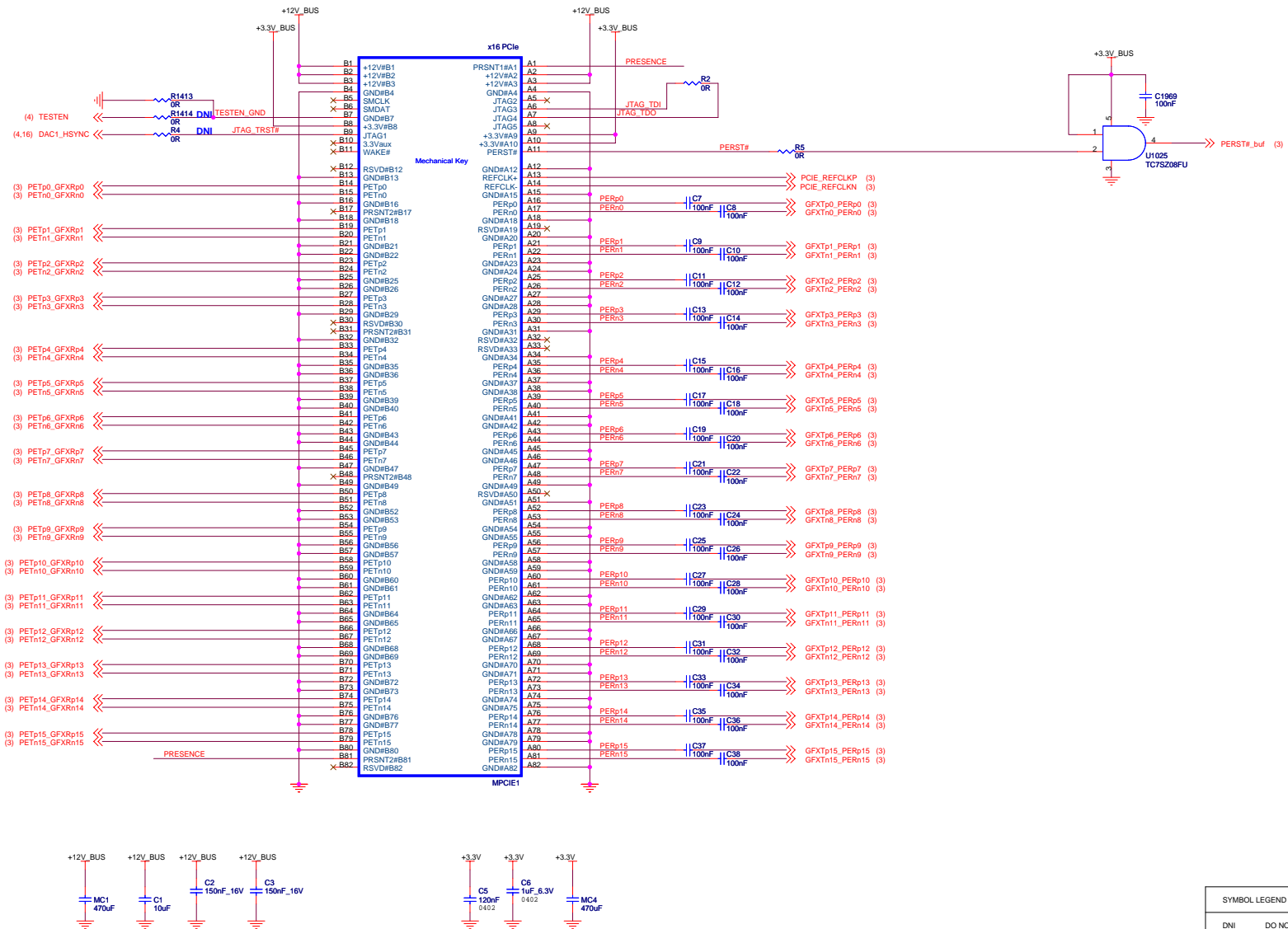


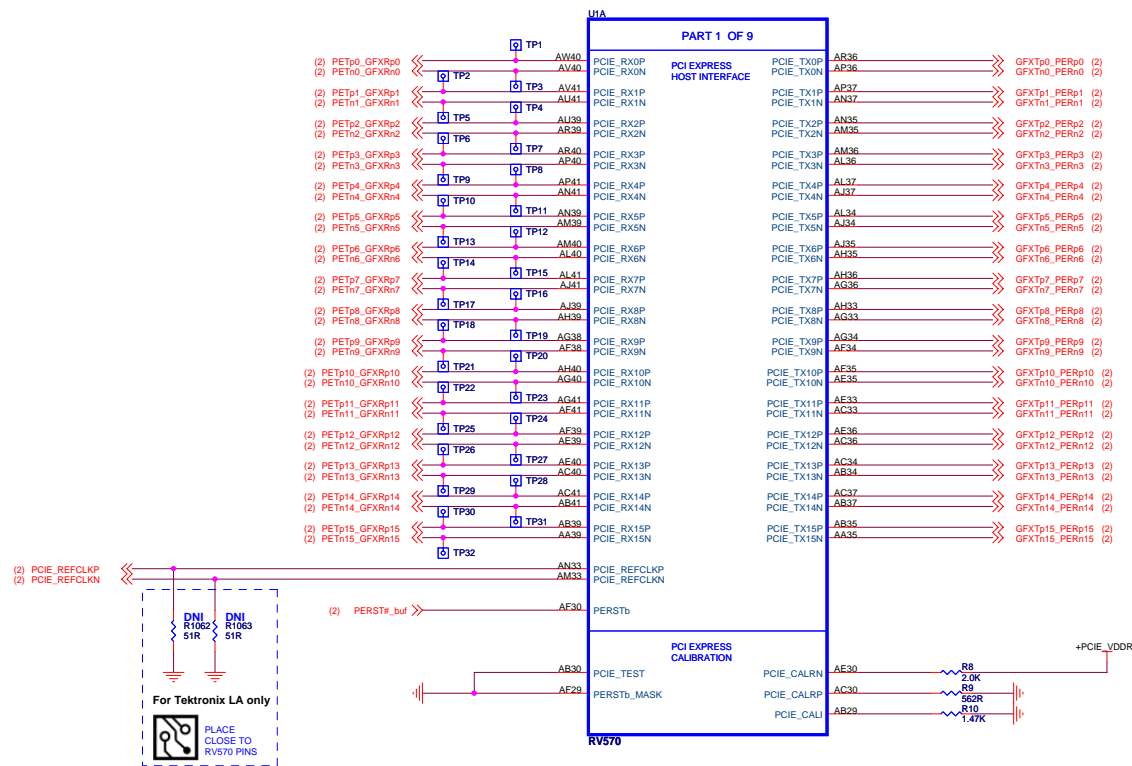
ATI Technologies Inc.  
 1 Commerce Valley Drive East  
 Markham, Ontario  
 Canada, L3T 7X6  
 (905) 882-2600

