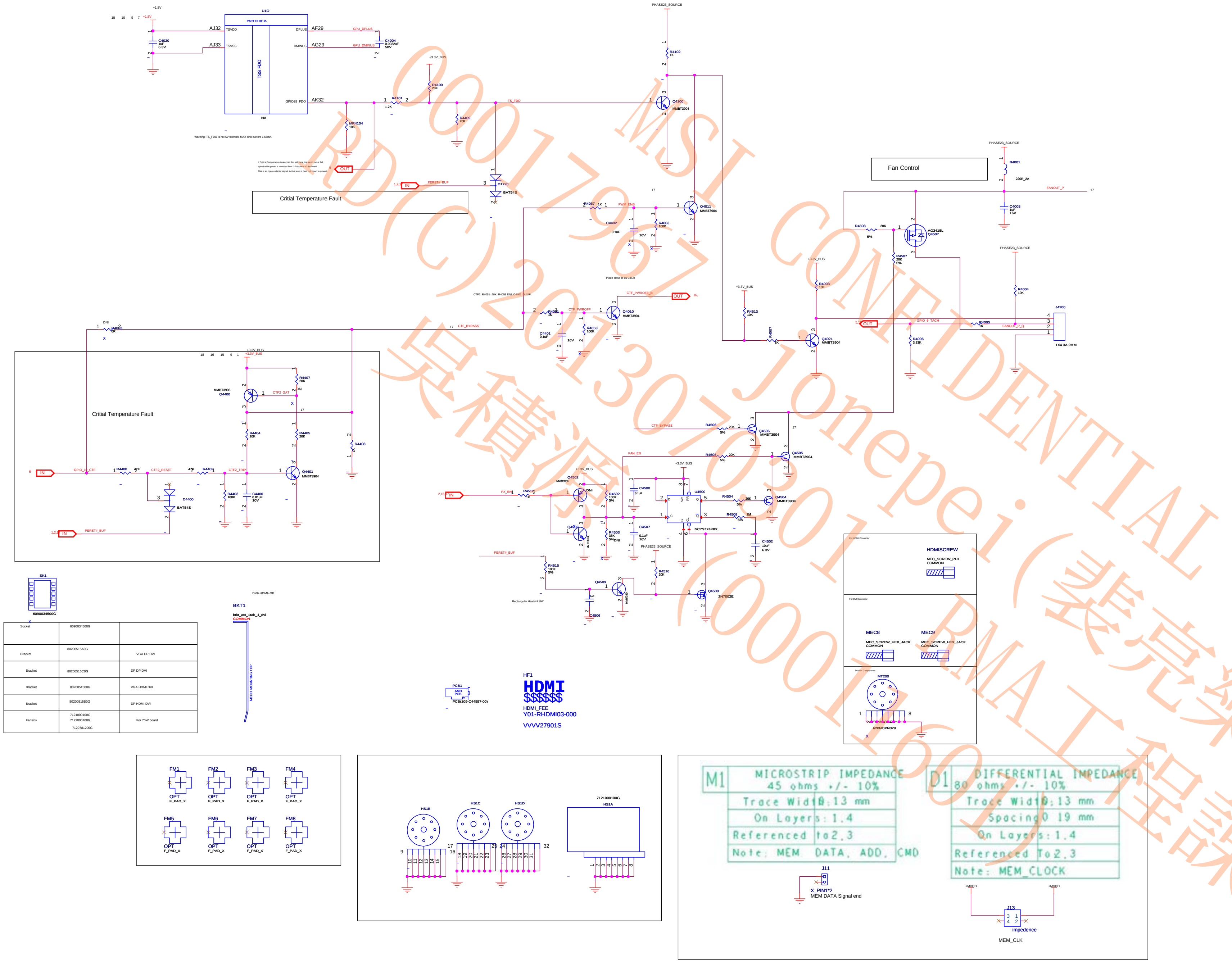
Title	MS-V271-3.0 (AMD C445->C441)
Size Custom	Document Number 2011-12-14-01
Rev	01
Date:	Friday, February 24, 2012
Sheet	15 of 21

Power Management - Power Gating and Dynamic Voltage Control



Title	MS-V271-3.0 (AMD C445->C441)	
Size: Custom	Document Number: 2011-12-14-01	Rev: 01
Date: Friday, February 24, 2012	Sheet 16 of 21	

