

# OMNI-3125-BT

## Environment Test Report

Report NO: 16P020008

Summary	<input checked="" type="checkbox"/> <b>Pass</b>  <input type="checkbox"/> <b>Fail</b>  <input type="checkbox"/> <b>Pass with Deviation</b> Comment: _____
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Issue date

2016-05-31

QE Manager

KJ Wang

Test Engineer

Rex Chang

# Test item list

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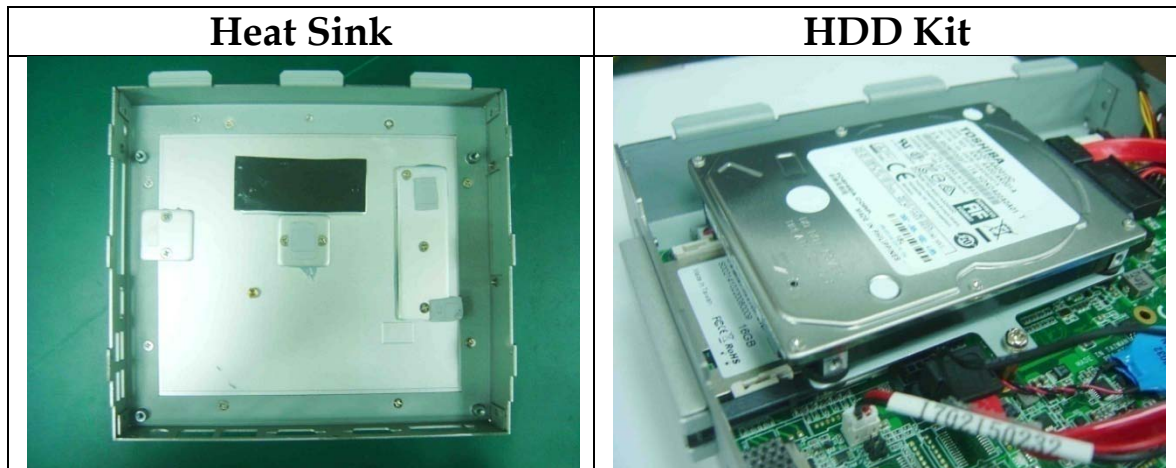
## Testing Result

Num	Test item list	Result	Remark
1	Temperature cycle operation test	Pass	
2	High temperature storage test	Pass	
3	Low temperature storage test	Pass	
4	Humidity test	Pass	
5	Cold start and hot start test	Pass	

# Configuration of EUT

Num	Item	Spec
<b>OMNI-3125-BT</b>		
1	12.1" TFT LCD	1024*768 AUO.G121XN01 V0.one channel LVDS
2	CPU Board	PBA-BT03 Ver. B0.1
3	CPU	Intel® Celeron® Processor J1900 / 2.0GHz
4	BIOS	OMNI SERIES R0.2 (OMBTAM02)(03/03/2016)
5	Wide Temp. Memory	MEMPHIS 8GB / DDR3L 1600 / IM IM4G08D3F ABG-125ITW
6	USB Flash	Transcend 8GB (For DOS Mode Power On/Off Test Only)
7	Wide Temp. 2.5" SATA HDD	TOSHIBA MQ01AAD010C / 100GB
8	Wide Temp. CFast	Innodisk 3ME Series 16GB / DECFA-16GD07SW2DC-26
9	Test Software	Windows 8 / Run PassMark Burn In Test 8.1 Pro From HDD
10	Adapter	FSP FSP120-ABAN2 / Output: 19V, 6.32A

## Photos



# Temperature cycle test

**Test Date:** 05-27 ~ 30-2016

**Test Product:** OMNI-3125-BT

**Test Site:** AAEON QE Dept.

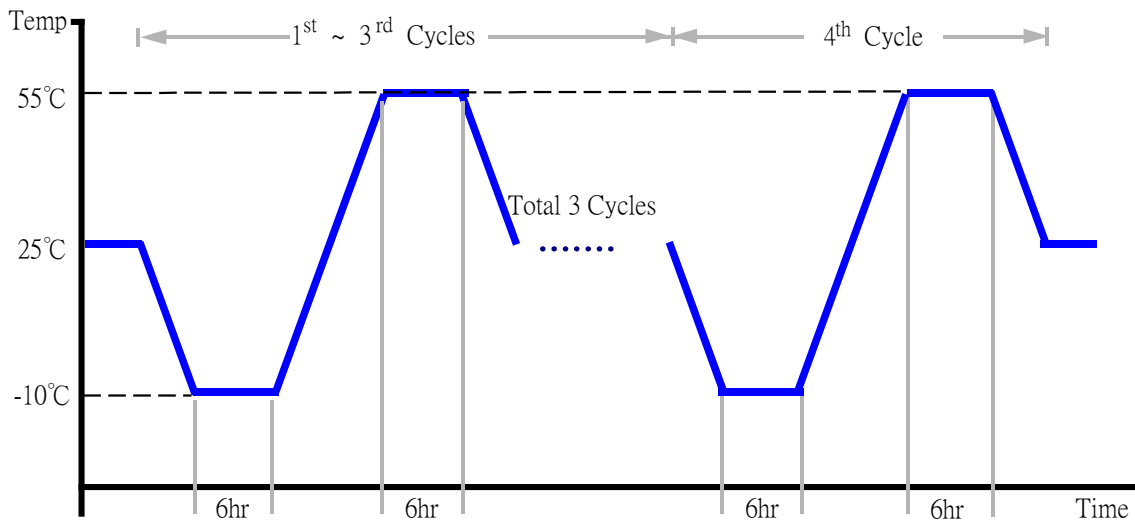
**Test Standard:** Refer to IEC68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/10/15  
Due date of Calibration: 09/09/16  
Serial Number: A0004

**Test Condition:**

1. Test Low Temperature:  $-10^{\circ}\text{C}$
2. Test High Temperature:  $55^{\circ}\text{C}$
3. Test dwell time: 6Hrs
4. Temperature slope:  $2^{\circ}\text{C}/\text{min}$
5. Test cycle: 4 cycles
6. Test Software: Windows 8 / Run PassMark Burn In Test 8.1 Pro
7. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (OMNI-3125-BT)

**Test Result:**

No issues were found during the temperature operation cycle test.

# High temperature storage test

**Test Date:** 05-18 ~ 20-2016

**Test Product:** OMNI-3125-BT

**Test Site:** AAeon QE Dept.

**Test Standard:** Refer to 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-D7TS-100+LN2

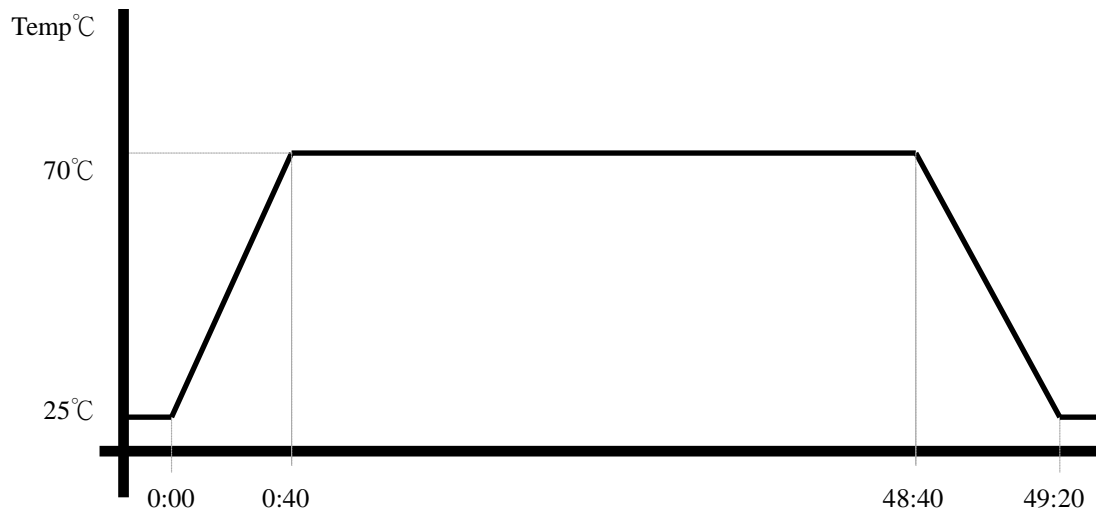
Date of Calibration: 09/10/15

Due date of Calibration: 09/09/16

Serial Number: A0004

**Testing Item:**

1. Test Temperature: 70°C
2. Test Times: 48Hrs
3. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (OMNI-3125-BT)

**Test Result:**

No issue was found after the high temperature storage test.

# Low temperature storage test

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**Test Date:** 05-20 ~ 23-2016

**Test Product:** OMNI-3125-BT

**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to 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-D7TS-100+LN2  
Date of Calibration: 09/10/15  
Due date of Calibration: 09/09/16  
Serial Number: A0004

**Testing Item:**

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



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (OMNI-3125-BT)

**Test Result:**

No issue was found after the low temperature storage test.