# PCI-EXPRESS EDGE CONNECTOR



**ATI Technologies Inc.**  
 1 Commerce Valley Drive East  
 Markham, Ontario  
 Canada, L3T 7X6  
 (905) 882-2600

Title: RH PCIe RV570 512M 1366DDR3 DDVI DDVI VIVO CF  
 Size: C Document Number: 105-A999xxc-10  
 Date: Tuesday, January 16, 2007 Sheet: 2 of 20

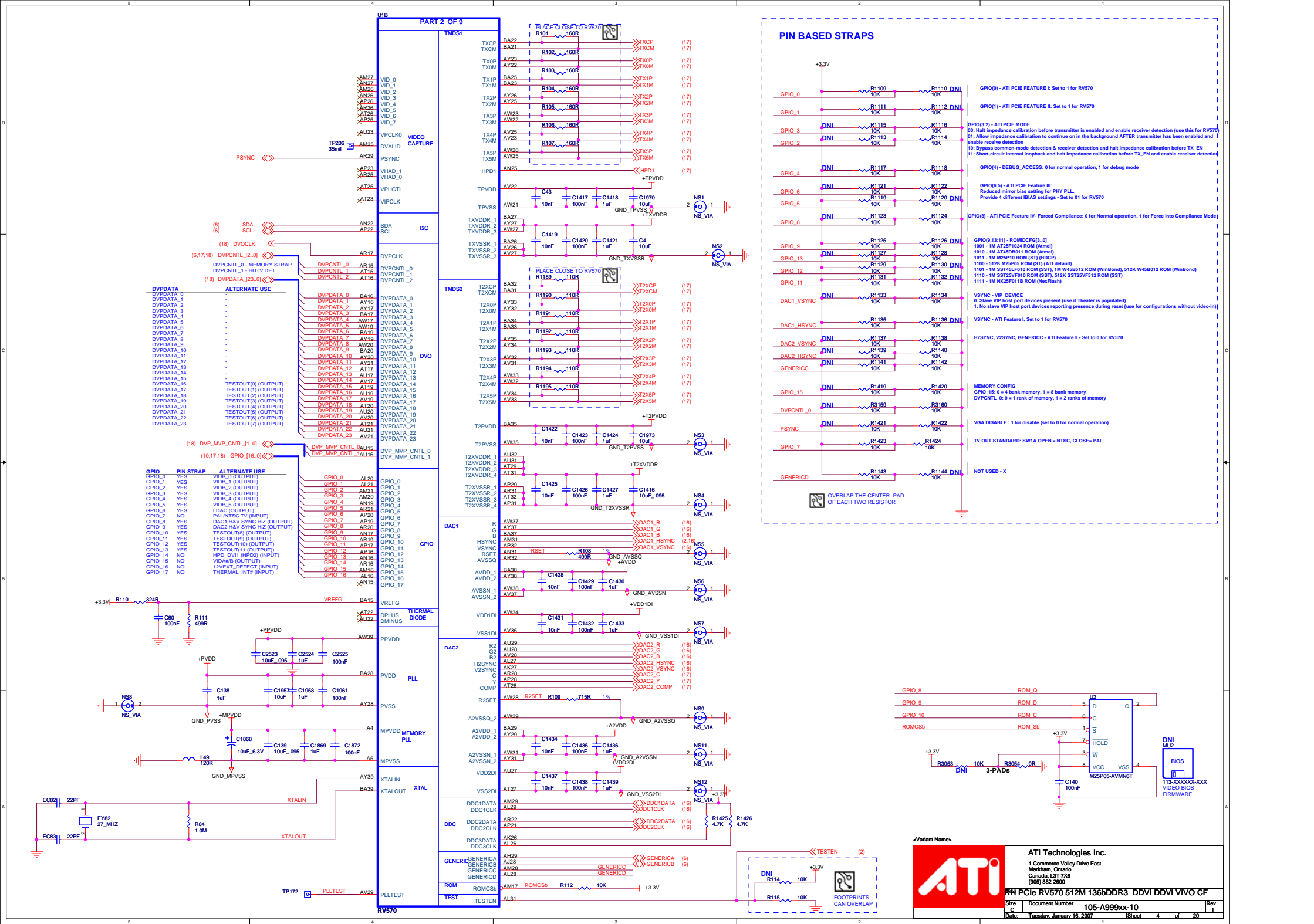


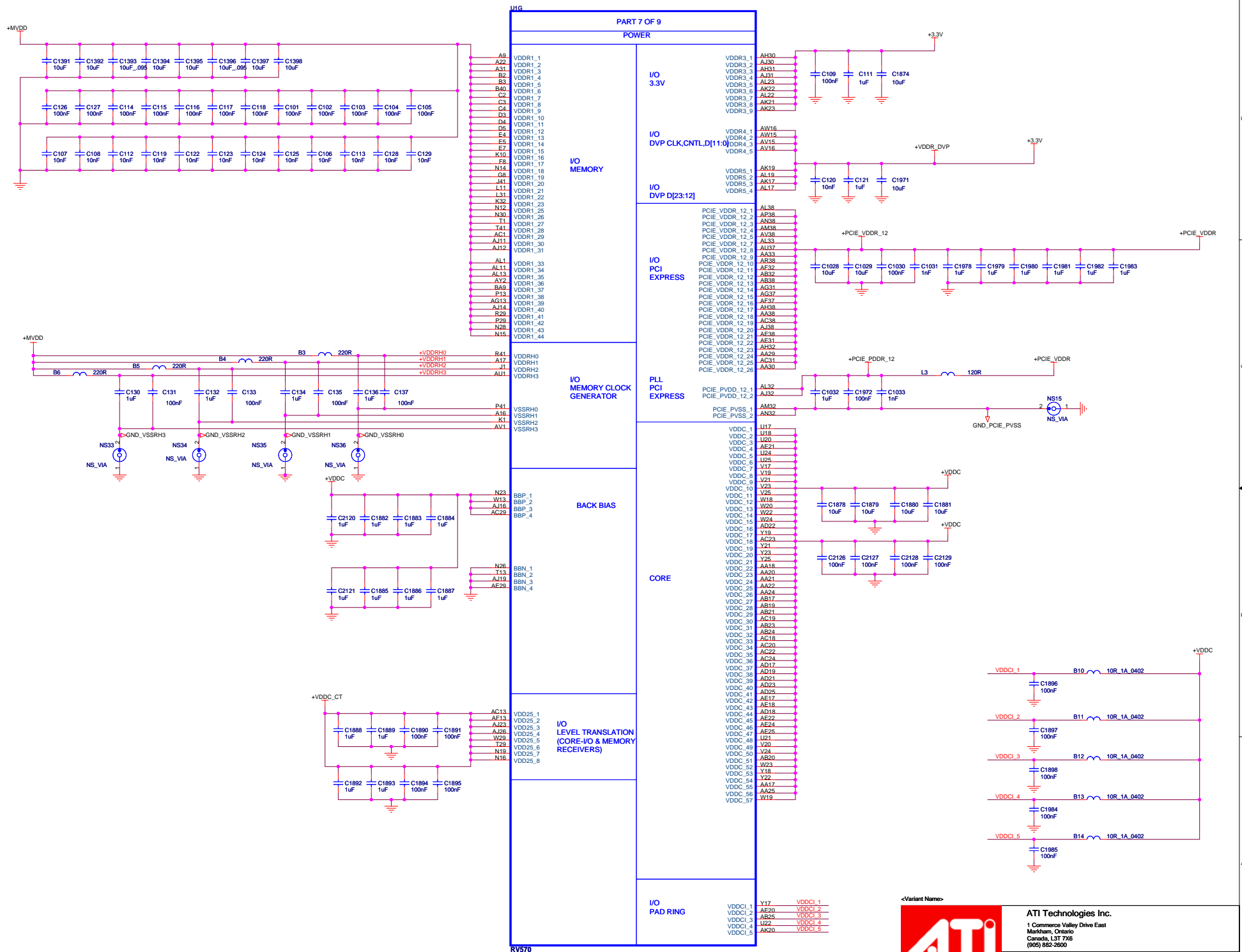
<Variant Name>



**ATI Technologies Inc.**  
 1 Commerce Valley Drive East  
 Markham, Ontario  
 Canada, L3T 7X6  
 (905) 882-2600

Title		RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF	
Size	Document Number	105-A999xx-10	Rev
C			1
Date:	Tuesday, January 16, 2007	Sheet	3 of 20

