

EdgeVR50

ECO Test Report

Version 1.0

VERINT			Advantech DQA		
Approved by			Approved by	Richard Liao	29-Jun-2012

Version History

Version	Date	Handled by	Comments
1.0	29-Jun-2012	Allens Liu	First Version

Document Version Summary

Version	Description
1.0	HDD Compatibility test for WD 1.0TB (WD10JUCT-63J6SY0).

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1. FUNCTION TEST

1.01 Storage

1.01.1 SATA Device Check

Test Date: 2012/06/28

Test Site: Advantech DQA

Performed by: Allens Liu

1.01.1.01 Test Purpose:

Evaluate whether the SATA Port Function are workable and maintained in a stable condition when working at reading and writing.

1.01.1.02 Test Standard:

Please refer to the following documents:

A-01. AIMB-212_A101-3.PDF

A-02. DVA-815_A101-1.PDF

A-03. EdgeVR50 system diagram.pdf

1.01.1.03 Test Equipment:

1. USB Keyboard
2. Monitor: VA1932wa

1.01.1.04 Sample Configuration & Quantity Under Test:

Using one EdgeVR50 with the following options installed:

Configuration:	A
1.MB rev.	AIMB-212 A101-3
-S/N:	PASB133605
-CPU:	Intel Atom N450 1.66GHz
-RAM:	Transcend 512MB DDR2 667 SO DIMM CL5
-BIOS:	12NE1128
-HDD:	WD 1TB 2.5" SATA MDL: WD10JUCT-63J6SY0 S/N: WXE1C22K4379
-Compact Flash Card:	ADVANTECH SQFlash-P10S2-4G-CTE
2. DI Board Rev.	DVA-815 A101-1
-S/N:	ECD0029843
3. Power Supply:	FSP060-DBAB1 (MAX:60W)

1.01.1.05 Test Condition:

1. Test ambient: room temperature
2. OS: Red Hat Enterprise Linux 5.5 32bit
3. Software: copy, compare

1.01.1.06 Test procedure:

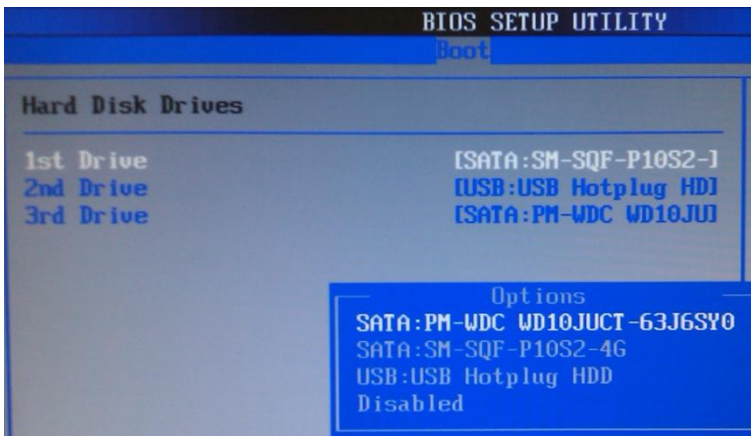
1. Connect SATA HDD and turn on the DUT
2. Boot into Red Hat Enterprise Linux 5.5 32bit successfully.
3. Run copy compare test program from CF Card to SATA HDD
4. Follow [Table 1.01.1.01](#) to test.

1.01.1.07 Test Data:
Configuration: A.

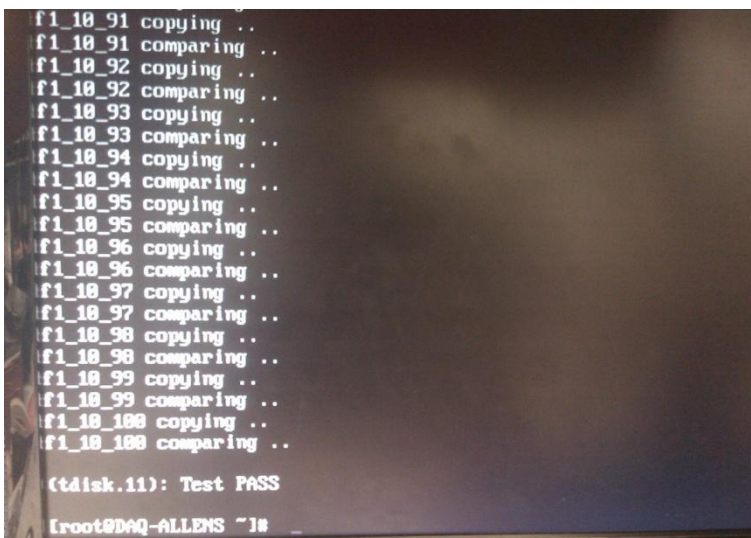
Table 1.01.1.01 SATA Port Test

Check item		Method	Criteria	Measurement	Judgment
SATA1	Boot Test	Check SATA ID	Check SATA HDD ID should be show on BIOS.	SATA HDD ID can show on BIOS.	See below Note-1 PASS
	Access Test	Run Copy Compare test	Run Copy & Compare test 1000 times.	There is no error by test.	See below Note-2 Pass to test. PASS

Note-1



Note-2



1.01.1.08 Evaluation Criteria:

There is not any error occurred during test.

1.01.1.09 Test Result:
PASS

1.01.1.10 Conclusion:
PASS

1.02 System On/Off Test

1.02.1 HDD AC on/off

Test Date: 2012/06/28~2012/06/29

Test Site: Advantech DQA

Performed by: Allens Liu

1.02.1.01 Test Purpose:

Confirm whether the EdgeVR50 restarts normally with the AC on/off test.

1.02.1.02 Test Standard:

Please refer to the following documents:

A-01. AIMB-212_A101-3.PDF

A-02. DVA-815_A101-1.PDF

A-03. EdgeVR50 system diagram.pdf

1.02.1.03 Test Equipment:

1. USB Keyboard
2. Monitor: VA1932wa
3. AC Power on/off kit

1.02.1.04 Sample Configuration & Quantity Under Test:

Using one EdgeVR50 with the following options installed:

Configuration:	A
1. MB rev.	AIMB-212 A101-3
-S/N:	PASB133605
-CPU:	Intel Atom N450 1.66GHz
-RAM:	Transcend 512MB DDR2 667 SO DIMM CL5
-BIOS:	12NE1128
-HDD:	WD 1TB 2.5" SATA MDL: WD10JUCT-63J6SY0 S/N: WXE1C22K4379
-Compact Flash Card:	ADVANTECH SQFlash-P10S2-4G-CTE
2. DI Board Rev.	DVA-815 A101-1
-S/N:	ECD0029843
3. Power Supply:	FSP060-DBAB1 (MAX:60W)

1.02.1.05 Test Condition:

1. Test Temperature: Room Temperature
2. Power on/off counter kit setting:
Restore on AC Power loss - Last State: AC on period: 30 sec; AC off period: 10 sec.
3. Test Software: Boot up record program V1.43
4. Test O.S: DOS.

1.02.1.06 Test Procedure:

Restore on AC Power loss - Last State

1. Check the "Restore on AC power loss" to "Last State" in BIOS then save & exit.
2. Set AC on period for 30 sec; AC off period for 10 sec for power on/off kit.
3. Connect power cord from AC Source to power on/off kit.
4. Connect power cord form EUT to power on/off kit
5. Turn on the EUT and boot into "Boot up record program"
6. During the boot time, EUT should enter DOS and execute boot up record program.

7. During the off time, keep EUT off (G4).
8. Repeat steps 6~7 for 1000 round time.
9. Check the boot counter of kit and utility are the same or not.

1.02.1.07 Test Data:

Configuration: A.

Table 1.02.1.01 AC on/off Test result

Item	Criteria	Measurement	Judgement
AC Power on/off test (Restore on AC Power loss - Last State)	Counter number in utility should be same with counter in machine.	See below Note-1	PASS

Note-1



1.02.1.08 Evaluation Criteria:

1. During On/off, it sure be no error
2. Boot counter of machine sure be same with utility.

1.02.1.09 Test Result:

PASS

1.02.1.10 Conclusion:

PASS

2. REFERENCE

A-01	AIMB-212_A101-3.PDF	
A-02	DVA-815_A101-1.PDF	
A-03	EdgeVR50 system diagram.pdf	