



AAEONTechnology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

AMB-551 (SBC-676)

Temperature / Humidity Test Report

Issued by:

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QE Engineer

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05/21/2002

Date

Reviewed by:

Wen - Yuan Yang
QE Manager

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05/21/2002

Date

1. Test Product: Modular System Industrial Panel PCs

2. Model Name: AMB-551(SBC-676)

3. Test Date: 05-18-2002

4. Test Site: AAEON QA Internal Lab.

5. Test Equipment

Type	MFR	Model Number	Serial Number	Last CAL.
Programmable Temperature & Humidity Chamber	KSON	THS-D4H+-100	1241	06/10/01

6. Test Standard:

NO.	Description
IEC 68-2-61	Test Z/ABD : Climatic Sequence Test
N/A	Power ON/OFF 50 Times at 0

7. Testing Item:

- Temperature & Humidity Cycle
- Test 0 Power On/Off Test

8. Additional Test Peripheral:

Configuration	Model
Test O.S.	Win98SE
Test Software	Windows Media Player (VCD viewing)
Test Fixture (For Test Software)	Temperature Recorder Fixture
Test Fixture	Power on/off(110V) Fixture

9. Sample Configuration & Quantity Under Test:

Quantity: 1 (15" LCD + Control Box)

Sample Configuration:

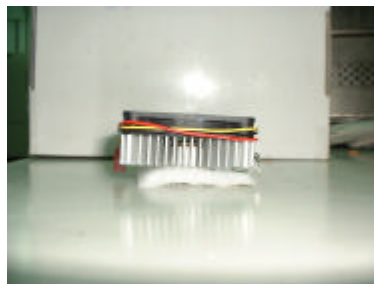
9-1 15" VGA Color TFT LCD Displays

Component	Model Name	Temperature		Humidity	
		Operation	Storage	Operation	Storage
15" LCD	Fujitsu FLC 38XGC6V-06	0 ~ 50	-20 ~ 60	20 ~85%RH.	5 ~85% RH.
Inverter	SI JING HARNG 8592F-01	0 ~ 50	-10 ~ 85	90% MAX.RH.	95% MAX.RH.
Switching Power Supply	Magic Power MPI-925A	0 ~ 70 (-20 Can be started up)	-40 ~ 75	5 ~95%RH (noncondensing at 40)	90%RH (at 65 for 24 hours)

9-2 Control Box

CPU	Intel Pentium 1GHz(100x10)
DRAM	64MB NEC D4564841G5-A10-9JF(PC100 SDRAM)
PCB	SBC-676 A1.0
System BIOS Version	SBC-676 BIOS 1.1
HDD	Fujitsu MPG3204AT-E
Power (P/N)	1757325030
Cooler (P/N)	1759200152

Cooler (P/N) : 1759200152



10. Test Result:

Standard	Description	Result
IEC 68-2-61	Temperature & Humidity Cycle Test (Windows Media player used for viewing VCD)	Pass
N/A	Power ON/OFF 50 Times at 0	Pass

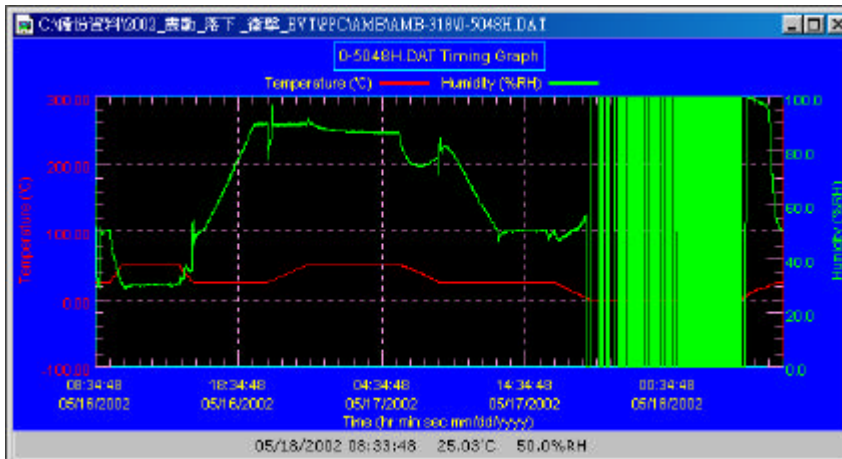
Note : 1.Dummy load : 5V/1A(5W);12V/0.5A(6W) x 2 pcs

11. Temperature & Humidity Cycle Test:

11-1 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

11-2 Test Curve:

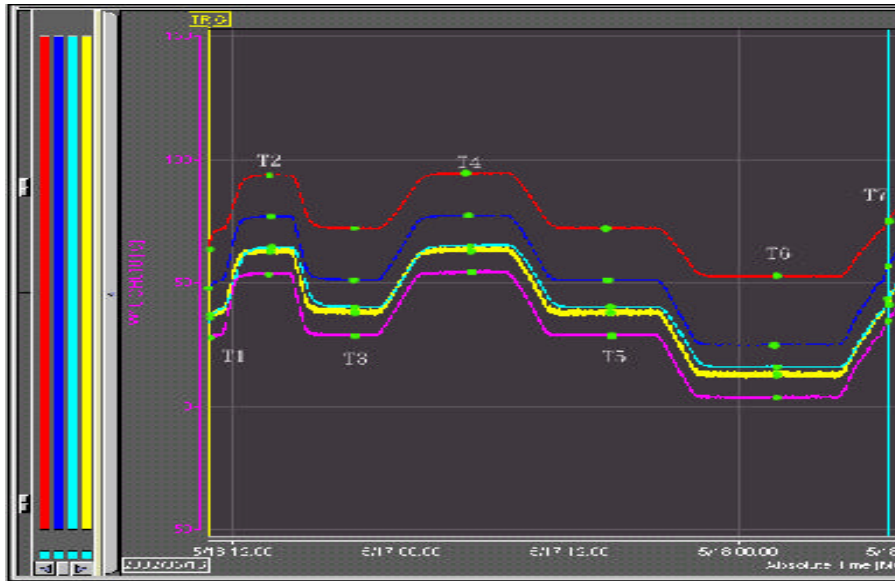


12. Temperature Recorder

12-1 Measuring Accelerometer Position:



12-2 Temperature chart:



Channel	Channel 1 (Inverter)	Channel 2 (CPU)	Channel 3 (Control Box)	Channel 4 (HDD)	Channel 5 (Chamber)
T1 (25)	63.1	46.9	33.8	34.7	27.8
T2 (50)	93.8	76.8	64.2	63.2	53.4
T3 (25)	72.0	50.9	40.3	38.4	28.9
T4 (50)	94.5	77.3	65.1	63.7	54.3
T5 (25)	72.0	51.1	40.4	38.2	29.0
T6 (0)	52.7	25.0	16.1	12.2	3.7
T7 (25)	67.3	45.7	33.3	33.9	25.0

13. Power ON/OFF 50 Times at 0 :

13-1 Testing Specification:

Step	Temperature ()	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:01
2	25	50	00:05
3	0	0	00:40
4	0	0	01:00
5	25	0	00:40
6	25	50	00:01

13-2 Test Curve:

