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

Gene-5310
Thermal Image Analysis Report

Release Date：AUGUST. 22. 2001

Issue Stamp	QA Manager	QE Manager	Test Engineer

Thermal Image Analysis

Ⅰ. **Model Name: Gene-5310 Rev.A1.1 BIOS.A1.2 07/31/2001**

Ⅱ. **Description: Intel Low-power SubCompact Board With LCD, LVDS, Dual Ethernet, Compact Flash, TV-out, & Audio**

Ⅲ. **Date: AUGUST. 22, 2001**

Ⅳ. Measure **Site: AAEON QE Dept.**

Ⅴ. **Issued by : Joe Huang**

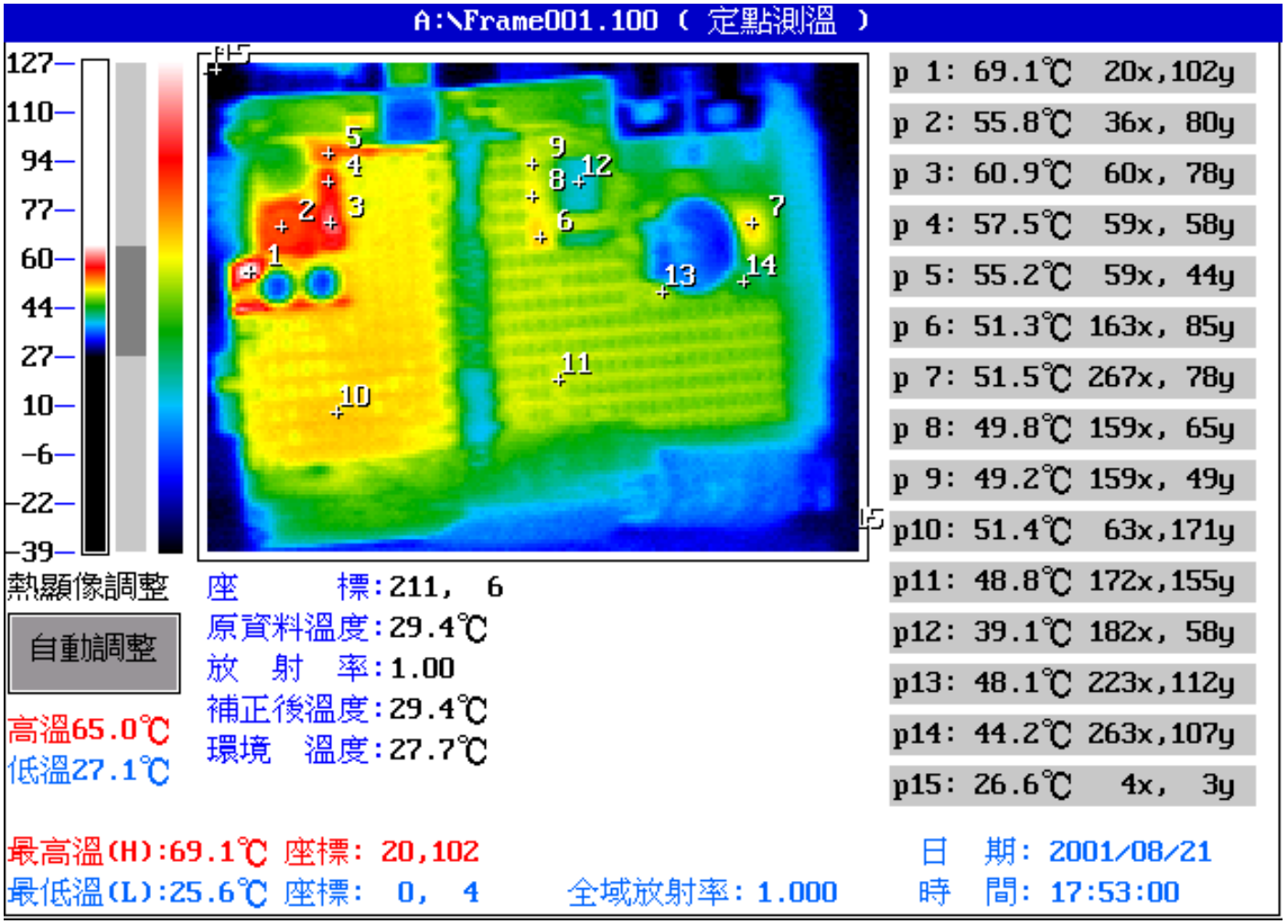
Ⅵ.**Equipment: TVS-100 series by NIPPON AVIONICS CO., LTD.**

Ⅶ. **Simulation Environment:**

- **Temperature: 27.9 degrees C**
- **CPU: Intel Tillamook BGA MMX 266**
- **RAM: 128 MB 100MHz**
- **Hardware: IBM DTLA-307045 46.1GB 7200RPM**
- **Application Software: 3Dmark2000**
- **Take Picture Time: Power on 30 minutes after**

Temperature Profile Test:

Component Side:

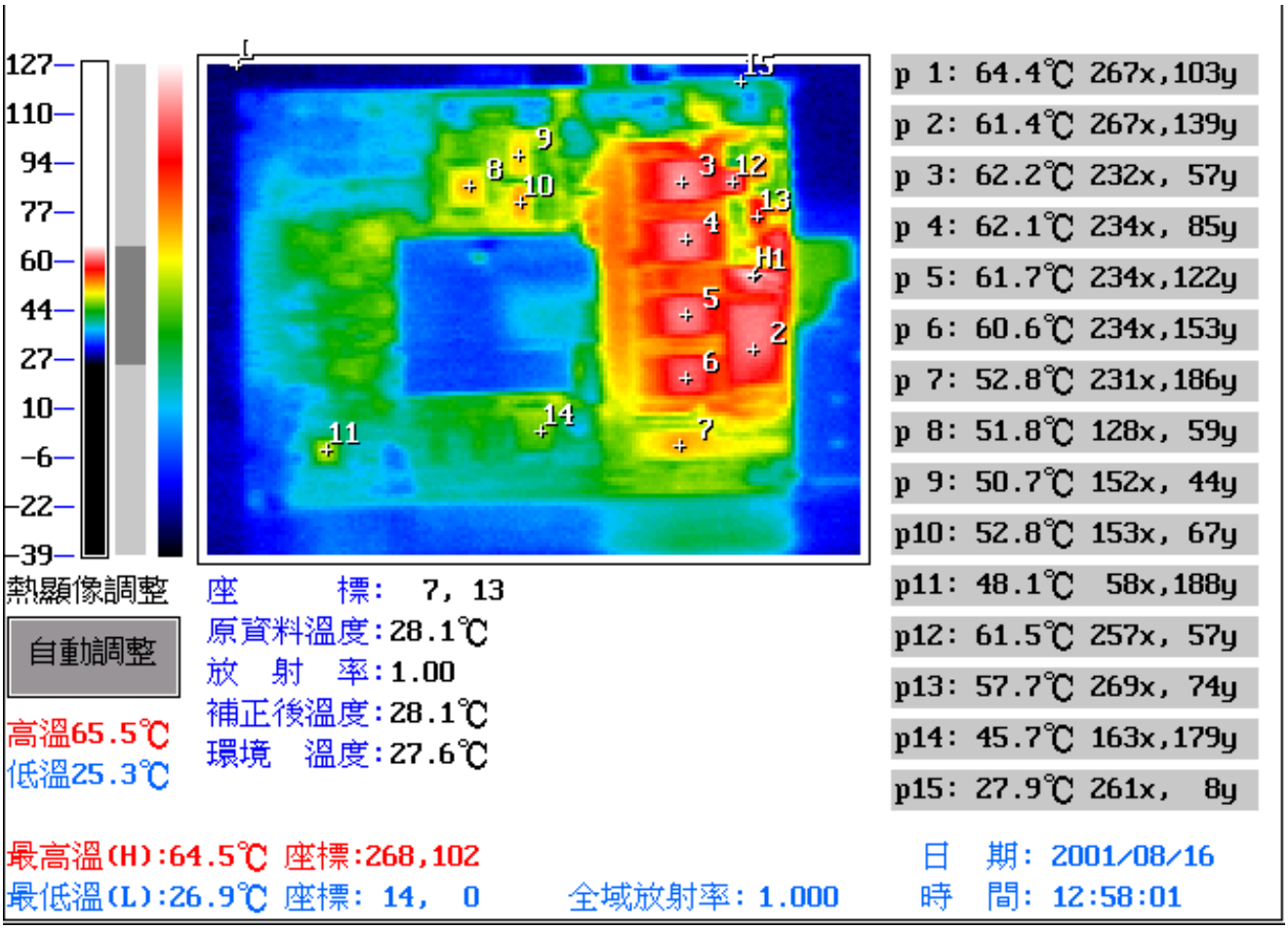


Point	Position	Describe	Ts	Tm	Note
1		Open space		69.1℃	
2	L16	2R4 JON3		55.8℃	
3	D4	SK32B		60.9℃	
4	C24	330u		57.5℃	
5		Open space		55.2℃	
6	U2	74LVC07AD		51.3℃	
7	U20	82559ER		51.5℃	
8	U5	HCT245D0556K		49.8℃	
9	U30	HCT245D0556K		49.2℃	
10		Left Heat Sink		51.4℃	
11		Right Heat Sink		48.8℃	
12	U3	M29F002BT 70K6		39.1℃	
13	U19	93LC46B		48.1℃	
14	U21	93LC46B		44.2℃	
15		The Room Temperature		26.6℃	

1. Operation Temperature (℃):
   Ts = Defined by component specification ; Tm = Measured by QE
2. ※ = Ts - (Tm + 60 - 25)

Temperature Profile Test:

Component Side:



Point	Position	Describe	Ts	Tm	Note
1		OPEN SPACE		64.4℃	
2	U28	EliteMT LP61G6464BF-5		61.4℃	
3	DIMM1	NEC D45128163G5-A80-9JF/ PC100 128MB		62.2℃	
4	DIMM1	NEC D45128163G5-A80-9JF/ PC100 128MB		62.1℃	
5	DIMM1	NEC D45128163G5-A80-9JF/ PC100 128MB		61.7℃	
6	DIMM1	NEC D45128163G5-A80-9JF/ PC100 128MB		60.6℃	
7	U29	EliteMT LP61L256AS-8		52.8℃	
8	U7	ALTERA EPM7032		51.8℃	
9	U9	HIN 213ECA		50.7℃	
10	U6	OL46 LS125A		52.8℃	
11	U22	VIA VT1611A		48.1℃	
12	D5	039 BIO 35CL		61.5℃	
13	CT5	107A M24YU		57.7℃	
14	U24	Trident TVXpress		45.7℃	
15		The Room Temperature		27.9℃	

1. Operation Temperature (℃):

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

2. ※ = Ts - (Tm + 60 - 25)