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Num	Item	Spec
1.	Control Box:	ARC- 620 2U Rack 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 FSP ATX-300GU (ATX)
	5. HDD	Western Digital WD120BB-00FTA0 120GB (ATA-100)
	7. Backplane	BP-206VG-P4 REV: .A1.0

CPU Cooler

ARC-620 2U Rack Mounting Chassis (SBC-860 A1.2)

Test Date: 08-23~25-2004

Test Product: ARC-620 2U Rack 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

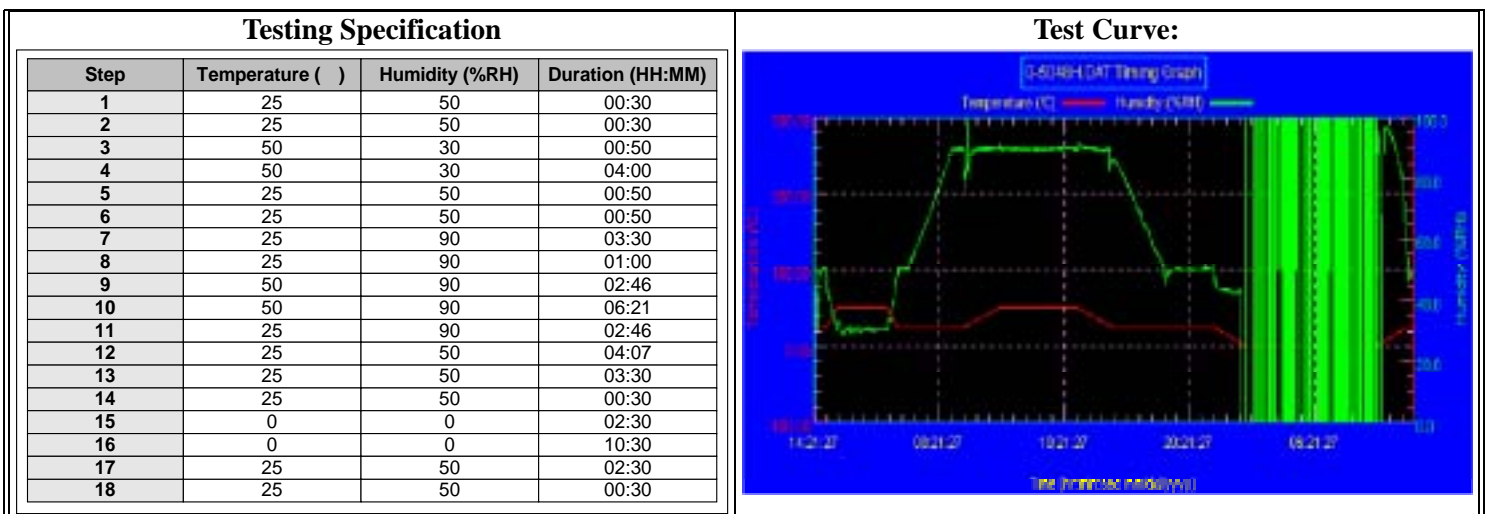
Temperature Measurement:

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:



Sample Configuration & Quantity Under Test:

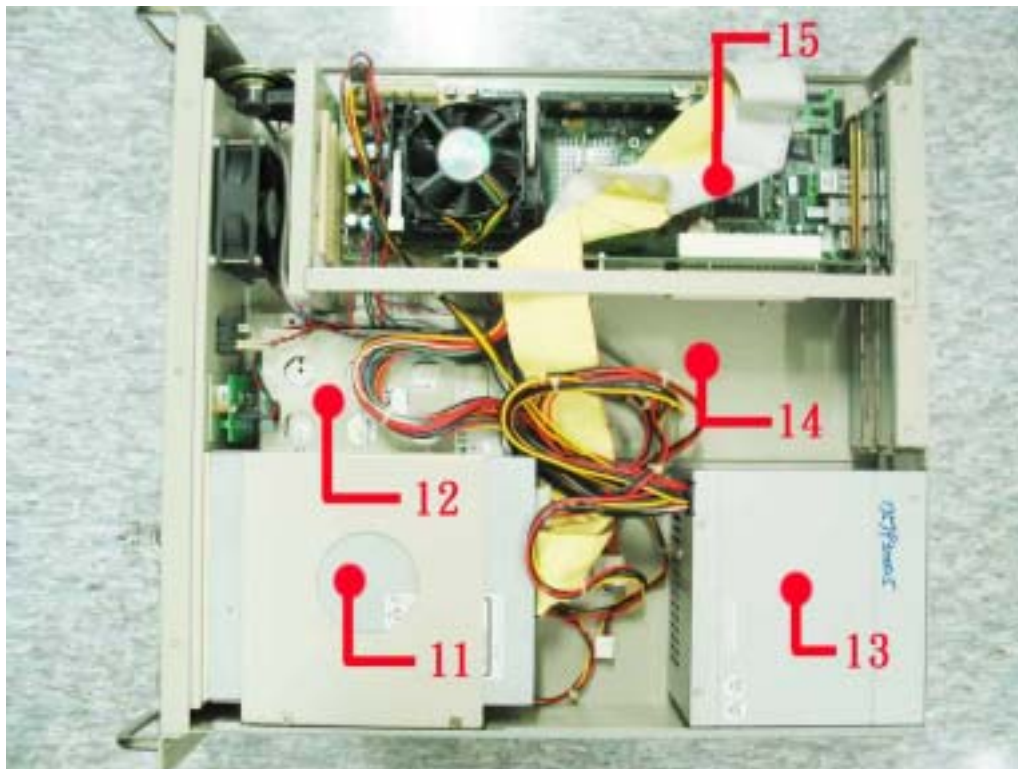
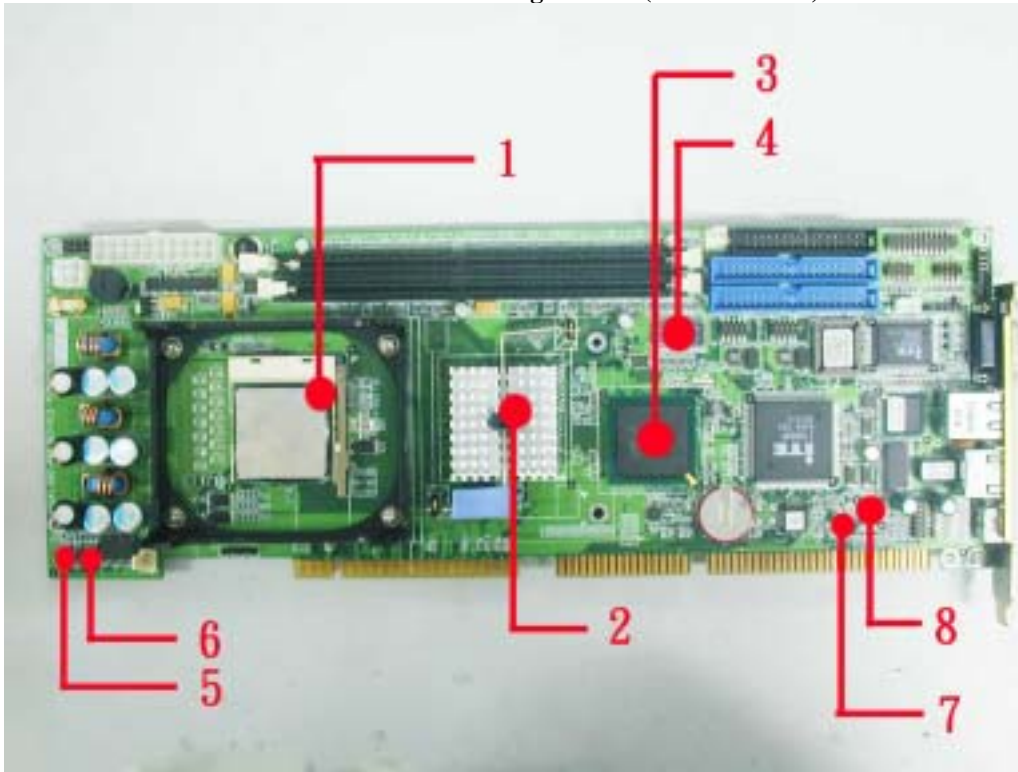
Using one ARC-620 2U Rack Mounting Chassis (SBC-860 A1.2)

