



FSB-865G

Thermal Image Analysis Report

Report No: 04I080001

Release Date: Dec. 30, 2004

2004-12-30

Issue Stamp

Wenyuan Yang

Manager

Andrew KU

Test Engineer

I . Model Name: FSB-865G

II . Description: Full-size PICMG CPU Card. Socket 478 Pentium 4 Processor CPU Card.
with VGA / two Ethernet. / LVDS/Mini PCI /Audio/CFD/7USBs/Mini
PCI/ATX

III . Date: Dec. 30, 2004

IV. Measure Site: AAEON QE Dept.

V . Issued by: Andrew Ku

VI.Equipment:

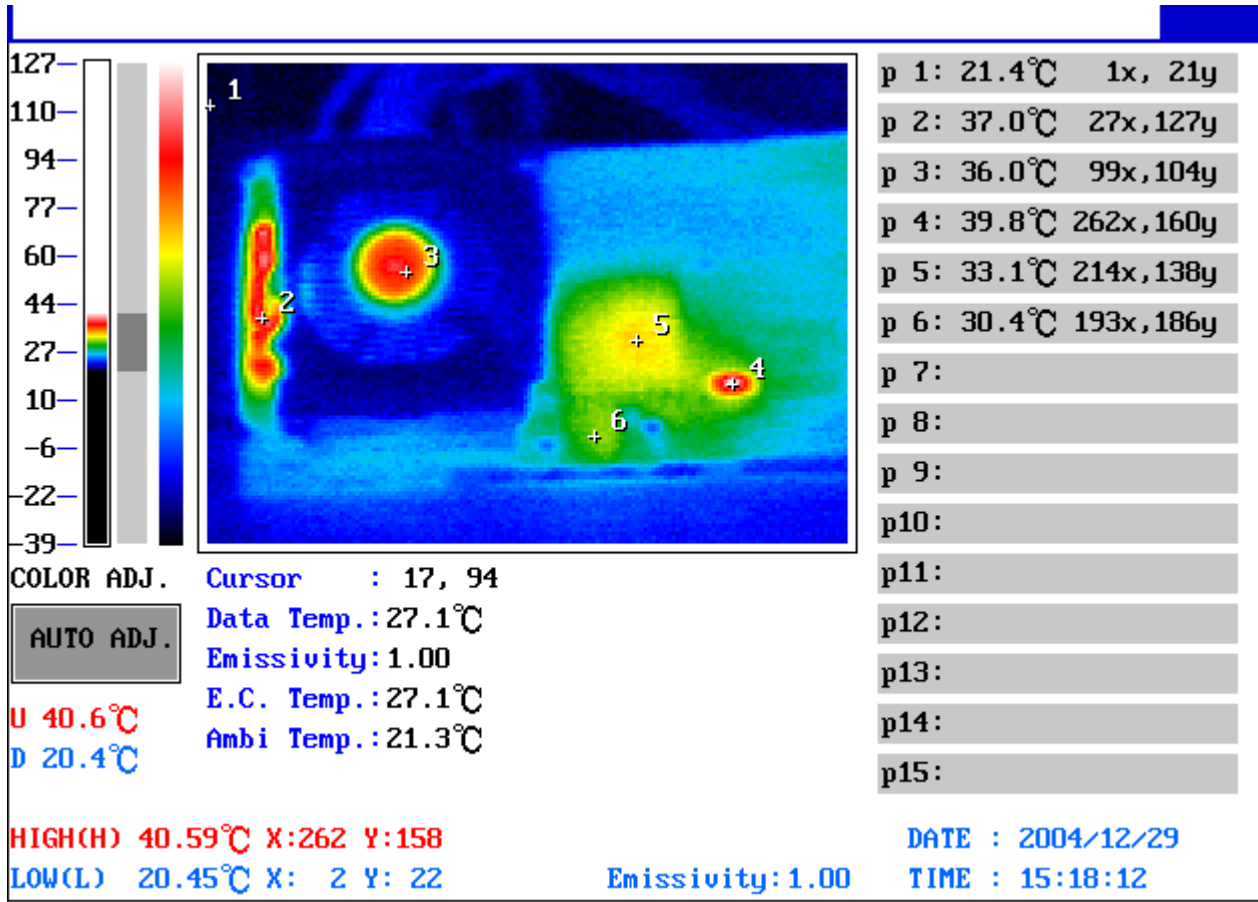
1. TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

