

XTX-945

Intel 945GM(E) + ICH7-M XTX Board

Thermal Image Analysis Report

Report NO: 08E080004

Release Date: March 03, 2008

2008/03/03

Issue Stamp

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Manager

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Test Engineer

Thermal Image Analysis

I . Model Name: XTX-945 A0.3 (Carrier Board: ECB-910M A0.3)

II . Description: Intel 945GM(E) + ICH7-M XTX Board

III . Date: March 03, 2008

IV. Measure Site: AAEON QE Dept.

V. Issued by : Jojo Lin

VI. Equipment:

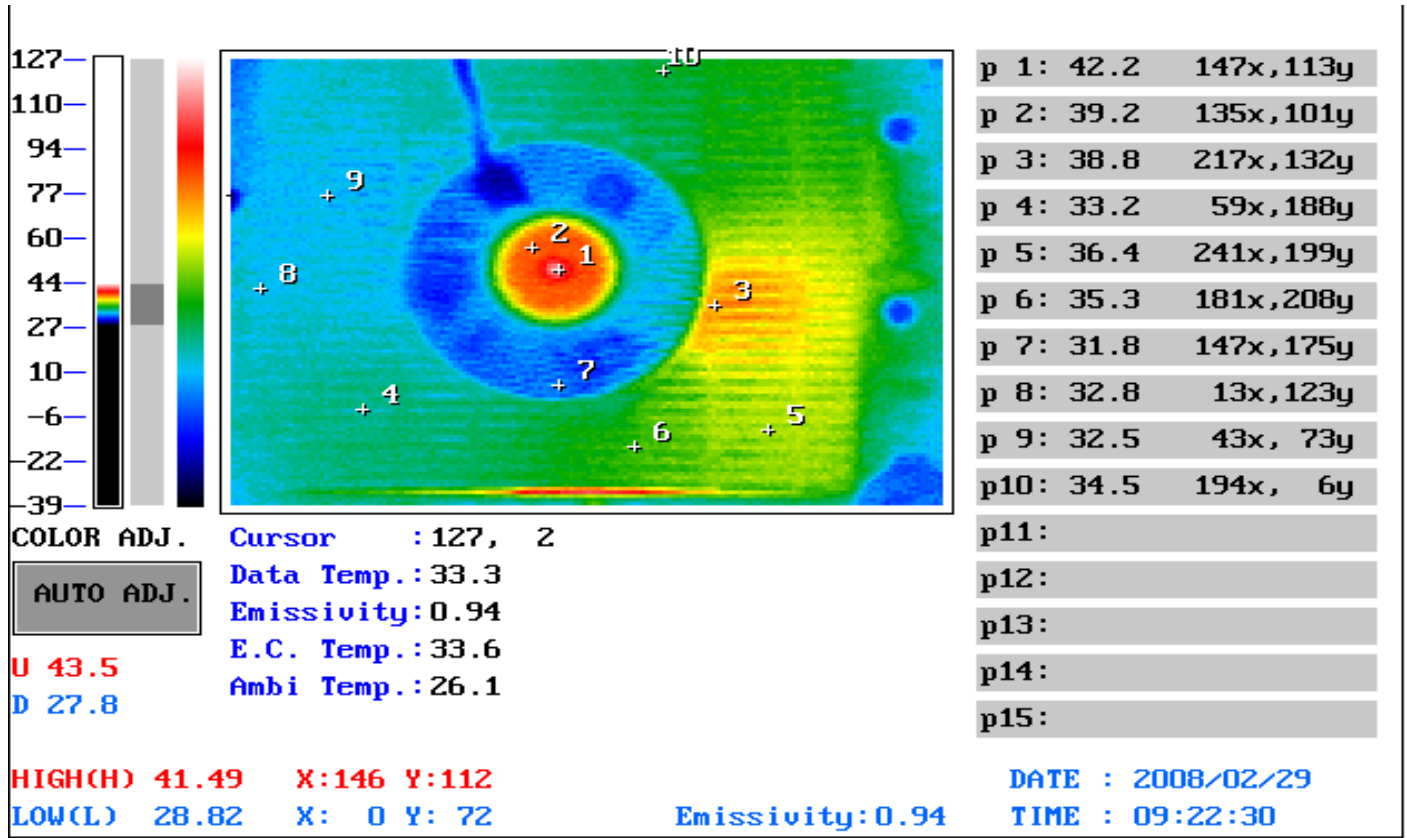
TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

- **Temperature: Component Side-1: 26.1°C**
Solder Side-1: N/A
- **CPU : Intel Core 2 Duo 2.16 GHz / FSB:667MHz / L2: 4MB T7400 LF80537GF0484M (Merom)**
- **RAM : Kingston DDR2-533 SODIMM SDRAM 512MB (0604VJ V59C1512164QAF37)**
- **BIOS : XTX-945 BIOS Rev 1.0 (12/18/2007)**
- **CF Card : N/A**
- **HDD: Maxtor 2F040L0710634 3.5" IDE HDD**
- **DVD-ROM: BenQ DVD-ROM 1650V**
- **Application Software: Run Prime 95 under Windows XP Professional Service Pack 2**
Version 2002
- **Take Picture Time: After Power on 2 hours.**

Temperature Profile Test:

Component Side-1:



Point	Position	Describe	Tc (°C)	Tm (26.1°C)	Tm (60°C)	Note
1		Center of the fan on heatsink		42.2	76.1	
2	U3	(TF)IC.SMD.Chipset Intel 945GM Express.Intel.QG82945GM SL8Z2;EE-A060321;14S4294501;TWN	0 ~ 105	39.2	73.1	
3	CPU	Intel CPU.Core 2 Duo 2.16 GHz. Merom T7400.LF80537GF0484M FSB: 667MHz / L2 Cache : 4MB	100	38.8	72.7	
4	U4	(TF)IC.SMD.Chipset ICH7M.Intel.NH82801GBM SL8YB;EE-A060320;14S428010D;TWN	100	33.2	67.1	
5	U19	(TF)IC.SMD.QFP128P Super I/O.ITE.IT8712F/KX-L;EE-A061481;14S4871204;TWN	-30 ~ 100	36.4	70.3	
6	U2	(TF)IC.SMD.TSSOP 56P.CLOCK GENERATOR.ICS.ICS954226AGLF;EE-A060018;14S3422600;TWN	115	35.3	69.2	
7	L21	(TF)COIL.1.5uH.Irms=9A.Isat=18A.20%.SMD(7.3x6.8x3.0).2pin.RDC=15 m Ohm.GOTREND.GSTC063P-1R5MN;EE-A061612;121110156A;TWN	-85 ~ 155	31.8	65.7	
8	L48	(TF)COIL.2.2uH.(30mohm,3.5A).20%.5.8*5.2mm.SMD.GOTREND.GSD R53P-2R2M;EE-A061578;1211102268;TWN	-70 ~ 115	32.8	66.7	
9	U58	(TF)IC.SMD.TSOP.32P.8M bit Flash Memory.SST.SST49LF008A-33-4C-WHE;EE-A080004;14S6200802;TWN	-30 ~ 115	32.5	66.4	
10	L53	(TF)COIL.1uH.+/-20%.SMD.7.3*6.8*3.0mm.DCR=9mohm.Irms=11Amp. GOTREND.GSTC063P-1R0MN;EE-A061520;1211000180;TWN	-85 ~ 155	34.5	68.4	

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