

PCM-3336-BRIDGE

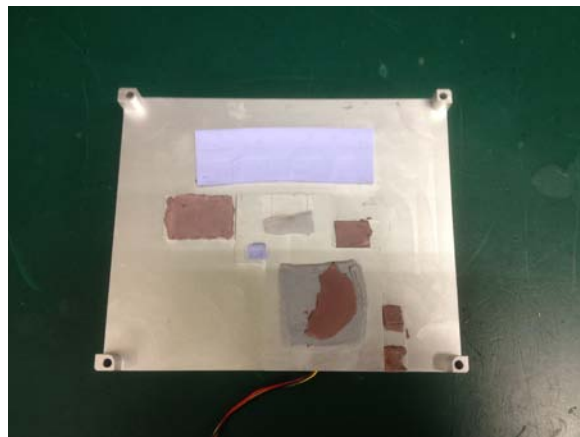
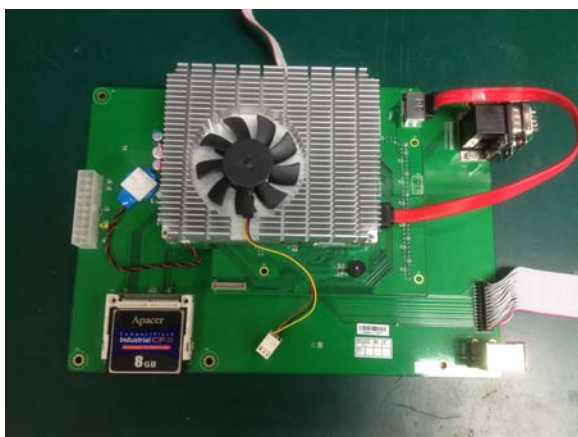
Thermal Image Analysis Report

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____			
Test Result Summary				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date <hr style="width: 100%;"/> 2013 / 12 / 18	Approval <hr style="width: 100%;"/> Tom Lin	Test Engineer <hr style="width: 100%;"/> Jerry Chen
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Sample Configuration & Quantity Under Test

