



Industrial Computing Platform Partner

GENE-5315

Thermal Image Analysis Report

Report No:06E080039

Release Date: 11 / 10 / 2006

2006-10-11

Issue Stamp

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Manager

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Test Engineer

I . Model Name: GENE-5315 A0.2

II . Description: Sub Compact Board

III . Date: 11 / 10 / 2006

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 – 1: 25.1degrees C

Solder Side – 2: 25.4 degrees C

• **System Configuration :**

BIOS ver :0.3

CPU: Geode GX-MMX 500MHz

Memory: Samsung / K4B51083BC /1GB /DDR400

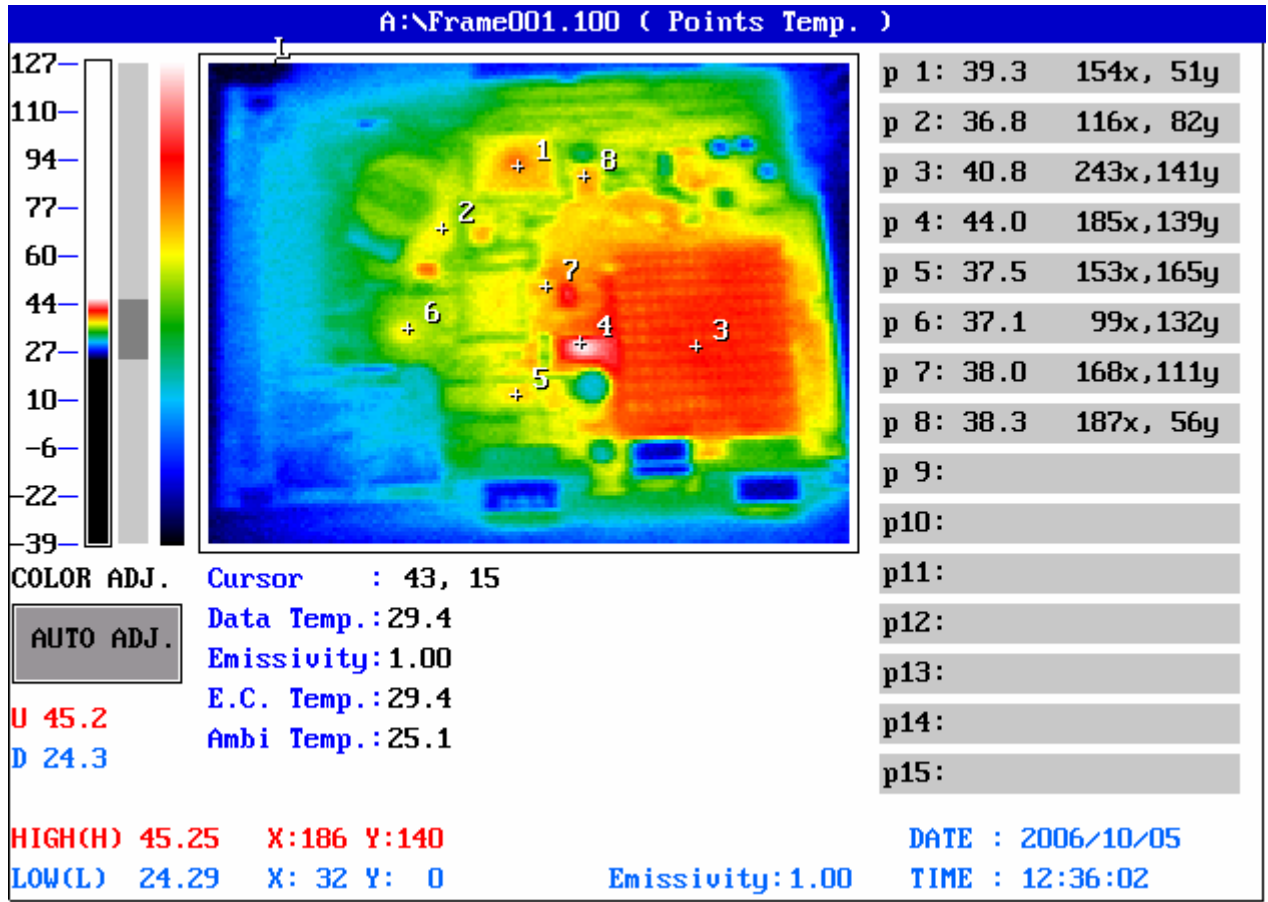
HDD: MAXTOR 80GB

• **Application Software: Windows XP run HCT9.5**

• **Take Picture Time: After power on 2 hours .**

Temperature Profile Test:

Component Side – 1:

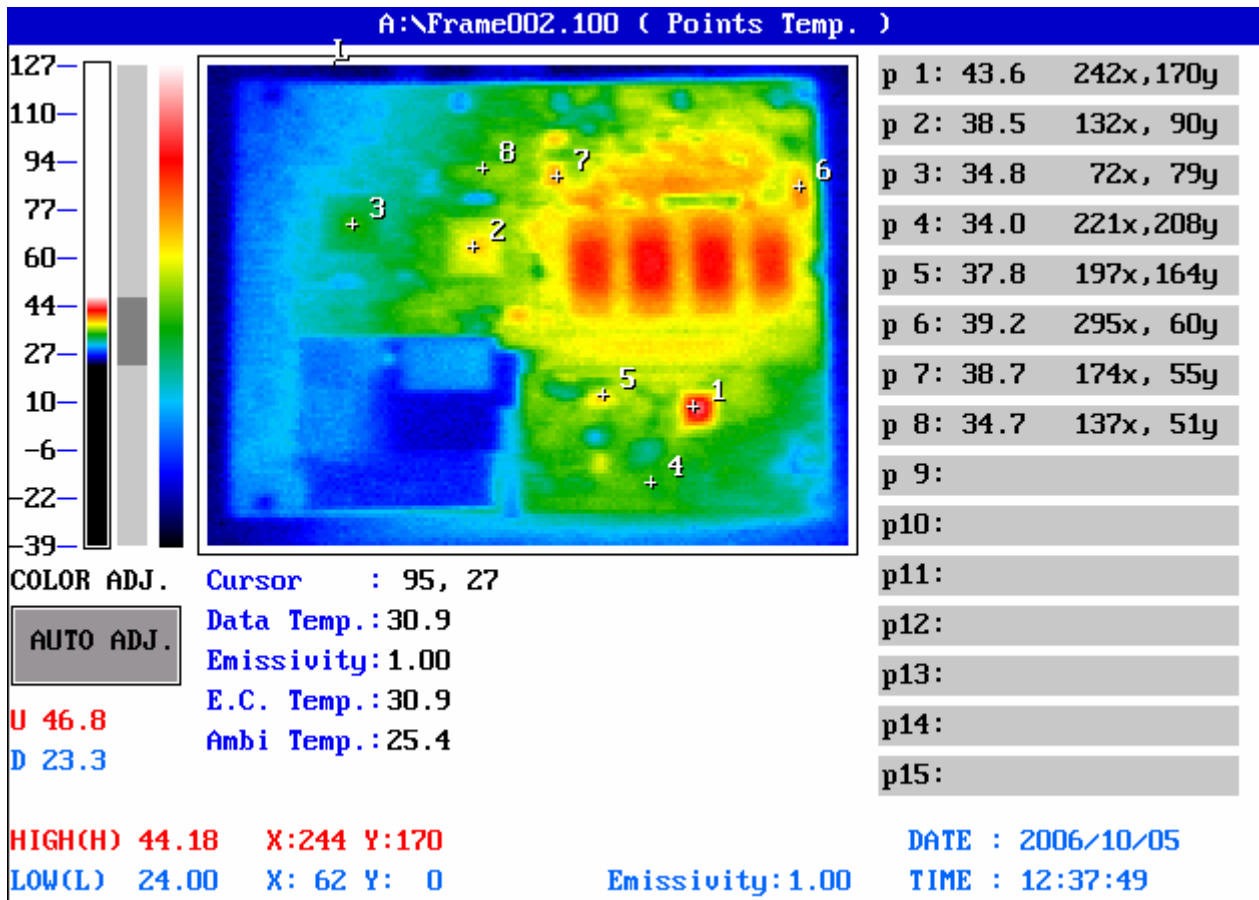


Point	Position	Describe	Tc	Tm (25°C)	Tm (60°C)	Note
1	U1	(TF)IC.SMD.QFP128P Super I/O.ITE.IT8712F/KX-L	-30°C~100°C	39.3°C	74.3°C	
2	U3	(TF)IC.SMD 208PBG.A/I/O Companion.Multi-Function South Bridge.AMD.CS5536AD	-25°C~110°C	36.8°C	71.8°C	
3	U12	(TF)AMD CPU.BGU481.LX-800.500MHZ.1.25V.AMD.ALXD800EEXJ2VD	-25°C~110°C	40.8°C	75.8°C	
4	U13	(TF)IC.SMD.SSOP28.Clock Generator.ICS.MK1491-09FLN	-30°C~100°C	44.0°C	79.0°C	
5	U15	(TF)IC.SMD.SSOP RS232 Driver ESD 15KV.AD.ADM213EARSZ	-10°C~115°C	37.5°C	72.5°C	
6	U34	(TF)IC.SMD TFBGA.160P.PCI to ISA Bridge Chip.ITE.IT8888G-L	-30°C~100°C	37.1°C	72.1°C	
7	U7	(TF)IC.SMD SOP 8P.Clock Output Buffer.ICS.ICS9112M-16LF-T	-30°C~100°C	38.0°C	73.0°C	
8	C12	(TF)MLCC.1uF.X5R.6.3V.10%.0402.SMD	-30°C~150°C	38.3°C	73.3°C	
9						
10			--			
11						
12						
13						
14						
15		Ambient Temperature		25.1°C		

1. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C
2. Any Tm value showed in red words which meaning the value is over the Tc+ 5 degree C of this device specification

Thermal Image Analysis

