

Report NO:12CO010005

XTX-CV

Intel Atom N2600/D2700 XTX CPU Module

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

2012/06/05

Approval

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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 | |

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 | |
| Processor | On board Intel Atom D2550 1.8G processor On board Intel Atom N2600 1.6G Processor | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Chipset | Intel NM10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| System Memory | DDR3 SODIMM x 1 Supports non-ECC DDR3 1066, Max. 4GB (D2550 DDR3, 1066, Max.4GB, N2600 DDR3, 800, Max.2GB) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VGA/LCD Controller | Intel Atom D2550 /N2600 processor integrated CRT: up to 1920 x 1200 LCD: up to 1920x 1080 (D2550) or 1600x1200 (N2600) Includes AVC/H.264, VC1/WMV9, MPEG2 decoder | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LCD Interface | 18/24-bit dual-channel LVDS DP to 24bit LVDS (CH7511) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Ethernet | Realtek RTL8105E, 10/100 Ethernet PCIe [1] Interface ==> 14S4810500 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| I/O Chips | Winbond W83627DHG/PT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Watchdog Timer Chipset | Winbond W83627DHG/PT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Expansion Interface | PCI-Express [x1] x 4 via PCIe switch via IDT 89HPES4T4 32-bit PCI x 4 (NM10 via IT8028M PCI Arbiter) LPC bus x 1 SMBus x 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Audio | High definition audio interface | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IDE Interface | IDE channel x 1 via JMB363 (PCIe [1] interface chip) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| SATA Interface | SATA port x 2 via NM10 PCIe [1] to SATA + IDE via JMB363 SATA SSD x1 (optional, up to 16GB) IDE (one device) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Parallel Port | 1x parallel port | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Serial Port | 2x Serial port | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Universal Serial Bus | USB 2.0 x 6 via NM10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Power Supply Request | Nominal: +5V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

O.S. Support

| Item | Specification | Result | Note |
|-------------------|--------------------------|-------------------------------------|------|
| Microsoft Windows | Windows 7 English 32 Bit | <input checked="" type="checkbox"/> | |
| Linux-Fedora | Linux Kernel 2.6.X | <input checked="" type="checkbox"/> | |

Environmental Specifications

| Item | Specification |
|-----------------------|--|
| Operating temperature | Standard Type: 0°C ~ 60°C Wide Temp. Type : -40°C ~ 85°C ==> Please reserve the WT solution. |
| Storage temperature | N/A |
| Storage humidity | N/A |
| Vibration | N/A |
| Shock | N/A |
| Drop | N/A |
| EMC | CE /FCC class A with ECB-910M Rev A |

Note: Please refer Environment Test Report for detail information

Platform Information

| Item | Device Information | Test Item |
|---|--|----------------------|
| PCB Model / Version | XTX-CV A0.2 | 1,2,3,4,5,6,7,8,9,10 |
| CPU Board | XTX-CV A0.2 | 1,2,3,4,5,6,7,8,9,10 |
| Carrier Board | ECB-910M A1.0 | 1,2,3,4,5,6,7,8,9,10 |
| BIOS / Version | XTX-CV R0.5(04/11/2012) | 1,2,3,4,5,6,7,8,9,10 |
| CPU Type | Intel Atom D2700 2.13GHz | 1,2,3,4,5,6,7,8,9,10 |
| Memory Type | INNODISK DDR3-1066 4G(Hynix H5TQ2G83BFR H9C) | 1,2,3,4,5,6,7,8,9,10 |
| SATA HDD | Seagate 3.5" 160GB(ST3160318AS) | 1,2,3,4,5,6,7,8,9,10 |
| SATA DVD-ROM | Pioneer 18X(DVR-212BK) | 1,2,3,4,5,6,7,8,9,10 |
| USB DVD-ROM | LITE-ON 20X(DX-20A4PU) | 1,2,3,4,5,6,7,8,9,10 |
| LCD Monitor | CHIMEI 22"(22SH-L) | 1,2,3,4,5,6,7,8,9,10 |
| LVDS | AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9) | 1,2,3,4,5,6,7,8,9,10 |
| Compact Flash | N/A | 1,2,3,4,5,6,7,8,9,10 |
| Daughter Board | N/A | 1,2,3,4,5,6,7,8,9,10 |
| Expansion Board | N/A | 1,2,3,4,5,6,7,8,9,10 |
| | N/A | 1,2,3,4,5,6,7,8,9,10 |
| Operating System | <input checked="" type="checkbox"/> Fedora 16 Kernel 3.1.0-7.fc16.i686 | 7-1 |
| | <input checked="" type="checkbox"/> Windows 7 Ultimate 32Bit | 7-2 |
| Power Supply | ATX Power Supply : Seventeam 400W(ST-400EAG-05F) | 1,2,3,4,5,6,7,8,9,10 |
| | AT Power Supply: N/A | 1,2,3,4,5,6,7,8,9,10 |
| | DC Adapter : N/A | 1,2,3,4,5,6,7,8,9,10 |
| Battery Model | N/A | 1,2,3,4,5,6,7,8,9,10 |
| Chipset Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | | |
| Chipset Software | Intel Chipset Device Software 9.2.2.1034(7/20/2011) | |
| North Bridge | N/A | |
| South Bridge | Intel NM10 | |
| Super IO Chipset | Winbond W83627DHG/PT | |
| VGA Chipset | Intel Graphics Media Accelerator 3600 Series 8.15.8.1053(10/31/2011) | |
| Audio Chipset | Realtek High Definition Audio 6.0.1.6449(8/30/2011) | |
| Ethernet Chipset | Intel 82583V Gigabit Network Connection 11.11.43.0(9/1/2011) | |