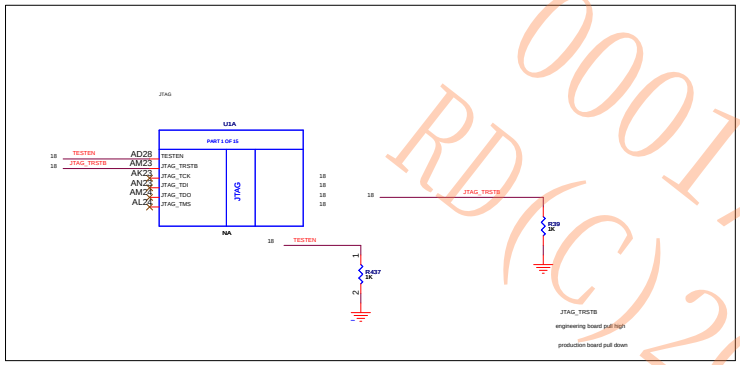
Mechanical and Thermal Management



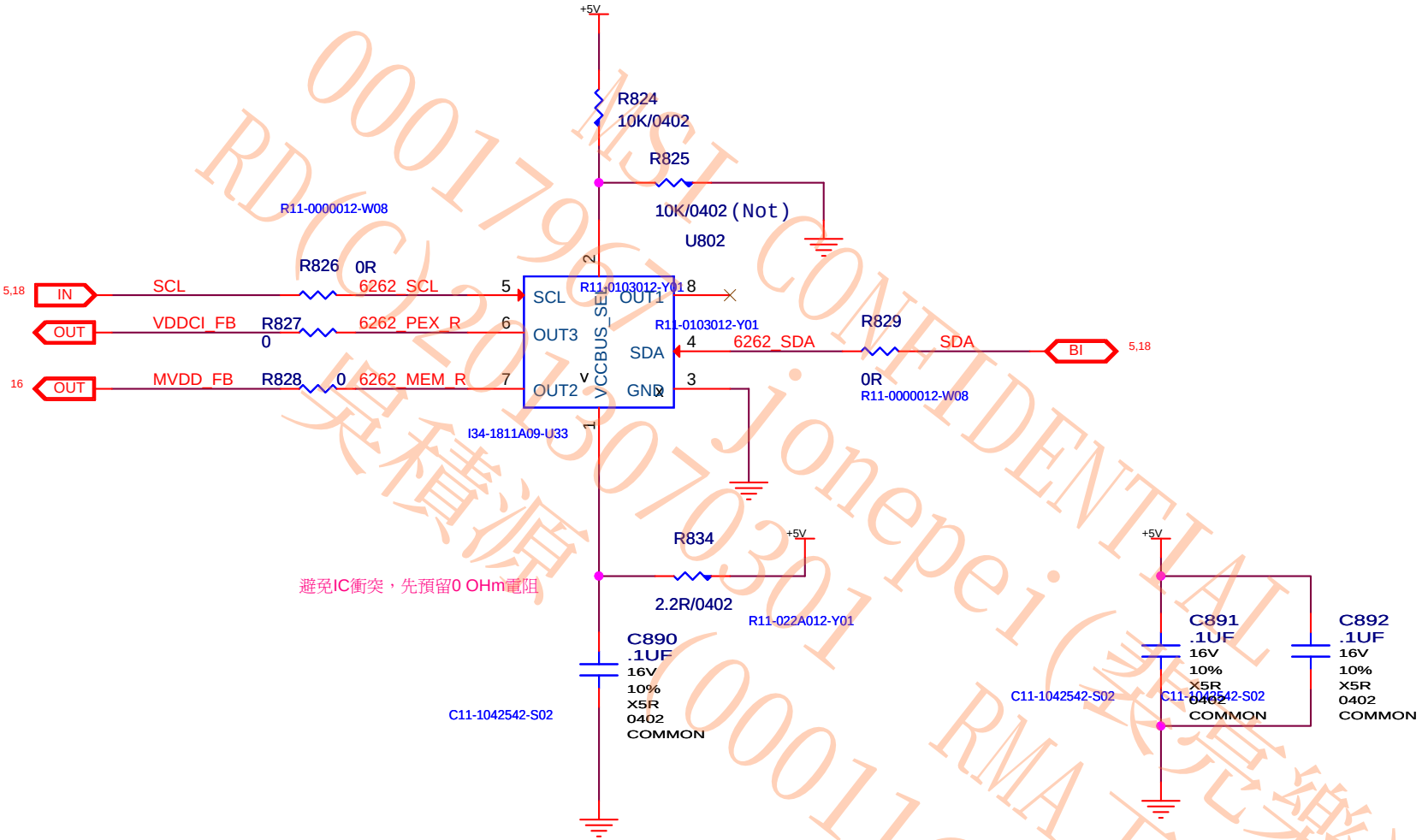
Socket	6090034500G	
Bracket	80200515A0G	VGA DP DVI
Bracket	80200515C0G	DP DP DVI
Bracket	8020051500G	VGA HDMI DVI
Bracket	80200515B0G	DP HDMI DVI
Fansink	7121000100G 7122000100G 7120781200G	For 75W board