# Humidity test

**Test Date:** 05-23 ~ 26-2016

**Test Product:** OMNI-3125-BT

**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to 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-D7TS-100+LN2

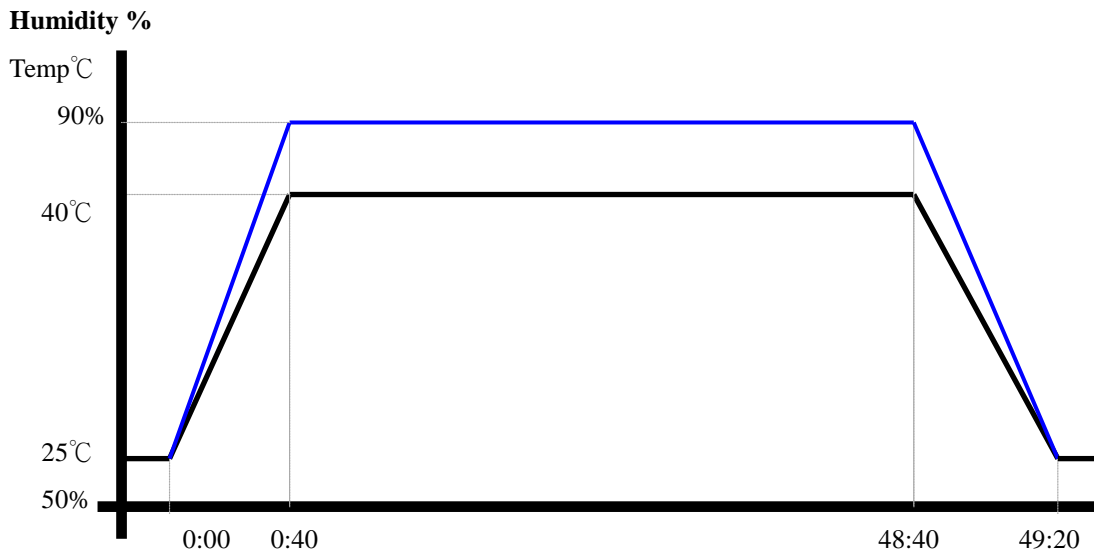
Date of Calibration: 09/10/15

Due date of Calibration: 09/09/16

Serial Number: A0004

**Testing Item:**

1. Test Temperature: 40°C
2. Test Humidity: 90%RH
3. Test Times: 48Hrs
4. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 1 (OMNI-3125-BT)

**Test Result:**

No issue was found after the humidity storage test.

# Cold start and hot start test

**Test Date:** 05-26~ 27-2016

**Test Product:** OMNI-3125-BT

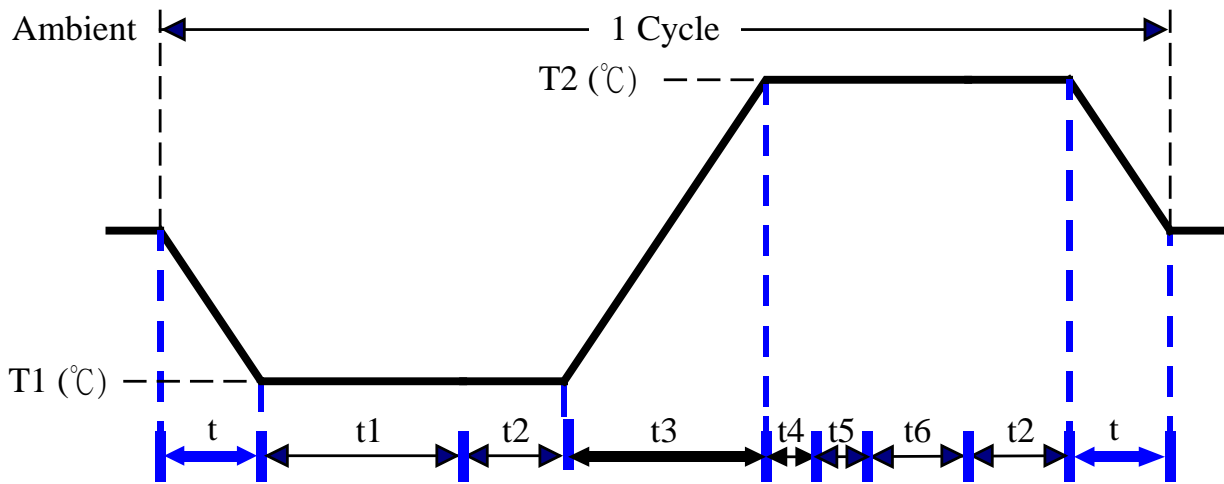
**Test Site:** AAEON QE Dept.

**Test Standard:** Refer to IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/10/15  
Due date of Calibration: 09/09/16  
Serial Number: A0004

**Test Condition:**



Parameters	Description
T1	-10°C
T2	55°C
t1	4 hrs
t2, t6	2 hrs
t4, t5	1hrs
t, t3	2°C/min
n (Cycle)	1

t = temprature slope  
t , t1, t6: Power Off  
t2: Power on/off test 10 times (on 2 min / off 5min)  
t3, t4: Run PassMark Burn In Test  
t5: Win 8 Software restart test 2 times  
Test Software:Windows 8

**Test Result:**

- a. No issues were found during the cold start test.
- b. No issues were found during the hot start test.