- **Temperature: Component Side – 1: 21.4 degrees C**
Component Side – 2: 20.7 degrees C
Component Side – 3: 21.3 degrees C
Component Side – 4: 21.3 degrees C
- **System Configuration : FSB-865G A1.0 (BIOS ver : 1.0)**
CPU: Intel Pentium 4 / 3.06GHz / FSB 533MHz
Memory: KINGMAX KDL684J44A-60 (DDR-333) / 256MB
HDD: Seagate ST31276A
- **Application Software: Windows 2000 run HCT9.5**
- **Take Picture Time: Power on 2 hours after**

Temperature Profile Test:

Component Side – 1:



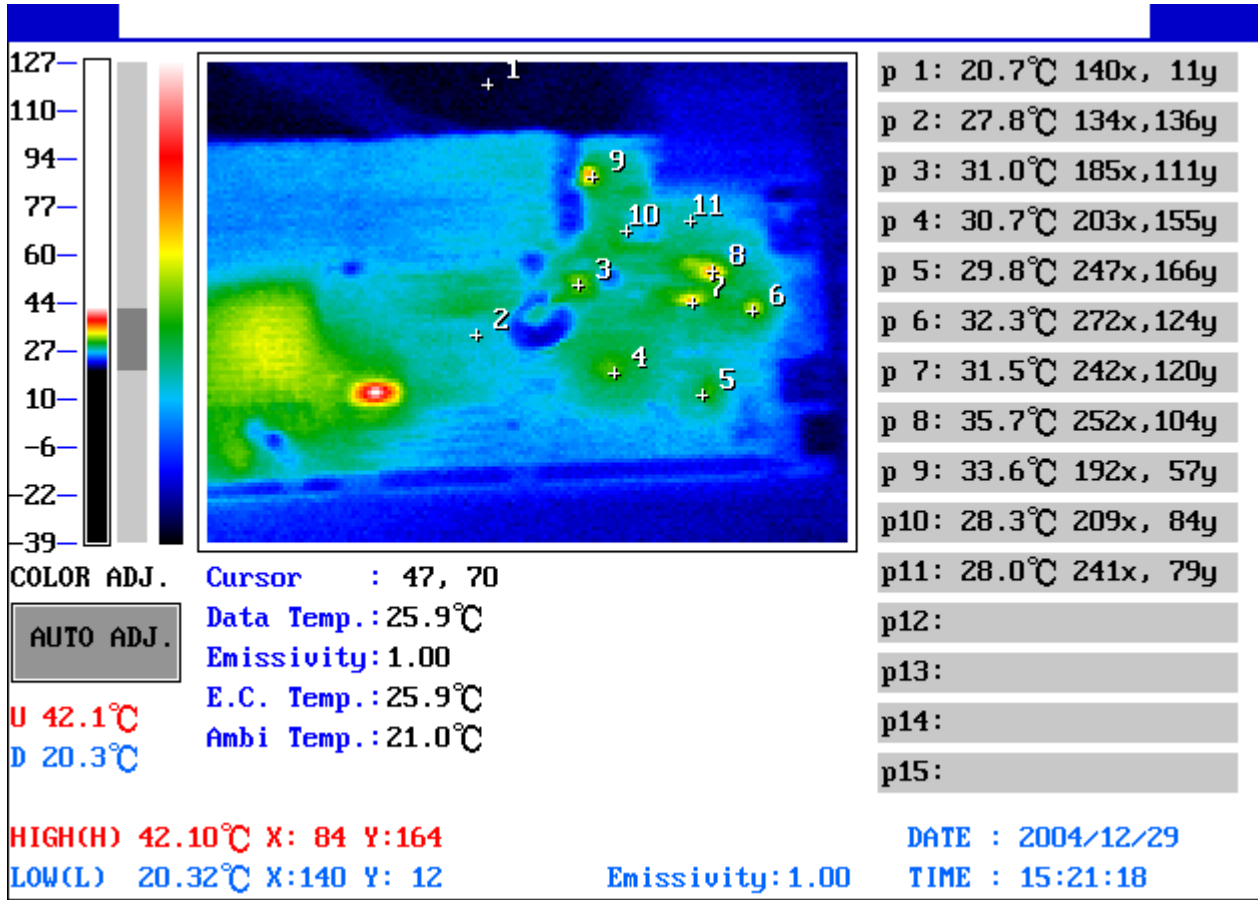
Point	Position	Describe	Ts	Tm	Note
1		The Room Temperature		21.4°C	
2	C32	KO-CAP.330uF.6.3V.SMD.KEMET.T520D337M006AS		37.0°C	
3		CPU COOLER		36.0°C	
4	U28	IC.SMD.SSOP 48Pin Clock Generator.ICS.ICS952607		32.1°C	
5	U22	IC.SMD.FC-BGA932.GMCH.INTEL.82865GV SL77X		33.1°C	
6	L57	COIL.3.3uH 6.4A.20%.SMD.永馳.YC0804-3R3		30.4°C	
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1. Operation Temperature (°C):

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

Note: The description in red states which temperature is over the specification of the device.

Component Side -2:



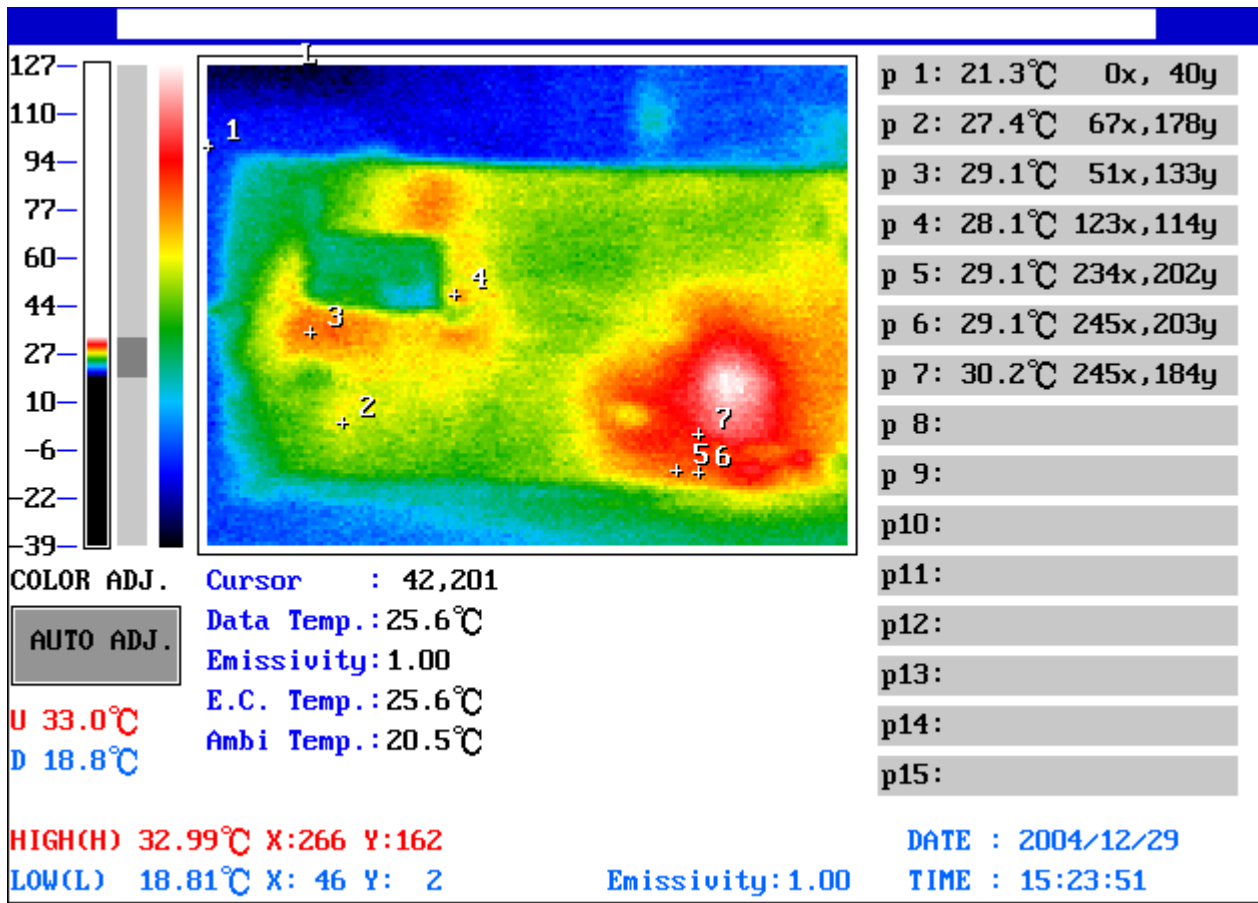
Point	Position	Describe	Ts	Tm	Note
1		The Room Temperature		20.7°C	
2	U23	IC.SMD PQFP.160P PCI to ISA Bridge Chip.ITE.IT8888F		27.8°C	
3	Q7	REG.SMD.3A Linear Regulator.AMS.AMS1085CM		31.0°C	
4	U27	IC.SMD.Chipset ICH5.INTEL.FW82801EB SL73Z		30.7°C	
5	U29	IC.SMD BGA 196P.GigaBit Ethernet Chipset.INTEL.RC82541GI		29.8°C	
6	U19	IC.SMD.BGA 196P Ethernet Chipset.Intel.82562EZ		32.3°C	
7	U18	IC.SMD.SOP.TI.7407		31.5°C	
8	U16	IC.SMD.SOIC 8P.Ultra Low Dropout Regulator.IR.IRU1150CS		35.7°C	
9	U4	IC.SMD.28Pin QSOP Parallel Term.CMD.Super 1284-04Q		33.6°C	
10	U9	IC.SMD.PQFP 128Pin LPC Super I/O Winbond.W83627HF-AWA		28.3°C	
11	U10	Flash PLCC BIOS.512K.CS:B3AAh.		28.0°C	
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I. Operation Temperature (°C):

