

Report NO: 14I010009

FWS-2250

Intel BayTrail Soc 4 LANs Network appliance

System Level Product 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

2014/07/21

Approval

Tom Lin

Test Engineer

Danny Chen

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	P2P2-1003	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	

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 Validation**Main Specification**

Item	Specification	Result			Note
		Pass	Fail	N/A	
Product Name	FWS-2250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Processor	Onboard INTEL ATOM E3815 1.46GHz Soc Onboard INTEL ATOM E3822 1.46GHz Soc Onboard INTEL ATOM E3826 1.46GHz Soc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chipset	Intel Bay Trail SoC				
System Memory	2 x 204-pin DDR3(L) 1066MHz SoDIMM up to 8GB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VGA Controller	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ethernet	INTEL i211 (Co-lay with INTEL i210), Gigabit Ethernet x 4 (Optional 1 pair bypass)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BIOS	AMI BIOS ROM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Serial ATA	1 x SATA II port on board (Optional)				
Serial Port	1 x RJ-45 ConsoleMeet TPM V1.2 (optional)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Keyboard and Mouse	Reserve pin-header	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Universal Serial Bus	2 x USB 2.0 Type A on I/O side 1 x USB 3.0 Type A on I/O side (Optional) 1 x USB 2.0 for internal pin-header	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Expansion Interface	Mini-Card socket x 1(Optional) SD Socket x 1(Optional)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RTC	Internal RTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Watchdog Timer	1~255 step by software programmable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Storage	CompactFlash™ socket x 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Power Requirement	1 x 12V DC power in connector / 40W Power Adapter 4-pin DC power out connector for HDD (optional)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rear I/O panel	2 x USB 2.0 Ports 4 x RJ-45 Ports 1 x RJ-45 Console 1 x 12V DC Power Input 1 x Software Reset Switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Front I/O panel	1 x USB 3.0 Ports (Optional) 1 x Power LED 1 x Status LED 1 x HDD Active LED 8 X LAN LEDs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

O.S. Support

Item	Specification	Result	Note
Microsoft Windows	Windows 7 32 bit	<input type="checkbox"/>	Driver not ready
Microsoft Windows	Windows 7 64 bit	<input type="checkbox"/>	Driver not ready
Microsoft Windows	Windows 8.1 32 bit	<input checked="" type="checkbox"/>	
Microsoft Windows	Windows 8.1 64 bit	<input checked="" type="checkbox"/>	
Linux Fedora	Ubuntu 11.04	<input checked="" type="checkbox"/>	

Environmental Specifications

Item	Specification
Operating temperature	0°C ~ 60°C
Storage temperature	-4 ~ 140°F (-20 ~ 60°C)
Operating humidity	10 ~ 80%
Storage humidity	10 ~ 80% @ 40C, non-condensing
Vibration	0.5G / 5 ~ 500Hz / operation (2.5" H.D.D) 1.5G / 5 ~ 500Hz / no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non operation

Note: Please refer Environment Test Report for detail information

Platform Information

Item	Device Information	Test Item
Model Name	FWS-2250	1,2,3,4,5,6,7,8,9
BIOS / Version	FWS-2250 R1.0 (K225AM10) (06/16/2014) x64	1,2,3,4,5,6,7,8,9,
CPU Type	Onboard INTEL ATOM E3815 1.46GHz Soc Onboard INTEL ATOM E3822 1.46GHz Soc Onboard INTEL ATOM E3826 1.46GHz Soc	1,2,3,4,5,6,7,8,9,
Memory	Transcend DDR3L 1333 SO-DIMM 2G	1,2,3,4,5,6,7,8,9,
Compact Flash	Innodisk iCF9000 32GB Innodisk iCF9000 64GB	1,2,3,4,5,6,7,8,9,
USB DVD-ROM	Pioneer DVR-XD10T USB DVD	1,2,3,4,5,6,7,8,9,
SATA HDD	WD WD5000BPKX 500GB 2.5" SATA HDD	1,2,3,4,5,6,7,8,9,
VGA	ASUS VE228 "22"	1,2,3,4,5,6,7,8,9,
Display Port	N/A	1,2,3,4,5,6,7,8,9,
LVDS	N/A	1,2,3,4,5,6,7,8,9,
Daughter Board	N/A	
Operating System	<input checked="" type="checkbox"/> Linux Fedora 11.04	7-1
	<input checked="" type="checkbox"/> Windows 7 Ultimate 32 / 64Bit	7-2
	<input checked="" type="checkbox"/> Windows 8.1 32 / 64 bit	7-3
Power Supply	ATX Power Supply : No Support	
	AT Power Supply: No Support	
	DC Adapte : DC 12V Power Adapter	1,2,3,4,5,6,7,8,9,
Chipset Information with Win8.1Enterprise English SP1 Driver Version		
Chipset Software	Intel ® Chipset Device Software 9.4.41006 (August/01/2013)	
South Bridge	Intel Bay Trail SOC	
VGA Chipset	Intel ® HD Graphics 10.18.10.3366 (11/26/2013)	
Ethernet Chipset	Intel ® I211 Gigabit Network Connection 12.7.28.0 (5/16/2013)	

Summary Table of contents:

FWS-2250.....	1
Specification Validation	3
Main Specification	3
Environmental Specifications	4
Platform Information	5
1. Hardware Test.....	7
1.1. CPU Compatibility Test.....	7
1.2. Memory Compatibility Test	7
1.3. SATA Compatibility Test.....	7
1.4. IDE Compatibility Test [X] No Support.....	8
1.5. Compact Flash Compatibility Test [] No Support.....	8
2. Basic Function Test.....	9
2.1. Video Function Test	9
2.2. Audio Function Test [X] No Support	11
2.3. LAN Function Test.....	11
2.4. Optional Function Test [X] No Support.....	14
3. Integration Test	15
3.1. USB Port Integration Test (USB 3.0 x 1 / USB 2.0 x 2).....	15
3.2. Digital I/O Port Test [x] No Support:.....	15
3.3. COM Port Integration Test [x] No Support.....	15
3.4. RS-232 Test [x] No Support.....	15
3.5. LPT Port Test [x] No Support	16
3.6. Burn In Test.....	16
4. Application Test.....	17
4.1. PCI Slot Function (PCI Adapter Card) Test [X] No Support	17
4.2. PCI-Express Function Test.....	17
4.3. Mini PCI Card Compatibility Test [X] No Support	18
4.4. CardBus (PCMCIA) Compatibility Function Test [X]No Support.....	18
4.5. ISA Slot Function Test [X] No Support.....	18
4.6. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104.....	19
4.7. SSD Modules Compatibility Test	19
4.8. Peripheral Compatibility- Storage Device Test	19
4.9. Riser Card Function Test [X] No Support	20
4.10. Super IO Card Function Test [X] No Support	20
5. Power Consumption Test	21
5.2. PC Health Status.....	21
6. Time Accuracy Test.....	22
6.1. System Clock & RTC Clock Test.....	22
6.2. Booting Timer Test.....	22
6.3. Watchdog Timer Test.....	22
7. O.S. Compatibility Test	23
7.1. English Ubuntu 11.04 Kernel 2.6.38-8-generic	23
7.2. Windows 7 Ultimate English Version 32/64Bit	24
7.3. Windows 8.1 Enterprise English Version 32/64Bit.....	25
8. BIOS Function Test	26
8.1. Advanced Test	26
8.2 Chipset Test	27
8.3. Boot Sequence Test	27
8.4. CMOS Backup / Clear CMOS Test	27
8.5. AAEON Tag Check Utility	27
8.6. Supervisor / User Password Test	27
8.7. Hi-safe Test	28
8.8. Hi-Manager Test [X] No Support	28
9. Performance Test	29

1. Hardware Test

1.1. CPU Compatibility Test

CPU Information	Result			Note
	Pass	Fail	N/A	
Onboard INTEL ATOM E3815 1.46GHz Soc	☒	☐	☐	Prime95
Onboard INTEL ATOM E3822 1.46GHz Soc	☒	☐	☐	
Onboard INTEL ATOM E3826 1.46GHz Soc	☒	☐	☐	

1.2. Memory Compatibility Test

Memory Information	MEM V4.0			Note
	Pass	Fail	N/A	
Transcend DDR3L 1333 SO-DIMM 2G	☒	☐	☐	
Transcend DDR3L 1333 SO-DIMM 4G	☒	☐	☐	
innoDisk DDR3L 1333 SO-DIMM 8G	☒	☐	☐	
innoDisk DDR3L 1066 SO-DIMM 2G	☒	☐	☐	
innoDisk DDR3L 1066 SO-DIMM 4G	☒	☐	☐	

1.3. SATA Compatibility Test

1.3.1 Onboard SATA (IDE Mode) Test

SATA Device Information	Result			Note
	Pass	Fail	N/A	
Innodisk iCF9000 32GB	☒	☐	☐	Under Win 8.1
TOSHIBA MK3276GSX 2.5 SATA 320GB (Optional)	☒	☐	☐	
WD WD3200BEVT 2.5 SATA 320 GB (Optional)	☒	☐	☐	
	☐	☐	☒	

1.3.2 Onboard SATA (RAID) Test

[x] No Support

SATA RAID Test	Result			Note
	Pass	Fail	N/A	
RAID-0 (HDDx2) Striping/Span Test	☐	☒	☐	
	☐	☒	☐	
RAID-1 (HDDx2) Mirror Test	☐	☒	☐	
	☐	☒	☐	
RAID-5 (HDDx3) Striping/Span Test Rotation Parity	1	☐	☒	
	2	☐	☒	
	3	☐	☒	
	4	☐	☒	
RAID-10 (HDDx3) Striping/Span Test Mirroring	1	☐	☒	
	2	☐	☒	
	3	☐	☒	
	4	☐	☒	

1.3.3 Onboard SATA (AHCI Mode) Test

SATA AHCI Test	Result			Note
	Pass	Fail	N/A	
Innodisk iCF9000 64GB	☒	☐	☐	Under Win 8.1
TOSHIBA MK3276GSX 2.5 SATA 320GB (Optional)	☒	☐	☐	
WD WD3200BEVT 2.5 SATA 320 GB (Optional)	☒	☐	☐	

1.4. IDE Compatibility Test**[X] No Support**

IDE Device Information	Result			Note
	Pass	Fail	N/A	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

1.5. Compact Flash Compatibility Test [] No Support

Compact Flash Information	Result			Note
	Pass	Fail	N/A	
Innodisk iCF9000 32GB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Innodisk iCF9000 64GB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Basic Function Test

2.1. Video Function Test

2.1.1. Single Output Function Test

Hardware Information with Win8 Enterprise English SP1 32 Bit Driver Version											
Resolution		VGA			D-Port			LVDS			Note
Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A			
640X480	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
800X600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1024X768	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1152X864	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X720	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X768	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X800	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X960	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1280X1024	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1360X768	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1366X768	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1400X1050	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1440X900	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1600X900	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1600X1200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1600X1050	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1680X1050	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1856X1392	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1920X1080	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rotation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rotation (0 / 90 /180 /270)	

Note: Pay attention with Full Screen under POST screen and Text Mode.

2.1.2. Dual Output Function Test

Selection	Output	Result			Note
		Pass	Fail	N/A	
Dual Display Clone	CRT + D Port	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Extended Desktop		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dual Display Clone	D Port1 + D Port2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Extended Desktop		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dual Display Clone	LVDS + CRT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Extended Desktop		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dual Display Clone	LVDS + D Port	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Extended Desktop		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

2.1.3. Video Resolution Test

Test points:

1. Power on without inserting any VGA connector until system reaches Windows desktop
2. Plug VGA connector into test machine while system reaches Windows then check VGA driver and display
3. Check VGA output Brightness is normal and it shows “Ghost Image” / “Flicker” or not

	Result			Note
	Pass	Fail	N/A	
In Windows Desktop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2.1.4. Video Resolution Test

LVDS Model		Result			Note
		Pass	Fail	N/A	
LVDS	1.TFT LVDS / 1280*768 /18bit /12.1 /LM-200801	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2_AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3_Data Image 7" / 800*480 / 18bit (16:9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	4_AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	5_AU B104SN02 V.0 / 10.4" / 800*600 / 18bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	6_AUO G084SN05 v7 / 8.4" / 800*600 / 24bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	7_AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	8_AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	9_Toshiba /12.1"/1280 x 768 x 18bit (16:9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	10_AU M170EG01 V.D/ 17"/ 1280*1024 / 48bit (4:3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	11_AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	12_AUO T260XW02 / 26" / 1366x768 / 24bit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	13_AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	14_AUO T370HW01 / 37" / 1920x1080 / 48bit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	15_AUO M190PW01 V0 / 19"/1440X900/48 bit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

2.2. Audio Function Test

[X] No Support

Function Test	Result			Note
	Pass	Fail	N/A	
L (Left) Channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
R (Right) Channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Line In	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Line In Recorder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MICROPHONE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MIC Recorder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6-channel mode for 5.1 speaker output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8-channel mode for 7.1 speaker output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S/P DIF function Test	Input	<input type="checkbox"/>	<input type="checkbox"/>	
	Output	<input type="checkbox"/>	<input type="checkbox"/>	

2.3. LAN Function Test

[] No Support

Connect two computers via different speed LAN HUB by using "Ping" instruction (1000 times)											
1000MBps LAN HUB		D-Link DGS-1008D									
100MBps LAN HUB		Accton Desktop-3005 5 Ports									
10MBps LAN HUB		SVEC FD916H									
LAN Speed	Link / Speed LED	Active LED	LAN 1/2	LAN 3/4	Note						
			Pass	Fail	N/A	Pass	Fail	N/A			
1000MBps			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S3/S4/S5		
100MBps			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10MBps			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Wake On LAN			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S3/S4/S5		
Boot ROM to Novell 4.11 [RPL]			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LAN Boot (PXE)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Internet Browser (DHCP Server)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

2.3.2. Throughput Test [] No Support

DUT Platform Information:

<input type="checkbox"/>	Fedora Core 18
<input type="checkbox"/>	Cent 5.5
<input checked="" type="checkbox"/>	Ubuntu 11.04 Kernel 2.6.38-8-generic
<input type="checkbox"/>	Red Hat

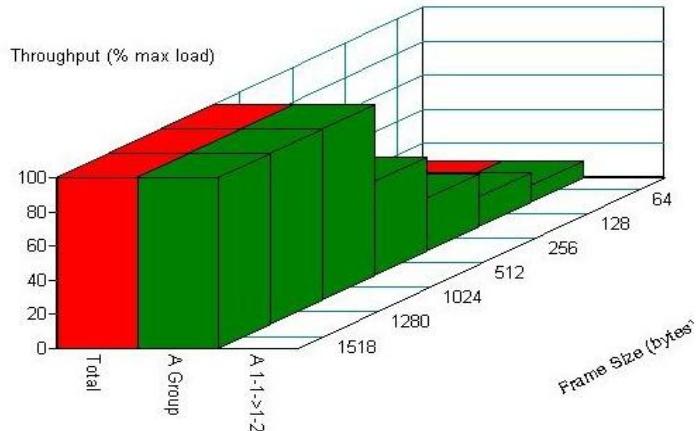
Note : Connection-Level Performance (Interaction Constants Duration Time Set to 60 Sec.)

Graphics Media	Ubuntu 11.04 Kernel 2.6.38-8-generic
LAN	LAN1→ Intel® I211Gigabit Network Connection
	LAN2→ Intel® I211Gigabit Network Connection
	LAN3→ Intel® I211Gigabit Network Connection
	LAN4→ Intel® I211Gigabit Network Connection

SMB Platform Information:

Chassis	SPIRENT Smartbits 600B
Chassis Version	2.80.003 (Cur) 2.50.000
Chassis Serial #	06014047
Library	6.00-29
API	5.50.42.01
File	0550042
Module	2 * LAN-3324A SmartMetrics XD 4-Port 10/100/1000Base-T Gigabit Ethernet
Test Software	SmartFlow5.50.42.1

