

AGD-315D

15" Rugged Touch Display

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 <hr style="width: 80%; margin: 0 auto;"/> 2011/08/30 | Approval <hr style="width: 80%; margin: 0 auto;"/> Jansin Lee | Test Engineer <hr style="width: 80%; margin: 0 auto;"/> Wade Yang |
|--|--|--|

Version Released Records

| Date | Version | Change History | Note |
|-------------|----------------|--|-------------|
| 2010/04/21 | P3-1001 | 1. Re-composing test Items | |
| 2010/06/01 | P2P3-1001 | 1. New Test Report | |
| 2010/06/21 | P2P3-1002 | 1. Add BIOS -> SPI ROM Setting (South Bridge – GPIO) | |
| 2010/12/02 | P2P3-1003 | 1. New Test Report | |
| 2011/02/23 | P2P3-1101 | 1. Re-composing test Items | |
| 2011/03/04 | P2P3-1102 | 1. Add Specification Validation | |

Note :

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

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

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

Specification Verification

Engineering Specification

| Item | Specification | Result | Note |
|-----------------|--|--------|------|
| Product Name | AGD-315D | Pass | |
| Display | 15", 1024x768, 250 nit | Pass | |
| Touch Screen | 5-wire resistive Touch screen | Pass | |
| Rear I/O panel | DC IN (Power controller) | Pass | |
| | DVI port x 1 | Pass | |
| | VGA port x 1 | Pass | |
| | RS232 port x 1 | Pass | |
| | Mini USB port x 1 | Pass | |
| Front I/O panel | Power Button x 1 | Pass | |
| | MENU x 1 | Pass | |
| | AUTO x 1 | Pass | |
| | UP x 1 | Pass | |
| | DOWN x 1 | Pass | |
| | USB 2.0 x 2 | Pass | |
| AC / DC Adapter | DC Input 9~30 V w/ 3-in terminal bock Optional AC/DC power adapter , input voltage range 100~240 V, with 3-pin terminal block (FSP060-DBAB1) | Pass | |

O.S. Support

| Item | Specification | Confirmed Result | Refer Chapter |
|-------------------|---|------------------|---------------|
| Microsoft Windows | Windows XP Professional English SP3 32 Bit | Pass | |
| | Windows 7 Ultimate English Version 32 Bit | Pass | |
| Linux | Linux Ubuntu 9.04 | Pass | |

Environmental Specifications

| | |
|-----------------------|---|
| Operating temperature | 32°F ~ 122°F (0°C ~ 50°C) (HDD) |
| Storage temperature | -4° ~ 158° F (-20 ~ 70° C) |
| Storage humidity | 5 ~ 90% @ 40C, non-condensing |
| Vibration | 1G rms,random,5~500Hz,X,Y, Z axis |
| Shock | 20G peak acceleration (11 ms duration) |
| Drop | High:92 cm,Weight:6.2Kg (1 Corner, 3 Edge, 6 Surface) |
| EMC | CE /FCC class A |

Note: Please refer Environment Test Report for detail information

Platform Information

| Item | Device Information | Test Item |
|------------------------|--|-------------|
| SYSTEM PC Model / Ver. | AEC-6625 A0.2 | 1,2,3,4,5,6 |
| CPU Board | EPIC-QM57 A1.0 | 1,2,3,4,5,6 |
| BIOS / Version | AEC-6625 1.0(01/06/2011) | 1,2,3,4,5,6 |
| CPU Type | Intel Celeron P4500 1.87GHz(133x14) | 1,2,3,4,5,6 |
| Memory Type | DSL DDR3-1066 2GB(ELPIDA J1108BDSE-DJ-F) | 1,2,3,4,5,6 |
| SATA HDD | TOSHIBA 2.5" 160GB(MK1665GSX) | 1,2,3,4,5,6 |
| USB DVD-ROM | LITEON DX-20A4PU | 1,2,3,4,5,6 |
| LCD Monitor | AGD-315D | 1,2,3,4,5,6 |
| Operating System | <input checked="" type="checkbox"/> English Ubuntu 9.04 – Kernel 2.6.28-11 | 5-1 |
| | <input checked="" type="checkbox"/> Windows 7 Professional English SP3 32 Bit | 5-2 |
| | <input checked="" type="checkbox"/> Windows XP Professional English SP3 32 Bit | 5-3 |
| DC Adapter | DC Power Input 12V / 5A | 1,2,3,4,5,6 |
| | Chipset Information with XP Professional English SP3 32 Bit Driver Version | |
| Chipset Software | Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26) | |
| South Bridge | Intel QM57 | |
| Super IO Chipset | ITE8781F | |
| VGA Chipset | Intel(R)GMA HD 6.14.10.5179(2009/11/9) | |
| Audio Chipset | VIA VT1708B 6.0.1.7300 (2009/07/10) | |
| Ethernet Chipset | Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23) | |
| | Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13) | |

