



AWK-3501 (SBC-860 A1.2)

For EMI issue to modify AWK-3501 chassis

Environment Test Report

Report NO: 04P020006

Issued by:

/

04/09/2004

Rex-Chang
Engineer

Date

Reviewed by:

/

04/09/2004

Wenyuan Yang
Manager

Date

1. Test item list -----	2
2. Temperature cycle operation test -----	3
3. High temperature storage test -----	6
4. Humidity test-----	7

Test Configuration:

Num	Item	Spec
1.	Industrial Workstations:	AWK-3501
	1.LCD	15" AU M150XN05
	2.Power	SPS.ATX 100-240V 300W AC With PFC.UMEC.UPF300-AF
	3. Inverter	SI JING HARNG 5590D01
2.	CPU Board:	SBC-860 Rev:A1.2
	1. Bios Ver.	AWK-3501 Bios Ver.1.0(03/26/2004) [SBC-860 BIOS 1.2]
	2.CPU	Pentium4 / 3.06GHz
	3.Memory	SAMSUNG K4H560838C-TCB3 512MB(DDR 333)
	4.HDD	HITACHI IC25N020ATCS04-0 20GB
	5.CD-ROM	LITE-ON LTN-526D

CPU Cooler :

ARKUA 866S-7G (for Socket 478)



Speed: 4500 ±10% RPM

AWK-3501 (SBC-860 Rev:A1.2)

Test Date: 03-30~04-01-2004

Test Product : AWK-3501(SBC-860 Rev:A1.2) Industrial Workstations.

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 : 06/03/03
Serial Number: 1241

Temperature Measurement :

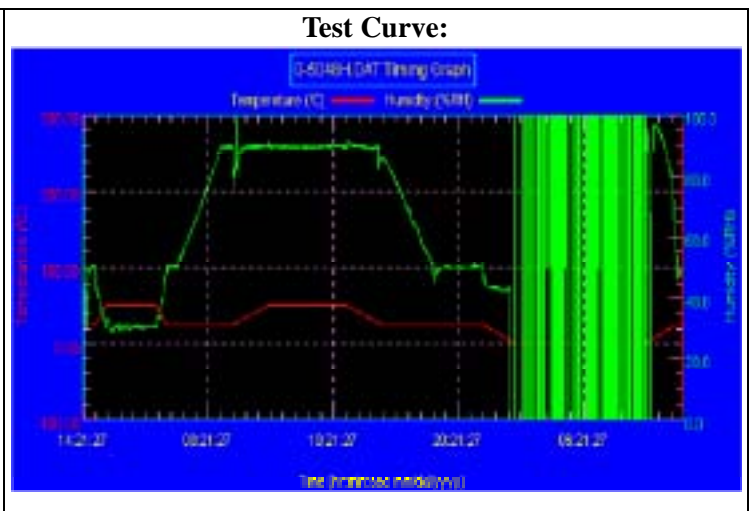
20 Channel Thermal Recorder:
YOKOGAWA Inc,
Model : DA100-13-1D
Date of Calibration : 01/03/03
Serial Number: 12A323190

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	50	30	00:50
4	50	30	04:00
5	25	50	00:50
6	25	50	00:50
7	25	90	03:30
8	25	90	01:00
9	50	90	02:46
10	50	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



Sample Configuration & Quantity Under Test :

Using one AWK-3501 Industrial Workstations.

AWK-3501 (SBC-860 Rev:A1.2)

Temperature Recorder :

Measuring Accelerometer Position:



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

Thermal profile data :

AWK-3501 Industrial Workstations

Point	Temp. Stage		
	50	25	0
1. Pentium 4 / 3.06GHz CPU	77.9	50.7	24.9
2. Intel 82845GL Chipset	75.7	48.5	22.9
3. Intel 82801 Chipset	74.4	47.8	23.4
4. ALC201 AC'97 Audio Codec	69.4	43.7	18.8
5. Memory Surface	69.6	44.3	19.1
6. HDD Surface	74.2	48.3	27.6
7. CD-ROM Surface	65.0	39.5	14.3
8. Inside Air Temperature (1)	61.5	33.7	7.7
9. Inside Air Temperature (2)	62.8	35.1	8.9
10. Control Box. External Surface	54.3	28.3	3.1
11. Chamber Air Temperature	51.6	25.0	0.4



Temperature/Humidity cycle test

Report NO. **04P020006**

AWK-3501 (SBC-860 Rev:A1.2)

Sample Configuration & Quantity Under Test:

Quantity: 1 (AWK-3501 Industrial Workstations)

Test Result:

Passed.

WK-3501 (SBC-860 Rev:A1.2)

Test Date: 12-31-2003 ~ 01-02-2004**Test Product :** WK-3501 (SBC-860 Rev:A1.2) Industrial Workstations**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-D4H+-100

Date of Calibration : 06/03/03

Serial Number: 1241

Testing Item :

1. Test Temperature: 65
2. Test Times: 48Hrs
3. Test Software: Windows media Player (Video test soft-MPEG form HDD)
4. Test Environment Curve:

**Sample Configuration & Quantity Under Test:**

Quantity: 1 (WK-3501 Industrial Workstations)

Test Result:**Passed.**

AWK-3501 (SBC-860 Rev: A1.2)

Test Date: 03-26~29-2004**Test Product:** AWK-3501 (SBC-860 Rev: A1.2) Industrial Workstations**Test Site:** AAEON QA Internal Lab.**Performed By:** Rex Chang**Test Standard:** Reference IEC 68-2-30 Testing procedures
Test Db: Humidity test (Non-operation)**Test Equipment:**Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-D4H+-100

Date of Calibration: 06/03/03

Serial Number: 1241

Testing Item:

1. Test Temperature: 40
2. Test Humidity: 95%RH
3. Test Times: 48Hrs
4. Test Software: Windows media Player (Video test soft-MPEG form HDD)
5. Test Environment Curve:

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

Quantity: 1 (AWK-3501 Industrial Workstations)

Test Result :**Passed.**