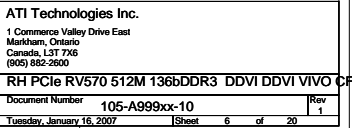




<Variant Name>

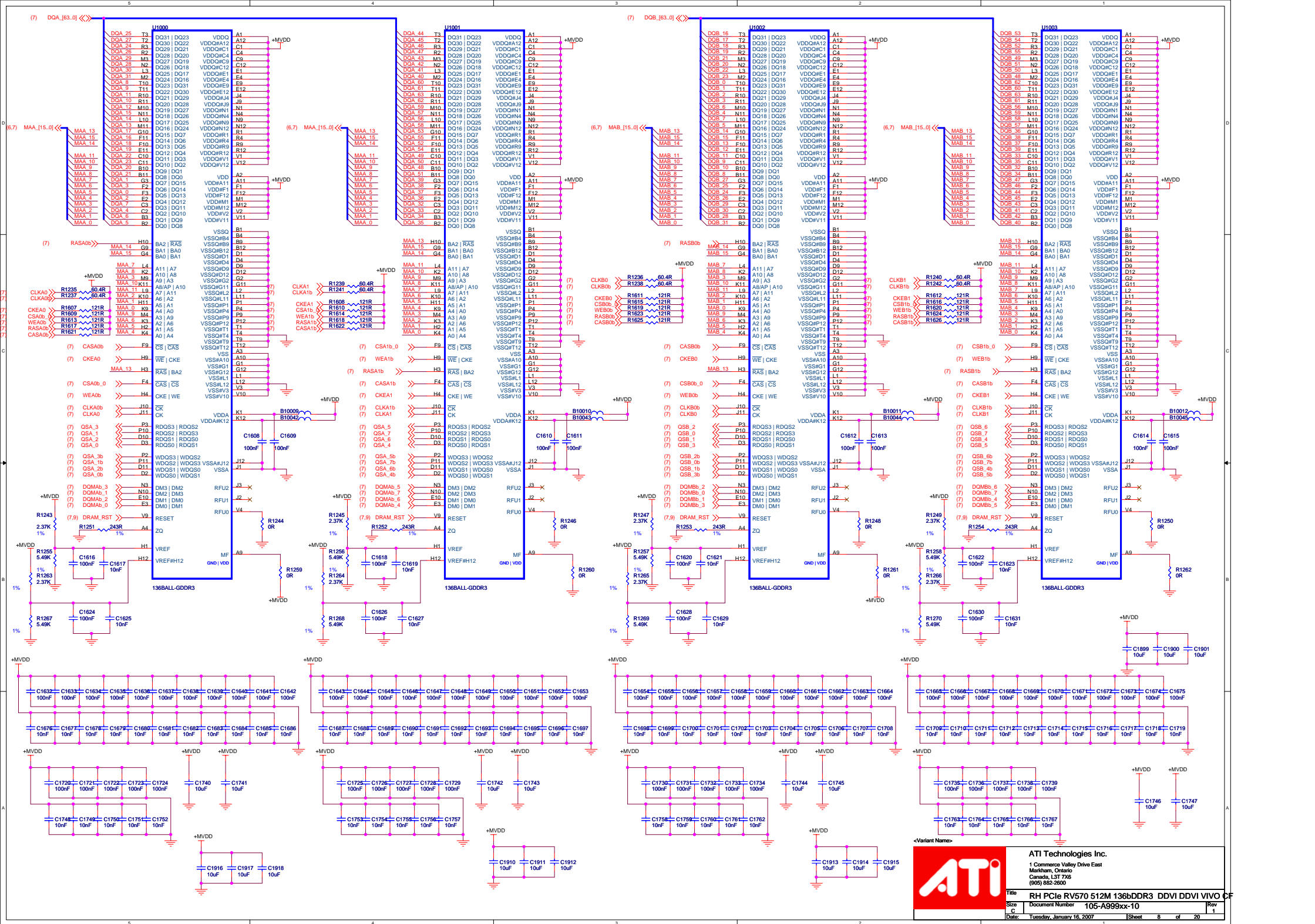


ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

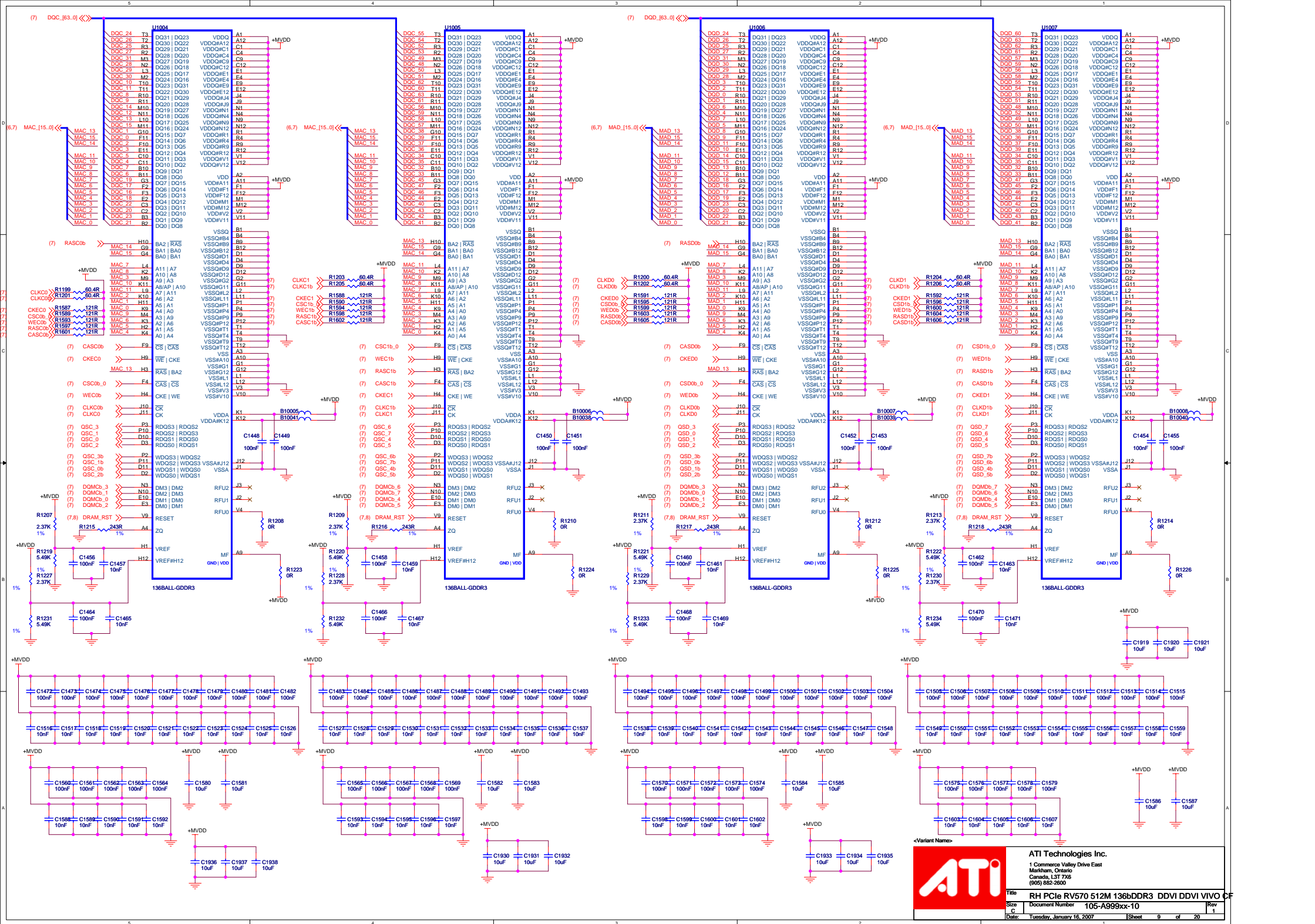




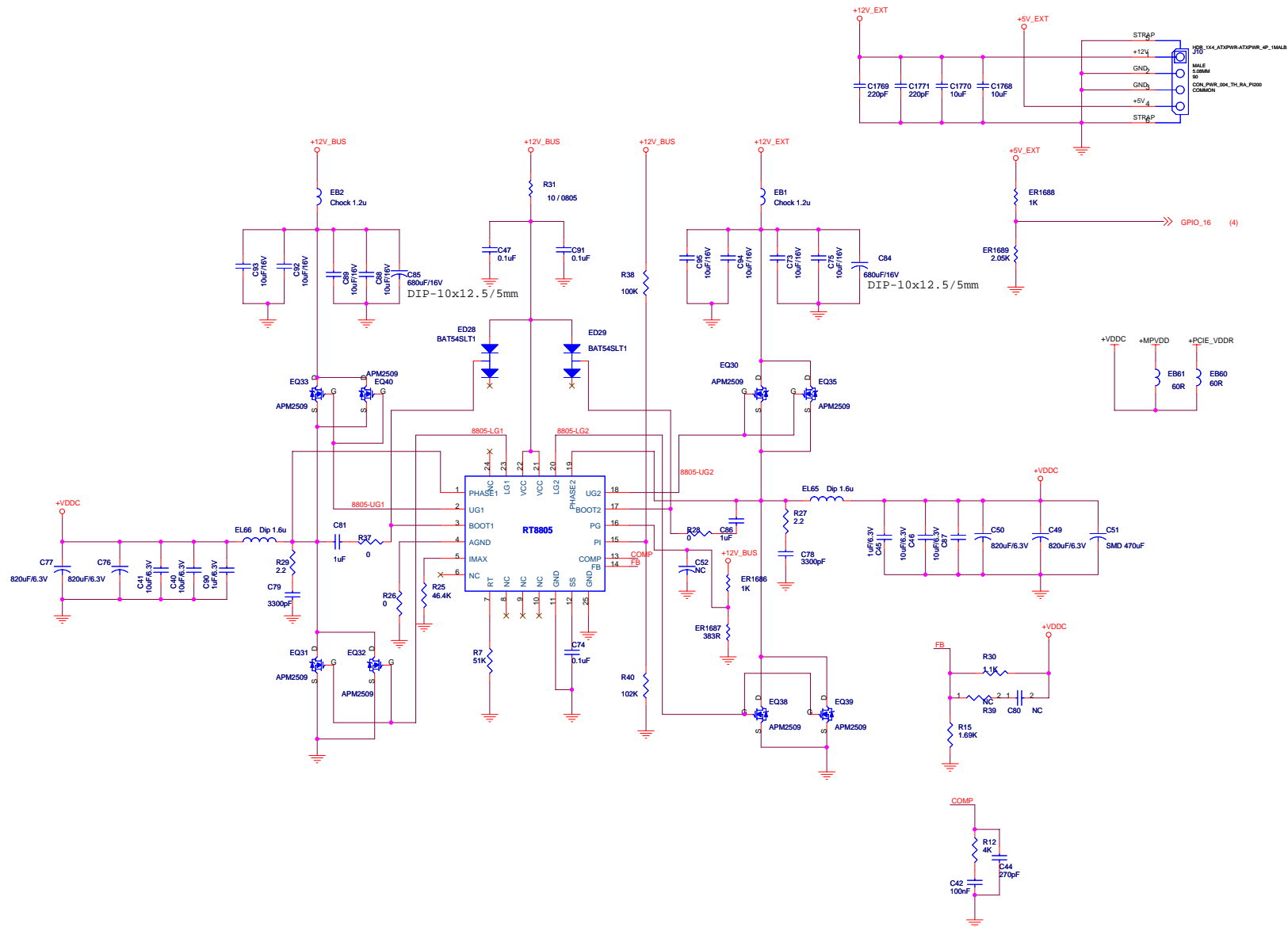








# CORE REGULATOR VDDC

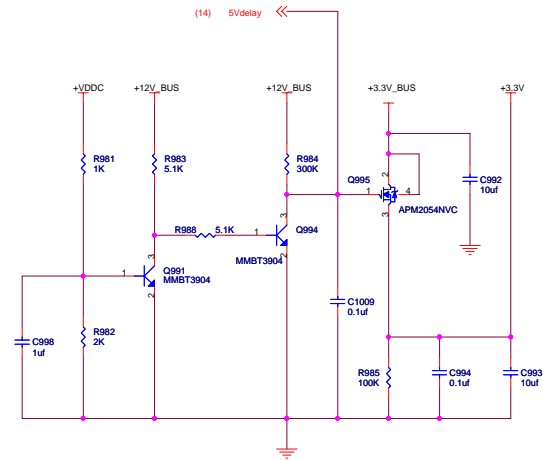


<Variant Name>

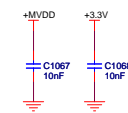
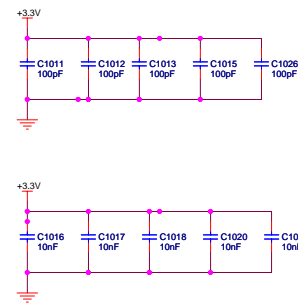
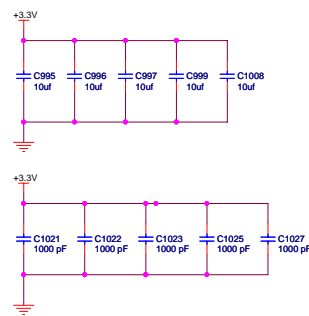


ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

Title		RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO	
Size	Document Number	105-A999xx-10	Rev
C			1
Date:	Wednesday, January 17, 2007	Sheet	10 of 20



EMI Cap



ATI Technologies Inc.

