



AMC-280

Environment Test Report

Report NO: 04I020002

Issued by: Rex-Chang / 08/31/2004
Test Engineer Date

Reviewed by: Wenyuan Yang / 08/31/2004
Manager Date

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

1. <i>Test item list</i> -----	2
2. <i>Temperature cycle operation test</i> -----	3
3. <i>Cold start test</i> -----	6
4. <i>High temperature storage test</i> -----	8
5. <i>Low temperature storage test</i> -----	9
6. <i>Humidity test</i> -----	10

Num	Item	Spec
1.	Control Box:	AMC- 280 / 8 Slot Wall Mounting Chassis
	1. Main Board	AAEON SBC-860 Rev. A1.2 (BIOS: 1.2)
	2. CPU	Intel Pentium (R) 4 / 2.4 GHz (133x8.0)
	3. Memory	512MB Kingston D328DL-60 (DDR 266)
	4. Power Supply	Seventeam ST-402HLP 400W (ATX)
	5. HDD	Western Digital WD1200JB-00FUA0 120GB (ATA-100)
	6. CD-ROM	ASUS CD-S400/A
	7. FDD	TEAC FD-235HF
	8. Backplane	BP-208SG-P4 REV:..A1.0

CPU Cooler

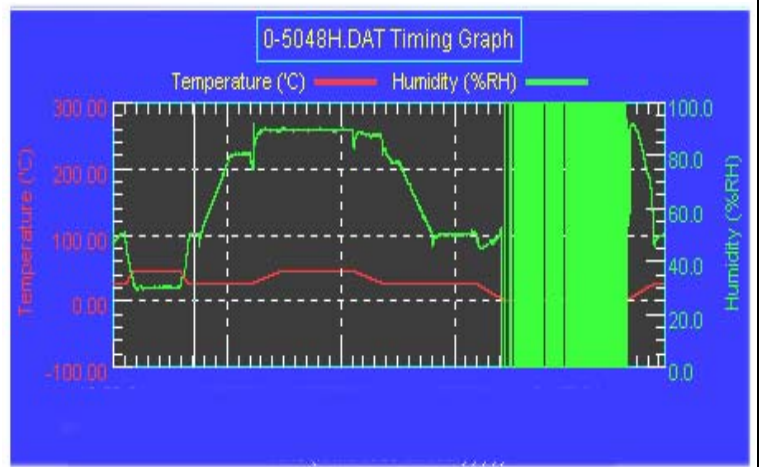
AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

Test Date: 08-18~20-2004**Test Product:** AMC-280 / 8 Slot Wall Mounting Chassis (SBC-860 Rev: A1.2).**Test Site:** AAEON QA Internal Lab.**Performed By:** Rex Chang**Test Standard:**Reference IEC 68-2-61 Testing procedures
Test Z/ABD: Climatic Sequence Test**Test Equipment:**Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-D4H+-100
Date of Calibration: 05/24/04
Serial Number: 1241**Temperature Measurement:**20 Channel Thermal Recorder:
YOKOGAWA Inc,
Model: DA100-13-1D
Date of Calibration: 12/25/03
Serial Number: 12A323190**Test O.S. / Software:**

Windows 2000 / Run six Microsoft media player simultaneously.

Temperature & Humidity Cycle Test:**Testing Specification**

Step	Temperature ()	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
3	45	30	00:50
4	45	30	04:00
5	25	50	00:50
6	25	50	00:50
7	25	90	03:30
8	25	90	01:00
9	45	90	02:46
10	45	90	06:21
11	25	90	02:46
12	25	50	04:07
13	25	50	03:30
14	25	50	00:30
15	0	0	02:30
16	0	0	10:30
17	25	50	02:30
18	25	50	00:30

