

PCM-5895B

Compact Board

Thermal Image Analysis Report

Report NO: 08E080032

Release Date: 09/15/2008

2008/09/15

Issue Stamp

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Manager

Danny Chen

Test Engineer

Thermal Image Analysis

I . Model Name: PCM-5895B

II . Description: Compact Board

III . Date: 2008/09/15

IV. Measure Site: AAEON QE Dept.

V. Issued by : Danny Chen

VI. Equipment:

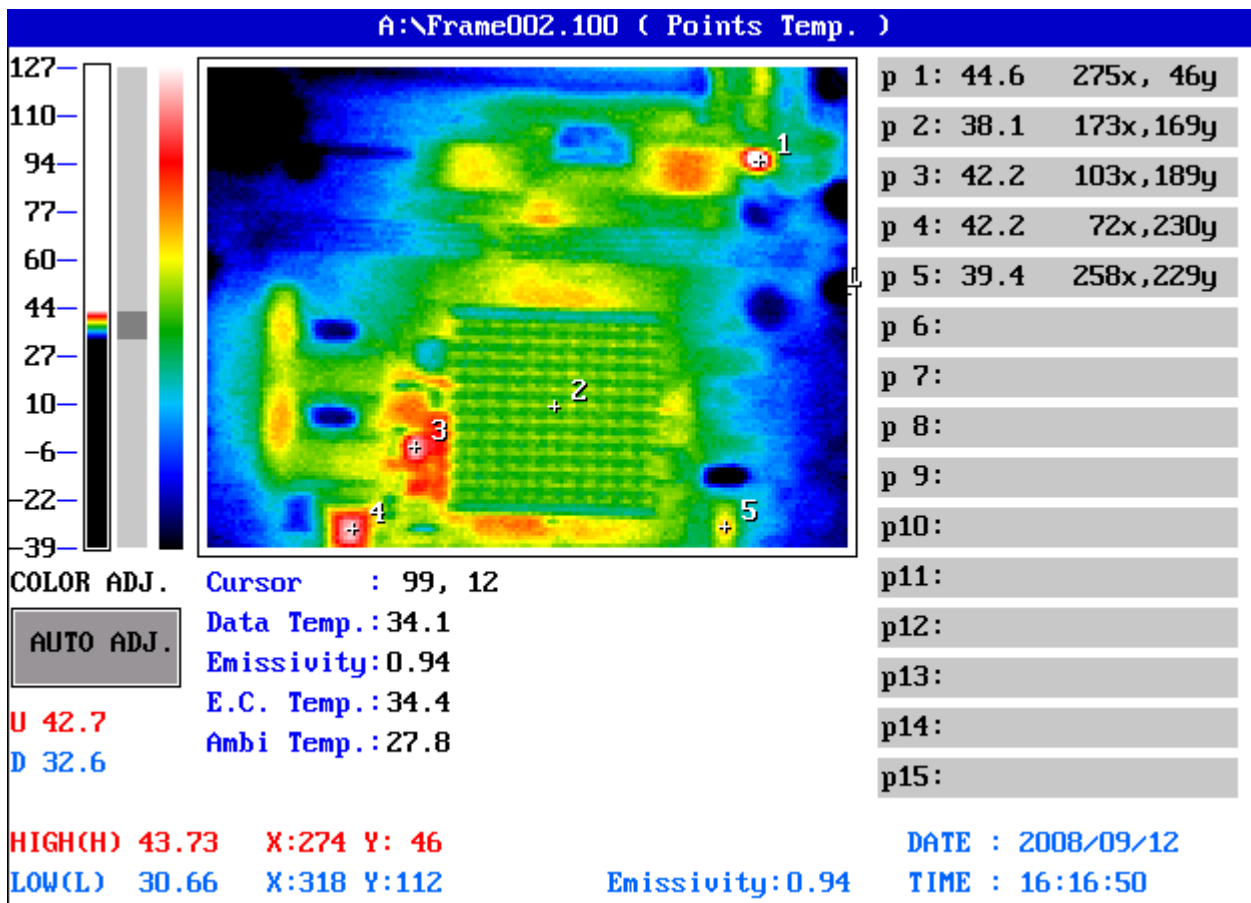
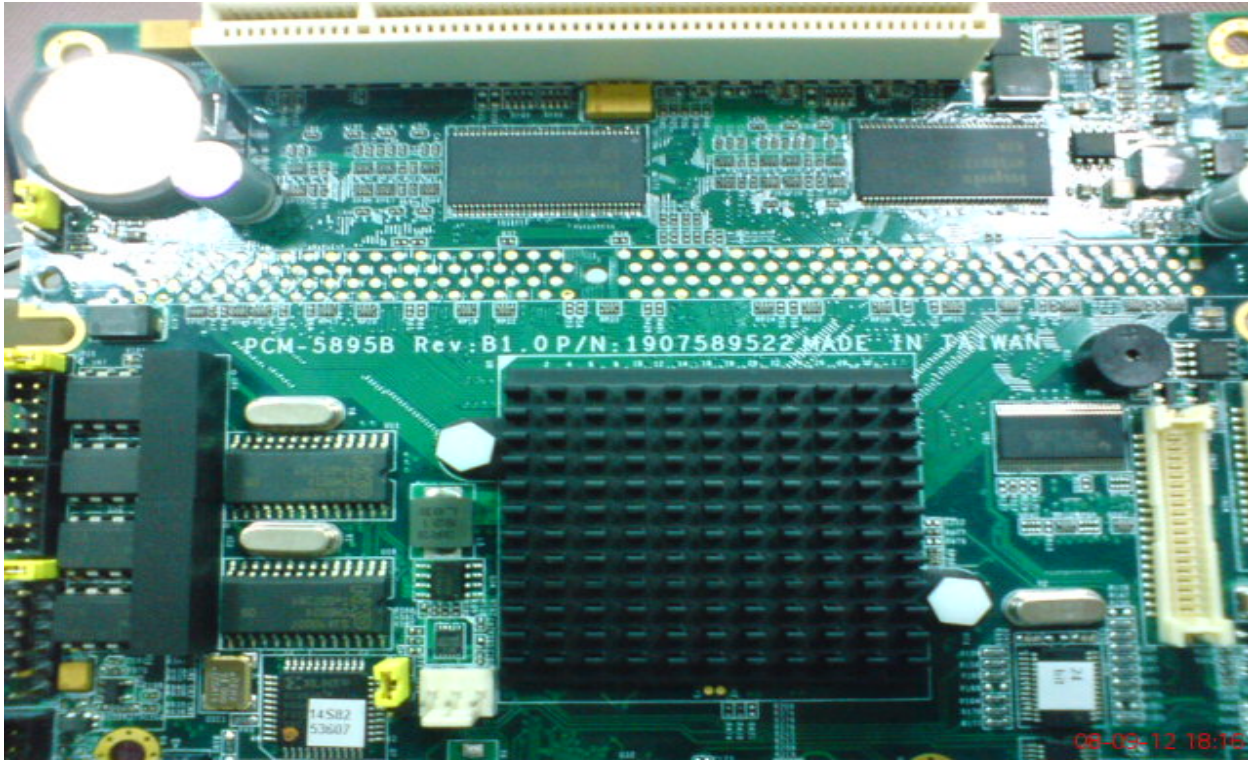
TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