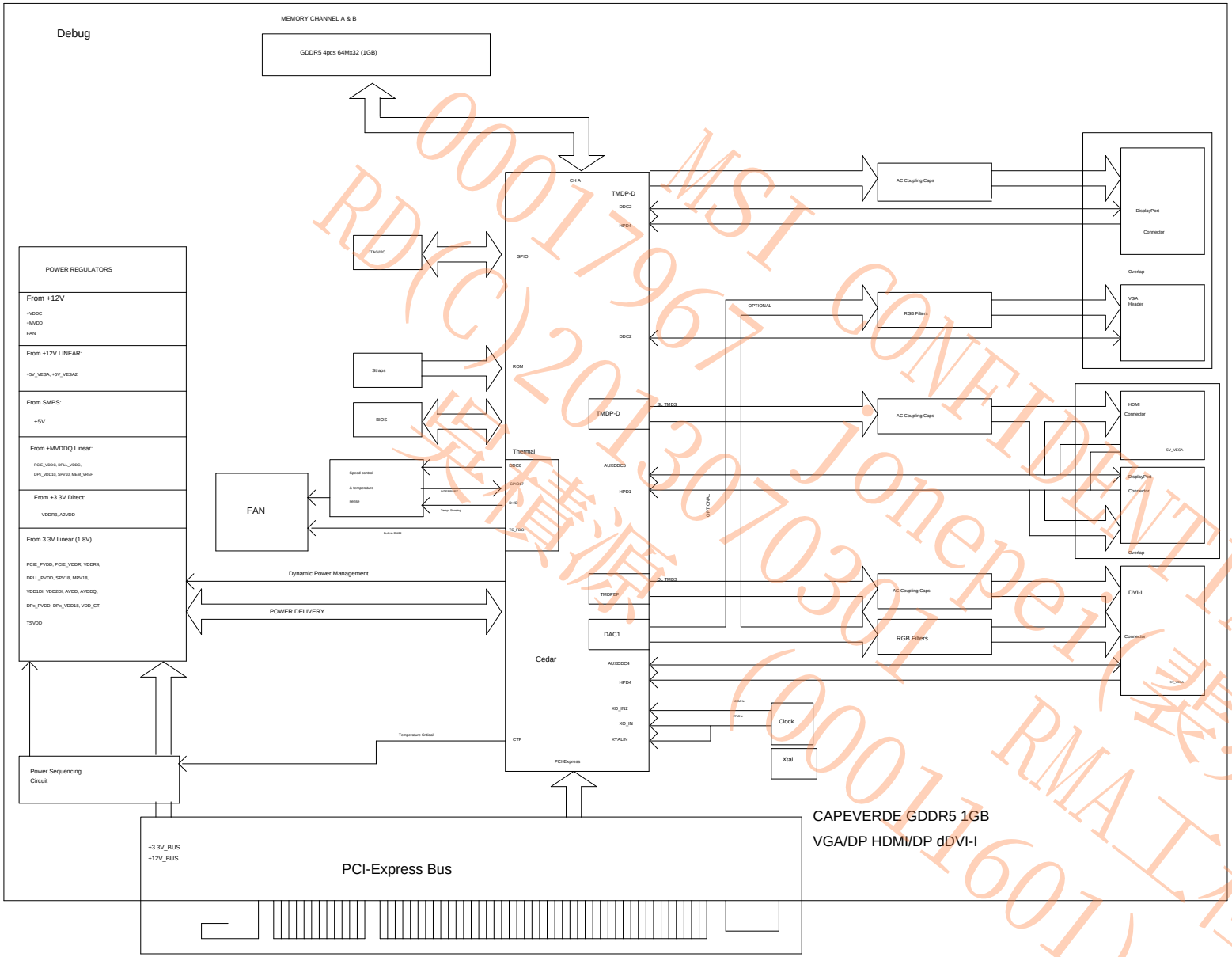
Title	MS-V271-3.0 (AMD C445->C441)	
Size Custom	Document Number 2011-12-14-01	Rev 01
Date: Friday, February 24, 2012	Sheet 17 of 21	

(19) Debug Circuits



Title	MS-V271-3.0 (AMD C445->C441)		
Size: Custom	Document Number: 2011-12-14-01		Rev: 01
Date: Friday, February 24, 2012	Sheet 18 of 21		