Summary Table of contents:

- 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 8
 - 1.5. Compact Flash Compatibility Test 8
- 2. Basic Function Test..... 9
 - 2.1. Video Function Test 9
 - 2.2. Audio Function Test 11
 - 2.3. LAN Function Test..... 11
 - 2.4. Optional Function Test 12
- 3. Integration Test..... 13
 - 3.1. USB Port Integration Test..... 13
 - 3.2. Digital I/O Port Test 13
 - 3.3. COM Port Integration Test..... 13
 - 3.4. RS-422 / RS-485 Test..... 13
 - 3.5. LPT Port Test 14
 - 3.6. Burn In Test..... 14
- 4. Application Test 15
 - 4.1. PCI Slot Function (PCI Adapter Card) Test..... 15
 - 4.2. PCI-Express Function Test..... 15
 - 4.3. Mini PCI Card Compatibility Test..... 15
 - 4.4. CardBus (PCMCIA) Compatibility Function Test 16
 - 4.5. ISA Slot Function Test 16
 - 4.6. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104..... 16
 - 4.7. SSD Modules Compatibility Test 16
 - 4.8. Peripheral Compatibility- Storage Device Test 17
 - 4.9. Riser Card Function Test..... 17
- 5. Power Consumption Test 18
 - 5.1. AT/ATX Power Consumption 18
 - 5.2. PC Health Status..... 18
- 6. Time Accuracy Test..... 20
 - 6.1. System Clock & RTC Clock Test..... 20
 - 6.2. Booting Timer Test..... 20
 - 6.3. Watchdog Timer Test 20
- 7. O.S. Compatibility Test 21
 - 7.1. English Fedora 16 – Kernel 3.1.0-7.fc16.i686..... 21
 - 7.2. Windows 7 Ultimate English Version 32/64Bit 22
 - 7.3. Windows XP Professional English Version 32/64Bit 23
- 8. BIOS Function Test 24
 - 8.1. Boot Sequence Test 24
 - 8.2. Power Management Test 24
 - 8.3. Power On Function Test 24
 - 8.4. Power On after Power Failure Test..... 25
 - 8.5. CMOS Backup / Clear CMOS Test 25
 - 8.6. AAEON Tag Check Utility 25
 - 8.7. TPM Function Test 25
 - 8.8. IAMT Function Test 25
 - 8.9. BIOS SPI ROM..... 25
 - 8.10. Supervisor / User Password Test 25
- 9. Performance Test 26
 - 9-1. Performance Test 27
 - 9-2. Memory Test 27

1. Hardware Test

1.1. CPU Compatibility Test

| CPU Information | Result | | | Note |
|--------------------------|-------------------------------------|--------------------------|--------------------------|--|
| | Pass | Fail | N/A | |
| Intel Atom D2700 2.13GHz | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Test by Windows 7 |
| Intel Atom N2600 1.60GHz | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Test by Windows 7 |
| Intel Atom N2600 1.60GHz | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Test by Fedora 16 Kernel 3.1.0-7.fc16.i686 |