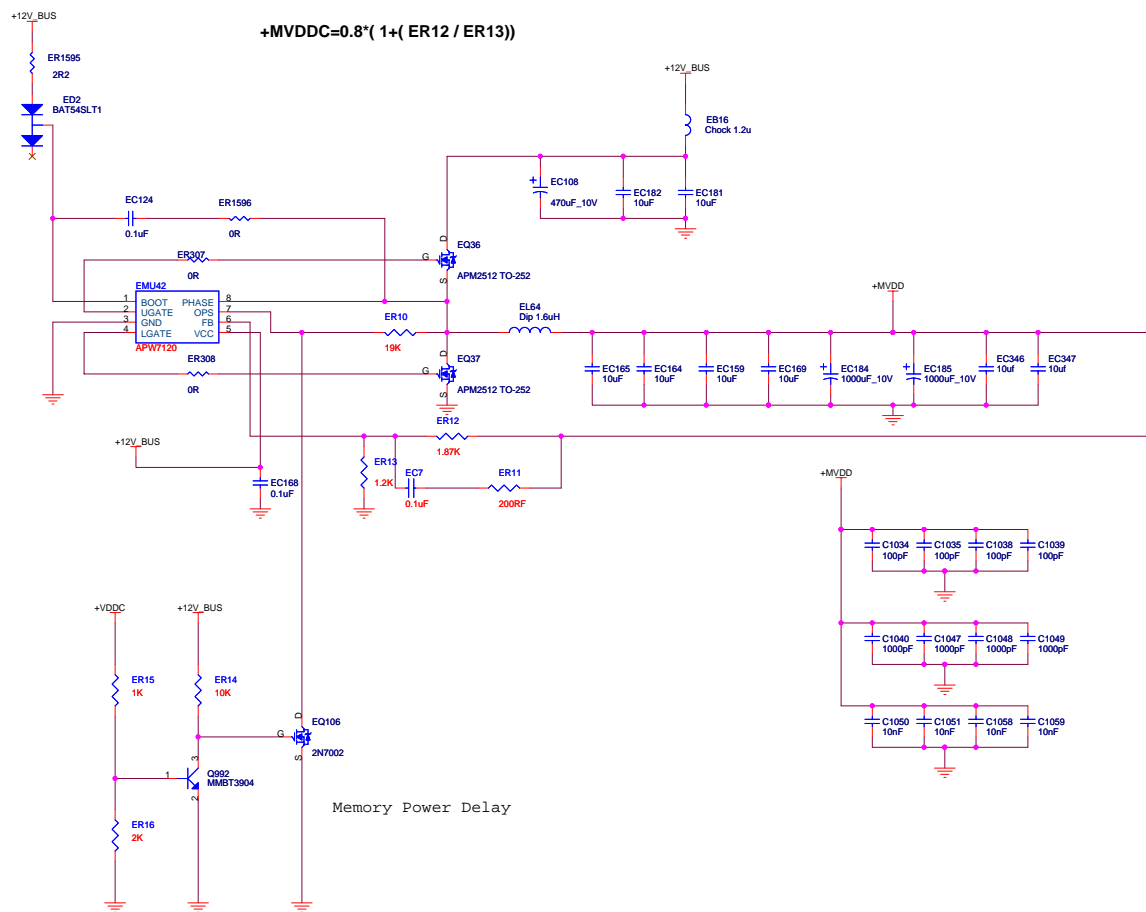
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

Title	RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO		
Size	Document Number	105-A999xx-10	Rev
Custom			1
Date	Tuesday, January 16, 2007	Sheet	11 of 20



ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

Title					RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO					C				
Size		Document Number								Rev				
Custom		105-A999xx-10								1				
Date:		Tuesday, January 16, 2007				Sheet		12		of 20				



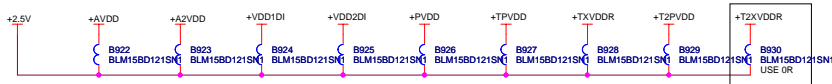
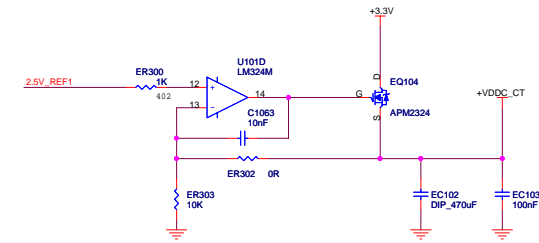
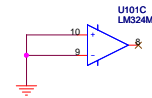
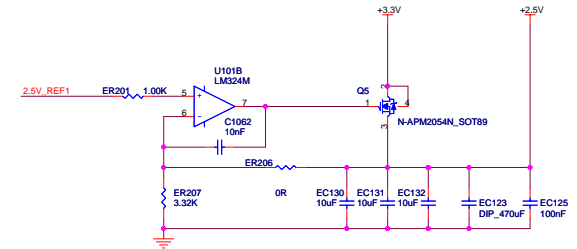
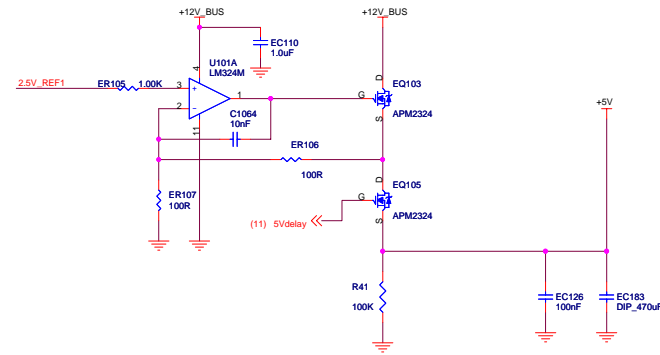
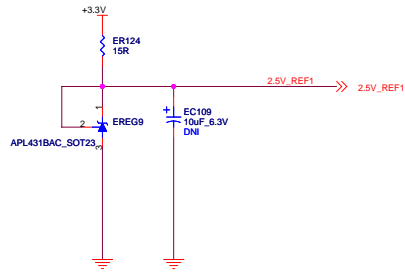
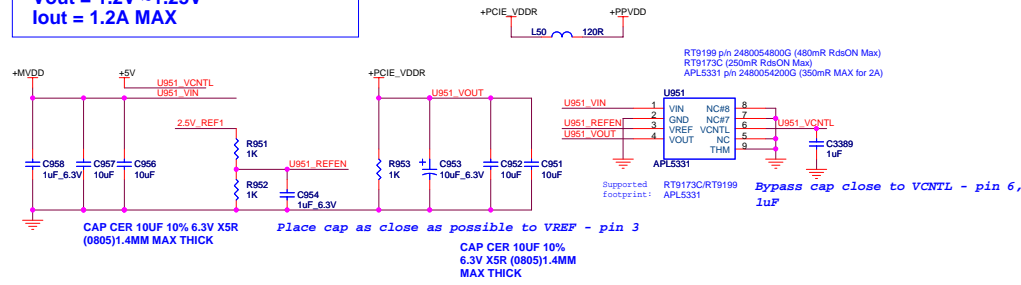
<Variant Name>



ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

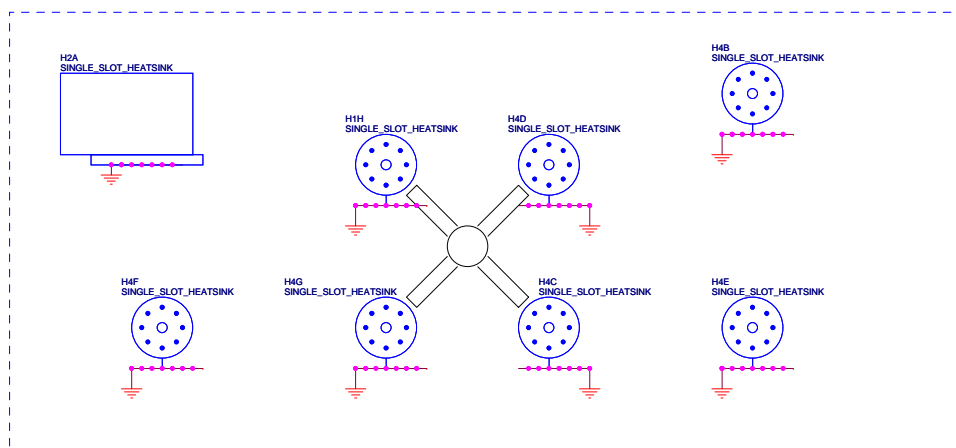
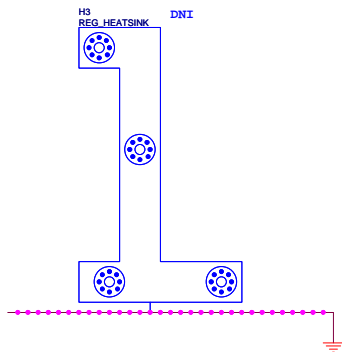
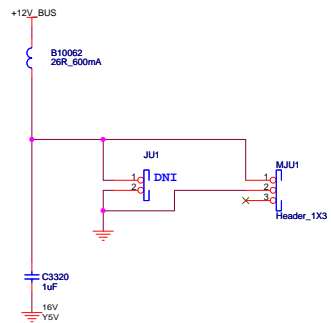
Title		RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO	
Size	Document Number	105-A999xx-10	Rev
C			1
Date:	Tuesday, January 16, 2007	Sheet	13 of 20

Optional regulator for +PCIE  
Vout = 1.2V ~1.25V  
Iout = 1.2A MAX



ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2000

Title RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF  
Size Document Number 105-A999xx-10  
Date: Tuesday, January 16, 2007 Sheet 14 of 20

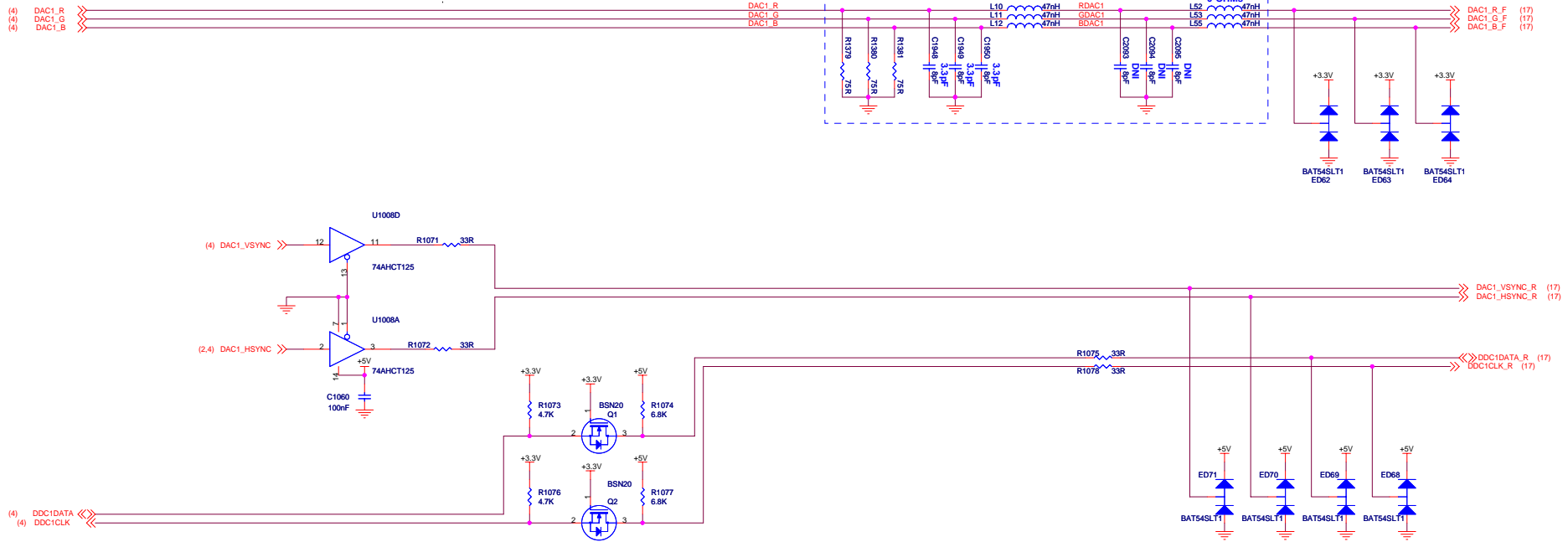


ATI Technologies Inc.  
 1 Commerce Valley Drive East  
 Markham, Ontario  
 Canada, L3T 7X6  
 (905) 882-2000