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

Note: The description in red states which temperature is over the specification of the device.

Component Side – 3:



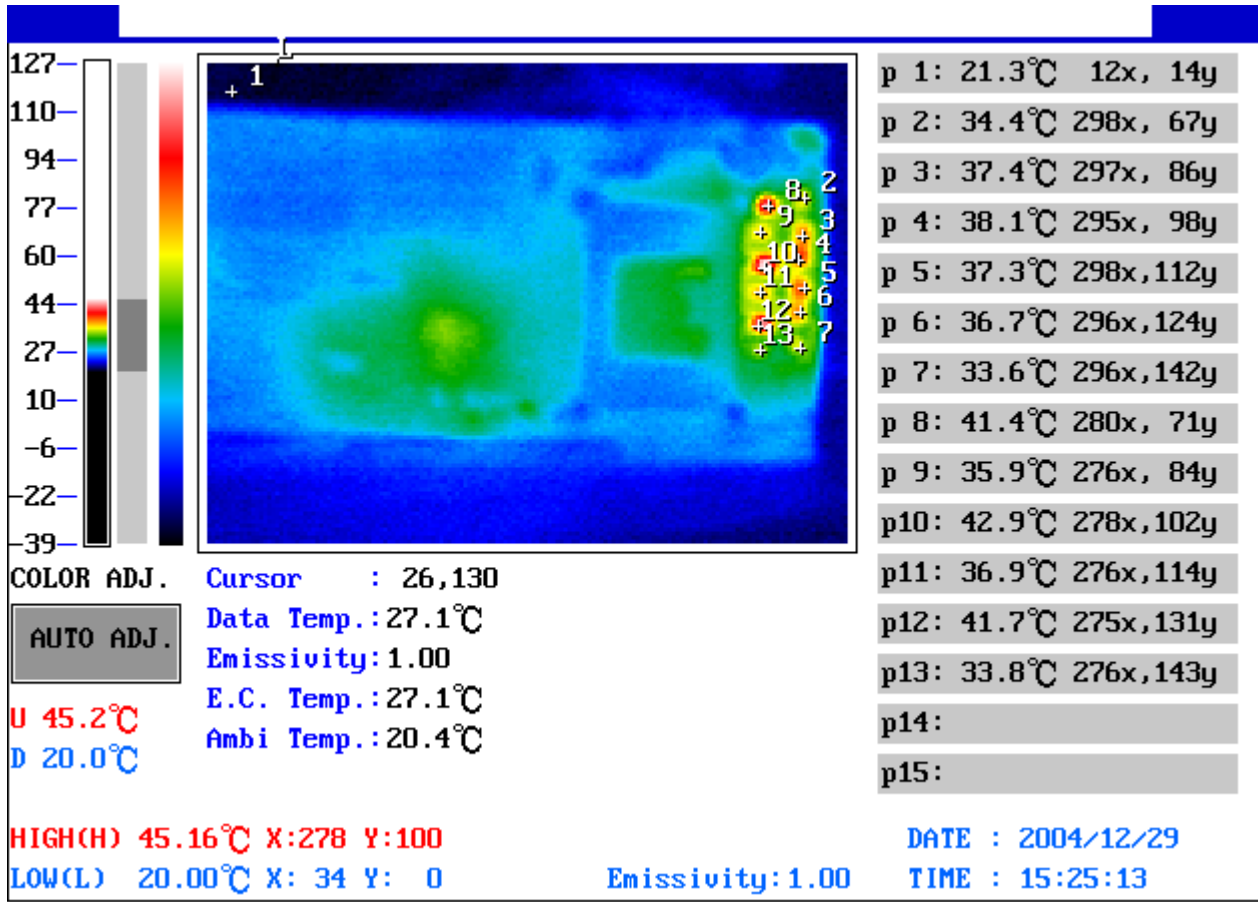
Point	Position	Describe	Ts	Tm	Note
1		The Room Temperature		21.3°C	
2	C157	KO-CAP.330uF.6.3V.SMD.KEMET.T520D337M006AS		27.4°C	
3	C142	SPCAP.47uF.6.3V.SMD.Panasonic.EEFCD0J470R		29.1°C	
4	U11	REG.SMDTO-252-5.2A bus Termination Regulator. Rich Tek. RT9173BCL5		28.1°C	
5	Q26	PWR.SMD.TO-252 N-Channel Power Mosfet. AOS.AOD414		29.1°C	
6	Q25	PWR.SMD.TO-252 N-Channel Power Mosfet. AOS.AOD412		29.1°C	
7	C121	SPCAP.47uF.6.3V.SMD.Panasonic.EEFCD0J470R		30.2°C	
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1. Operation Temperature (°C):

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

Note: The description in red states which temperature is over the specification of the device.

Component Side – 4:



Point	Position	Describe	Ts	Tm	Note
1		The Room Temperature		21.3°C	
2	Q12	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD412		34.4°C	
3	Q13	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		37.4°C	
4	Q14	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD412		38.1°C	
5	Q16	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		37.3°C	
6	Q17	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD412		36.7°C	
7	Q18	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		33.6°C	
8	U40	IC.SMD.SOIC 8Pin MOSFET Drivers.INTERASIL.HIP6601B		41.4°C	
9	Q20	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		35.9°C	
10	U41	IC.SMD.SOIC 8Pin MOSFET Drivers.INTERASIL.HIP6601B		42.9°C	
11	Q21	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		36.9°C	
12	U45	IC.SMD.SOIC 8Pin MOSFET Drivers.INTERASIL.HIP6601B		41.7°C	
13	Q22	PWR.SMD.TO-252 N-Channel PowerMosfet.AOS.AOD414		33.8°C	
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1. Operation Temperature (°C):

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

Note: The description in red states which temperature is over the specification of the device.