1.2. Memory Compatibility Test

| Memory Information | MEM V4.0 | | | Note |
|---|-------------------------------------|--------------------------|--------------------------|----------------|
| | Pass | Fail | N/A | |
| INNODISK DDR3-1066 4GB(Hynix H5TQ2G83BFR H9C) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DIMM at Slot 1 |
| Transcend DDR3-1066 2G(Hynix H5TQ2G83BFR H9C) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Transcend DDR3-1333 2G(Hynix H5TQ2G83CFR H9C) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1.3. SATA Compatibility Test

1.3.1 Onboard SATA Test

| SATA Device Information | Result | | | Note |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Seagate 3.5" 160GB(ST3160318AS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| WD 2.5" 160GB(WD1600BEKT) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1.3.2 Onboard SATA (RAID) Test

| SATA RAID Test | | Result | | | Note |
|---|---|--------------------------|--------------------------|-------------------------------------|------|
| | | Pass | Fail | N/A | |
| RAID-0 (HDDx2) Striping/Span Test | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| RAID-1 (HDDx2) Mirror Test | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| RAID-5 (HDDx3) Striping/Span Test Rotation Parity | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| RAID-10 (HDDx3) Striping/Span Test Mirroring | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

1.3.3 Onboard SATA (AHCI) Test

| SATA AHCI Test | Result | | | Note |
|----------------|--------------------------|--------------------------|-------------------------------------|--------------------|
| | Pass | Fail | N/A | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Slot at 1/2/3/4/OS |
| | <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"/> | |

1.4. IDE Compatibility Test

| IDE Device Information | Result | | | Note |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|-----------|
| | Pass | Fail | N/A | |
| Seagate 3.5" 160GB(ST3160815AS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Slot at 1 |
| | <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

| Compact Flash Information | Result | | | Note |
|---------------------------|--------------------------|--------------------------|-------------------------------------|--|
| | Pass | Fail | N/A | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Test at Windows 7 or Data Transfer (Read/Write) / Slot |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

2. Basic Function Test

2.1. Video Function Test

2.1.1. Single Output Function Test

| Hardware Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | | | | | | | | | | |
|--|--|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|------------------------------|
| CPU | Intel Atom D2700 2.13GHz | | | | | | | | | |
| Memory | INNODISK DDR3-1066 4G(Hynix H5TQ2G83BFR H9C) | | | | | | | | | |
| HDD | Seagate 3.5" SATA2 160GB(ST3160318AS) | | | | | | | | | |
| VGA | Intel Graphics Media Accelerator 3600 Series 8.15.8.1053(10/31/2011) | | | | | | | | | |
| DVI | N/A | | | | | | | | | |
| TV | N/A | | | | | | | | | |
| Color Quality | <input checked="" type="checkbox"/> 16bit <input type="checkbox"/> 24bit <input checked="" type="checkbox"/> 32bit | | | | | | | | | |
| Resolution | VGA | | | DVI | | | 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 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"/> | |
| 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 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"/> | |
| 1280X720 | <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"/> | |
| 1280X768 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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 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"/> | |
| 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"/> | |
| 1792X1344 | <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"/> | |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1920X1200 | <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"/> | |
| 1920X1440 | <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"/> | |
| 2048X1536 | <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"/> | |
| 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 | VGA + DVI | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Dual Display Twin | | <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 | VGA + LVDS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Dual Display Twin | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Extended Desktop | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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_AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3) | <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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | 12_AUO T260XW02 / 26" / 1366x768 / 24bit | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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

[] No Support

| Function Test | Result | | | Note |
|---------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| | Pass | Fail | N/A | |
| L (Left) Channel | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| R (Right) Channel | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| CD_In | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Line In | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| MICROPHONE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6-channel mode for 5.1 speaker output | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 8-channel mode for 7.1 speaker output | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| S/PDIF function Test | Input | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Output | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 | | | | | | | | |
| 10MBps LAN HUB | | SVEC FD916H | | | | | | | | |
| OnBoard LAN1 | | Intel 82583V Gigabit Network Connection 11.11.43.0(9/1/2011) | | | | | MAC Address | | 88-88-88-88-87-88 | |
| OnBoard LAN2 | | N/A | | | | | MAC Address | | N/A | |
| LAN Speed | Link / Speed LED | Active LED | LAN 1 | | | LAN 2 | | | Note | |
| | | | Pass | Fail | N/A | Pass | Fail | N/A | | |
| 1000MBps |  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 100MBps |  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 10MBps |  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Wake On LAN | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Internet Browser (DHCP Server) | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |

2.3.2. Throughput Test [X] No Support

DUT Platform Information:

| | |
|--------------------------|----------------|
| <input type="checkbox"/> | Fedora Core 13 |
| <input type="checkbox"/> | Cent 5.5 |
| <input type="checkbox"/> | Ubuntu 10.1 |
| <input type="checkbox"/> | Red Hat |

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

| | |
|----------------|-----|
| Graphics Media | N/A |
| LAN | N/A |
| Audio Driver | N/A |

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 |

Test Result:

1. Half Direction
2. Binary Direction

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 checked="" type="checkbox"/> | |
| GPS () | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Wireless LAN () | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Bluetooth () | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

3. Integration Test

| Hardware Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | |
|--|--|
| CPU | Intel Atom D2700 2.13GHz |
| Memory | INNODISK DDR3-1066 4GB(Hynix H5TQ2G83BFR H9C) |
| HDD | Seagate 3.5" SATA2 160GB(ST3160318AS) |
| Chipset Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | |
| Chipset Software | Intel Chipset Device Software 9.2.2.1034(7/20/2011) |
| North Bridge | N/A |
| South Bridge | Intel NM10 |
| Super IO Chipset | Winbond W83627DHG/PT |
| VGA Chipset | Intel Graphics Media Accelerator 3600 Series 8.15.8.1053(10/31/2011) |
| Audio Chipset | Realtek High Definition Audio 6.0.1.6449(8/30/2011) |
| Ethernet Chipset | Intel 82583V Gigabit Network Connection 11.11.43.0(9/1/2011) |

3.1. USB Port Integration Test

| Item | USB Port | Boot | | | Function(Win 7) | | | 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"/> | |
| Lite-on USB2.0 DVD-R/W(DX-20A4PU) | | <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) HUB Port1: USB Keyboard / HUB Port2: USB Mouse / HUB Port3: USB HDD | | | | | | | | |
| USB 2.0 HUB PowerSync / USB 2.0 4 Port HU-155 | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

3.2. Digital I/O Port Test

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

3.3. COM Port Integration Test

| Test Item | Result | | | Note |
|-----------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------|
| | Pass | Fail | N/A | |
| Serial Modem Dial Out | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Serial Modem | Ring In | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Test by Modem |
| | +12V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Test by Multimeter |
| | +5V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Test by Multimeter |

3.4. RS-422 / RS-485 Test

| Test Item | Result | | | Note |
|-----------------|-------------------------------------|--------------------------|-------------------------------------|---|
| | Pass | Fail | N/A | |
| RS-422 for COM2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Use loopback and WINSSD.exe to test RS-422 in Windows |
| RS-485 for COM2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Use ICP CON I-7044D D/IO Module in Windows(Support Auto flow control) |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | The communication between the RS-485 port of two boards is linked by one 100m cable on Windows Terminal |

3.5. LPT Port Test

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

3.6. Burn In Test

Under Room Temperature: 26 °C

| Test Item | Result | | | Note |
|-----------------------|-------------------------------------|--------------------------|--------------------------|---------------------------------------|
| | Pass | Fail | N/A | |
| Burn In Test V7.0 Pro | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Windows 7 Ultimate English SP1 32 Bit |

Note: COM PORT Speed Set to 115200.

