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

SBC-675
Thermal Image Analysis Report

Release Date:JAN.08, 2001

Issue Stamp

QA Manager

QE Manager

Test Engineer

Thermal Image Analysis

Ⅰ. **Model Name:** **SBC-675 Rev.B0.1**

Ⅱ. **Description:** **Socket 370 Full-size CPU Card with LCD, Ethernet, High Drive, & SSD**

Ⅲ. **Date:** **JAN. 08, 2001**

Ⅳ. **Measure Site:** **AAEON QE Dept.**

Ⅴ. **Issued by :** **Kuochen Huang**

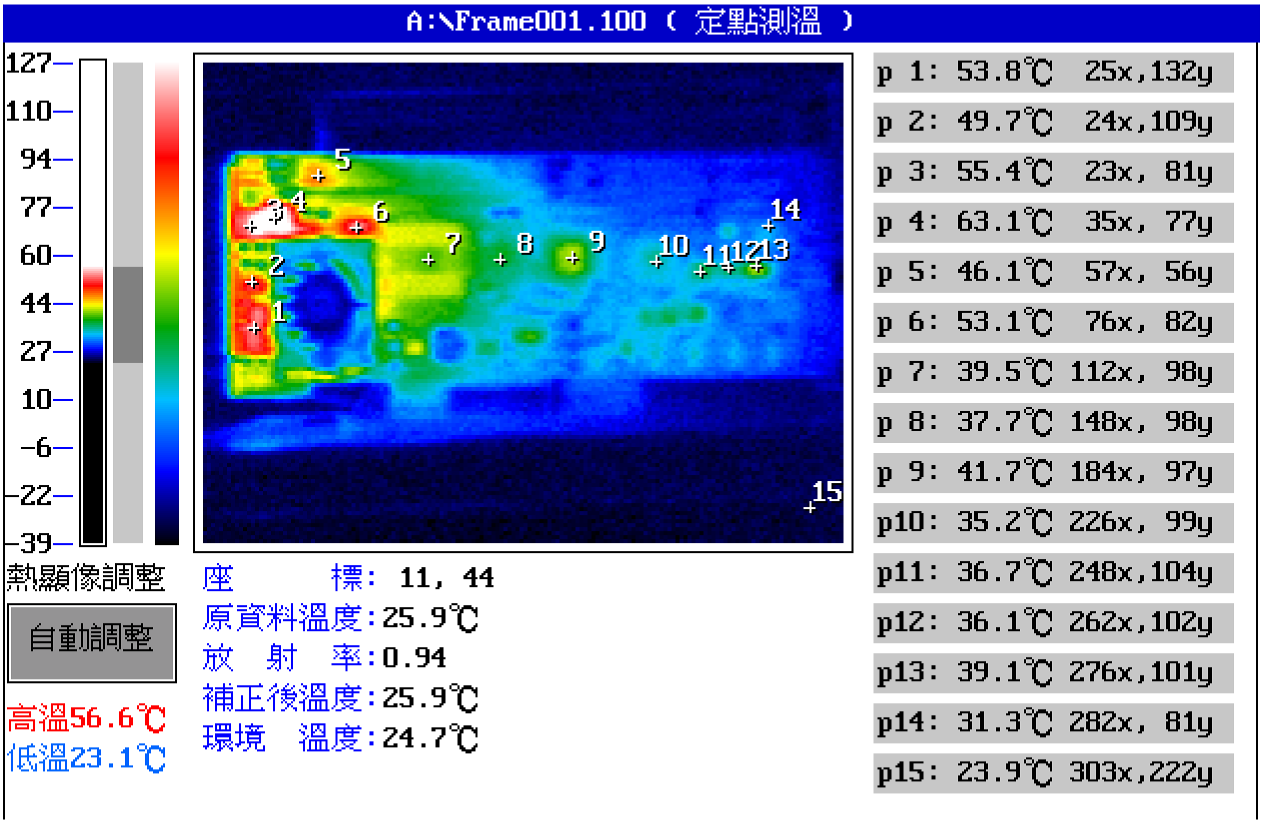
Ⅵ.**Equipment:** **TVS-100 series by NIPPON AVIONICS CO., LTD.**

Ⅶ. **Simulation Environment:**

- **Temperature: 23.9 degrees C**
- **CPU: Pentium III 700MHz/100MHz**
- **RAM: 64 MB**
- **Hardware: DiskOnChip**
- **Application Software: QAPLUS/FE V5.5**
- **Take Picture Time: Power on 30 minutes after**

Temperature Profile Test:

Component Side:



A:\Frame001.100 (定點測溫)

熱顯像調整

高溫56.6℃
低溫23.1℃

座　標: 11, 44
原資料溫度:25.9℃
放 射 率:0.94
補正後溫度:25.9℃
環境 溫度:24.7℃

p 1: 53.8℃ 25x,132y
p 2: 49.7℃ 24x,109y
p 3: 55.4℃ 23x, 81y
p 4: 63.1℃ 35x, 77y
p 5: 46.1℃ 57x, 56y
p 6: 53.1℃ 76x, 82y
p 7: 39.5℃ 112x, 98y
p 8: 37.7℃ 148x, 98y
p 9: 41.7℃ 184x, 97y
p10: 35.2℃ 226x, 99y
p11: 36.7℃ 248x,104y
p12: 36.1℃ 262x,102y
p13: 39.1℃ 276x,101y
p14: 31.3℃ 282x, 81y
p15: 23.9℃ 303x,222y

Point	Position	Describe	Ts	Tm	Note
1	Q3	PHB 50N03LT PHm0009E4	175℃	53.8℃	
2	L18	27H/20A		49.7℃	
3	U3	0019 LTC1753CG N12200	150℃	55.4℃	
4	Q1	AMS 1083CM 0017	150℃	63.1℃	
5	DIM1	NEC JAPAN D4564841G5-A08-9JF 9927L5W323		46.1℃	
6	U2	W40S01-04H B025 1018TD	70℃	53.1℃	
7	U6	Intel 82443BX		39.5℃	
8	U35	GD82559 L028LY72		37.7℃	
9	U8	CHIPS B69000B4 0020-b		41.7℃	
10	U9	Intel PCIsot FW82371EB L0071E99 SL37M		35.2℃	
11	U10	14S8416816		36.7℃	
12	U11	P99AK DM74ALS 245AWM		36.1℃	
13	U12	S46 GD75232D		39.1℃	
14	U4	Winbond W83977TF-AW		31.3℃	
15		The Room Temperature		23.9℃	

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