



AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

PCM-5335 Rev.B1.0

Thermal Image Analysis Report

Release Date:Jun.13, 2003

2003-06-13

Issue Stamp

Wayne Chen

DV Manager

Rex Chang

Test Engineer

Thermal Image Analysis

- . **Model Name:** PCM-5335 Rev.B1.0 (BIOS:1.0)

- . **Description:** Embedded Low power NS Geode GX1-300 MHz PC/104 CPU Modules

- . **Date:** Jun. 13, 2003

- . **Measure Site:** AAEON DV Dept.

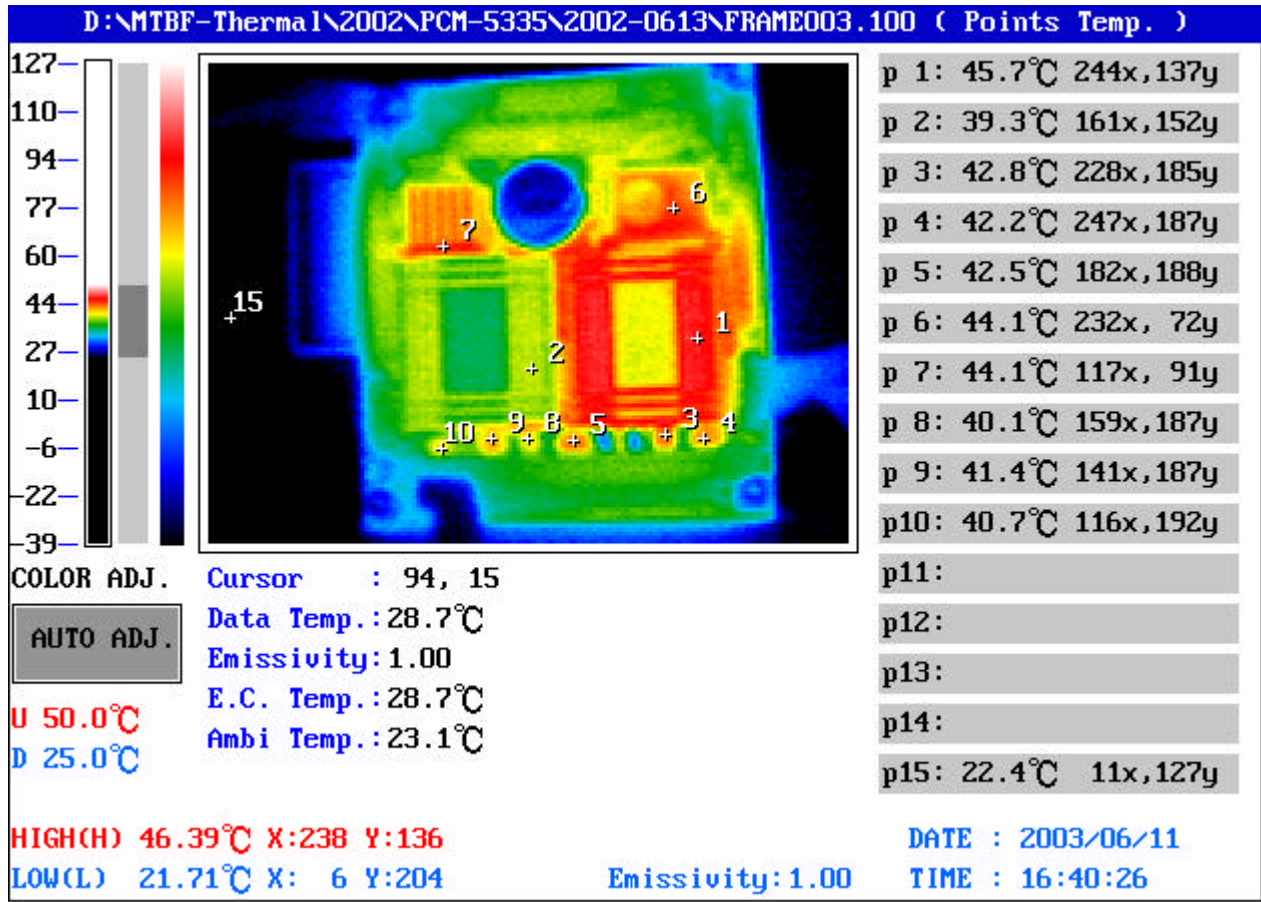
- . **Issued by :** Rex Chang

- . **Equipment:** TVS-100 series by NIPPON AVIONICS CO., LTD.

- . **Simulation Environment:**
 - Temperature: 22.4 degrees C
 - CPU: Embedded Low power NS Geode GX1-300 MHz processor (BGA)
 - RAM: 32MB SDRAM NANYA NT56V6620C0T-75
 - Hardware: Sun Disk 64MB CF Card
 - Application Software: QAPLus 5.5
 - Take Picture Time: Power on 30 minutes after

Temperature Profile Test:

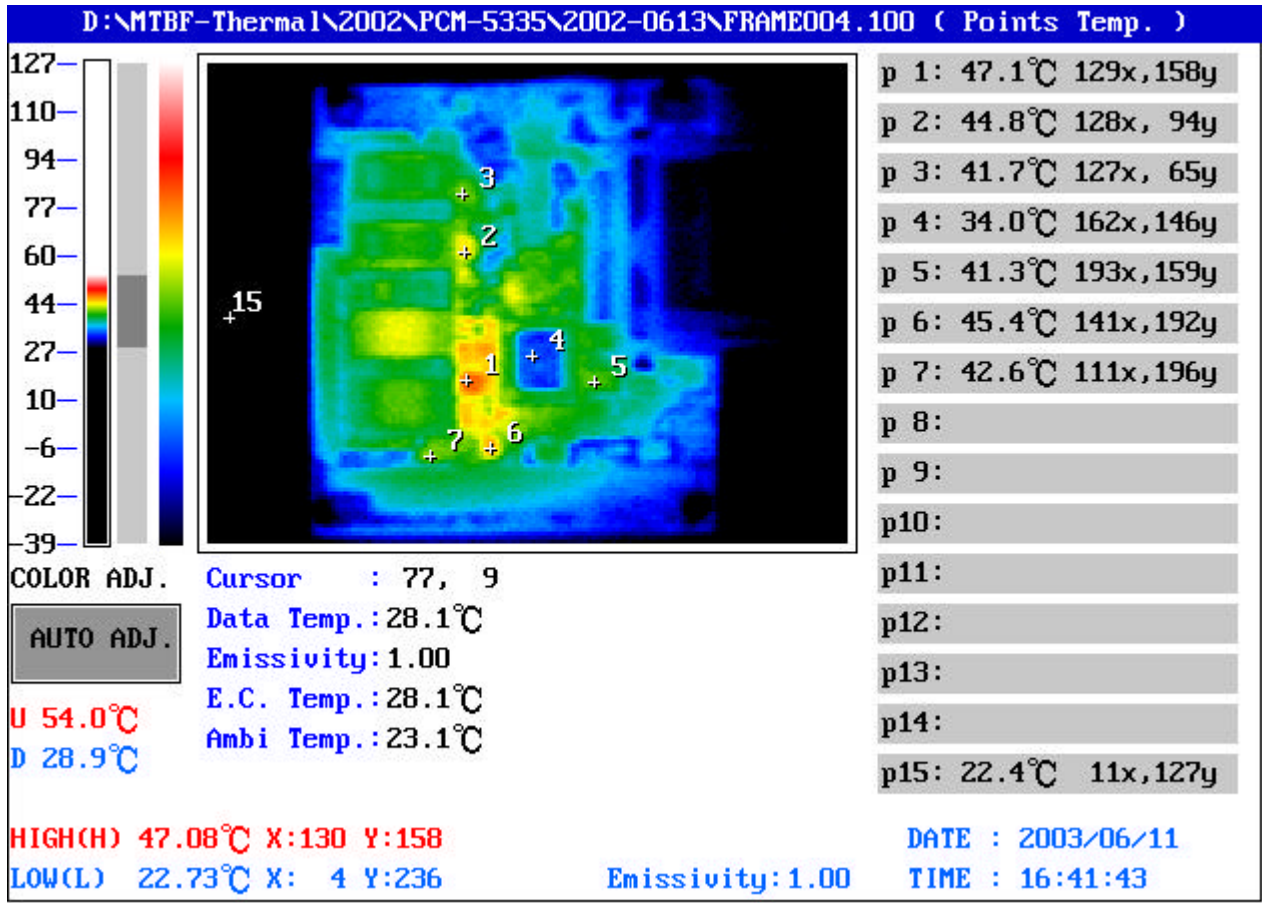
Component Side:



Point	Position	Describe	Ts	Tm	Note
1	U2	NS CPU.BGA GX1-300B 2.0V 85C		45.7	
2	U3	IC.SMD 352PBGA.I/O Companion.Multi-Function South		39.3	
3	L1	INDUCTOR.3.3uH 3A.20%.SMD 2Pin.SMTDR54-3R3M		42.8	
4	TC1	POSCAP CAP.330uF.6.3V.20%.D4(7.3*4.3*3.8mm).40mOhm		42.2	
5	TC3	POSCAP CAP.330uF.6.3V.20%.D4(7.3*4.3*3.8mm).40mOhm		42.5	
6	U4	IC.SMD.128P QFP Super I/O.Winbond.W83977F-A		44.1	
7	U6	IC.SMD.LQFP 100P PCI Ethernet Chip.RELTEK.RTL8139DL		44.1	
8	L2	INDUCTOR.3.3uH 3A.20%.SMD 2Pin.SMTDR54-3R3M		40.1	
9	Q1	Dual N-Channel.SMD SO-8.2.5V MOSFET.APEC.AP9926M		41.4	
10	U1	IC.SMD SOP.8Pin Switching PWM Controller.IR.IRU3037CS		40.7	
11					
12					
13					
14					
15		The Room Temperature		22.4.	

1. Operation Temperature ():

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



Point	Position	Describe	Ts	Tm	Note
1	U12	IC.SMD TSSOP20.PHILIPS.74HCT373PW		47.1	
2	U19	IC.SMD.213 SSOP RS232 Driver.HARRIS.HIN213CA		44.8	
3	U24	IC.SMD.213 SSOP RS232 Driver.HARRIS.HIN213CA		41.7	
4	U16	IC.PLCC.32P Flash Memory.Winbond.W29C020CP-90		34.0	
5	U13	IC.SMD TSSOP20.PHILIPS.74HCT373PW		41.3	
6	U9	IC.SMD SOP.8Pin Switching PWM		45.4	
7	Q3	Dual N-Channel.SMD SO-8.2.5V MOSFET.APEC.AP9926M		42.6	
8					
9					
10					
11					
12					
13					
14					
15		The Room Temperature		22.4	

1. Operation Temperature ():

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