PFM-800P

Intel ULV Celeron M PCI-104 CPU Module

Thermal Image Analysis Report

Report NO: 08E080014

Release Date: June 17, 2008

2008/06/17	*Wenyuan Yang*	*Allen Hsu*
Issue Stamp	**Manager**	**Test Engineer**

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Thermal Image Analysis

Ⅰ. Model Name: PFM-800P Rev A1.1

Ⅱ. Description: Intel ULV Celeron M PCI-104 CPU Module

Ⅲ. Date: 2008/06/17

Ⅳ. Measure Site: AAEON QE Dept.

Ⅴ. Issued by : Allen Hsu

Ⅵ.Equipment:

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

Ⅶ. Simulation Environment:

- **Temperature: Component Side-1 : 25.1℃ , Component Side-2 : 25.5℃**
- **CPU : Intel(R) Celeron(R) M CPU 600MHz/ 1GHz**
- **RAM : Kingston DDR SO-DIMM 333 512Mb**
- **BIOS : PFM-800P BIOS Rev.1.0 (03/07/2008)**
- **CF Card : N/A**
- **HDD : Seagate IDE 2.5” H.D 40G ST940815A**
- **Application Software: Run Prime95 under Windows XP Professional V2002 Service Pack 3**
- **Take Picture Time: After Power on 2 hours.**

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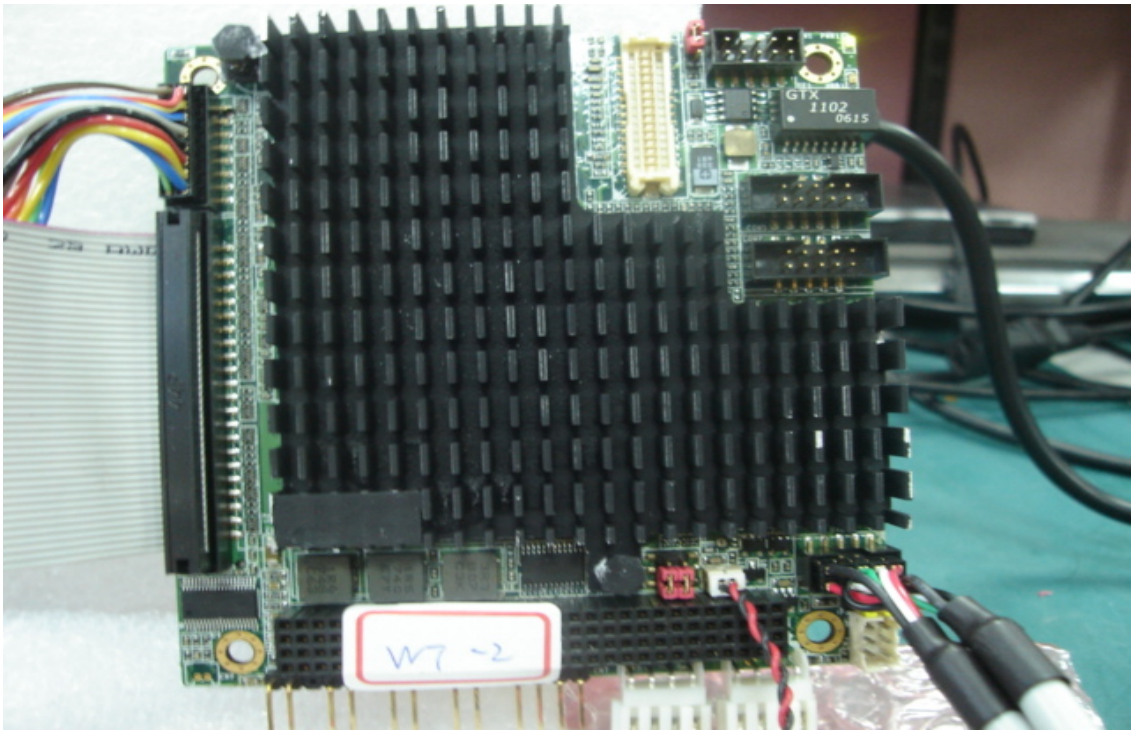
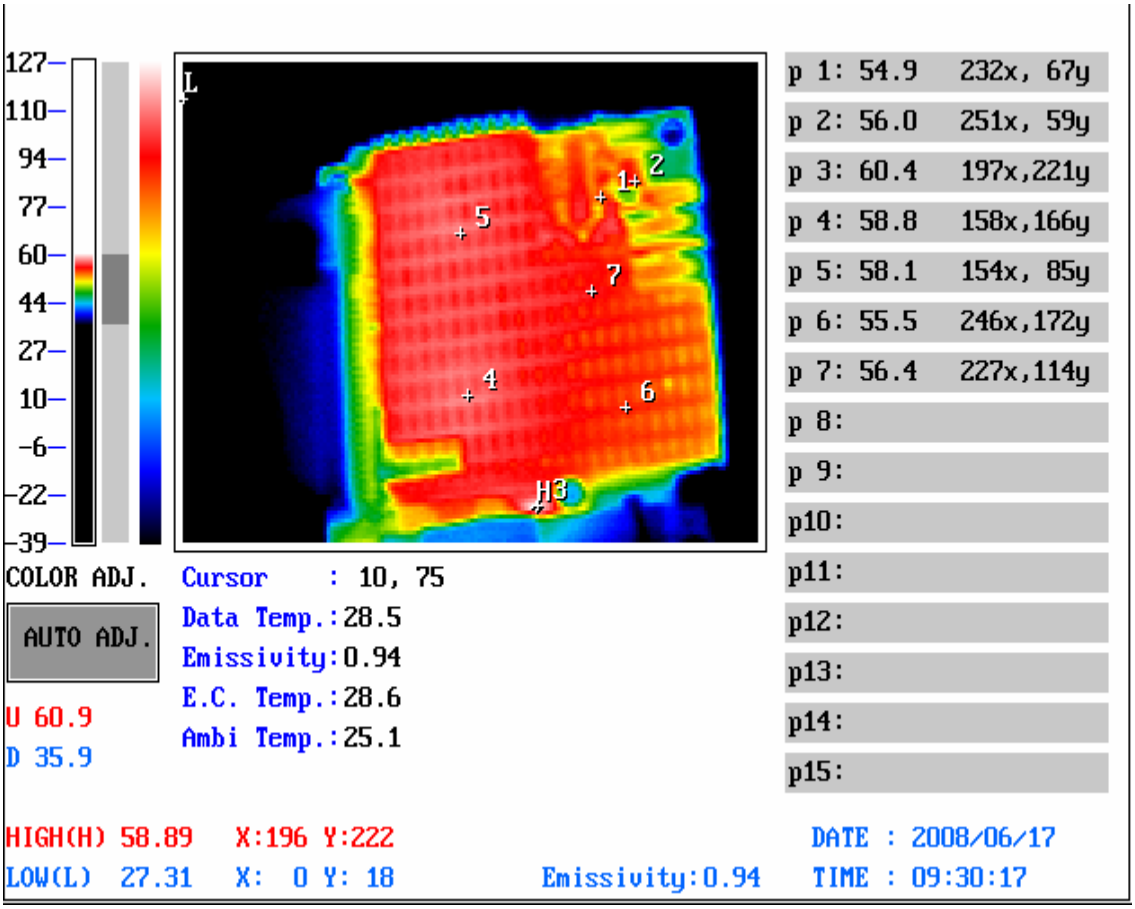
Temperature Profile Test:

Component Side-1:





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Point	Position	Describe	Tc (℃)	Tm (25.1 ℃)	Tm (60℃)	Note
1	C16	(TF)POSCAP.330uF.2.5V.20%.C2(6*3.2*1.8).12mohm.3300mA.SMD.SANYO. 2R5TPE330MCC2	105	54.9	89.8	
2	L1	(TF)COIL.1.0uH.±20%.SMD.4.5x4x2mm.DCR=27m ohm.Idc=4.5Amp.VISHAY.IHLP1616BZER1R0M11	125	56.0	90.9	
3	U8	(TF)IC.SMD.TSSOP.24Pin.Dual PWM Buck and.Linear DDR Power Controller.Anpec.APW7116RE-TRL	125	60.4	97.5	
4	U5	(TF)INTEL CPU.Celeron-M.ULV-600MHz.512K cache.mFCBGA479.LE80535VC600512	75	58.8	93.7	
5	U2	(TF)IC.SMD.BGA732.Chipset.NB82852GM.Intel.JG82852GM-SL7VP	80	58.1	93	
6	U6	(TF)IC.SMD.Chipset ICH4.INTEL.NH82801DB SL8DE;EE-A031271;14S4280106;TWN	75	55.5	90.4	
7	U4	(TF)IC.SMD.TSSOP 56Pin Clock Generator.ICS.ICS950201AGLF	115	56.4	91.3	

