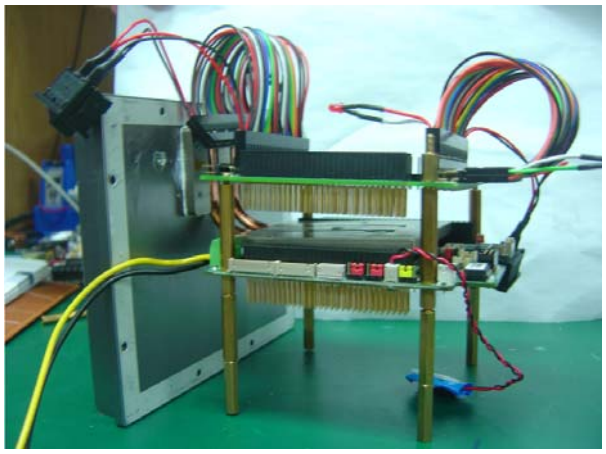
ReportNO: 14E080003

FPM-T096P

Rev.A1.0

Thermal Image Analysis Report



Summary	☐ Pass ☐ Fail ☑ Pass with Deviation Comment: One temperature point need improving

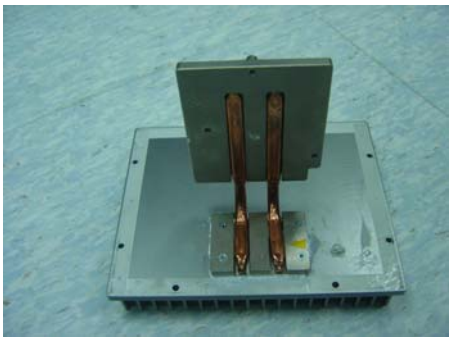
Test Result Summary				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	1
Defect Unsolved	0	0	0	1

Issue date	Approval	Test Engineer
2014 / 02 / 27	Tom Lin	Ben

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1053

Sample Configuration & Quantity Under Test

- **Model name : FPM-T096P A1.0**
- **CPU Board : PFM-CVS Rev. B1.0**
- **CPU : Intel Cedarview ATOM N2600 1.6 GB**
- **Memory : DSL DDR3-1600 2 GB (ProMos Y73CAG02808RAJJ11I)**
- **HDD : Toshiba 2.5” 160GB MK6476GSX (SATA)**
- **BIOS : PFM-CVS REV.B (PFCVBM10) (05/23/2013)**
- **Test Software : Windows XP sp3 / Run Prime95 v25.6.2**
- **Power : AT Power**
- **Heat Sink (M16JPHK000)(M11JPHK000):**



AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1053

Thermal Image Analysis

1. Test Date: 2014-02-27

2. Test Product : FPM-T096P A1.0

3. Test Site: QE Dept.

4. Temperature Measurement:

1. YOKOGAWA / DARWIN DA100-100-13-1D

2. IR Scanner: Infrared Camera

NIPPON AVIONICS CO., LTD.

Model: TVS-100

Date of Calibration: 2013/12/30

Serial Number: 0179L2746

5. Test Condition:

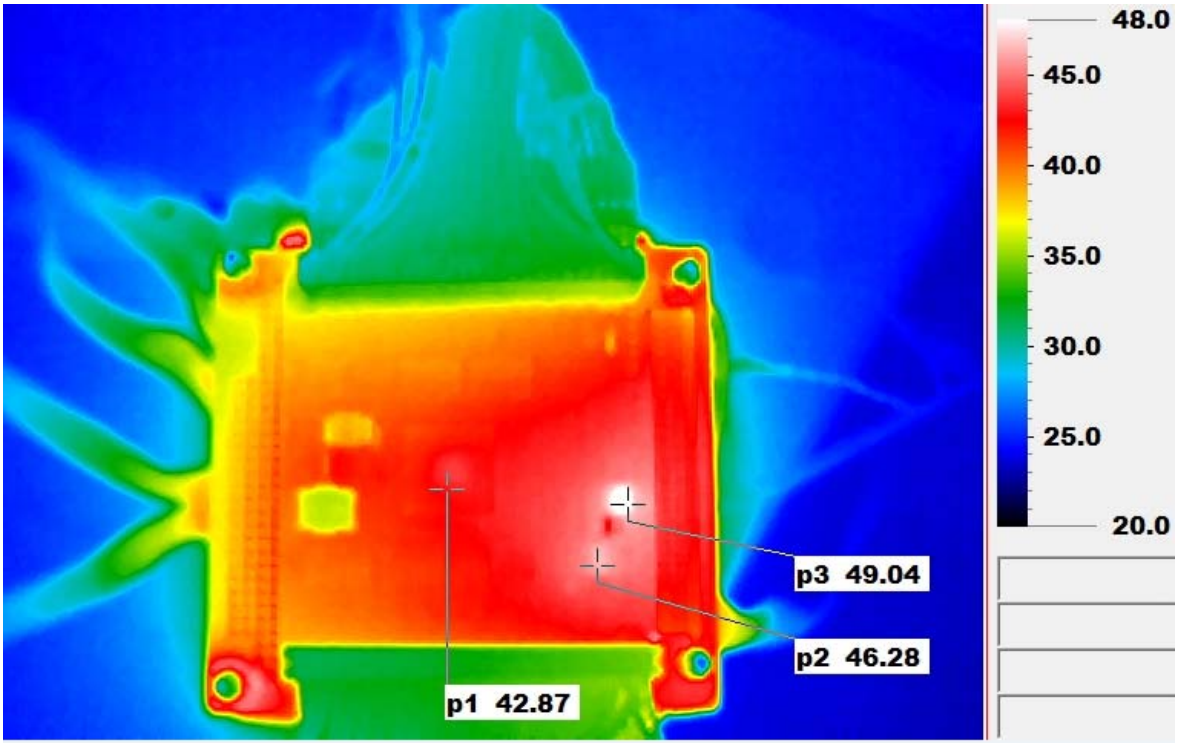
Component Side-1 (Test by DA-100): 25.0℃ With heat sink

