



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

SBC-659

Thermal Image Analysis Report

Release Date: JAN.05, 2001

Issue Stamp

QA Manager

QE Manager

Test Engineer

Thermal Image Analysis

I . Model Name: SBC-659 Rev.A0.1

II . Description: Compact Board with LCD, Ethernet, Audio, &4 COMs

III . Date: JAN. 05, 2001

IV. Measure Site: AAEON QE Dept.

V . Issued by : Kuochen Huang

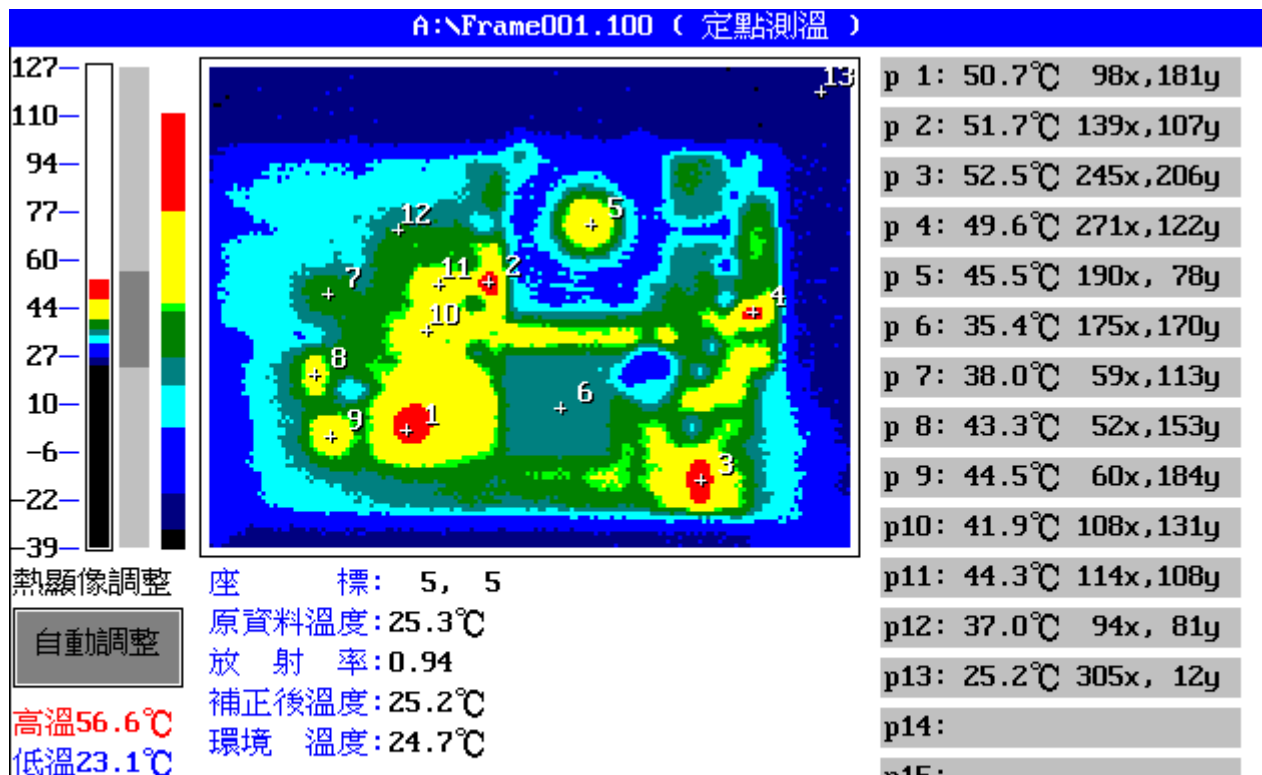
VI.Equipment: TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

- **Temperature: 25.2 degrees C**
- **CPU: Pentium III 1GHz/133MHz**
- **RAM: 64 MB**
- **Hardware: COMPACT 2000 Flash Disk**
- **Application Software: QAPLUS/FE V5.5**
- **Take Picture Time: Power on 30 minutes after**

Temperature Profile Test:

Component Side:



Point	Position	Describe	Ts	Tm	Note
1	U4	FW82801BA L022TA35 SL45H	109°C	50.7°C	
2	Q1	MC78L U5ACP	125°C	55.9°C	
3	U2	9250AF-25 0036 CK020182B		41.9°C	
4	L2	1uH WIRE SIZE		49.6°C	
5	U1	Pentium III 1GHz/133MHz		45.5°C	
6	U3	INTEL 815 FW82815 F024ID35 SL4DF		35.4°C	
7	U14	IT8712F-A 9943-DXS MA3070		38.0°C	
8	U18	DA82562ET L0273A01		43.3°C	
9	U26	GD82559 L0331H08		44.5°C	
10	U7	N82802AB8 A0260245		41.9°C	
11	U9	ALC200 09067T1 038D		44.3°C	
12	U10	EM04AG LM4863M		37.0°C	
13		The Room Temperature		25.2°C	

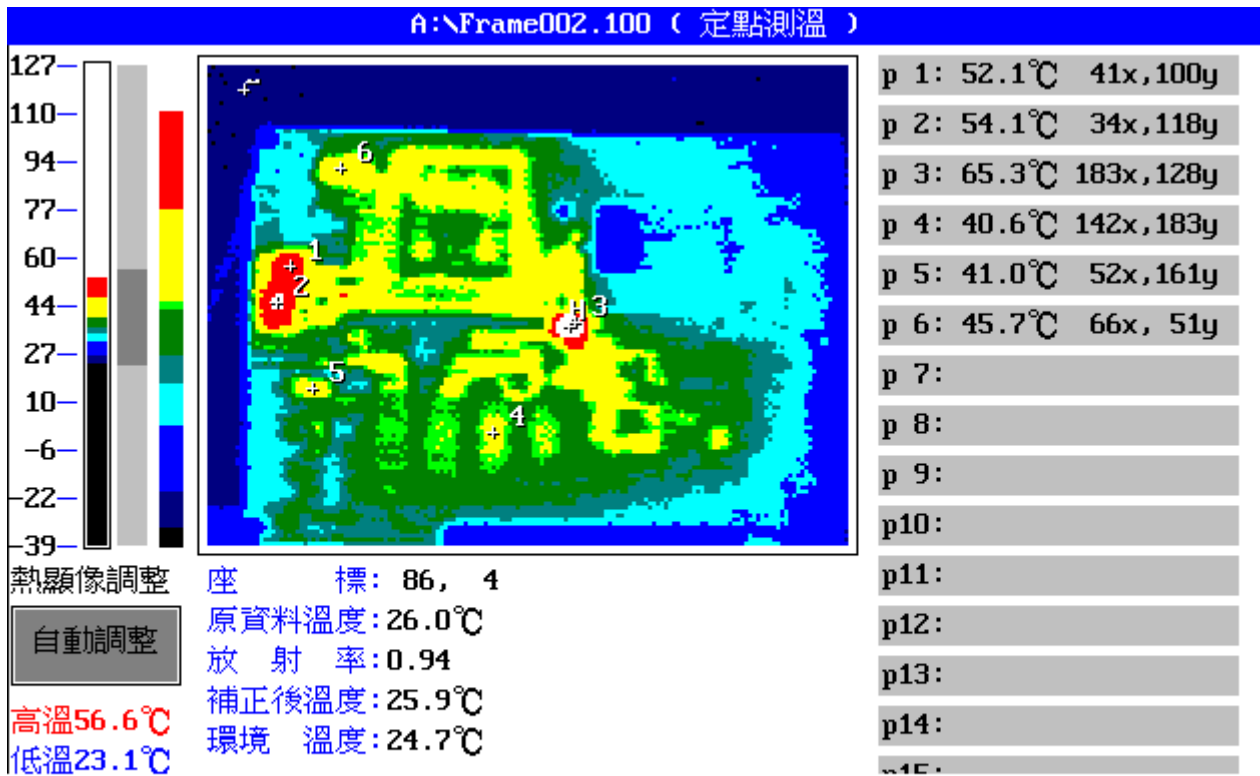
1. Operation Temperature (°C):

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	Q9	6137S H031 AD5	150°C	52.1°C	
2	Q7	6137S H031 AD5	150°C	54.1°C	
3	Q14	76107D H0 44	150°C	65.3°C	
4	DIMM1	NEC D4564163G5-A10-9JF		40.6°C	
5	Q12	96129D H0 36		41.0°C	
6	U23	HIP6021CB H0014CUBYX		45.7°C	

1. Operation Temperature (°C):

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

2. ※ = Ts - (Tm + 60 - 25)