Test Curve:**Sample Configuration & Quantity Under Test:**

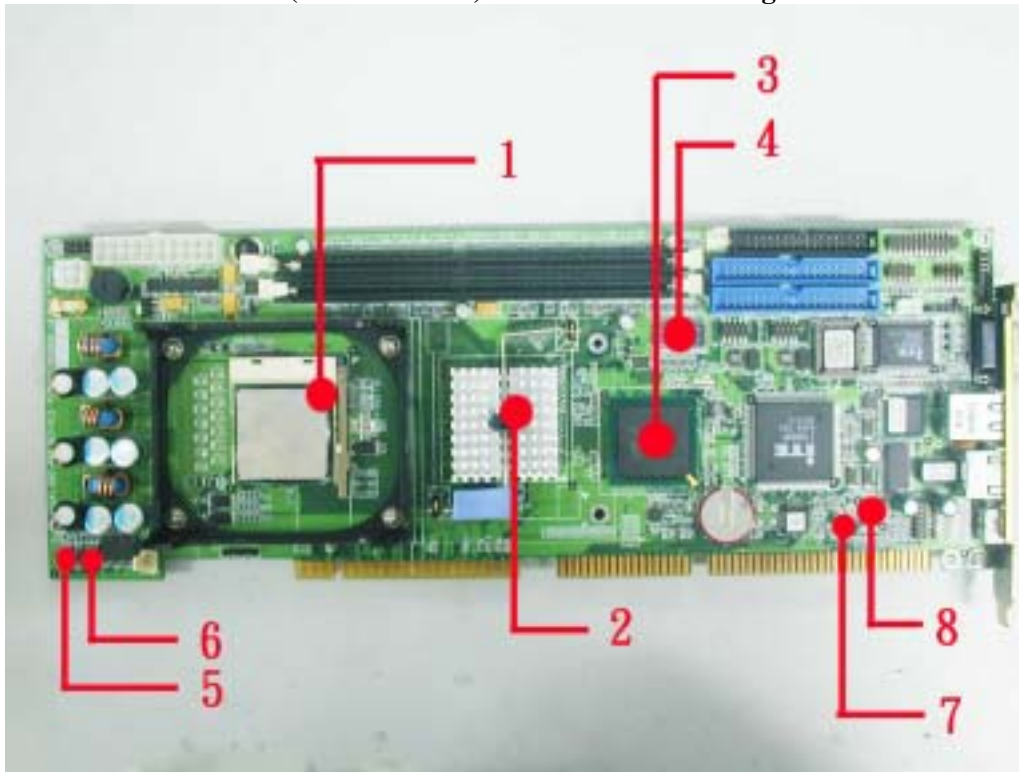
Using one AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

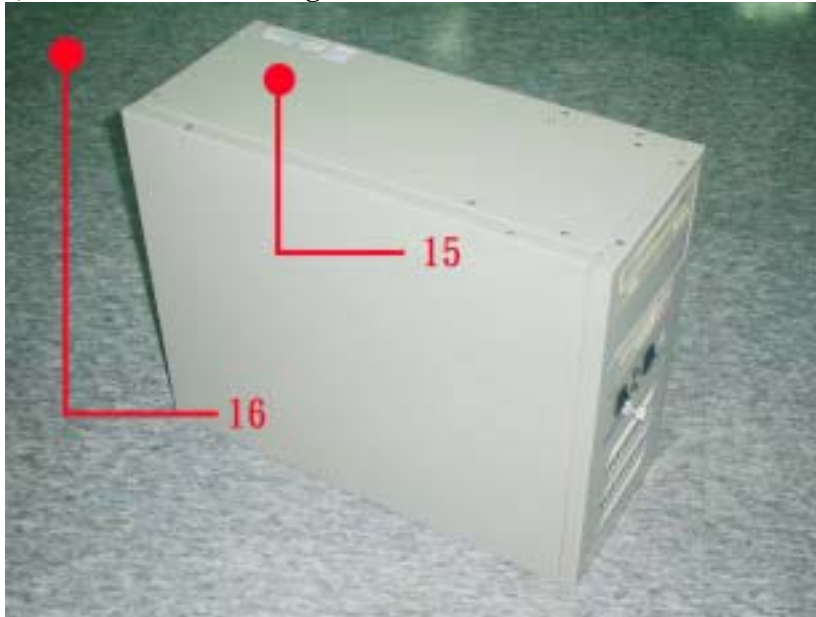
Temperature Recorder:

Measuring Accelerometer Position:

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis



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Note: 1.Dummy load : 5V/1A(5W);12V/0.5A(6W) x 2 pcs

Thermal profile data:

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

Point	Temp. Stage		
	45	25	0
1. CPU	63.1	42.9	18.2
2. U10 Intel.RG82845GV-SL6NR	60.7	38.5	19.6
3. U14 INTEL.FW82801DB SL66K	67.5	48.9	21.6
4. U6 Clock Generator.ICS.ICS950201	63.3	44.6	20.1
5. U22 MOSFET Drivers.INTERSil.HIP6601B	65.5	46.8	22.3
6. U23 Dual Channel MOSFET Drivers.INTERSil.HIP6602B	71.4	51.5	25.9
7. Q4 Voltage Regulators.MOTOROLA.MOMC78L05ACPRP	74.0	55.7	34.4
8. U20 AC'97 Audio Codec.AVANCE LOGIC.ALC201	71.9	52.9	30.2
9. Memory	55.2	36.3	12.1
10. Q32 Linear Regulator TO-263.AMS.AMS1083CM	74.9	55.5	31.2
11. CD-ROM Surface	53.0	33.8	8.4
12. HDD Surface	63.6	48.5	24.5
13. Power Supply Surface	54.4	38.7	12.3
14. Control Box Inside Air Temperature	50.9	32.6	6.8
15. Control Box. External Surface	49.1	29.7	4.4
16. Chamber Air Temperature	45.8	24.5	1.7

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

Sample Configuration & Quantity Under Test:

Quantity: 1 (AMC-280 / 8 Slot Wall Mounting Chassis)

Test Result:

The system structure doesn't deformation; Function is OK during system test.

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

Test Date: 08-23~24-2004

Test Product: AMC-280 / 8 Slot Wall Mounting Chassis

Test Site: AAEON QA Internal Lab.

Performed By: Rex Chang

Test Standard: Reference IEC 68-2-1 Testing procedures
Test Ab: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

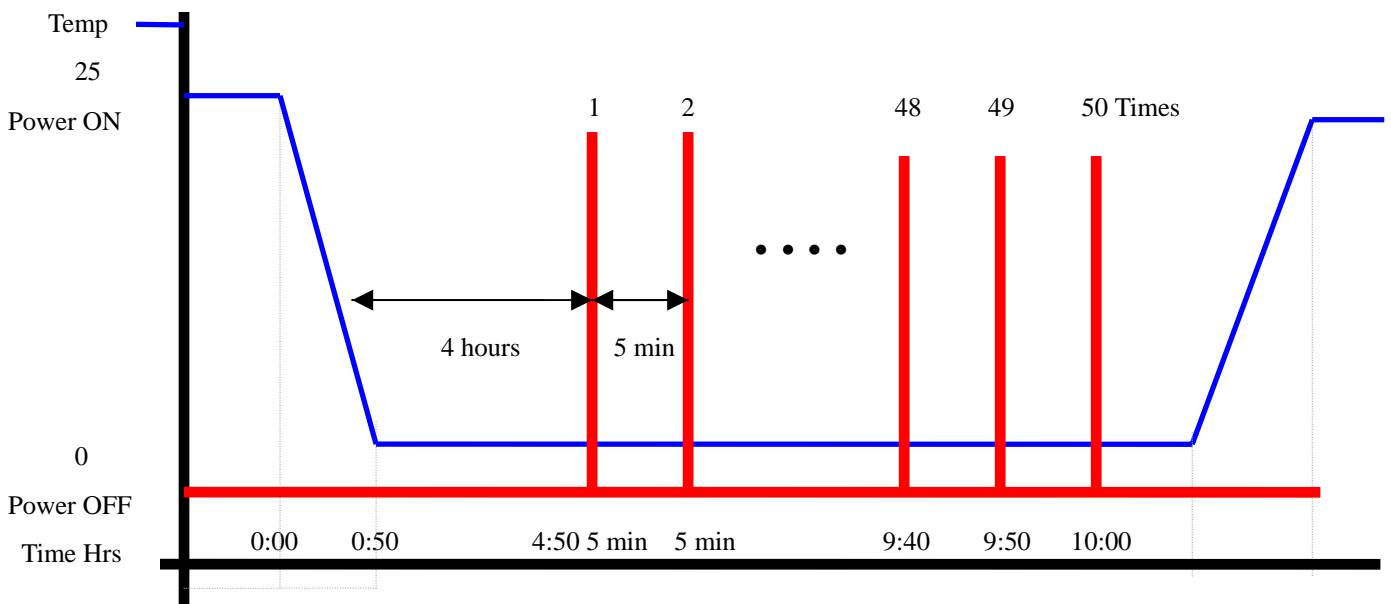
Model: THS-D4H+-100

Date of Calibration: 10/17/03

Serial Number: 2582

Test Condition:

1. Test Temperature: 0
2. Test Times: 5 Hours or 50 times of ON/OFF
 - (1) Power off for 4 hours before 1'st power on. Then once complete boot, power off immediately.
 - (2) After 5 min later power on again and wait until booting is completed.
 - (3) Repeat (2) for around 4:50
 - (4) Power off then wait for 5 min before final power on operation.
3. Number of test: 50 times
4. Test Software: Windows 2000
5. Test Environment Curve:





Cold Start test

Report NO. **04I020002**

AMC-280 (SBC-860 A1.2) / 8 Slot Wall Mounting Chassis

Sample Configuration & Quantity Under Test:

Quantity: 1 (AMC-280 / 8 Slot Wall Mounting Chassis)

Test Result:

Passed.

AMC-280 / 8 Slot Wall Mounting Chassis**Test Date:** 05-21~23-2004**Test Product:** AMC-280 / 8 Slot Wall Mounting Chassis**Test Site:** AAEON QA Internal Lab.**Performed By:** Rex Chang**Test Standard:** Reference IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)**Test Equipment:**Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4L+-100

Date of Calibration: 10/17/03

Serial Number: 2582

Testing Item:

1. Test Temperature: 80
2. Test Times: 48Hrs
3. Test Environment Curve:

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AMC-280 / 8 Slot Wall Mounting Chassis)

Test Result:

After high temperature storage test, the structure of chassis never change shape and surface paint doesn't flake off.

AMC-280 / 8 Slot Wall Mounting Chassis**Test Date:** 05-19~21-2004**Test Product:** AMC-280 / 8 Slot Wall Mounting Chassis**Test Site:** AAEON QA Internal Lab.**Performed By:** Rex Chang**Test Standard:** Reference IEC 68-2-1
Testing procedures Test Ab: Cold Test (Non-operation)**Test Equipment:**Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4H+-100

Date of Calibration: 10/17/03

Serial Number: 2582

Testing Item:

1. Test Temperature: -20
2. Test Times: 48Hrs
3. Test Environment Curve:

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AMC-280 / 8 Slot Wall Mounting Chassis)

Test Result:

After low temperature storage test, the structure of chassis never change shape and surface paint doesn't flake off.

AMC-280 / 8 Slot Wall Mounting Chassis**Test Date:** 08-20~23-2004**Test Product:** AMC-280 / 8 Slot Wall Mounting Chassis**Test Site:** AAEON QA Internal Lab.**Performed By:** Rex Chang**Test Standard:** Reference IEC 68-2-3 Testing procedures
Test Ca: Damp heat, steady state (Non-operation)**Test Equipment:**

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

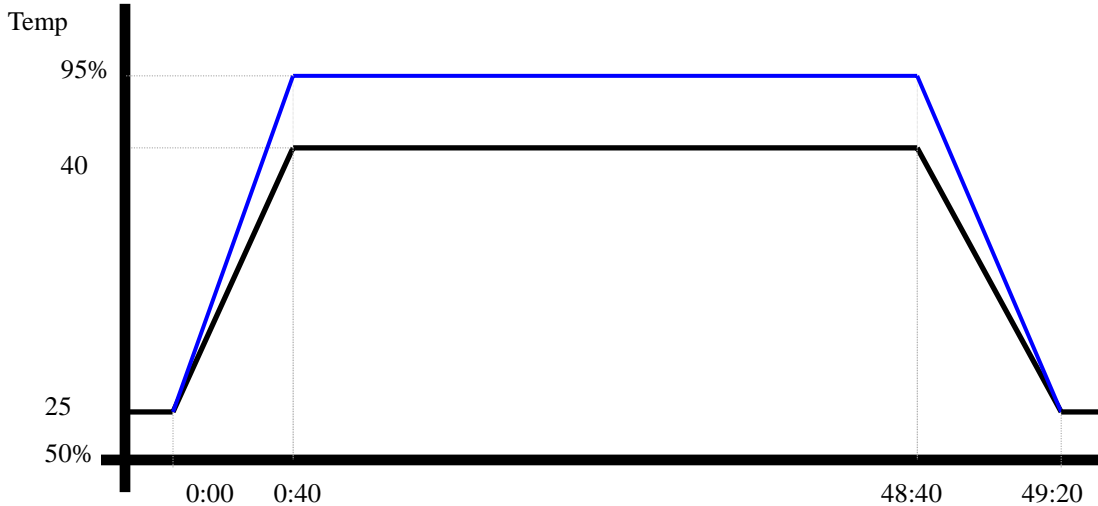
Model: THS-D4H+-100

Date of Calibration: 10/17/03

Serial Number: 2582

Testing Item:

1. Test Temperature: 40
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Environment Curve:

Humidity %**Sample Configuration & Quantity Under Test:**

Quantity: 1 (AMC-280 / 8 Slot Wall Mounting Chassis)

Test Result:

After humidity test, the structure of chassis never change shape and surface paint doesn't flake off.