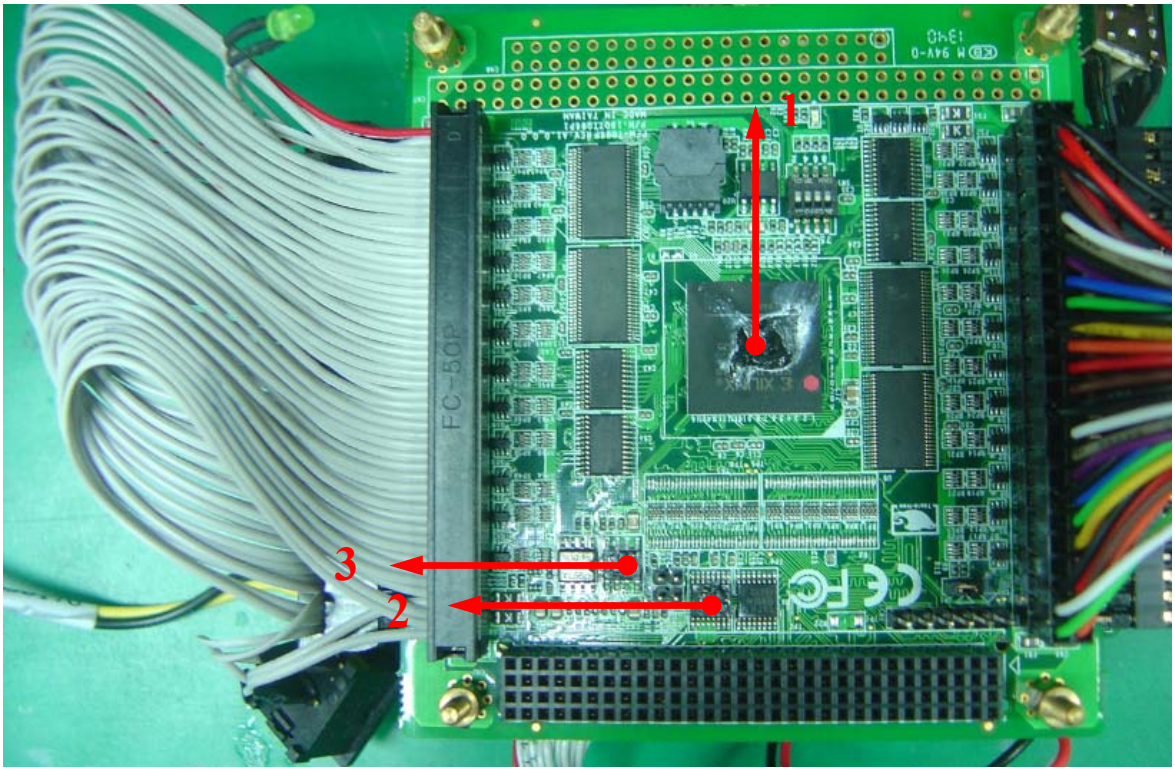
6. Take Picture Time:

After power on 2 hours

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1053

Temperature Profile Test:





AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1053

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

Point	Position	Describe	Tc (*1) (℃)	Tm (*2) Measured Under		Note
				25℃	60℃	
1	U1	(TF)IC.Spartan-3AN .SMD.XILINX.XC3S200AN-4FTG256C	70	32.2	67.2	Note 3
2	U5	(TF)IC.SMD.TSSOP-16.Dual 1-of-4 FET TI.SN74CBTLV3253PWR	100	31.9	66.9	
3	U19	(TF)REG.SMD.PSOP-8.Low-Voltage UPI.UP0104PSU8	125	32.6	67.6	

Note(*):

1. "Tc" indicates the component's case maximum temperature value specified in its datasheet.

2. "Tm" indicates the measured Tc value under working environmental temperature within product specification.

3. Judgment Criteria:

- **Fail** : Tm > Tc+5℃; The measured value is over specification plus margin.
- **Margin** : Tc+5℃ > Tm > Tc-10℃; 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** : Tm < Tc-10℃; The measured value is with safety margin.

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1053