- Temperature: Component Side-1 : 27.8°C & 28.1°C, Component Side-2 : 28.4°C & 27.8°C**
- CPU : AMD Geode LX800 on board**
- RAM : DDR333/400 up to 256MB on board**
- BIOS : PCM-5895B BIOS Rev 1.0 (7/22/2008)**
- CF Card : N/A**
- HDD : Maxtor 82560D3 2.1G**
- Application Software: Run Prime95 under Windows XP Professional V2002 Service Pack 3**
- Take Picture Time: After Power on 2 hours.**

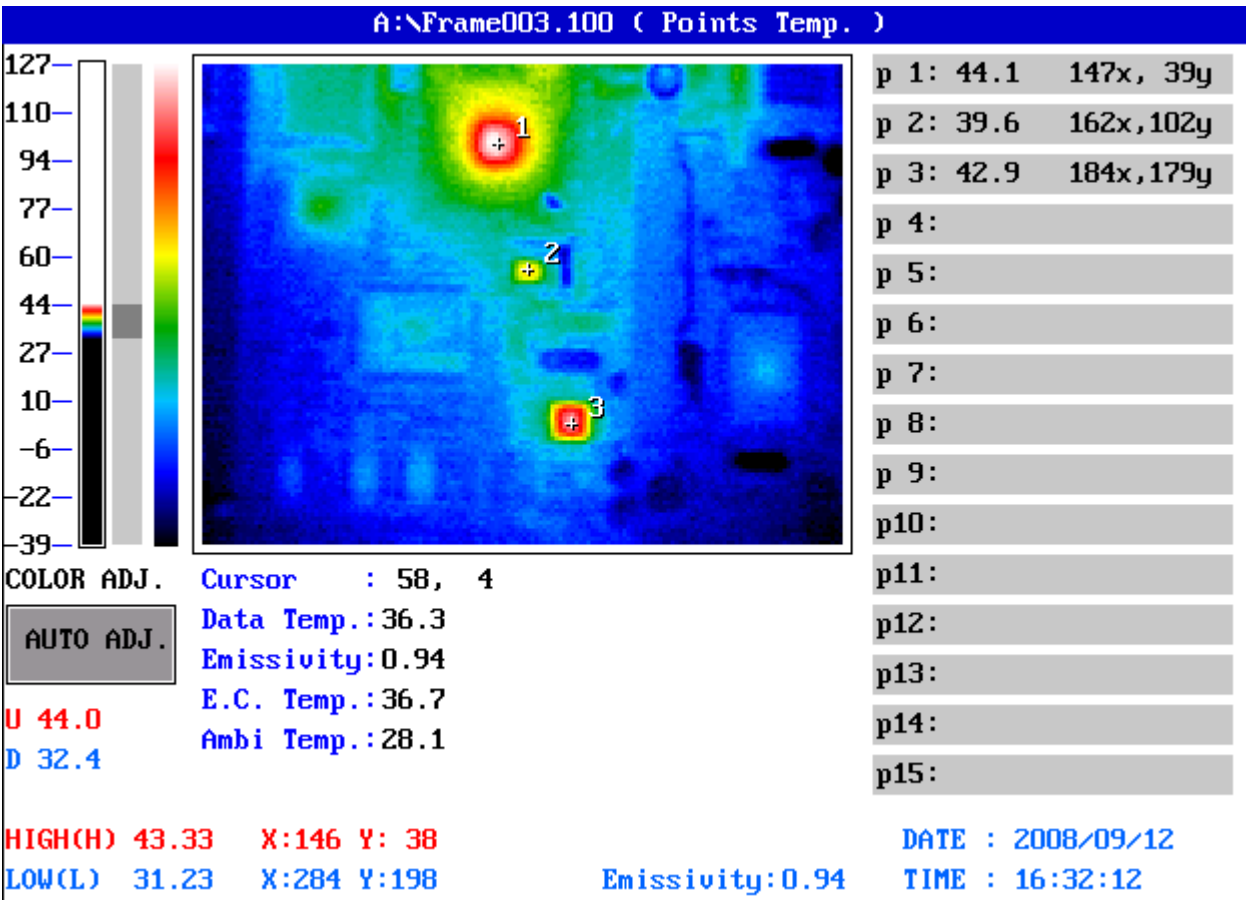
Temperature Profile Test:

Component Side-1:



Point	Position	Describe	Tc (°C)	Tm (27.8°C)	Tm (60°C)	Note
1	U1	(TF)IC.SMD SO8.3A Linear Regulator.Anpec.APL5331KC-TRL	125	44.6	76.8	
2	U6	(TF)AMD CPU.BGU481.LX-800.500MHz.1.25V.AMD.ALXD800EEXJ2VD C3	115	38.1	70.3	
3	Q34	(TF)Dual N-Channel.SO-8.SMD.Vds=30V.Ids=6A.Rds=21/27mohm.Vgs=10/4.5V .ANPEC.APM7313KC-TRL	125	42.2	74.4	
4	U7	(TF)IC.SMD.CPLD VQFP 44P.CS:41F1h.Xilinx.XC9536-15VQG44C	-----	42.2	74.4	
5	U19	(TF)IC.SMD.SSOP28.Clock Generator.ICS.MK1491-09FLN	100	39.4	71.6	