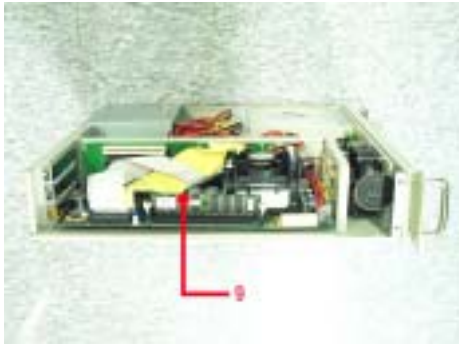
ARC-620 (SBC-860 A1.2) 2U Rack Mounting Chassis

Temperature Recorder:

Measuring Accelerometer Position:

ARC-620 2U Rack Mounting Chassis (SBC-860 A1.2)





Thermal profile data:

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

Point	Temp. Stage		
	50	25	0
1. CPU	74.5	53.0	29.5
2. U10 Intel.RG82845GV-SL6NR	69.7	47.5	26.3
3. U14 INTEL.FW82801DB SL66K	68.1	47.1	26.2
4. U6 Clock Generator.ICS.ICS950201	74.3	52.1	30.7
5. U22 MOSFET Drivers.INTERSil.HIP6601B	76.4	54.3	32.6
6. U23 Dual Channel MOSFET Drivers.INTERSil.HIP6602B	84.4	62.5	40.3
7. Q4 Voltage Regulators.MOTOROLA.MOMC78L05ACPRP	70.7	49.1	29.3
8. U20 AC'97 Audio Codec.AVANCE LOGIC.ALC201	72.8	51.4	31.4
9. Memory	66.7	44.3	23.0
10. Q32 Linear Regulator TO-263.AMS.AMS1083CM	84.4	61.8	42.1
11. CD-ROM Surface	59.8	37.4	15.4
12. HDD Surface	65.3	43.4	22.4
13. Power Supply Surface	57.6	34.1	10.4
14. Control Box Inside Air Temperature - (1)	58.3	44.9	11.0
15. Control Box Inside Air Temperature - (2)	56.0	31.9	8.6
16. Control Box. External Surface	59.4	36.1	13.6
17. Chamber Air Temperature	50.5	25.7	0.6

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

Sample Configuration & Quantity Under Test:

Quantity: 1 (ARC-620 2U Rack Mounting Chassis)

Test Result:

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

ARC-620 (SBC-860 A1.2) 2U Rack Mounting Chassis

Test Date: 08-19~20-2004

Test Product: ARC-620 2U Rack Mounting Chassis (SBC-860 Rev: A1.2).

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.