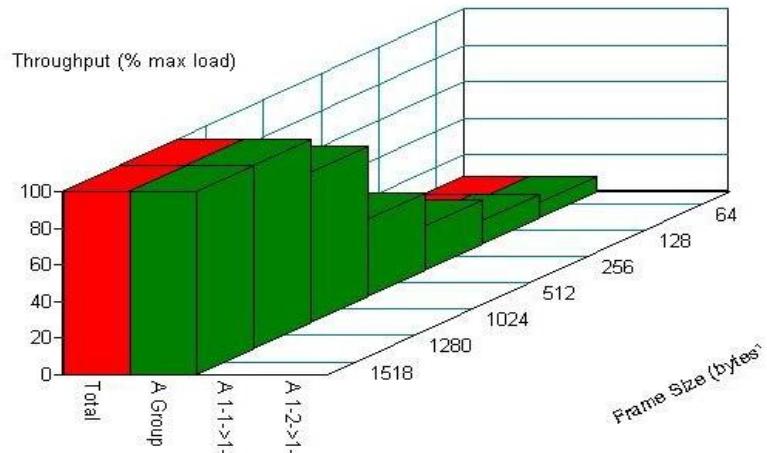
Half Direction (LAN1: Intel I211 10/100/1G Ethernet → □ LAN2: Intel I211 10/100/1G Ethernet)



Throughput vs Frame Size

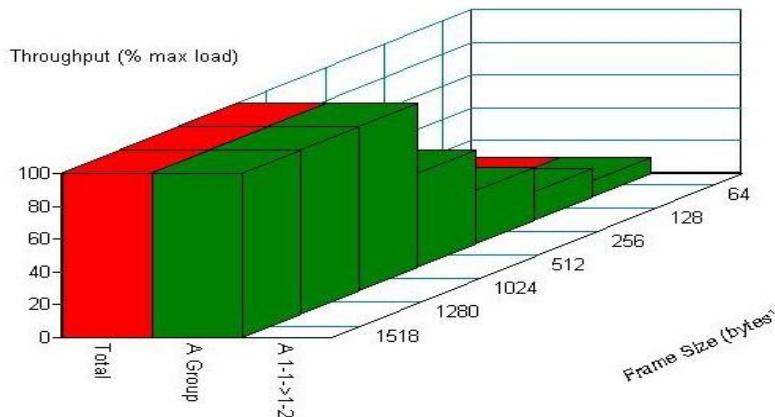
Name/FrameSize	64	128	256	512	1024	1280	1518
Total	9.5078125	17.2421875	30.390625	54.3671875	100	100	100
A Group	9.5078125	17.2421875	30.390625	54.3671875	100	100	100
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Binary Direction(LAN1: Intel I211 10/100/1G Ethernet → LAN2: Intel I211 10/100/1G Ethernet)



Throughput vs Frame Size

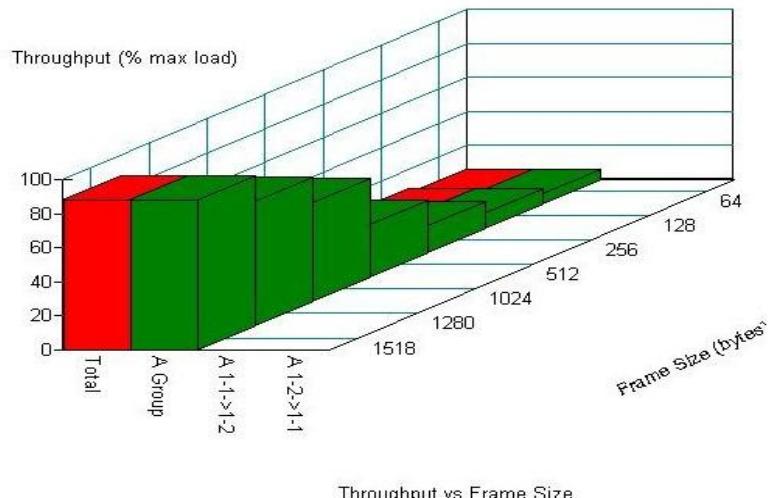
Name/FrameSize	<u>64</u>	<u>128</u>	<u>256</u>	<u>512</u>	<u>1024</u>	<u>1280</u>	<u>1518</u>
Total	7.9609375	12.6015625	23.4296875	41.9921875	81.4375	100	100
A Group	7.9609375	12.6015625	23.4296875	41.9921875	81.4375	100	100
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A 1-2->1-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Half Direction (LAN3: Intel I211 10/100/1G Ethernet → LAN4: Intel I211 10/100/1G Ethernet)

Throughput vs Frame Size

Name/FrameSize	<u>64</u>	<u>128</u>	<u>256</u>	<u>512</u>	<u>1024</u>	<u>1280</u>	<u>1518</u>
Total	9.5078125	17.2421875	31.9375	56.6875	100	100	100
A Group	9.5078125	17.2421875	31.9375	56.6875	100	100	100
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Binary Direction (LAN3: Intel I211 10/100/1G Ethernet → LAN4: Intel I211 10/100/1G Ethernet)



Name/Framesize	<u>64</u>	<u>128</u>	<u>256</u>	<u>512</u>	<u>1024</u>	<u>1280</u>	<u>1518</u>
Total	5.640625	8.734375	15.6953125	30.390625	57.4609375	72.9296875	87.625
A Group	5.640625	8.734375	15.6953125	30.390625	57.4609375	72.9296875	87.625
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A 1-2->1-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.4. Optional Function Test

[X] No Support

Function Test	Result			Note
	Pass	Fail	N/A	
3G Module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GPS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wireless LAN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Integration Test

	Hardware Information with Win8.1 Enterprise English SP1 32 Bit Driver Version
CPU	Onboard INTEL ATOM E3815 1.46GHz Soc
Memory	Transcend DDR3L 1333 SO-DIMM 4G
HDD	Innodisk iCF9000 64GB