+5V
R824
10K/0402
R825
10K/0402 (Not)
U802
R11-0000012-W08
R826 0R
5,18
IN
SCL
6262_SCL
5
SCL
R11-0103012-Y01
8
OUT1
OUT
VDDCI_FB
R827
0
6262_PEX_R
6
OUT3
R11-0103012-Y01
R829
4
6262_SDA
SDA
BI
5,18
16
OUT
MVDD_FB
R828
0
6262_MEM_R
7
OUT2
VCCBUS_SEL
GND
3
0R
R11-0000012-W08
I34-1811A09-U33
避免IC衝突，先預留0 OHm電阻
R834
2.2R/0402
R11-022A012-Y01
C890
.1UF
16V
10%
X5R
0402
COMMON
C11-1042542-S02
C891
.1UF
16V
10%
X5R
0402
COMMON
C892
.1UF
16V
10%
X5R
0402
COMMON
C11-1042542-S02
C11-1042542-S02



Title	MS-V271-3.0 (AMD C445->C441)	
Size: Custom	Document Number: 2011-12-14-01	Rev: 01
Date: Friday, February 24, 2012	Sheet 20 of 21	

	TITLE CAPE VERDE PRO GDDR5 64Mx32 dDVI-I+HDMI/DP+DP/VGA	SCHEMATIC NO. 105-C445XX-00	DATE

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 LASTEST BOM CLOSEST TO THE APPLICATION DESIRED.

REV P04

SCH REV	PCB REV	DATE	REVISION DESCRIPTION
00	00A	2011/07/11	Initial CAPE VERDE schematic,
01	00B	2011/08/23	1.Update bracket DP HDMI DVI to 80200515B0G; 2. Add C4401/C4402 3. wire GPIO15/GPIO20 to I2C DAC 4. remove BIF_VDDC
02	00C	2011/09/27	1. add BACO fan delay circuit; 2. Update 1.8V LDO symbol to GS7103; 3. Remove some debug circuit;
03	00D	2011/11/15	1. update BACO fan delay circuit;
04	00	2011/11/28	1. update CTF to shut off 1.8v;

AMD Smarter Choice

Instruction: Please specify "**PARTNER SCHEMATIC PART NUMBER:**" on the following table and please insert a "X" in the "YES" "NO" "Not Applicable" column as appropriate. Please specify "**AMD Ref schematic =**" on the following table.

PARTNER SCHEMATIC CHANGE NOTE

PARTNER SCHEMATIC PART NUMBER:

AMD REFERENCE SCHEMATIC USED: C445_00.DSN reference schematics

Partner schematic pages:	Content change description: YES	NO	Not Applicable	Comments
Page 1	X			1. Remove SMBus
Page 2		X		
Page 3		X		
Page 4		X		
Page 5	X			1. Delete SMBus 2. Add GPIO 5 & 6 3. Delete GPIO 17 & 29 &30 4. Delete U12 & relation
Page 6	X			1. Delete J1501 & relation 2. Delete ESD DIODES 3. Short L1710 & L1711 & L1712
Page 7		X		
Page 8	X			1. Delete J1801 & relation 2. Delete ESD solution
Page 9	X			1. Delete ESD solution
Page 10	X			1. Connect net FB_VDDCI & FB_VDDC & FB_GND_VDDC 2. Add C881 3. Delete MC176 & MC178 4. Reserve CAP for BIF_VDDC#1 & BIF_VDDC#2
Page 11	X			1. Change MOSFET & Cin & Cout 2. Short NS800 via 3. Delete low side Gate Resister. 4. Delete Cout * 2
Page 12	X			1. Delete all content & copy UPI solution from C441 2. Change Cin & Cout 3. Short NS* via
Page 13	X			1. Short NS900 via 2. Feedback sense from net FB_VDDCI 3. Delete low side Gate Resister. 4. Delete Cout * 3 5. Add Cin 10UF * 1
Page 14	X			1. Change Lin & Cin 2. Short NS700 via 3. Delete low side Gate Resister. 4. Delete Cout * 3 5. Delete Cin 10UF * 1
Page 15	X			1. Delete Vin reservation 2. Change 5V solution to 1117 3. Delete D450 & relation
Page 16	X			1. Add 6 pin EXT_12V 2. Add +12V_EXT_A power up sequence for +1.8V_EN 3. Add input 12V_BUS & 12V_EXT choke for core PWM 4. upon setting 1.~3. are copy from C441 5. Delete U680 & relation 6. Delete Vcore Rbot & relation
Page 17	X			1. Delete 2 pin fan & relation 2. Copy C441 4 pin fan & relation 3. Delete net GPU_DPLUS & GPU_DMINUS 4. Add MR4104 for MLPS 5. Reserve R4100 & R4409
Page 18	X			1. Delete U4001 & relation 2. Delete J4004 & relation
Page 19		X		
Page 20		X		