

# HSB-525I

## Thermal Image Analysis Report

Summary	<input checked="" type="checkbox"/> <b>Pass</b>			
	<input type="checkbox"/> <b>Fail</b>			
<input type="checkbox"/> <b>Pass with Deviation</b>				
<b>Comment:</b> _____				
Test Result Summary				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date	Approval	Test Engineer
_____	_____	_____
2011 / 05 / 10	Jansin Lee	Clement Chien

## Sample Configuration & Quantity Under Test

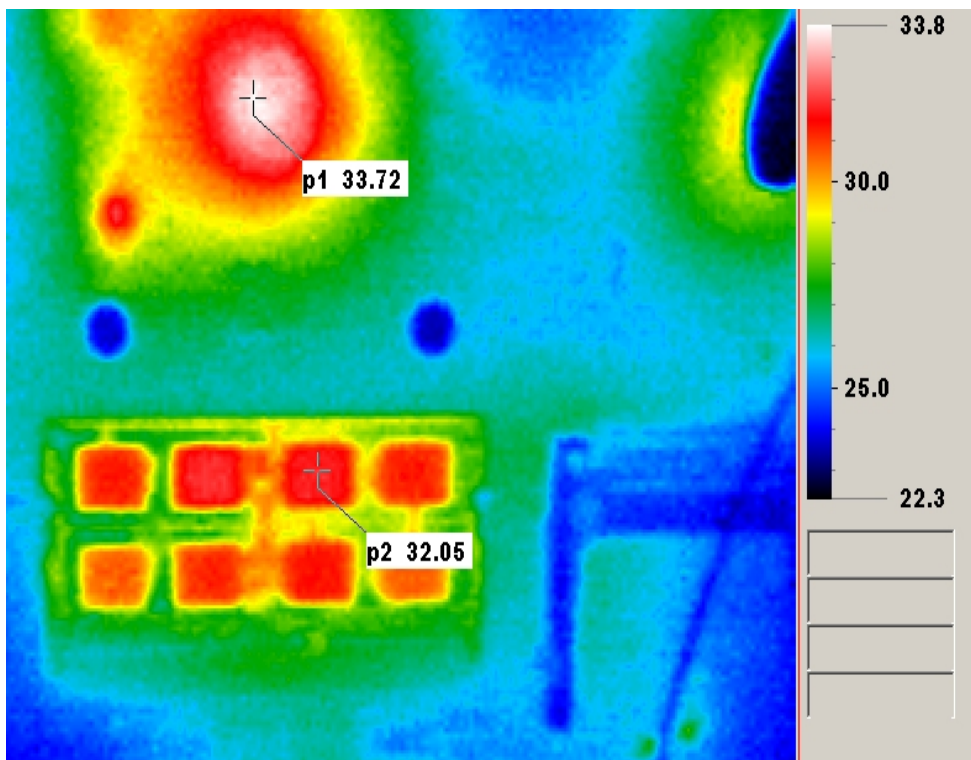
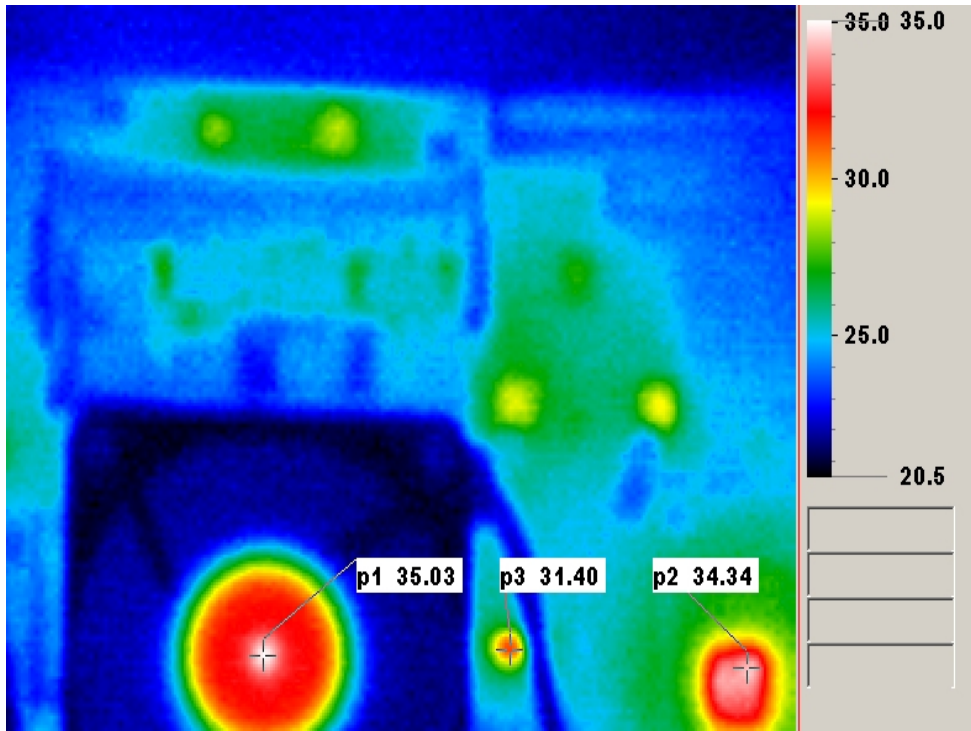
- **Model name : HSB-525I A0.2**
- **CPU Board : HSB-525I A0.2**
- **CPU : Onboard Intel Atom Dual Core D525 / 1.80GHz**
- **Chipset : Intel Atom D525 / ICH8M**
- **Memory : DSL DDR3 1066 2GB-CL7-ELPIDA J1108BDSE-DJ-F**
- **HDD : TOSHIBA SATA 2.5" 160G-MK1665GSX**
- **BIOS : H525I 0.05X64**
- **Test Software : Windows XP sp3 / Run Prime95 v25.6.2**
- **Power : AT Power**
- **Cooler:**

