AAEON **Technology INC.**
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

GENE-6310 Rev:B1.0
Thermal Image Analysis Report

VIA C3 Eden 733MHz CPU

Release Date: Aug. 29, 2003

08-29-2003	**Wayne Chang**	**Rex Chang**
Issue Stamp	**A.V.P**	**Test Engineer**

Thermal Image Analysis

Ⅰ. **Model Name: GENE-6310 Rev.B1.0 (BIOS:B1.0)**

Ⅱ. **Description: Low-power SubCompact Board.**

Ⅲ. **Date: Aug. 28, 2003**

Ⅳ. Measure **Site: AAEON DV Dept.**

Ⅴ. **Issued by : Rex Chang**

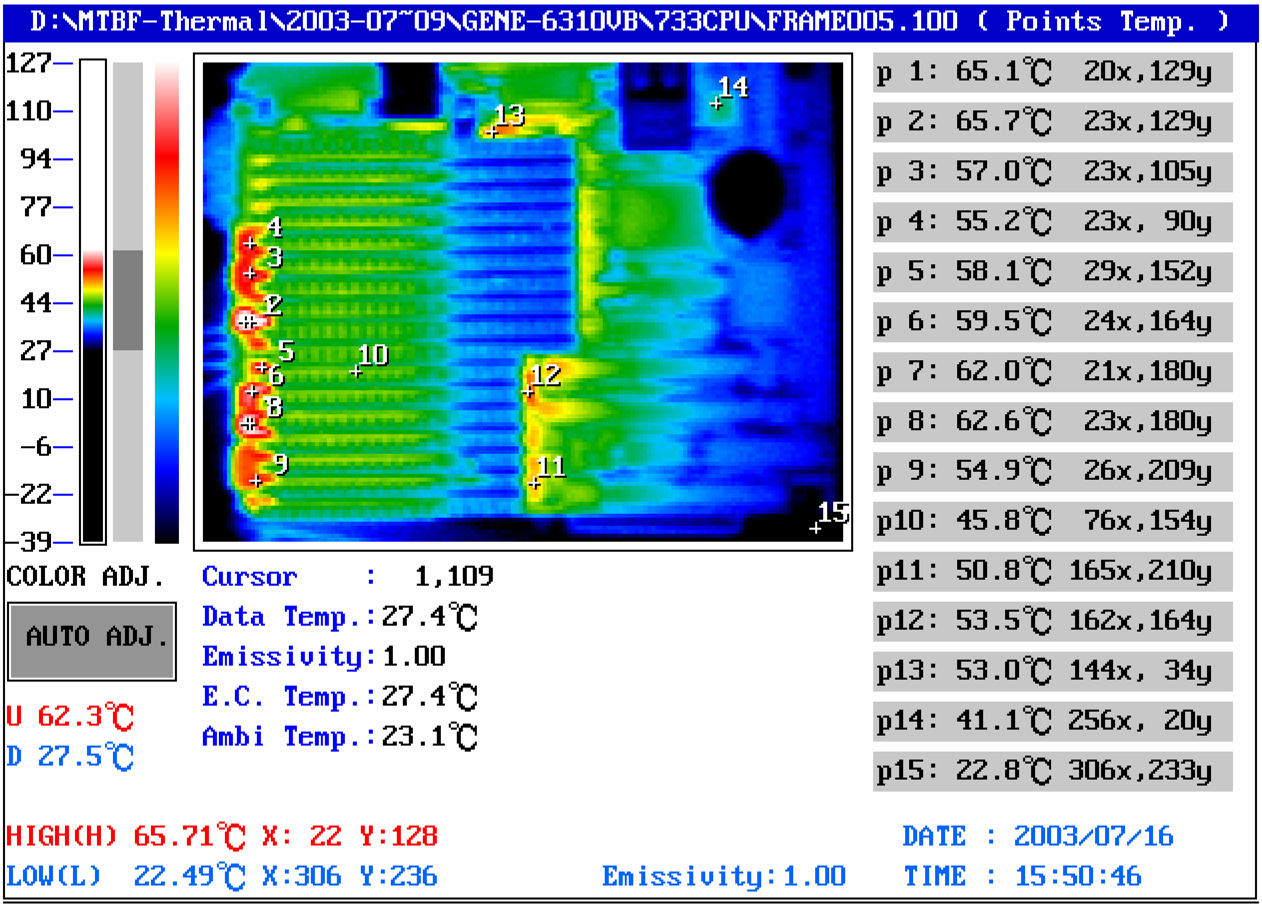
Ⅵ.**Equipment : TVS-100 IR Thermal Tester**

Ⅶ. **Simulation Environment:**

- **Temperature: 22.8 degrees C**
- **CPU: Onboard VIA C3 Eden 733MHz CPU**
- **RAM: KINGMAX KSV684T4A2C-07 256MB SODIMM (PC-133)**
- **HDD : Maxtor D540X-4G 160GB ATA/133**
- **Application Software: Windows XP / HCT9.5**
- **Take Picture Time: Power on 4 hours after**

Temperature Profile Test:

Component Side:



```
D:\MTBF-Thermal\2003-07~09\GENE-6310VB\733CPU\FRAME005.100 ( Points Temp. )

p 1: 65.1℃  20x,129y
p 2: 65.7℃  23x,129y
p 3: 57.0℃  23x,105y
p 4: 55.2℃  23x, 90y
p 5: 58.1℃  29x,152y
p 6: 59.5℃  24x,164y
p 7: 62.0℃  21x,180y
p 8: 62.6℃  23x,180y
p 9: 54.9℃  26x,209y
p10: 45.8℃  76x,154y
p11: 50.8℃ 165x,210y
p12: 53.5℃ 162x,164y
p13: 53.0℃ 144x, 34y
p14: 41.1℃ 256x, 20y
p15: 22.8℃ 306x,233y

Cursor      :  1,109
Data Temp.:27.4℃
Emissivity:1.00
E.C. Temp.:27.4℃
Ambi Temp.:23.1℃

U 62.3℃
D 27.5℃

HIGH(H) 65.71℃ X: 22 Y:128                      DATE : 2003/07/16
LOW(L)  22.49℃ X:306 Y:236      Emissivity:1.00  TIME : 15:50:46
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Picture 1

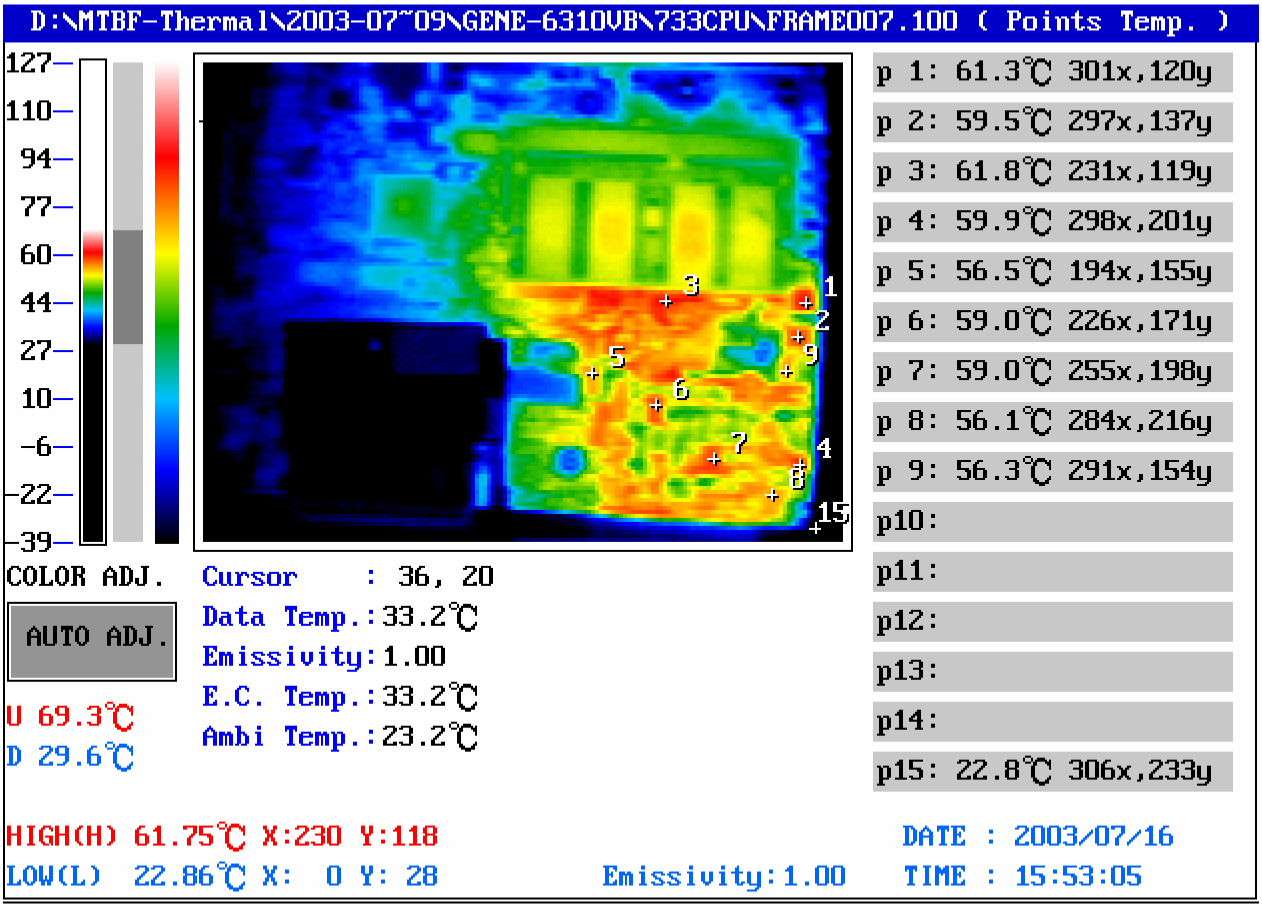
Point	Position	TVS-100 IR Thermal Tester
1	Q9	65.1℃
2	Q10	65.7℃
3	L66	57.0℃
4	C221	55.2℃
5	D12	58.1℃
6	C216	59.5℃
7	Q8	62.0℃
8	Q6	62.6℃
9	L65	54.9℃
10	U2/U12	45.8℃
11	U1	50.8℃
12	U3	53.5℃
13	U11	53.0℃
14	U14	41.1℃
15	The Room Temperature	22.8℃

1. Operation Temperature (℃):

Ts = Defined by component specification ; Tm = Measured by DV65

Temperature Profile Test:

Solder Side:



D:\MTBF-Thermal\2003-07~09\GENE-6310VB\733CPU\FRAME007.100 (Points Temp.)

p 1:	61.3℃ 301x,120y
p 2:	59.5℃ 297x,137y
p 3:	61.8℃ 231x,119y
p 4:	59.9℃ 298x,201y
p 5:	56.5℃ 194x,155y
p 6:	59.0℃ 226x,171y
p 7:	59.0℃ 255x,198y
p 8:	56.1℃ 284x,216y
p 9:	56.3℃ 291x,154y
p10:	
p11:	
p12:	
p13:	
p14:	
p15:	22.8℃ 306x,233y

Cursor : 36, 20
Data Temp.:33.2℃
Emissivity:1.00
E.C. Temp.:33.2℃
Ambi Temp.:23.2℃

U 69.3℃
D 29.6℃

HIGH(H) 61.75℃ X:230 Y:118
LOW(L) 22.86℃ X: 0 Y: 28
Emissivity:1.00
DATE : 2003/07/16
TIME : 15:53:05

Picture 2

Point	Position	TVS-100 IR Thermal Tester
1	Q7	61.3℃
2	C137	59.5℃
3	U12	61.8℃
4	U27	59.9℃
5	C209	56.5℃
6	C93	59.0℃
7	C104	59.0℃
8	C215	56.1℃
9	D12	56.3℃
10		
11		
12		
13		
14		
15	The Room Temperature	22.8℃

1. Operation Temperature (℃):

Ts = Defined by component specification ; Tm = Measured by DV