3.1. USB Port Integration Test (USB 3.0 x 1 / USB 2.0 x 2)

Item	USB Port	Boot			Function			Note
		Pass	Fail	N/A	Pass	Fail	N/A	
USB HDD		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB FDD Mitsumi D353GUE		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SONY USB2.0 DVD-R/W DRX-830UL		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Hub Test (Connect USB Device)								
USB 2.0 HUB PowerSync / USB 2.0 4 Port HU-155					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Benchmark Test								
USB3.0 Read Speed					68.1 MB/sec		HD Tune Pro 3.50	
USB2.0 Read Speed					23.3 MB/sec			

3.2. Digital I/O Port Test

[x] No Support:

DIO Address (____)	Result			Note
	Pass	Fail	N/A	
DIO VCC +5V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3.3. COM Port Integration Test

[x] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
Ring In	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test by Modem (COM1~ COM2)
Serial Modem	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test by Multimeter
+12V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test by Multimeter
+5V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3.4. RS-232 Test

[x] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
RS-232 for " COM1~COM2 "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test speed 300 / 9600 / 115200 bit/sec
RS-422 for "COM1" "COM2"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The communication between the RS-422 port of two boards is linked by one 1200m cable on Windows Terminal
RS-485 for "COM1" "COM2"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Use ICP CON I-7044D D/I/O Module in Windows(Support Auto flow control)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The communication between the RS-485 port of two boards is linked by one 1200 m cable on Windows Terminal

3.5. LPT Port Test

[x] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
XEROX Phaser 3124 Laser Printer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3.6. Burn In Test

Under Room Temperature: 26 °C

OS: Windows 8.1 Enterprise English SP1 64bit

Test Item	Result			Note
	Pass	Fail	N/A	
Burn In Test V7.1(1001) Duty: 100 Time: over 12 hours	CPU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	RAM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	COM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Video	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Disk	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Sound	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Network	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Parallel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	USB	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: COM PORT Speed Set to 115200.

4. Application Test

4.1. PCI Slot Function (PCI Adapter Card) Test

[X] No Support

Adapter VGA Card	Set Simultaneous Display and Reboot			Note
	Pass	Fail	N/A	
CHAINTECH NVIDIA GeForce4 MX440-8X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adapter Sound Card	Play Sound			Note
	Pass	Fail	N/A	
Creative Sound BLASTER Live5.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adapter SCSI Card	Copy files to SCSI HDD			Note
	Pass	Fail	N/A	
ADAPTEC Ultra160 SCSI ASC-29160	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adapter Image Capture Card	Connect to CCD			Note
	Pass	Fail	N/A	
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adapter LAN Card	Connect to Internet			Note
	Pass	Fail	N/A	
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
INTEL PWLA8391GTBLK Pro/1000 Giga LAN Card	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adapter RAID Card	SATA Function Test			Note
	Pass	Fail	N/A	
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.2. PCI-Express Function Test

PCI-Express x1	Function Test			Note
	Pass	Fail	N/A	
PETRP02A PARALLEL Extend Card (COM Port & LPT)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Intel ® GIGABIT CT Desktop Adapter PCI-Express x1 LAN Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Uptech UTB230 USB 3.0 Extend Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Intel ® GIGABIT CT Desktop Adapter PCI-Express x1 LAN Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PCI-Express x4	Function Test			Note
	Pass	Fail	N/A	
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PCI-Express x16	Function Test			Note
	Pass	Fail	N/A	
ASUS NVIDIS GeForce GTX680 PCI-Express x16 VGA Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
GIGABYTE GV-R5670C-1GI PCI-Express x16 VGA Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Express card	Function Test			Note
	Pass	Fail	N/A	
SUNIX SATA II Express card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
SunBox 34mm Giga LAN Express Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Mini PCI Express Card	Function Test			Note
	Pass	Fail	N/A	
AzureWave AW-037 802.11b/g/n + Blue Tooth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half Size

cFeon RAID Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full Size
M-SATA Card	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full Size

4.3. Mini PCI Card Compatibility Test

[X] No Support

Device Item	Function Test			Note
	Pass	Fail	N/A	
Mini PCI.10/100 Base-Tx LAN (W/Intel.82551QM .A1.0) (Model:PER-C10L)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADLINK mPCI-8750 ATI Rage XL Mini PCI VGA Card	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.4. CardBus (PCMCIA) Compatibility Function Test

[X] No Support

Device Item	Bit	Function Test			Note
		Pass	Fail	N/A	
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[PC-200200]
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Kingston datapack DP-PCM2 / 2GB (PC Card Typell HDD)	32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[PC-200201]
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[PC-200502]
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[PC-200502]

4.5. ISA Slot Function Test

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
SCSI Card	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[SS-002]
LAN Card	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[NW-014]
VGA Card	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[VC-008]

4.6. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104

4.6.1. Device List: PC/104 Module

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
AAEON PCM-3660	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.6.2. Device List: PC/104+ Module

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
AAEON PCM-3430	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.6.3. Device List: PCI-104 Module

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.6.4. Device List: PCI/104 Express Module

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
AAEON PER-123	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.7. SSD Modules Compatibility Test

SSD HDD Compatibility Test:

Cable Type: [] IDE [] SATA2 [] MLC [] SLC

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
Transcend SSD 16G - TS16GSSD25S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.8. Peripheral Compatibility- Storage Device Test

4.8.1. Disk on Chip (DOC) Test

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
DOC 2000 Model	16MB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> M-System / MD2200-D16
DOC 2000 Onboard Address	CC00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D800	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	DC00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Disable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.8.2. Disk on module (DOM) Test**[X] No Support**

Test Item	Result			Note
	Pass	Fail	N/A	
Transcend / TS512MDOM40V / 512MB / IDE 40 Pin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Transcend / TS512MDOM44V / 512MB / IDE 44 Pin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.9. Riser Card Function Test**[X] No Support**