4. Application Test

4.1. PCI Slot Function (PCI Adapter Card) Test

| Adapter USB Card | Connect to USB | | | Note |
|--------------------------------------|-------------------------------------|--------------------------|--------------------------|---------------------|
| | Pass | Fail | N/A | |
| DU-520 5-Port USB 2.0 PCI Adapter | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DU-001 |
| Adapter LAN Card | Connect to Internet | | | Note |
| | Pass | Fail | N/A | |
| Realtek RTL8139 Ethernet adapter | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | NW-008 |
| Adapter Wireless Lan Card | Connect to Internet | | | Note |
| | Pass | Fail | N/A | |
| D-Link DWL-520+ Wireless Lan Card | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | NW-2002001 (Win xp) |
| Adapter RAID Card | RAID 0 , 1 Function Test | | | Note |
| | Pass | Fail | N/A | |
| ADAPTEC TR822 PCI / 2-Port SATA RAID | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | SA-001 |

4.2. PCI-Express Function Test

| PCI-Express x1 | Function Test | | | Note |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------|
| | Pass | Fail | N/A | |
| Intel GIGABIT CT DESKTOP ADAPTER PCI-Express X1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | NW-2010001 |
| SUNIX SATA II Express card | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ESATA-20801 |
| 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"/> | |
| Intel @Gigabit ET2 Quad Port Svr Adptr | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| PCI-Express x16 | Function Test | | | Note |
| | Pass | Fail | N/A | |
| AX4650 1GB BBR2 (ATI Chipset) PCI-Express x16 VGA Card | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Gigabyte R567OC-1GI ATI/1GB GDDR5 PCI-Express x16 VGA Card | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Express card | Function Test | | | Note |
| | Pass | Fail | N/A | |
| USB 3.0 HBU-330NC Express Card | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Mini PCI Express Card | Function Test | | | Note |
| | Pass | Fail | N/A | |
| AZUREWAVE AW-NE768H Mini PCIe b/g/n WiFi w/ Bluetooth Card(half card) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| SATA Sil3132 RAID Card | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| PER-C11L RevA0.1 / LAN(PCI-E) / USB Port (USB) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

4.3. Mini PCI Card Compatibility Test

| Device Item | Function Test | | | Note |
|--|-------------------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| Realtek RT2561ST Mini PCI Card | <input checked="" 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 checked="" type="checkbox"/> | |

4.4. CardBus (PCMCIA) Compatibility Function Test

| Device Item | Bit | Function Test | | | Note |
|--|---------------|--------------------------|--------------------------|-------------------------------------|-------------|
| | | Pass | Fail | N/A | |
| Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW) | Slot 1 (Up) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | [PC-200200] |
| | Slot 2 (Down) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD) | Slot 1 (Up) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | [PC-200201] |
| | Slot 2 (Down) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II | Slot 1 (Up) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | [PC-200502] |
| | Slot 2 (Down) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II | Slot 2 (Down) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | [PC-200502] |

4.5. ISA Slot Function Test

| Test Item | Result | Note |
|---|---|----------|
| | | |
| SCSI Card Adaptec AHA-1520B SCSI Card | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | [SS-002] |
| LAN Card NE2000 Compatible LAN Card (RTL8019AS) | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | [NW-014] |
| VGA Card CIRRUS LOGIC 5429 FCC ID:ICUVGA-GWV27A | <input type="checkbox"/> <input type="checkbox"/> <input checked="" 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

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

4.6.2. Device List: PC/104+ Module

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

4.6.3. Device List: PCI-104 Module

| Test Item | Result | | | Note |
|----------------|--------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| AAEON PCM-3730 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

4.6.4. Device List: PCI/104 Express Module

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

4.7. SSD Modules Compatibility Test

SSD HDD Compatibility Test:

Cable Type: IDE SATA2 MLC SLC

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

4.8. Peripheral Compatibility- Storage Device Test

4.8.1. Disk on Chip (DOC) Test

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

4.8.2. Disk on module (DOM) Test

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

4.9. Riser Card Function Test

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

5. Power Consumption Test

| Hardware Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | |
|--|--|
| CPU | Intel® Atom™ Processor N2600(1M Cache, 1.6 GHz) |
| Memory | INNODISK 4GB DDR3-1333 |
| HDD | 2.5" SATA HD WD 160GB / WD1600BEKT(with N2600) |
| | 3.5" IDEHD Seagate 160GB / ST3160815A (with D2700) |