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1. OSD Control Function Test

1.1. OSD Control Test

| OSD Control Function | Function | | | Note |
|----------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Auto / EXIT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| MENU | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| UP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DOWN | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| POWER | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1.2. OSD On Screen Display Test

| OSD –On Screen Display | Function | | | Note |
|------------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Input Source | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Auto In Progress | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Contrast | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Brightness | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Sharpness | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Color | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| User - RED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| User - Green | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| User - Blue | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| OSD Position (H & V) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Language | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Recall | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Save Exit | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cancel Exit | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1.3. OSD Light Test

| OSD Control Function | Function | | | Note |
|----------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| Power off | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Power on | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Stand by | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1.4. Modular System Industrial Workstation Function Test

| Test Item | Result | | | Note |
|--------------------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| AC power outlet / inlet | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Power On / Off | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DC-IN CON (+12V) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VGA – IN (D – Sub) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DVI - I | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Touch Screen (USB Device) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Touch Screen (RS-232 Device) | <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 XP Professional English SP3 32 Bit Driver Version | | | | | | | | | | |
|---|---|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|------------------------------|
| CPU | Intel Celeron P4500 1.87GHz(133x14) | | | | | | | | | |
| Memory | DSL DDR3-1066 2GB(ELPIDA J1108BDSE-DJ-F) | | | | | | | | | |
| SATA HDD | TOSHIBA 2.5" 160GB(MK1665GSX) | | | | | | | | | |
| VGA | AGD-315D | | | | | | | | | |
| DVI | AGD-315D | | | | | | | | | |
| TV | N/A | | | | | | | | | |
| Color Quality | <input checked="" type="checkbox"/> 16bit <input checked="" type="checkbox"/> 32bit | | | | | | | | | |
| Resolution | VGA | | | DVI | | | LVDS | | | Note |
| | Pass | Fail | N/A | Pass | Fail | N/A | Pass | Fail | N/A | |
| 640X480 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 800X600 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1024X600 | <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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1152X864 | <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"/> | |
| 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 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"/> | |
| 1280X800 | <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"/> | |
| 1280X1024 | <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"/> | |
| 1360X768 | <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"/> | |
| 1366X768 | <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"/> | |
| 1400X1050 | <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"/> | |
| 1440X900 | <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"/> | |
| 1600X900 | <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"/> | |
| 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"/> | |
| 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 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"/> | |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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. 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"/> | |

2.2. LCD Monitor Test

| Monitor Integration Test | | Result | | | Note |
|--------------------------|-----------------------------|-------------------------------------|--------------------------|--------------------------|------------------------------|
| | | Pass | Fail | N/A | |
| DVI | Play 720P video file(WMV) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | Play 1080P video file (WMV) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VGA | Play 720P video file(WMV) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | Play 1080P video file (WMV) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Touch Screen | Mini usb port | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Under win 7 / Ubuntu 9.04 |
| | Com port | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Under win 7 / Ubuntu 9.04 |

3. Integration Test

| Hardware Information with Windows 7 32 Bit Driver Version | |
|---|--|
| CPU | Intel Celeron P4500 1.87GHz(133x14) |
| Memory | DSL DDR3-1066 2GB(ELPIDA J1108BDSE-DJ-F) |
| SATA HDD | TOSHIBA 2.5" 160GB(MK1665GSX) |

3.1. USB Port Integration Test

| 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) HUB Port1: USB Keyboard / HUB Port2: USB Mouse / HUB Port3: USB HDD | | | | | | | | |
| USB 2.0 HUB Power Sync / USB 2.0 4 Port HU-155 | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

3.2. Burn In Test

Under Room Temperature: 26 °C

| Test Item | Result | | | Note |
|----------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| BurnIn Test V6.0 Pro | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Note: COM PORT Speed Set to 115200.

4. Time Accuracy Test

4.1. System Clock & RTC Clock Test

Under Room Temperature: 26 °C

| Item Function | Time Interval | Margin for error | Actual | | Result | | | Note |
|-----------------------------|------------------|---------------------|--------|-----|-------------------------------------|--------------------------|--------------------------|------|
| | | | | | Pass | Fail | N/A | |
| RTC Clock in Power On Mode | 24 hrs | +/-2 sec | 0 | 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"/> | |

4.2. Monitor Timer Test

| Installation | Actual | | Note |
|--------------|--------|-----|---|
| Power On | 2.5 | Sec | Press the Power Button till recovery signal |
| Power OFF | 2.5 | Sec | Press the Power Button till no signal |