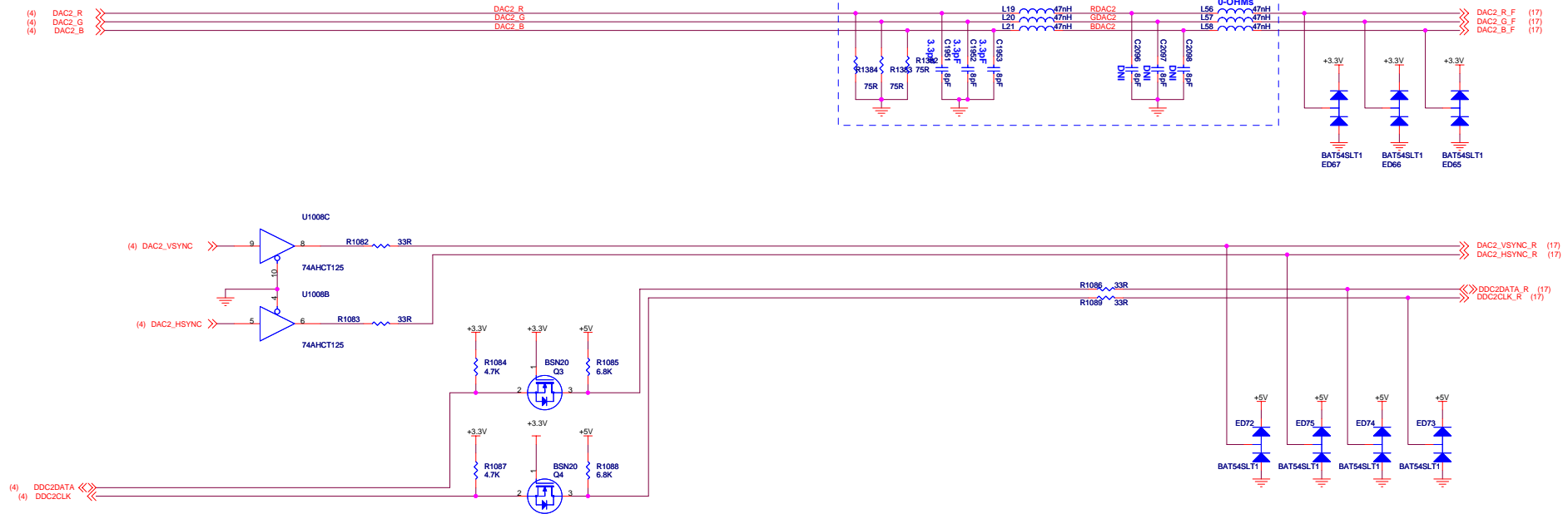
Title	RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF		
Size	Document Number	105-A999xx-10	Rev
C			1
Date:	Tuesday, January 16, 2007	Sheet	15 of 20



# DAC1 FILTERS (PRIMARY DISPLAY)



## DAC2 FILTERS



<Variant Name>



ATI Technologies Inc.

1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

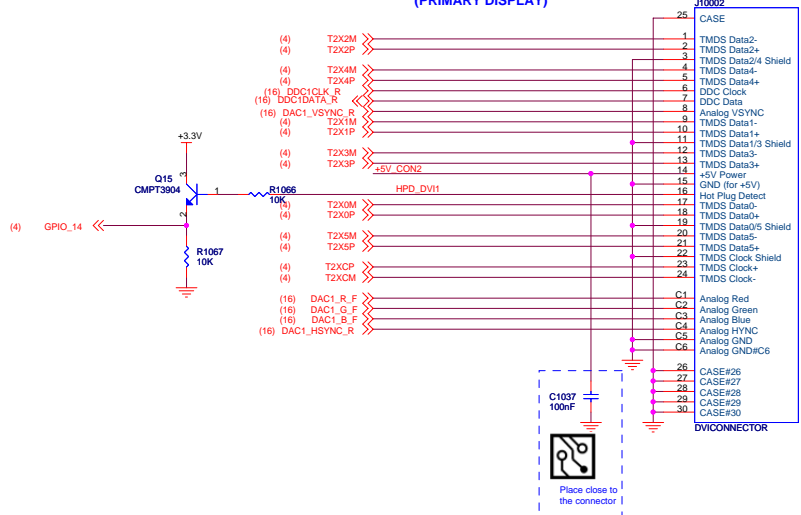
Title RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF

Size C Document Number 105-A999xx-10

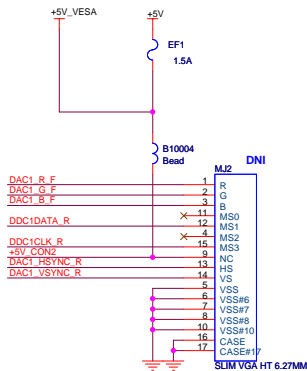
Date: Tuesday, January 16, 2007

Sheet 16 of 20

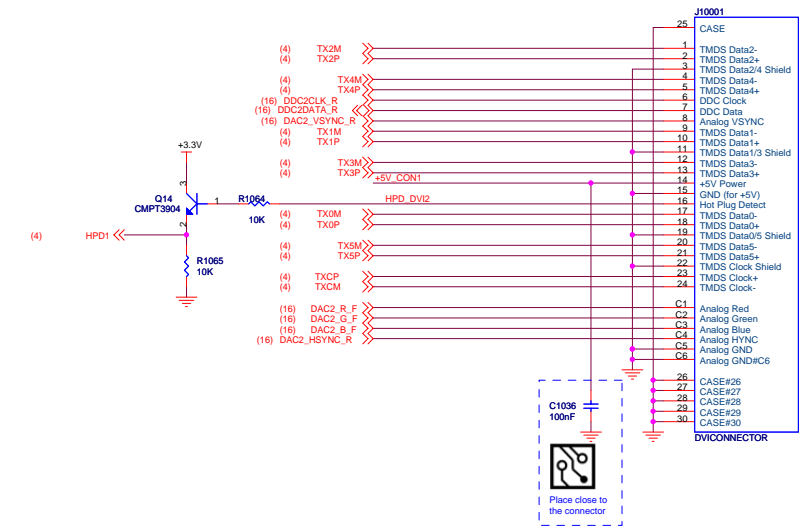
# DVI-I CONNECTOR 1 (PRIMARY DISPLAY)



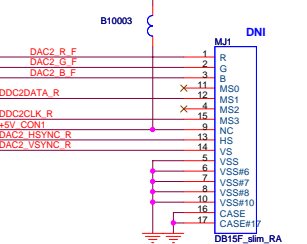
# DB15 CONNECTOR 1 (PRIMARY DISPLAY)



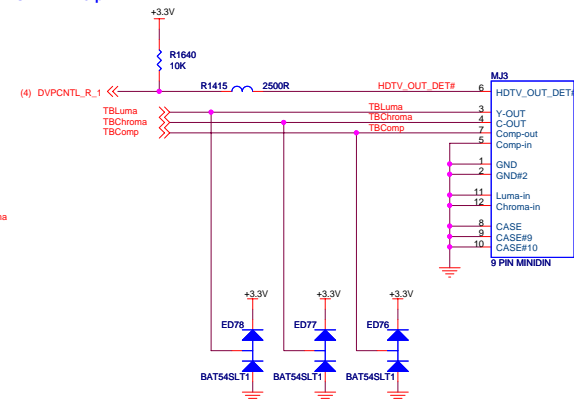
# DVI-I CONNECTOR 2



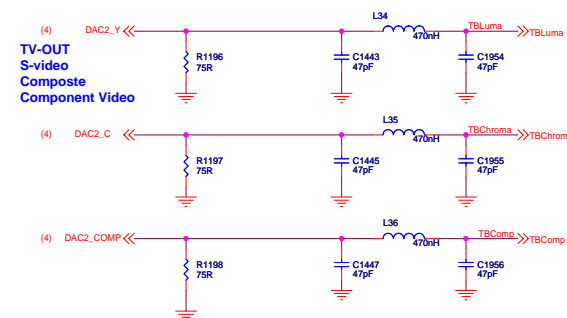
# DB15 CONNECTOR 2



# VIVO MiniDIN 9-pin



# TV-OUT S-video Composite Component Video



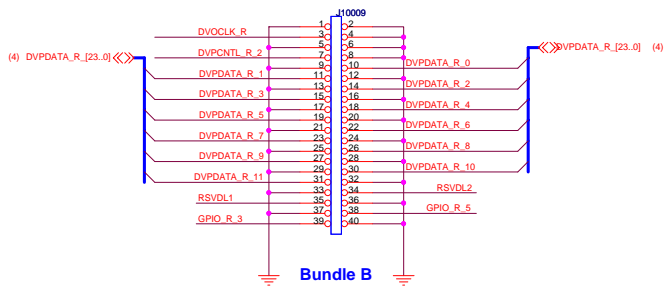
ATI Technologies Inc.