5.1. AT/ATX Power Consumption

| Test Equipment | | | | | | | |
|---|---------------------------|-----------|-----------|----------|-----------------|---------|------|
| Equipment | AC/DC Digital Clamp meter | | | | | | |
| Manufacturer | KYORITSU | | | | | | |
| Model name | 2010 | | | | | | |
| Test Environment | | | | | | | |
| AT Power Model | N/A | | | | | | |
| ATX Power Model | SEVENTEAM ST-450PCG 450W | | | | | | |
| Power Supply | ATX Power | | | AT Power | | Note | |
| (Full Loading Mode) Windows 7 SP1 with Prime 95 Full Loading Test | CPU | N2600 | D2700 | N2600 | D2700 | p95v259 | |
| | (+5V) | 2.46 | 3.94 | A | 2.38 | | 3.83 |
| | (+12V) | 0.30 | 0.16 | A | 0.15 | | 0.20 |
| | (-5V) | - | - | A | - | | - |
| | (-12V) | - | - | A | - | | - |
| | (+3.3V) | 0.07 | 0.05 | A | No Support 3.3V | | |
| Full Loading Total Watt | | 16.13 (W) | 21.79 (W) | 13.7(W) | 20.05(W) | | |

| | | | | | | | |
|-------------------------|---------|----------|----------|---------|------------|------|---|
| Suspend in Windows (S3) | (+5V) | 1.54 | 2.30 | A | 1.59 | 2.77 | A |
| | (+12V) | 0.30 | 0.16 | A | 0.10 | 0.20 | A |
| | (-5V) | - | - | A | - | - | A |
| | (-12V) | - | - | A | - | - | A |
| | (+3.3V) | 0.07 | 0.07 | A | No Support | | |
| Suspend Total Watt | | 11.53(W) | 13.65(W) | 9.15(W) | 16.25(W) | | |

| | | | | |
|--|------|------|---|------------|
| 5VSB in Power Off Mode (just for ATX) | 0.12 | 0.11 | A | No Support |
| 5VSB in Power On Mode (just for ATX) | 0.0 | 0.03 | A | |
| 5VSB in S3 Suspend Mode (just for ATX) | 0.02 | 0.02 | A | |

5.2. PC Health Status

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

| Voltage Monitoring Test | Result | | | In Bios(V) | Actaul(V) | Note |
|-------------------------|-------------------------------------|--------------------------|--------------------------|------------|-----------|------|
| | Pass | Fail | N/A | | | |
| CPU_TEMP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +69c | +66c | |
| NM_TEMP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +68c | +65c | |
| SYS_TEMP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +59c | +55c | |
| CPU Fan Speed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N/A | N/A | |
| system Fan Speed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N/A | N/A | |
| VCORE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +0.976 | +0.86 | |
| +1.5V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +1.528 | +1.5 | |
| +5V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +5.037 | +5.04 | |
| +1.5V_DDR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +1.536 | +1.51 | |
| +1.05V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +1.056 | +1.04 | |
| +3.3V | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +3.248 | +3.23 | |
| +3.3V_Dual | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +3.307 | +3.32 | |

| | | | | | | |
|------|-------------------------------------|--------------------------|--------------------------|--------|-------|--|
| VBAT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | +3.193 | +3.06 | |
|------|-------------------------------------|--------------------------|--------------------------|--------|-------|--|

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 | -1 Sec | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

6.2. Booting Timer Test

| Installation | Actual | | Note |
|---------------------|--------|-----|--|
| System Booting Time | 5.4 | Sec | Press the Power Button till "Beep" Sound appears |

6.3. Watchdog Timer Test

Use Function as below: W83627DHG-P

[] No Support.

| Time-Out Interval | Criteria | Actual | Result | | | Note |
|-------------------|----------|---------|-------------------------------------|--------------------------|--------------------------|------|
| | | | Pass | Fail | N/A | |
| 10 sec | +/-2 sec | 10 Sec | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 60 sec | +/-2 sec | 61 Sec | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 255 sec | +/-2 sec | 257 Sec | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Note : Under Room Temperature: 26°C / DOS Mode

7. O.S. Compatibility Test

7.1. English Fedora 16 – Kernel 3.1.0-7.fc16.i686

[] No Support

Driver Information:

| | |
|------------------|----------------|
| Chipset Software | System default |
| Graphics Media | System default |
| Audio Driver | System default |
| LAN Driver | System default |

Install OS to SATA HDD:

| Installation | Result | | | Note |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---------------|
| | Pass | Fail | N/A | |
| English Fedora 16 3.1.0-7.fc16.i686 | <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 type="checkbox"/> | <input checked="" type="checkbox"/> | |
| LVDS -- Full Screen | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VGA + DVI | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VGA + LVDS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DVI + LVDS | <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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Audio Function Test | | | | |
| Play Audio Function Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Play Audio Test |
| Base Function Test | | | | |
| Mouse Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Keyboard Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Console Redirection | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| DVD-ROM 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"/> | |
| 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 | <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