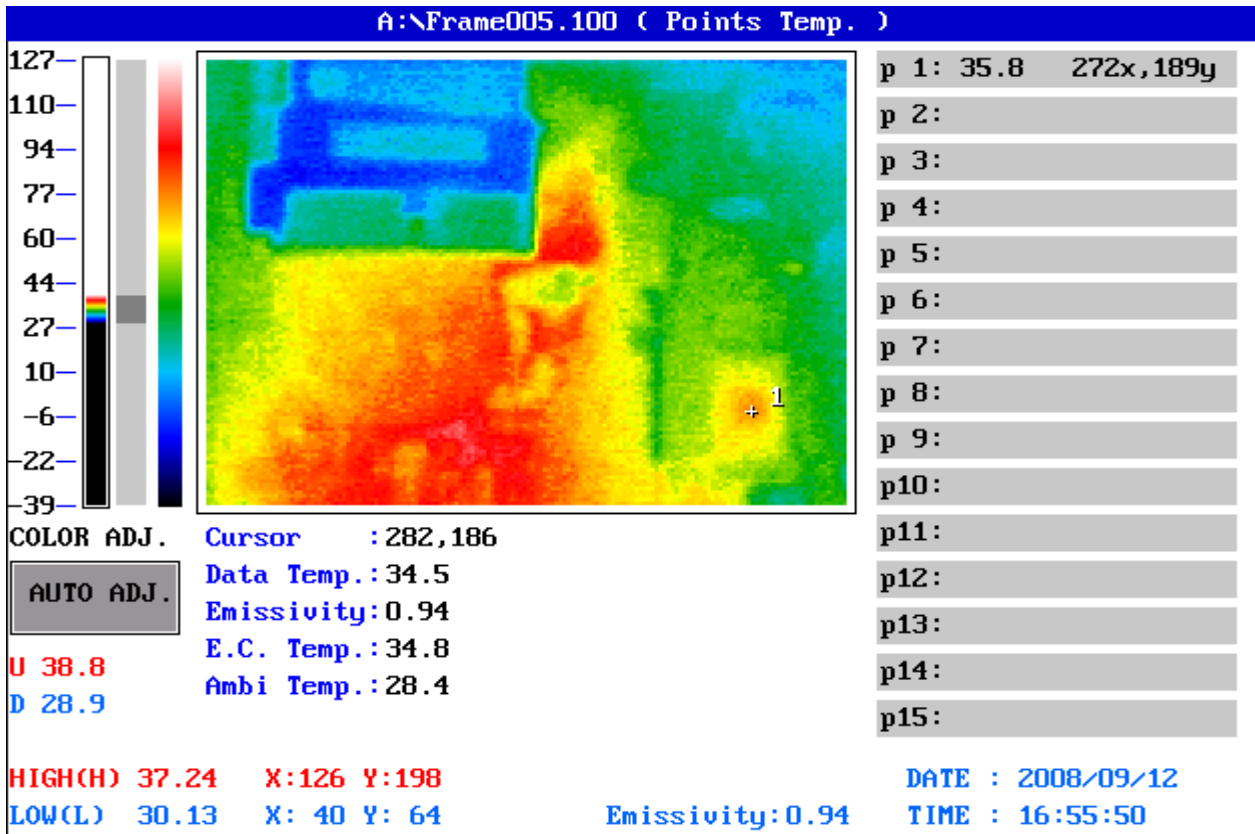
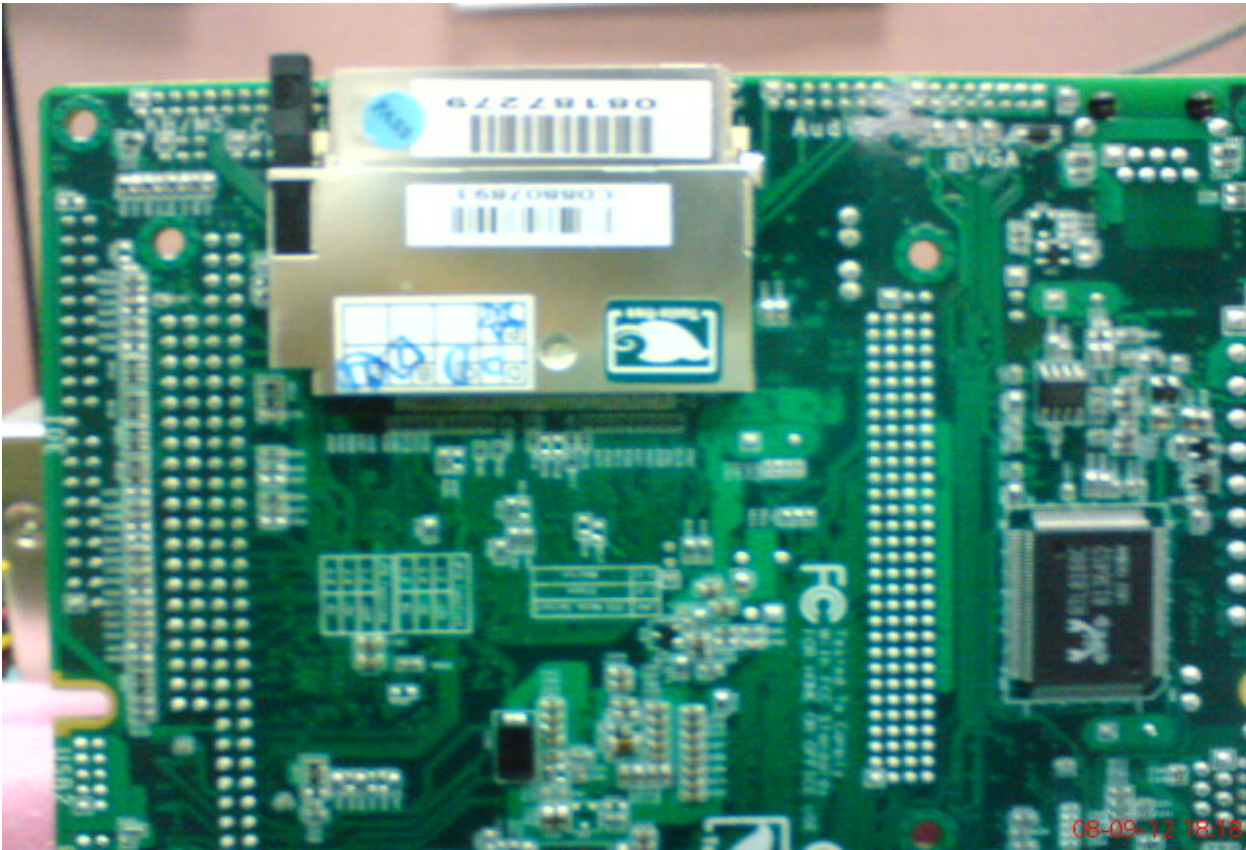
1. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C
2. Any Tm value showed in red words which meaning the value is over the Tc+ 5 degree C of this device specification



Point	Position	Describe	Tc (°C)	Tm (28.1°C)	Tm (60°C)	Note
1	U32	(TF)IC.SMD 208PBGA.I/O Companion.Multi-Function South Bridge.AMD.CS5536AD	110	44.1	76	
2	U29	(TF)IC.SMD SO-8.1.5A.Low Dropout Regulator.Adj(1.2~4.8V).SEMTECH.SC1565IS-TRT	100	39.6	71.5	
3	U42	(TF)IC.SMD.2 Channel Audio Codec.Realtek.ALC203-LF	100	42.9	74.8	
4						
5						
6						
7						

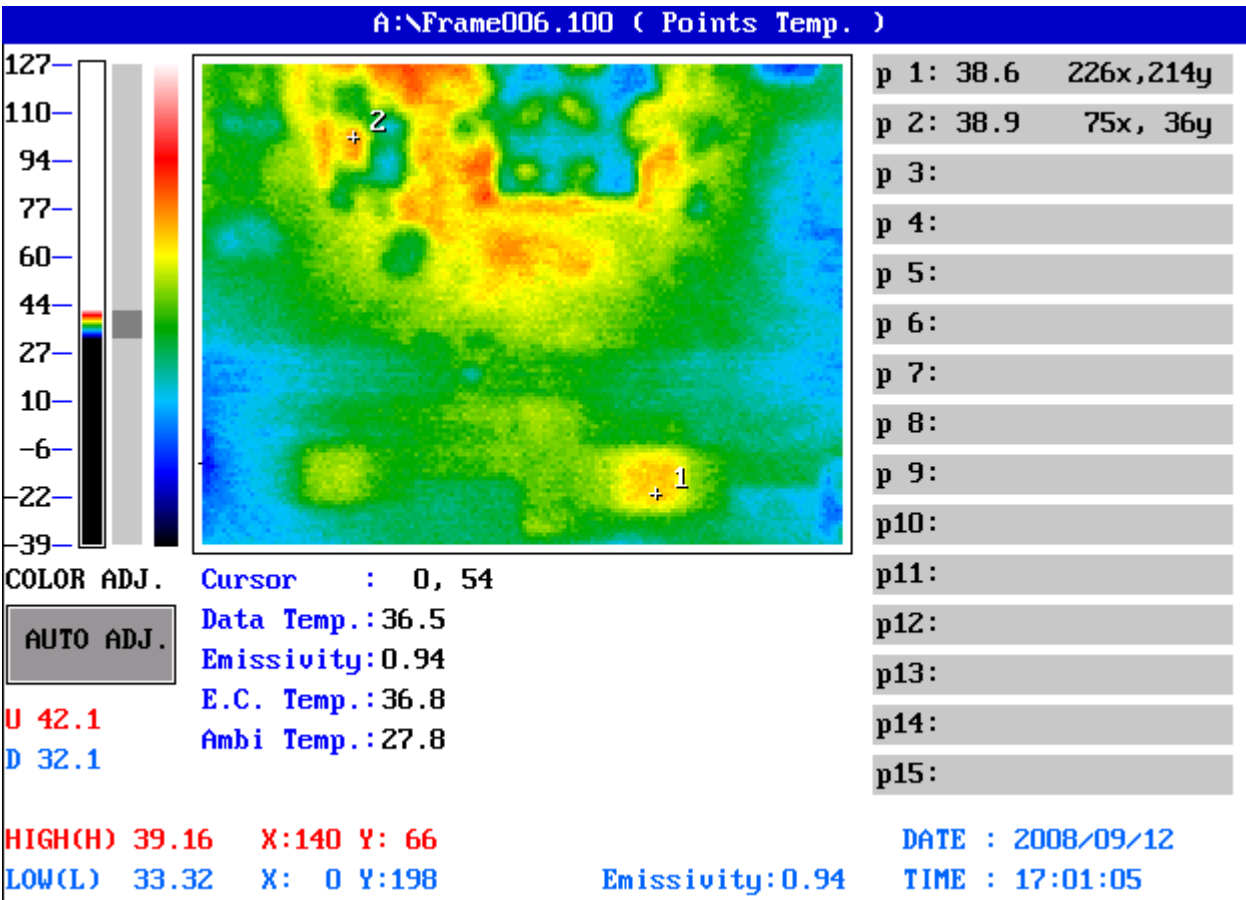
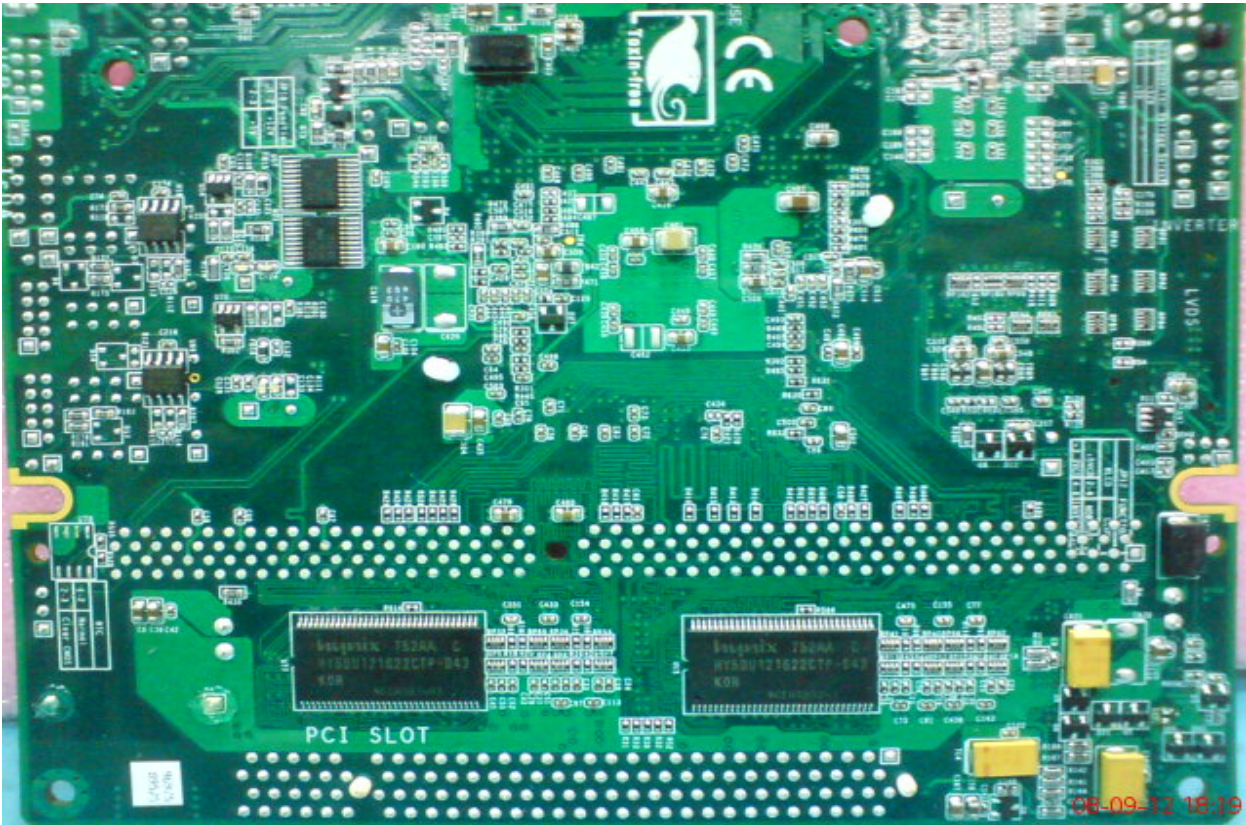
3. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C
 4. Any Tm value showed in red words which meaning the value is over the Tc+ 5 degree C of this device specification

Component Side-2



Point	Position	Describe	Tc (°C)	Tm (28.4)	Tm (60°C)	Note
1	U44	(TF)IC.SMD QFP 128P.PCI Ethernet Chip 10/100BaseT.REALTEK.RTL8100C-LF	100	35.8	67.4	

5. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C
6. Any Tm value showed in red words which meaning the value is over the Tc+ 5 degree C of this device specification



Point	Position	Describe	Tc (°C)	Tm (27.8)	Tm (60°C)	Note
1	U15	(TF)IC.DDR-SDRAM.32M*16(bit).SMD TSOP-II 66 PIN 2.6V.HYNIX.HY5DU121622C(L)TP-D43	-----	38.6	70.8	
2	U17	(TF) IC.SMD TSSOP.20P.TL.SN74HCT245PWR	125	38.9	71.1	
7. Tm (Measured operation temperature) must be less than Tc (Specified case temperature) +5 degree C 8. Any Tm value showed in red words which meaning the value is over the Tc+ 5 degree C of this device specification						