1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

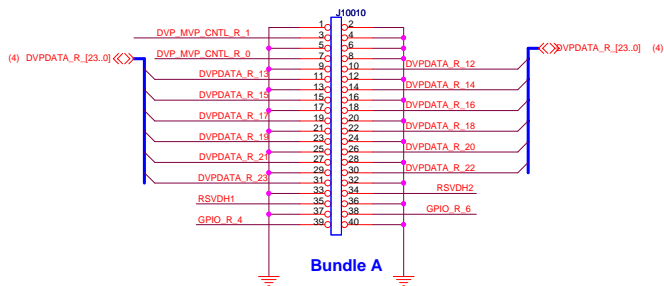
Title		RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF	
Size	Document Number	105-A999xx-10	Rev 1
C	Date	Tuesday, January 16, 2007	Sheet 17 of 20

CrossFire Card-Edge

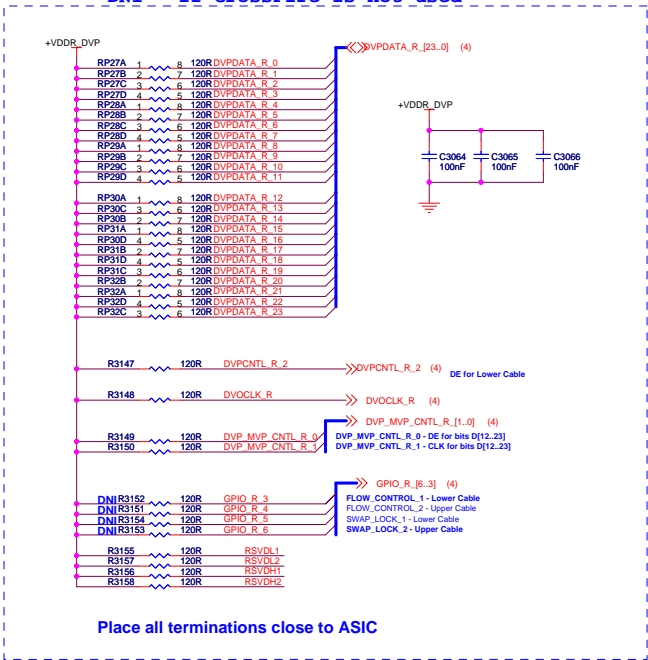
Lower Cable Card Edge



Upper Cable Card Edge

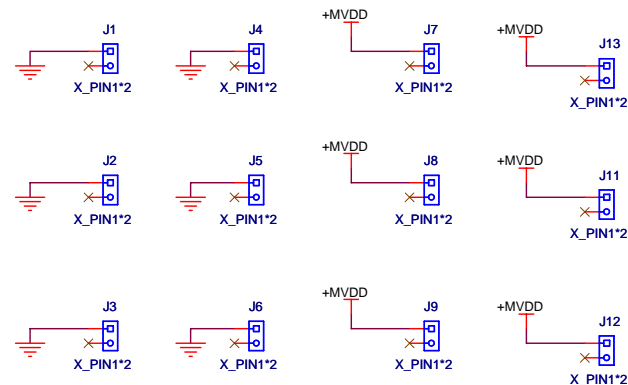
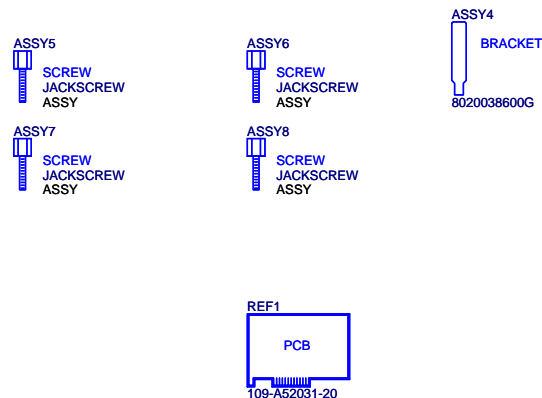


DNI - if CrossFire is not used



ATI Technologies Inc.  
1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

Title		RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO	
Size	Document Number	105-A999xx-10	Rev 0
C	Date	Tuesday, January 16, 2007	Sheet 18 of 20



### STUFFING OPTIONS

DISPLAY CONFIGURATION	INSTALL	DO NOT INSTALL
DVI DVI VIVO	ASSY1	ASSY2, ASSY3
DVI VGA VIVO	ASSY3	
DVI VGA TVO		ASSY1, ASSY2

NOTE:  
1 - Other components are to be installed.  
2 - Components marked as DNI should not be installed. They should only be installed if default board settings are to be changed in which case other components may have to be adjusted accordingly.

<Variant Name>



### ATI Technologies Inc.

1 Commerce Valley Drive East  
Markham, Ontario  
Canada, L3T 7X6  
(905) 882-2600

Title	RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF		
Size	Document Number	105-A999xx-10	Rev 1
Date:	Tuesday, January 16, 2007	Sheet 19 of 20	



Title	Schematic No.	Date:
RH PCIe RV570 512M 136bDDR3 DDVI DDVI VIVO CF	105-A999xx-10	Tuesday, January 16, 2007

REVISION HISTORY

Rev 1

Sch Rev	PCB Rev	Date	REVISION DESCRIPTION
0	00A	Apr 19 / 06	<ul style="list-style-type: none"><li>- Based on A88131-00B PCB - cost-down to 8 layers and replaced regulators to cheaper versions..</li><li>-Changed VDDC regulator to 50A (dual phase) for cost down purposes.</li><li>- Changed VDDCI regulator.</li><li>- Changed memory regulators to one regulator MVDD.</li><li>- Change regulators for other rails.</li></ul>
1	00	July 10/ 06	<ul style="list-style-type: none"><li>- Added mechanical holes for optional heatsink for Volterra parts.</li><li>- Grounded holes for socket.</li><li>- R121 resistor at VREFG that was connected to +1.8V has been removed .and replaced with capacitor C60.</li><li>- Removed R1469 - not used.</li><li>- Removed B992 - not used.</li><li>- Removed optional regulator MU7.</li><li>- Removed B911.</li></ul>

NOT FINAL - Note that the change history to -10 will be added in a refresh of this schematic. The Tach resistor change has been included under the Thermal Management sheet.