PER-C101

BROADCOM BCM5721KFB+BCM5789KFB

Dual PCI Express 10/100/1000

Ethernet Daughterboard

Thermal Image Analysis Report

Report No: 05I080006

Release Date: 10 .20. 2005

2005/10/20	*Wenyuan Yang*	*Andrew Ku*
Issue Stamp	**Manager**	**Test Engineer**

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Thermal Image Analysis

Ⅰ. Model Name: PER-C101 Rev.A0.1
(PCB: FSB-866G A0.2)
(BIOS: FSB-866G BIOS Rev:0.11 (8036PXE) (06/20/2005))

Ⅱ. Description:BROADCOM BCM5721KFB+BCM5789KFB Dual PCI Express 10/100/1000 Ethernet Daughterboard

Ⅲ. Date: 10.20.2005

Ⅳ. Measure Site: AAEON QE Dept.

Ⅴ. Issued by : Andrew Ku

Ⅵ.Equipment:
1. TVS-100 series by NIPPON AVIONICS CO., LTD.

Ⅶ. Simulation Environment:
- •Temperature: Component Side : 25.2℃
  Solder Side : N/A
- •CPU: Intel ®Pentium® 4 CPU 2.80GHz(200x14.0)
- •RAM: Transcend / TS64MLD64V4F3 / 512Mb DDR400
- •CF Card: N/A
- •Application Software: Run HCT System Stress Test under Win2000 Professional
- •Take Picture Time: After Power on 2 hours.

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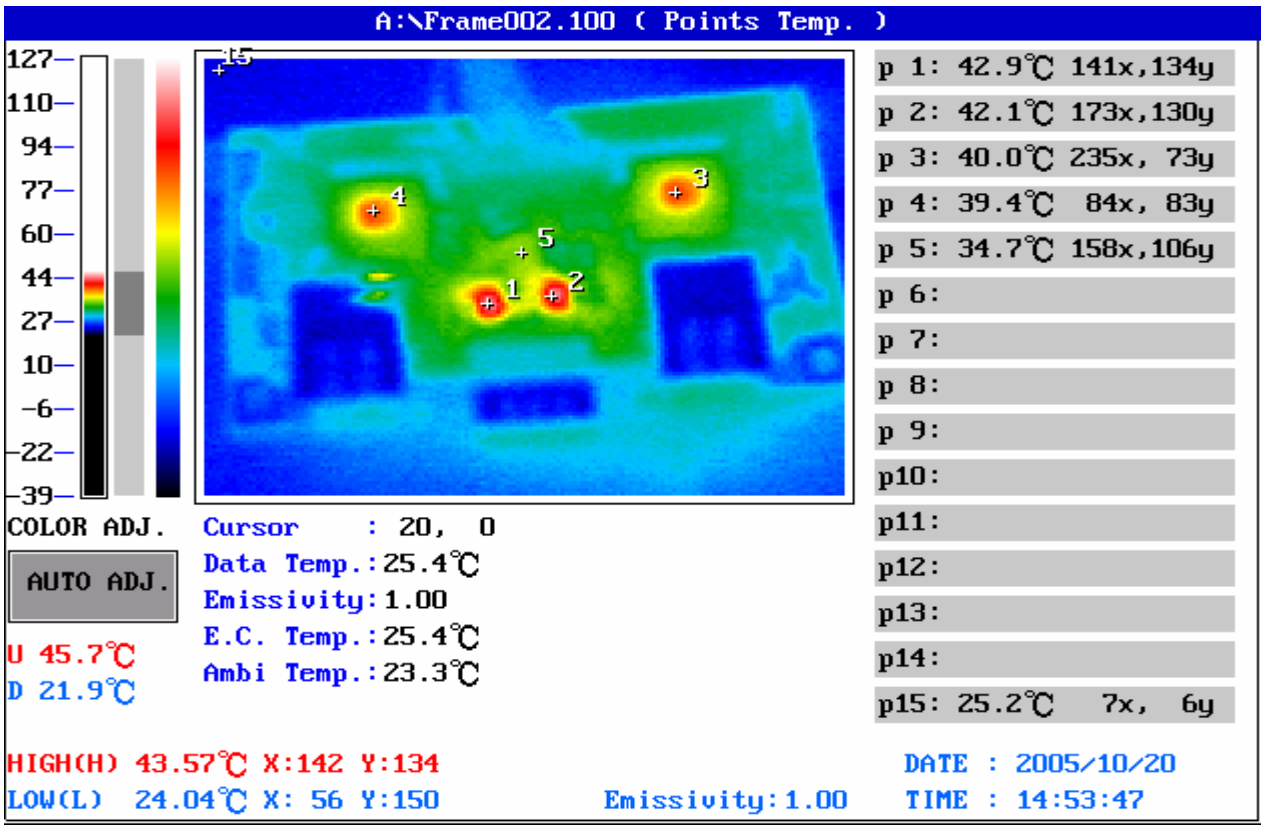
Temperature Profile Test:

Component Side (1)



Point	Position	Describe	Tc (℃)	Tm (25℃)	Tm (60℃)	Note
1	Q2	(TF)PNP.SMD SOT-223.1Amp.ON.BCP69T1G	-40℃~125℃	42.9℃	77.9℃	
2	Q1	(TF)PNP.SMD SOT-223.1Amp.ON.BCP69T1G	-40℃~125℃	42.1℃	77.1℃	
3	U3	(TF)IC.SMD BGA 196P.PCI-E GigaBit Ethernet Chipset.Broadcom.BCM5721KFBG	-30℃~100℃	40.0℃	75.0℃	
4	U5	(TF)C.SMD BGA 196P.PCI-E GigaBit Ethernet Chipset.Broadcom.BCM5751KFBG	-30℃~100℃	39.4℃	74.4℃	
5	U4	(TF)IC.SMD SOIC 8P.1M bit Flash Memory.ATMEL.AT45DB011B-SU	-45℃~85℃	34.7℃	69.7℃	
6						
7			-			
8						
9						
10						
11						
12						
13						
14						
15				25.2℃		

1. Operation Temperature (℃):
   Tc(Case Temp.) = Ta(Ambient Temp.)+/-30℃ = Tj(Junction Temp.)-/+25℃

Note: The description in red states which temperature is over the specification of the device.

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