Test Item	Result			Note
	Pass	Fail	N/A	
LAN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PCI Slot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PCI-e Slot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4.10. Super IO Card Function Test**[X] No Support**

Test Item	Result			Note
	Pass	Fail	N/A	
PS2 KB/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COM Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LPT Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FDD Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

5. Power Consumption Test

Hardware Information with Windows8.1 Enterprise English SP1 32 Bit Driver Version	
CPU	Onboard INTEL ATOM E3826 1.46GHz Soc
Memory	Transcend DDR3L 1333 4G x 2
HDD	Innodisk iCF9000 64GB

5.1. AT/ATX Power Consumption

Test Equipment						
Equipment	AC/DC Digital Clamp meter					
Manufacturer	KYORITSU					
Model name	2010					
Test Environment						
ATX Power Model	Seventeam P-CG / ST-450P-CG					
Power Supply		ATX Power				Note
(Full Loading Mode) Windows xp with Prime 95 Full Loading Test	(+12V)		A		W	Prime95 Version 259
Full Loading Total Watt	(W)					
Win. Idle mode: Measure the current value when system in windows mode and without running any program	(+12V)		A		W	
Idle Total Watt	(W)					
Power on - Boot sequence: Measure the maximum current value of between system power on and boot-up to O.S.	(+12V)		A		W	
Power On Total Watt	(W)					
System into S3 mode	(+12V)		A			
System into S5 mode	(+12V)		A			
Suspend Total Watt	(W)					

5.2. PC Health Status

Test Point: The value between Actual Voltage and Voltage Monitor must be + / - 5%

Voltage Monitoring Test	Result			BIOS (V)	Note
	Pass	Fail	N/A		
CPU Temp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45°C	
System Temp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46°C	
System FAN Speed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	RPM	
VCORE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.768V	
1.35V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.368V	
12V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.856V	
5V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.020V	
1.8V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.812V	
5VSB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.040V	
VBAT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.288V	

6. Time Accuracy Test

6.1. System Clock & RTC Clock Test

Under Room Temperature: 26 °C

Function	Item	Time Interval	Criteria	Actual		Result			Note
						Pass	Fail	N/A	
RTC Clock in Power On Mode		24 hrs	+/-2 sec	-1	Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RTC Clock in Power Off Mode		24 hrs	+/-2 sec	+0	Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

6.2. Booting Timer Test

Installation	Actual		Note
System Booting Time	9.8	Sec	Press the Power Button till "Beep" Sound appears

6.3. Watchdog Timer Test

Use Function as below:

[] No Support.

Time-Out Interval	Criteria	Actual		Result			Note
				Pass	Fail	N/A	
10 sec	+/-10%	9.8	Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60 sec	+/-10%	60.1	Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
255 sec	+/-10%	256	Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Safe Ver. 20140128

Note : Under Room Temperature: 26°C /

7. O.S. Compatibility Test

7.1. English Ubuntu 11.04 Kernel 2.6.38-8-generic

No Support

Driver Information:

Chipset Software	System default
Graphics Media	System default
Audio Driver	N/A
LAN Driver	Intel i211 Igb-5.0.6

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Ubuntu 11.04 Kernel 2.6.38-8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type uname -a

Test Result:

Test Item	Result			Note
	Pass	Fail	N/A	
Display Function Test				
VGA -- Full Screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DVI -- Full Screen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
LVDS -- Full Screen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Network Function Test				
Connect to Internet – LAN 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connect to Internet – LAN 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connect to Internet – LAN 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connect to Internet – LAN 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Audio Function Test				
Play Audio Function Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Play Audio Test
Base Function Test				
USB Mouse Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Keyboard Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB 2.0 Removable Devices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PS2 KB & MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Console	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test under Fedora20
X Windows Application				
Start Button Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Office function
X-Window	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Startx – Desktop in Linux
Command Test On Text Mode: Attention Delay Phenomenon				
uname -a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Show information
Shutdown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Init 0 or shutdown -h now
Restart the Computer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Init 6 or shutdown -r now
Halt-P	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off Mode
ls / clear; cd /dev /ls -l	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Command instruction

7.2. Windows 7 Ultimate English Version 32/64Bit

[X] x32 Driver Information:

Chipset Software	Intel ® Chipset Device Software 10.0 (2014/04/24)
Graphics Media	Intel ® Atom™ Processor E3800 Series / Intel ® Celeron Processor N2920/J1900 36.15.0.1073 (2/19/2014)
LAN Driver	Intel ® I211 Gigabit Network Connection 12.11.97..0 (3/11/2014)
Audio Driver	N/A

[X] x64 Driver Information:

Chipset Software	Intel ® Chipset Device Software 10.0 (2014/04/24)
Graphics Media	Intel ® Atom™ Processor E3800 Series / Intel ® Celeron Processor N2920/J1900 36.15.0.1073 (2/19/2014)
LAN Driver	Intel ® I211 Gigabit Network Connection 12.11.97..0 (3/11/2014)
Audio Driver	N/A

Install OS to SATA HDD :

Installation	Result			Note
	Pass	Fail	N/A	
English Windows 7 Ultimate 32bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SATA set to IDE mode
English Windows 7 Ultimate 64bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SATA set to AHCI mode

Test Results:

Test Item	Result			Note
	Pass	Fail	N/A	
Single Display				
VGA – Full Screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Display Port–Full Screen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
LVDS – Full Screen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Boot – Windows 7 Ultimate Advanced Options Menu				
Safe Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Basic Function Test				
PS/2 Mouse and Keyboard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Mouse and Keyboard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COM Port Mouse detect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
USB 2.0 Removable Devices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LAN Function Test				
LAN1 --- Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LAN2 --- Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LAN3 --- Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LAN4 --- Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Audio Function Test				
Line Out Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Line In Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Microphone Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
S/P DIF Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Start Menu				
Log off User	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shut down (S5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Standby (S3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Restart	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hibernate (S4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

7.3. Windows 8.1 Enterprise English Version 32/64Bit

[X] x32 Driver Information:

Chipset Software	Intel ® Chipset Device Software 9.4.41006 (August/01/2013)
Graphics Media	Intel ® HD Graphics 10.18.10.3366 (11/26/2013)
LAN Driver	Intel ® I211 Gigabit Network Connection 12.6.47.1 (3/28/2013)
Audio Driver	N/A
TPM Driver	N/A

[X] x64 Driver Information:

Chipset Software	Intel ® Chipset Device Software 9.4.41006 (August/01/2013)
Graphics Media	Intel ® HD Graphics 10.18.10.3366 (11/26/2013)
LAN Driver	Intel ® I211 Gigabit Network Connection 12.6.47.1 (3/28/2013)
Audio Driver	N/A
TPM Driver	N/A

Install OS to CF Card:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows 8.1 32bit Enterprise	☒	☐	☐	SATA set to AHCI mode
English Windows 8.1 64bit Enterprise	☒	☐	☐	SATA set to IDE mode

Test Results:

Test Item	Result			Note
	Pass	Fail	N/A	
Single Display				
VGA -- Full Screen	☒	☐	☐	
LVDS-- Full Screen	☐	☐	☒	
D Port - Full Screen	☐	☐	☒	
Boot - Windows 8 Enterprise Advanced Options Menu				
Safe Mode	☒	☐	☐	msconfig
Basic Function Test				
PS/2 Mouse and Keyboard	☒	☐	☐	
USB Mouse and Keyboard	☒	☐	☐	
COM Port Mouse detect	☐	☐	☒	
USB 2.0 Removable Devices	☒	☐	☐	
Console	☒	☐	☐	
LAN Function Test				
LAN1 --- Auto	☒	☐	☐	
LAN2 --- Auto	☒	☐	☐	
LAN3 --- Auto	☒	☐	☐	
LAN4 --- Auto	☒	☐	☐	
Audio Function Test				
Line Out Test	☐	☐	☒	
Line In Test	☐	☐	☒	
Microphone Test	☐	☐	☒	
S/P DIF Test	☐	☐	☒	
Start Menu				
Sing Out	☒	☐	☐	
Shut down (S5)	☒	☐	☐	
Standby (S3)	☒	☐	☐	
Restart	☒	☐	☐	
Hibernate (S4)	☒	☐	☐	

8. BIOS Function Test

CPU	Onboard INTEL ATOM E3822 1.46GHz Soc
Memory	Transcend DDR3L 1333 SO-DIMM 4G x2
HDD	Innodisk iCF9000 64GB

8.1. Advanced Test

Test Item		Result			Note
		Pass	Fail	N/A	
ACPI settings	Suspend Disable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Enable/Disable
	Sleeps state (S1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Sleeps state (S3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dynamic Digital IO	DIO0~7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test under Dos and OS
S5 RTC Wake up	Wake system with Dynamic time	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Wake system with fixed time	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Trusted Computing	TPM SUPPORT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Clear TPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
SATA configuration	SATA controller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Enable/Disable
	AHCI mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	IDE mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	RAID mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
AMT Configuration	Intel AMT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Enable/disable
	Un-configure ME	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
USB configuration	Legacy USB Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	XHCI Mode (USB3.0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	EHCI Mode (USB2.0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
W83627DHG Super IO configuration	Serial port 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Enable/Disable
	Serial port 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Parallel Port	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ITE8518 super IO configuration	Serial port1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Serial port2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Smart FAN	CPU_F AN1	Disable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Full Mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Manual Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Auto Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CHA_F AN2	Disable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Manual	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Thermal Cruise mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Smart FAN IV mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
LED Bypass Status LED	LED OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	RED LED ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	RED LED BLINK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	RED LED FAST BLINK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	GREEN LED ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	GREEN LED BLINK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	GREEN LED FASTBLINK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LAN Bypass Kit	PWR ON PassTru	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	PWR ON Bypass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	PWR OFF PassTru	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	PWR OFF Bypass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8.2 Chipset Test

Test Item	Result			Note
	Pass	Fail	N/A	
System Agent (SA) Configuration	Primary Display	Auto	<input type="checkbox"/>	<input type="checkbox"/>
		IGFX	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		PEG	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Boot display	CRT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		LVDS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		D Port	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Memory Configuration			<input type="checkbox"/>
	PCIE 16x GEN speed			<input checked="" type="checkbox"/> Test with bear card
PCH-IO Configuration	PCH Azalia Configuration			
	Azalia Internal HDMI codec			
	Power Mode	ATX	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		AT	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Restore AC Power Loss	Power on	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Power Off	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Last State	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	PCH LAN Controller			<input checked="" type="checkbox"/> Enable /disable
	Wake on LAN			<input checked="" type="checkbox"/> Enable /disable
	DDR3L Voltage Selection			<input checked="" type="checkbox"/> 1.5V / 1.35V

8.3. Boot Sequence Test

Test Item	Result			Note
	Pass	Fail	N/A	
Quiet Boot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Launch Intel I211 PXE OpROM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Boot From Hard Disk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Boot From USB HDD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Boot From USB Floppy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Boot From USB CD-ROM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Boot from LAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8.4. CMOS Backup / Clear CMOS Test

Test Item	Result			Note
	Pass	Fail	N/A	
CMOS Backup	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Clear CMOS Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

8.5. AAEON Tag Check Utility

Test Item	Result			Note
	Pass	Fail	N/A	
Check AAEON BIOS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AONCHECK.EXE

8.6. Supervisor / User Password Test

Test Item	Result	Note

	Pass	Fail	N/A	
Supervisor Password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
User Password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8.7. Hi-safe Test

Test Item	Result			Note
	Pass	Fail	N/A	
Version(20140128)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test by Win8.1 64bit
System Information	CPU Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Model Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Display Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	RAM Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Support single DIMM
H/W Monitor	Info	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Fan Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Voltage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DIO	DIO1~4 High	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DIO1~4 Low	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DIO5~8 High	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DIO5~8 Low	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WatchDog	10sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	60sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	255sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Auto Reload	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SMBus	SMBus IO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SMBus Address 0xF040
	Read Byte	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Slave Address A0h,A2h,A4h
	Read Word	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Result / Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Smart FAN	Chipset	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IT8728F
	Fan Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CPU / SYS
	Speed control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Off Speed TMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Full Speed TMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.8. Hi-Manager Test

[X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
Version(20130819)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Power control	Power on	<input type="checkbox"/>	<input type="checkbox"/>	
	Power off	<input type="checkbox"/>	<input type="checkbox"/>	
	Reset	<input type="checkbox"/>	<input type="checkbox"/>	
	Power on from G3 state	<input type="checkbox"/>	<input type="checkbox"/>	
Group Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Alarm Clock	Set Alarm Time	<input type="checkbox"/>	<input type="checkbox"/>	
	Recurring Alarm	<input type="checkbox"/>	<input type="checkbox"/>	
Remote Recovery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remote Reboot/ Reboot from CD ROM/Reboot from ISO (Reboot to BIOS no support)
KVM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test with i7-4770T
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

9. Performance Test

Hardware Information with Win8 Enterprise SP1 64 Bit Driver Version	
CPU	Onboard INTEL ATOM E3826 1.46GHz Soc
Memory	Transcend DDR3L 1333 SO-DIMM 4G x 2
HDD	WD WD5000BPX 500GB "2.5 SATA HDD

9.1. Performance Test

Test Result: Display set

Testing Software	Scope		Note
	AAEON	Ref.	
PCMark2005			Windows 8
PCMark	2516	-	PCMarks
CPU	2324	-	
Memory	3136	-	
Graphics	1189	-	
HDD	6264	-	
Benchmark (B)	-	-	
Average Efficiency	-	-	

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2006 v121			Windows 8
3Dmark Score	1791	-	
CPU Score	862	-	
SM 2.0	640	-	
HDR/SM 3.0	752	-	

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—BenchMark Test			
2D image	-	-	Reality marks Win8 can't install Final Reality .
3D	-	-	
Bus transfer	-	-	
Overall	-	-	
Benchmark (A)	-	-	

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark 11 V102 Professional Edition			
Extreme 1920*1080			
3Dmark 11 Score	-	-	System can't run the resolution
Graphics Score	-	-	
Physics Score	-	-	
Combined Score	-	-	
Performance 1280*720	-	-	
3Dmark 11 Score	197	-	

Graphics Score	170		
Physics Score	658		
Combined Score	233		
Entry 1024*600			
3Dmark 11Score	339		
Graphics Score	300		
Physics Score	658		
Combined Score	321		
PCMark Vantage			
PCMarks		-	PCMarks System can't run the AP
TV and Movies		-	
Memories		-	
Music		-	
Communications		-	
Productivity		-	
HDD		-	
Gaming		-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
Performance Test 7.0			Windows 8.1
PassMark Rating	409.2	-	
CPU Mark	728.7	-	
2D Graphics Mark	119.1	-	
3D Graphics Mark	141.2	-	
Memory Mark	601.5	-	
Disk Mark	317.4	-	
Benchmark (A)	-		

Testing Software	Scope		Note
	AAEON	Ref	
Windows experience index			Windows 8
Processor	3.5		
Memory	7.0		
Graphics	4.2		
Gaming graphics	5.5		
Primary hard disk	5.9		

SATA Performance				
Item	Comment / (unit)	Software	Score	Note
CPU	Onboard INTEL ATOM E3822 1.46GHz Soc			
Memory	Transcend DDR3L 1333 SO-DIMM 4G x2			
CF Card	Innodisk iCF9000 64GB			
SATAII HDD	TOSHIBA MK3276GSX 2.5 SATA II 320GB			
OS	Windows 8.1 Enterprise SP1 64bit			

Single HDD (SATA port 1) SATAII (Optional)	CPU usage	HD Tune Pro 3.50	7.6%	
	Burst rate / (MB/s)	HD Tune Pro 3.50	82.7	
	Read Speed / (MB/s) Average	HD Tune Pro 3.50	71.3MB/s	SATAII 150~300MB SATAIII up 300M/B
CF Card	CPU usage	HD Tune Pro 3.50	21.0%	
	Burst rate / (MB/s)	HD Tune Pro 3.50	42.1	
	Read Speed / (MB/s) Average	HD Tune Pro 3.50	73.1MB/s	
USB3.0 Performance				
USB Flash	JetFlash Transcend 16GB USB3.0			
Item	Comment / (unit)	Software	Score	Note
(USB port 1) USB3.0	CPU usage	HD Tune Pro 3.50	64.1%	
	Burst rate / (MB/s)	HD Tune Pro 3.50	45.2	
	Read Speed / (MB/s) Average	HD Tune Pro 3.50	68.1MB/s	