5. O.S. Compatibility Test

5.1. English Ubuntu 9.04 – Kernel 2.6.28-11

[] 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 Ubuntu 9.04 – Kernel 2.6.28-11 | <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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Network Function Test | | | | |
| Connect to Internet – LAN 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> | |
| CD-ROM Test | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| USB 2.0 Removable Devices | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X Windows Application | | | | |
| Start Button Office | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Show information |
| Shutdown | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Init 0 or shutdown -h now |
| Restart the Computer | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Init 6 or shutdown -r now |
| Halt | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Power Off Mode |
| ls / clear; cd /dev /ls -l | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Command instruction |

5.2. Windows 7 Ultimate English Version 32 Bit

[X] x32 Driver Information:

| | |
|------------------|---|
| Chipset Software | Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26) |
| Graphics Media | Intel(R)GMA HD 6.14.10.5179(2009/11/9) |
| Audio Driver | VIA VT1708B 6.0.1.7300 (2009/07/10) |
| LAN Driver | Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23) Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13) |

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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> | |
| LPT1 | <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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| LAN2 --- Auto | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 | <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"/> | |

5.3. Windows XP Ultimate English Version 32 Bit

[X] x32 Driver Information:

| | |
|------------------|---|
| Chipset Software | Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26) |
| Graphics Media | Intel(R)GMA HD 6.14.10.5179(2009/11/9) |
| Audio Driver | VIA VT1708B 6.0.1.7300 (2009/07/10) |
| LAN Driver | Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23) Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13) |

Install OS to SATA HDD:

| Installation | Result | | | Note |
|---------------------------------------|-------------------------------------|--------------------------|--------------------------|------|
| | Pass | Fail | N/A | |
| English Windows XP 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| LVDS -- Full Screen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Boot - Windows XP 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> | |
| LPT1 | <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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| LAN2 --- Auto | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Restart | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

6. Performance Test

| Hardware Information with XP Professional English SP3 32 Bit Driver Version | |
|---|--|
| CPU | AMD E-350 Processor |
| Memory | DSL DDR3 1333 / 4GB CL9 (ELPIDA J2108BCSE) |
| SATA HDD | SATA 3.5" HDD x 1(Seagate Barracuda 7200.10 / 80G) |

6.1. Performance Test

Test Result: (Display set 1024*768 test)

| Testing Software | Scope | | Note |
|--------------------|-------|------|----------------|
| | AAEON | Ref. | |
| PCMark2002 | | | Only for Win 7 |
| CPU | N/A | - | |
| Memory | 18684 | - | |
| HDD | 18985 | - | |
| Benchmark (A) | - | - | |
| PCMark2005 | | | Windows 7 |
| PC Mark | 4299 | - | PC Mark |
| CPU | 3036 | - | |
| Memory | 2304 | - | |
| Graphics | 2700 | - | |
| HDD | 4820 | - | |
| Benchmark (B) | - | - | |
| Average Efficiency | - | - | |

| Testing Software | Scope | | Note |
|------------------------|-------|------|----------------|
| | AAEON | Ref. | |
| 3Dmark2003 v360 | | | Only for Win 7 |
| 3Dmark Score | 3402 | - | |
| CPU Score | 834 | - | |
| Benchmark (A) | - | - | |
| 3Dmark2006 v110 | | | Windows 7 |
| 3Dmark Score | 1373 | - | |
| CPU Score | 1471 | - | |
| Benchmark (B) | - | - | |
| Average Efficiency | - | - | |

| Testing Software | Scope | | Note |
|---|-------|------|---------------|
| | AAEON | Ref. | |
| Final Reality V1.01—BenchMark Test | | | Windows 7 |
| 2D image | 21.93 | - | |
| 3D | 5.44 | - | |
| Bus transfer | 8.83 | - | |
| Overall | 10.89 | - | Reality marks |
| Benchmark (A) | - | - | |

6.2. NOKIA Monitor Test

Under Room Temperature: 26 °C

| Testing Software | Result | | | |
|--------------------|-------------------------------------|--------------------------|--------------------------|---|
| | Pass | Fail | N/A | |
| Nokia Monitor test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Windows 7 Ultimate English Version 32 Bit |

6.3. Performance Test

Under Room Temperature: 26 °C

| Testing Software | Result | | | |
|------------------|-------------------------------------|--------------------------|--------------------------|---|
| | Pass | Fail | N/A | |
| Performance 7.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Windows 7 Ultimate English Version 32 Bit |

6.4. Screens Test

Under Room Temperature: 26 °C

| Testing Software | Result | | | |
|------------------|-------------------------------------|--------------------------|--------------------------|---|
| | Pass | Fail | N/A | |
| Test Screens | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Windows 7 Ultimate English Version 32 Bit |

6.5. Monitor Test

Under Room Temperature: 26 °C

| Testing Software | Result | | | |
|------------------|-------------------------------------|--------------------------|--------------------------|---|
| | Pass | Fail | N/A | |
| Monitor Test | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Windows 7 Ultimate English Version 32 Bit |