

Report NO:14P010006

nvRAM (PER-T276)

nvSRAM 1M

P5 Verification Test Report

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation (Comment: _____)			
	Test Results Category			
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date

2014/3/11

Approval

Tom Lin

Test Engineer

Aslen Hsieh

Summary Table of DTS:

Defect No.	Severity	Description

Version Released Records

Date	Version	Change History	Note
2010/04/21	P3-1001	1. Re-composing test Items	
2010/06/01	P2P3-1001	1. New Test Report	
2010/06/21	P2P3-1002	1. Add BIOS -> SPI ROM Setting (South Bridge – GPIO)	
2010/12/02	P2P3-1003	1. New Test Report	
2011/02/23	P2P3-1101	1. Re-composing test Items	
2011/03/04	P2P3-1102	1. Add Specification Validation	
2012/05/29	P2P3-1201	1. Add Summary Table of DTS	
2012/11/30	P2P3-1202	1.Rename P2/P3 Test Plan & Report Template 2. Add 7.3. Windows XP Professional English Version 32/64Bit	

Note :

For all test items in this report, 3 results have been defined and described as following:

- Pass: Functionality work perfectly
- Fail: Functionality failed and must be resolved in the next version
- N/A: Functionality Not Applicable or Not Available

This test report would be updated when re-test completed in product next change version.

Specification Verification

Main Specification

Item	Specification	Result			Note
		Pass	Fail	N/A	
Processor	PER-T276 (nvRAM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Controllers	Lattice: LCMX02-1200HC, 4TG100C, A3141RZ5 x 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Interface	Low-Pin-Count (LPC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
nvSRAM	CYPRESS, nvSRAM x 4 on module 128K x 8 (1M)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

O.S. Support

Item	Specification	Result	Note
Microsoft Windows	Windows XP Professional English SP3 32 Bit	<input checked="" type="checkbox"/>	
	Windows 7 English 32 Bit	<input checked="" type="checkbox"/>	

Environmental Specifications

Item	Specification
Operating temperature	(-20°C ~ 60°C) without airflow
Storage temperature	(-20°C ~ 70°C)*
Storage humidity	5 ~ 90% @ 40C, non-condensing
Vibration	1g RMS / 5~ 500Hz / operation – With HDD
Shock	20G peak acceleration (11 msec. duration) – With HDD
Drop	76cm (1 Corner, 3 Edge, 6 Surface)
EMC	CE /FCC class A

Note: Please refer Environment Test Report for detail information

Platform Information

Item	Device Information	Test Item
NIM module	nvRAM (PER-T276)	1,2
System Model/Version	N/A	1,2
CPU Board	Gene-CV05 A1.0	1,2
BIOS / Version	Gene-CV05 R1.4 (GCV5AM14) (12/19/2012)	1,2
CPU Type	Intel® Atom™ N2600 1.60GHz	1,2
Memory Type	Transcend / SEC K4B2G0846D / DDR3-1333 2GB	1,2
SATA HDD	TOSHIBA 2.5" SATA HDD 100GB (MK1060GSC)	1,2
SATA DVD-ROM	N/A	1,2
USB DVD-ROM	ASUS SDRW-08D2S-U	1,2
LCD Monitor	ASUS PA238Q 23" monitor 1920*1080	1,2
LVDS	N/A	1,2
Compact Flash	N/A	1,2
Daughter Board	N/A	1,2
Expansion Board	N/A	1,2
	N/A	1,2
Operating System	<input checked="" type="checkbox"/> Windows 7 Ultimate SP1 32Bit	1,2
	<input checked="" type="checkbox"/> Windows XP Professional English SP3 32 Bit	1,2
Power Supply	ATX Power Supply : N/A	1,2
	AT Power Supply: N/A	1,2
	DC Adapter : FSP 12V (FSP060-DBAB1)	1,2
Battery Model	N/A	1,2
Chipset Information with Windows 7 Ultimate English SP1 32 Bit Driver Version		
Chipset Software	Intel(R) Chipset Device Software 9.2.2.1034(7/20/2011)	
PCH Bridge	Intel Gedarview M/D	
South Bridge	South Bridge Intel NM10	
VGA Chipset	VGA Chipset Intel® Graphics Media Accelerator 3600 Series 8.14.8.1086(8/17/2012)	
Audio Chipset	Audio Chipset Realtek High Definition Audio 6.0.1.6695(7/31/2012)	
Ethernet Chipset	Ethernet Chipset Realtek PCIe GBE Family Controller 7.53.216.2012 (2/16/2012)	

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1. O.S. Compatibility Test

1.1. Windows 7 Ultimate English Version 32Bit

Driver Information:

Chipset Software	Intel(R) Chipset Device Software 9.2.2.1034(7/20/2011)
Graphics Media	Intel® Graphics Media Accelerator 3600 Series 8.14.8.1086(8/17/2012)
Audio Driver	Realtek High Definition Audio 6.0.1.6695(7/31/2012)
LAN Driver	Realtek PCIe GBE Family Controller 7.53.216.2012 (2/16/2012)

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows 7 Ultimate AHCI Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

1.2. Windows XP Professional English Version 32Bit

Driver Information:

Chipset Software	Intel(R) Chipset Device Software 9.2.0.1030 (4/15/2011)
Graphics Media	Intel™ Atom™ processor N2000/D2000 Series Embedded Media and Graphics Drivers 1.15.0.3190 (8/19/2012)
Audio Driver	Realtek High Definition Audio 5.10.0.6695 (7/31/2012)
LAN Driver	Realtek PCIe GBE Family Controller 5.788.613.2011 (6/13/2011)

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows XP Professional IDE Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Stress Test

	Hardware Information with Windows 7 Ultimate English Version 32Bit Driver Version
CPU	Intel® Atom™ N2600 1.60GHz
Memory	Transcend / SEC K4B2G0846D / DDR3-1333 2GB
HDD	TOSHIBA 2.5" SATA HDD 100GB (MK1060GSC)

2.1 nvRAM Utility Test

Test Item	Result			Note
	Pass	Fail	N/A	
Run PER-nvRAM Utility over 24 hours.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Read / Write Byte	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(Send data & Receive data)
Read / Write Word	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(Send data & Receive data)
Read / Write Double Word	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(Send data & Receive data)