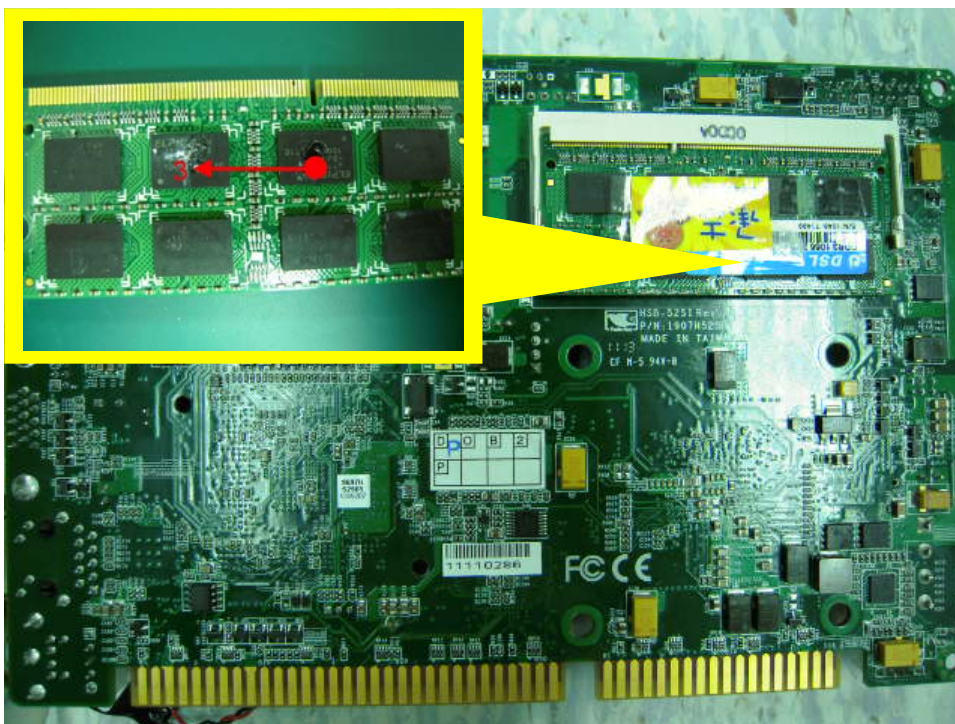
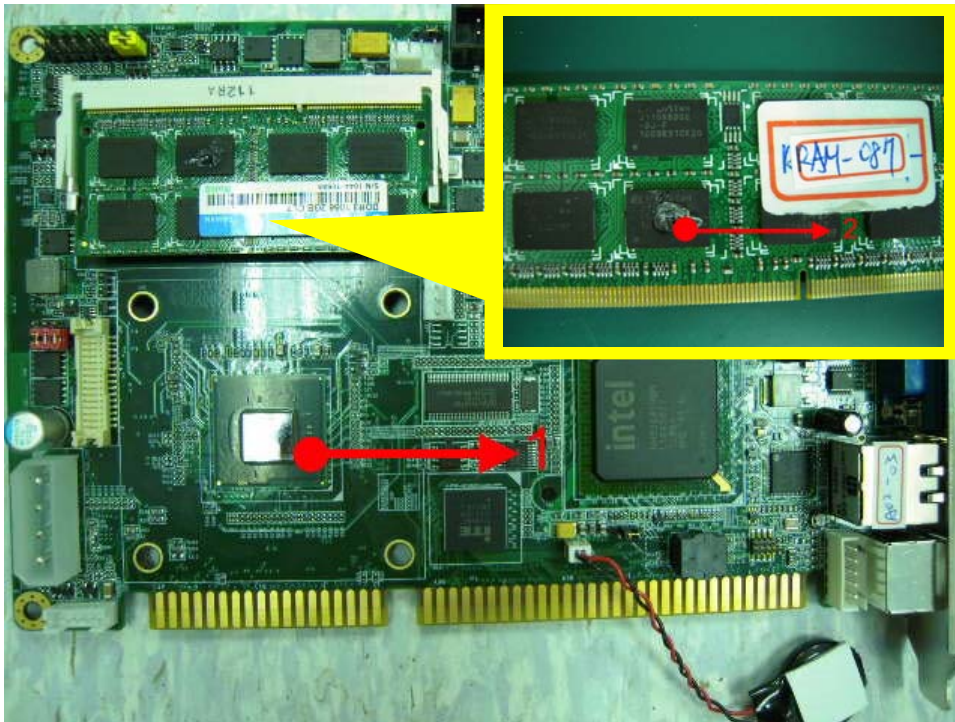


## Thermal Image Analysis

1. Test Date: 2011-05-06
2. Test Product : HSB-525I A0.2
3. Test Site: AAEON Internal Lab.
4. Temperature Measurement:
  1. YOKOGAWA / DARWIN DA100-100-13-1D
  2. IR Scanner: Infrared Camera  
NIPPON AVIONICS CO., LTD.  
Model: TVS-100  
Date of Calibration: 2010/08/10  
Serial Number: 0179L2746
5. Test Condition:  
Component Side-1 (Test by DA-100 ): 22.5°C With cooler
6. Take Picture Time:  
After power on 2 hours

### Temperature Profile Test:





**Using YOKOGAWA / DARWIN DA100-100-13-1D test**

Point	Position	Describe	Tc (*1) (°C)	Tm (*2) Measured Under		Note
				22.5°C	60°C	
1	U18	(TF)Intel CPU.Pinetrail D.DUAL CORE.D525.1.80GHz	100	38.5	76.0	
2	Memory	DSL DDR3 1066 2GB-CL7-ELPIDA J1108BDSE-DJ-F	95	28.1	65.6	
3	Memory	DSL DDR3 1066 2GB-CL7-ELPIDA J1108BDSE-DJ-F	95	36.2	73.7	

**Note(\*):**  
**1. "Tc"** indicates the component's case maximum temperature value specified in its datasheet.  
**2. "Tm"** indicates the measured Tc value under working environmental temperature within product specification.  
**3. Judgment Criteria:**  
**- Fail** :  $T_m > T_c + 5^{\circ}\text{C}$ ; The measured value is over specification plus margin.  
**- Margin** :  $T_c + 5^{\circ}\text{C} > T_m > T_c - 10^{\circ}\text{C}$ ; The measured value is within specification with margin.  
For FANLESS system application, it is strongly recommended to add thermal dissipation design for better reliability.  
**- Pass** :  $T_m < T_c - 10^{\circ}\text{C}$ ; The measured value is with safety margin.