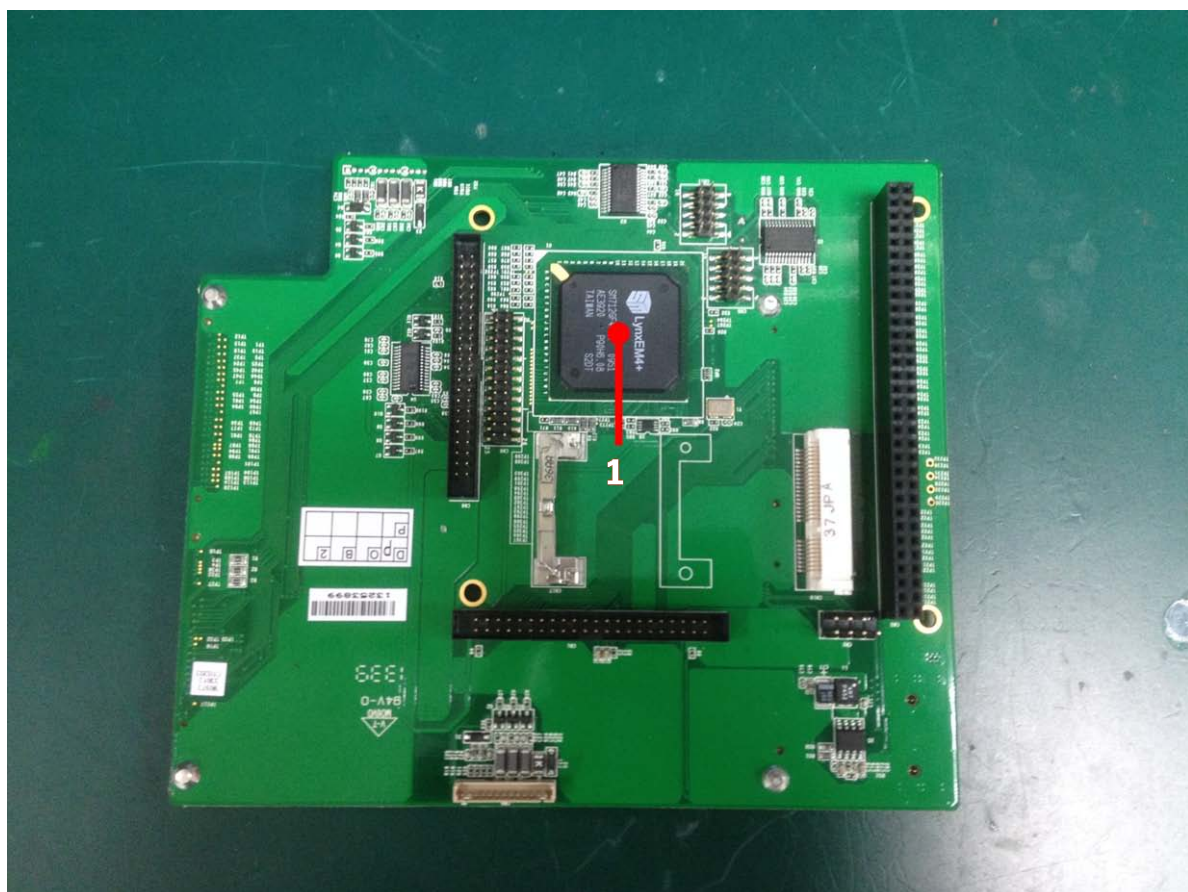
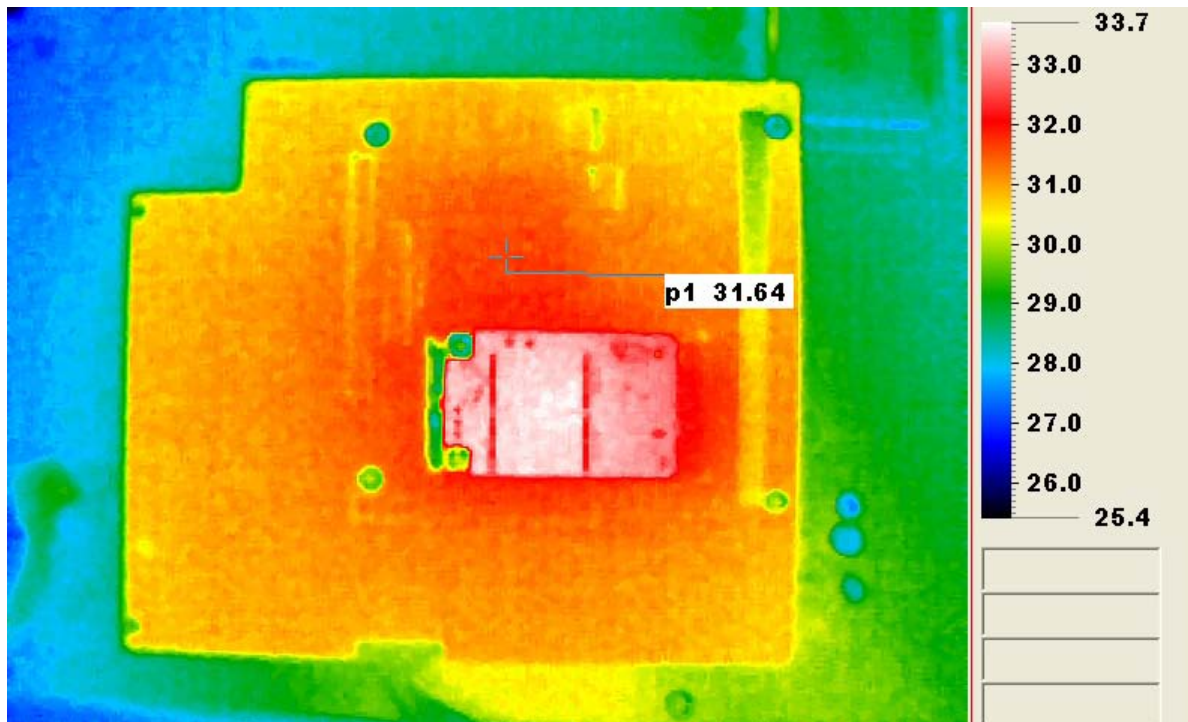
- **Model name : PCM-3336-BRIDGE A0.3**
- **CPU : Intel Atom N455 / 1.66GHz**
- **Chipset : North Bridge(Intel N455) / South Bridge(Intel ICH8M)**
- **Memory : DSL DDR3 1066 / 2G CL7 / ELPIDA J1108BFBG-DJ-F**
- **CF : Apacer Compact Flash Industrial / 8G / CF008GE3FR-ETNRK**
- **BIOS : PCM-3336-BRIDGE R1.4(L336AM14) (11/05/2013)**
- **Test Software : DOS Mode / Run Memtest86 V4.20**
- **Power : ATX Power**
- **CPU Cooler:**



Thermal Image Analysis

1. Test Date: 2013-12-03
2. Test Product: PCM-3336-BRIDGE
3. Test Site: AAEON QE Dept.
4. Temperature Measurement:
 - 4.1. 40 Channel Thermal Recorder:
 - 4.1.1 YOKOGAWA Inc,
 - 4.2.2 Model: DA100-13-1D
Date of Calibration: 2013/10/08
Serial Number: 12A323190
 - 4.2. IR Scanner: Infrared Camera
 - 4.2.1 NEC Avio Infrared Technologies Co., Ltd.
 - 4.2.2 Model: Thermo GEAR G100W2-D
Date of Calibration: 2013/01/08
Serial Number: 1051444
5. Test Condition:
 - Test by DA-100: 25.0°C With CPU Cooler
6. Take Picture Time:
 - After power on 2 hours

Temperature Profile Test:
Component Side:



Using YOKOGAWA / DARWIN DA100-100-13-1D test

Point	Position	Describe	Tc (*1) (°C)	Tm (*2) Measured Under		Note
				25°C	60°C	
1	U1	(TF)IC.Display Controller SM712GX04LF02-BA	85	37	72	

Note(*):

- "Tc" indicates the component's case maximum temperature value specified in its datasheet.
- "Tm" indicates the measured Tc value under working environmental temperature within product specification.

3. Judgment Criteria:

- **Fail** : $T_m > T_c + 5^{\circ}\text{C}$; The measured value is over specification plus margin.
- **Margin** : $T_c + 5^{\circ}\text{C} > T_m > T_c - 10^{\circ}\text{C}$; The measured value is within specification with margin.
 For FANLESS system application, it is strongly recommended to add thermal dissipation design for better reliability.
- **Pass** : $T_m < T_c - 10^{\circ}\text{C}$; The measured value is with safety margin.

4. Defact No: N/A