No Support

x32 Driver Information:

| | |
|------------------|--|
| Chipset Software | Intel® Chipset Device Software:9.2.2.1034(07/20/2011) |
| Graphics Media | Intel®GMA 3600 Series 8.15.8.1053(10/31/2011) |
| Audio Driver | Realtek ALC892 6.0.1.6449(8/30/2011) |
| LAN Driver | Intel®82583V Gigabit Network Connection 11.11.43.0(9/1/2011) |

No Support

x64 Driver Information:

| | |
|------------------|--|
| Chipset Software | |
| Graphics Media | |
| Audio Driver | |
| LAN Driver | |

Install OS to SATA HDD:

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

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"/> | |
| DVI -- 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LPT1 | <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"/> | |
| LAN Function Test | | | | |
| LAN1 --- Auto | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LAN2 --- Auto | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Audio Function Test | | | | |
| Line Out Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Line In Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Microphone Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| S/PDIF 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 | <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 XP Professional English Version 32/64Bit

[X] No Support

[] x32 Driver Information:

| | |
|------------------|--|
| Chipset Software | |
| Graphics Media | |
| Audio Driver | |
| LAN Driver | |

[X] No Support

[] x64 Driver Information:

| | |
|------------------|--|
| Chipset Software | |
| Graphics Media | |
| Audio Driver | |
| LAN Driver | |

Install OS to IDE HDD/SATA HDD/ CF Card:

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

Test Results:

| Test Item | Result | | | Note |
|---|--------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Single Display | | | | |
| VGA -- Full Screen | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DVI Full Screen | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| HDMI -- Full Screen | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Boot - Windows XP Professional Advanced Options Menu | | | | |
| Safe Mode | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Basic Function Test | | | | |
| PS/2 Mouse and Keyboard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| USB Mouse and Keyboard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| COM Port Mouse detect | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LPT1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| USB 2.0 Removable Devices | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LAN Function Test | | | | |
| LAN1 --- Auto | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LAN2 --- Auto | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Audio Function Test | | | | |
| Line Out Test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Line In Test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Microphone Test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| S/PDIF Test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Start Menu | | | | |
| Log off User | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Shut down (S5) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Standby | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Restart | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Hibernate (S4) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

8. BIOS Function Test

| Hardware Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | |
|--|---|
| CPU | Intel® Atom™ Processor N2600(1M Cache, 1.6 GHz) |
| Memory | INODISK 4GB DDR3-1333 |
| HDD | 2.5" SATA HD WD 160GB / WD1600BEKT |

8.1. Boot Sequence Test

| Test Item | Result | | | Note |
|--|-------------------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| Floppy | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Hard Disk | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Removable (All Device Priority) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| DVD-ROM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| USB HDD | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| USB Floppy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| USB DVD-ROM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LAN [Boot From LAN First] | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Disable | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Check "Halt on" item – All error but K/B | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

8.2. Power Management Test

8.2.1. APM Power Management Test

| Test Item | Setting Test | Result | | | Note |
|--------------|---------------|--------------------------|--------------------------|-------------------------------------|--------------------|
| | | Pass | Fail | N/A | |
| Suspend Mode | Function Test | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Power Button | Delay 4 Sec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Soft-Off By PWRBTN |
| Power Button | Instant-Off | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Soft-Off By PWRBTN |

8.2.2. ACPI Power Management Test

| Test Item | Result | | | Note |
|--------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| | Pass | Fail | N/A | |
| Enable ACPI Auto Configuration | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Enable Hibernation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | From Windows 7 |
| ACPI - S1 (POS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Resume from PS/2 keyboard or mouse. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Resume from USB keyboard or mouse. |
| ACPI - S3 (STR) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Suspend Disable | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

8.3. Power On Function Test

| Test Item | Result | | | Note |
|--------------------|-------------------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| Password | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Hot KEY | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| MOUSE Move & Click | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| MOUSE Click | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Any KEY | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| BUTTON ONLY | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