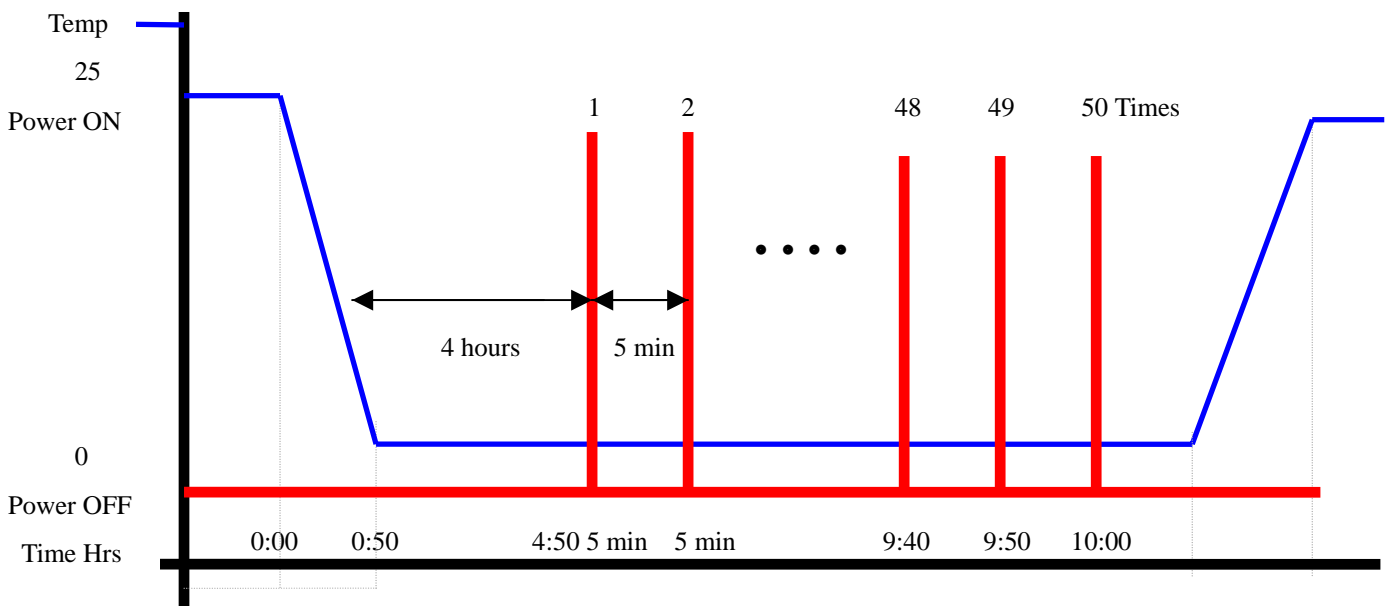
Model: THS-D4H+-100

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. **04I020001**

ARC-620 (SBC-860 A1.2) 2U Rack Mounting Chassis

Sample Configuration & Quantity Under Test:

Quantity: 1 (ARC-620 2U Rack Mounting Chassis)

Test Result:

Passed.

ARC-620 / 2U Rack Mounting Chassis

Test Date: 08-28~30-2004**Test Product:** ARC-620 2U Rack 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 (ARC-620 2U Rack Mounting Chassis)

Test Result:

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

ARC-620 / 2U Rack Mounting Chassis

Test Date: 08-26~28-2004

Test Product: ARC-620 2U Rack 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 (ARC-620 2U Rack Mounting Chassis)

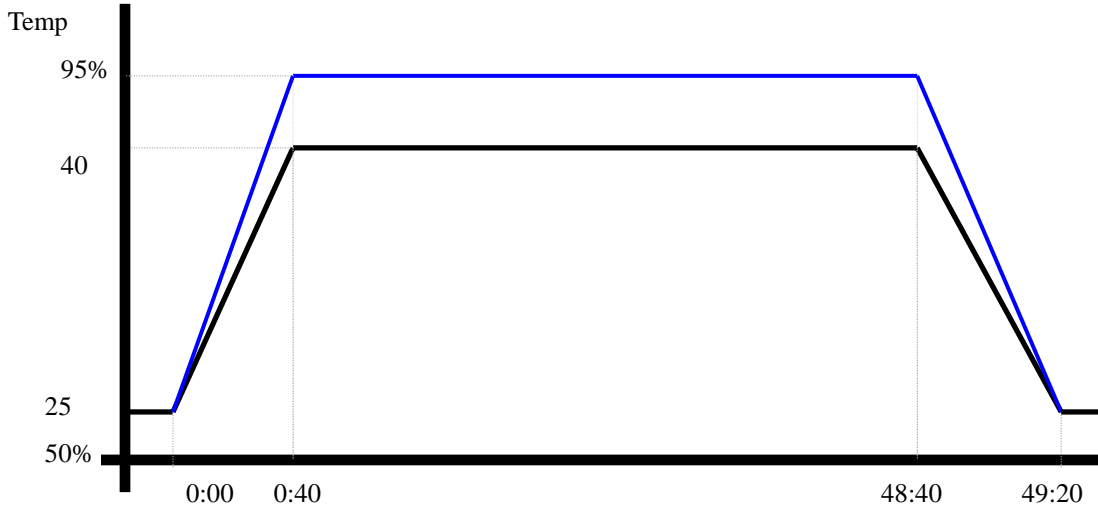
Test Result:

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

ARC-620 / 2U Rack Mounting Chassis

Test Date: 08-20~23-2004**Test Product:** AEC-620 2U Rack 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 (ARC-620 2U Rack Mounting Chassis)

Test Result:

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