Component Side -2:



Point	Position	Describe	Tc	Tm (25°C)	Tm (60°C)	Note
1	U24	(TF)IC.SMD.2 Channel Audio Codec.Realtek.ALC203-LF	-30°C~100°C	43.6°C	78.6°C	
2	U33	(TF)IC.SMD.LQFP 100P.PCI Ethernet CHIP.RELTEK.RTL8100BL-LF	-30°C~100°C	38.5°C	73.5°C	
3	U10	(TF)IC.SMD.LQFP 100P.PCI Ethernet CHIP.RELTEK.RTL8100BL-LF	-30°C~100°C	34.8°C	69.8°C	
4	U16	(TF)IC.SMD.QSOP 28P.IEEE 1284 Termination Network.CMD.PACSZ1284-04QR	-40°C~150°C	34.0°C	69.0°C	
5	U25	(TF)IC.SMD SOIC 8P.Dual USB Power Control Switch.MICREL.MIC2026-1YM	-10°C~120°C	37.8°C	72.8°C	
6	U37	(TF)IC.SMD.TSSOP56.FlatLink Transmitter.TI.SN75LVDS83	-30°C~100°C	39.2°C	74.2°C	
7	U39	(TF)IC.SMD TSSOP14.Synchronous Buck Regulator.NS.LM2727	-15°C~150°C	38.7°C	73.7°C	
8	U40	(TF)IC.SMD.SOP 16Pin PCI Arbiter.ITE.IT8208M	-30°C~100°C	34.7°C	69.7°C	
9						
10						
11						
12						
13						
14						
15		Ambient Temperature		25.4°C		

1. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C
2. Any Tm value showed in **red words** which meaning the value is over the Tc+ 5 degree C of this device specification