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

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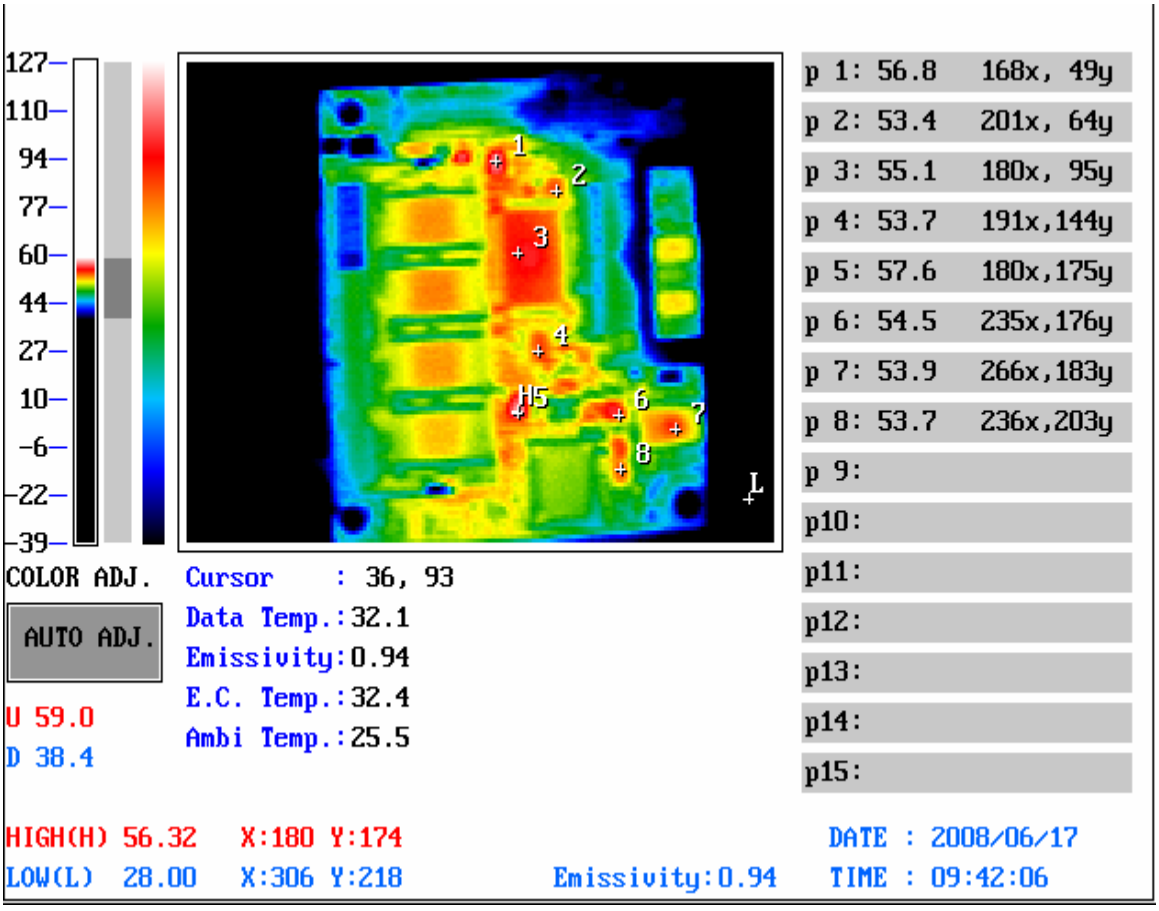
Component Side-2:



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Point	Position	Describe	Tc (℃)	Tm (25.5 ℃)	Tm (60℃)	Note
1	Q15	(TF)Dual N-Channel.SO-8.SMD. Vds=60V.Vgs=(+/-)25V.Ids=7/5A.Rds=21/27mohm.APEC.AP9975GM	125	56.8	91.3	
2	D8	(TF)D Schottky.30V.0.5A.SMD. SOD-123.ON.MBR0530T1G;EE-A011187;1301053040;TWN	100	53.4	87.9	
3	U25	(TF)IC.SMD.QFP128P Super I/O.ITE.IT8712F-A/IX-L; EE-A050785;14S4871203;TWN	70	55.1	89.6	
4	U18	(TF)IC.SMDSO-8.5VSupervisoryCircuits.ANALOG DEVICES.ADM706ARZ	115	53.7	88.2	
5	Q11	(TF)Dual N-Channel.SO-8.SMD. Vds=60V.Vgs=(+/-)25V.Ids=7/5A.Rds=21/27mohm.APEC.AP9975GM	125	57.6	92.1	
6	U13	(TF)IC.SMD.SOP-8P.SynchronousBuck PWM.DC-DC Controller.Fiti. FP6321ASOPTR;EE-A071256;14S2632100;TWN	125	54.5	89	
7	U14	(TF)IC.SMD.SSOP48 Chipset.INTEL.EP82562ET	85	53.9	88.4	
8	U12	(TF)IC.SMD.SOP-8P.SynchronousBuckPWM.DC-DC Controller.Fiti.FP6321ASOPTR;EE-A071256;14S2632100;TWN	125	53.7	88.2	

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

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