8.4. Power On after Power Failure Test

| Test Item | Result | | | Note |
|-------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Off | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| On | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Former-Sts (Auto) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

8.5. 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | SW1 |

8.5.1 After Clear CMOS , Display will show " CMOS Checksum Error"

| Test Item | Result | | | Note |
|---------------------|--------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| CMOS Checksum Error | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

8.6. AAEON Tag Check Utility

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

8.7. TPM Function Test

| Test Item | Result | | | Note |
|-----------|--------------------------|--------------------------|-------------------------------------|----------------------------------|
| | Pass | Fail | N/A | |
| No Change | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Enable | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Disable | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Detect TPM device under Windows. |

8.8. IAMT Function Test

| Test Item | Result | | | Note |
|---------------|--------------------------|--------------------------|-------------------------------------|------|
| | Pass | Fail | N/A | |
| IAMT Function | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

8.9. BIOS SPI ROM

| Test Item | Result | | | Note |
|-----------------------------|--------------------------|--------------------------|-------------------------------------|---------------------------------|
| | Pass | Fail | N/A | |
| Set South Bridge GPIO (LOW) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | No battery bios test |
| Clear CMOS Disable | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Load Optimized Defaults Disable |

8.10. 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"/> | |

9. Performance Test

| Hardware Information with Windows 7 Ultimate English SP1 32 Bit Driver Version | |
|--|---|
| CPU | Intel® Atom™ Processor N2600(1M Cache, 1.6 GHz) |
| Memory | INODISK 4GB DDR3-1333 |
| HDD | 2.5" SATA HD WD 160GB / WD1600BEKT |

9.1. Performance Test

Test Result: (Display set 1024*768 test)

| Testing Software | Scope | | Note |
|--------------------------|-------|-------|---------|
| | N2600 | D2700 | |
| PCMark05 | | | |
| PCMark | - | - | |
| Graphics | 349 | 517 | |
| CPU | 1888 | 2552 | |
| Memory | 2500 | 3415 | |
| HDD | 6167 | 4694 | |
| Benchmark (A) | - | | |
| PCMark02 | | | |
| PCMark | - | - | |
| Graphics | N/A | N/A | |
| CPU | N/A | N/A | |
| Memory | 6486 | N/A | |
| HDD | 1804 | N/A | |
| Benchmark (A) | - | | |
| PCMark Vantage | | | |
| PCMarks | 1881 | 2187 | PCMarks |
| TV and Movies | 1429 | 1587 | |
| Memories | 928 | 983 | |
| Gaming | 1343 | 1494 | |
| HDD | 3915 | 3129 | |
| Benchmark (B) | - | | |
| Average Efficiency | - | | |
| PCMark 7(1.0.4.0) | | | |
| PCMarks | 804 | - | PCMarks |
| TV and Movies | - | - | |
| Memories | - | - | |
| Gaming | - | - | |
| HDD | - | - | |
| Benchmark (B) | - | | |
| Average Efficiency | - | | |

| Testing Software | Scope | | Note |
|---|-------|-------|------|
| | AAEON | Ref. | |
| Final Reality V1.01—BenchMark Test | | | |
| 2D image | 21.33 | 27.38 | |
| 3D | 3.25 | 3.59 | |
| Bus transfer | 28.98 | 36.98 | |
| Overall | 12.53 | 15.74 | |
| Benchmark (A) | - | | |
| 3Dmark06 | | | |

| | | | |
|--------------------|-----|------|--|
| 3Dmark Score | 438 | 664 | |
| CPU Score | 834 | 1094 | |
| SM2.0 Score | 159 | 241 | |
| HDR/SM3.0 Score | 149 | 227 | |
| Benchmark (B) | - | | |
| Average Efficiency | - | | |

| Testing Software | Scope | | Note |
|----------------------|-------|-------|------|
| | AAEON | Ref. | |
| Performance Test 7.0 | | | |
| PassMark Rating | 276.6 | 393.0 | |
| CPU Mark | 620.2 | 930.4 | |
| 2D Graphics Mark | 67.0 | 97.6 | |
| Memory Mark | 271.2 | 360.4 | |
| Disk Mark | 632.0 | 398.7 | |
| Benchmark (A) | - | | |

9-2. Memory Test

| Test Item | Result | | | Note |
|--------------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| MEM v4.20 Overnight Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |