

ACD-515D-HTT-A1-1010

Infotainment 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

2011/10/25

Approval

Jansin Lee

Test Engineer

Mike Lee

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	ACD-515D-HTT-A1-1010	Pass	
Display	15.6", 1366 x 768, 300 nit	Pass	
Touch Screen	Projected Capacitive Touch Window	Pass	
Rear I/O panel	3W Speaker x2(2W Amplifier)	Pass	
Side I/O panel	2x USB 2.0	Pass	
Bottom I/O panel	USB type II x1 for external connection	Pass	
	Mini Type B USB for T/S(1 to 4 HUB,1 for T/S and other for extension USB)	Pass	
	DVI x 1	Pass	
	DB-15 x 1 for VGA	Pass	
	DC jack w/lock x1 for 12Vdc power input	Pass	
	Line in x 1	Pass	
Power Supply	DC Input 12 V / 5A w/ lock connector Built-in AC/DC power adapter Input voltage range 100~240V	Pass	
Mounting	VESA/Wall mount	Pass	

O.S. Support

Item	Specification	Confirmed Result	Refer Chapter
Microsoft Embedded	Windows CE	N/A	
	Windows XP Embedded	N/A	
Microsoft Windows	Windows XP Professional English SP3 32 Bit	Pass	
	Windows 7 Ultimate SP1 English Version 32 / 64 Bit	Pass	
Linux	Linux Fedora Core 14 – Kernel 2.6.35.6- 45.fc14.i686	Pass	

Environmental Specifications

Operating temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage temperature	-4° ~ 158° F (-20 ~ 70° C)
Storage humidity	5 ~ 90% @ 40C, non-condensing
Vibration	1Grms / 5~500Hz / operation / random /XYZ axis
Shock	20G peak acceleration (11 ms duration)
Drop	High:76cm Weight:5.5Kg (1 Corner, 3 Edge, 6 Surface)
EMC	CE /FCC class A

Note: Please refer Environment Test Report for detail information

Platform Information

Host 1 :

Item	Device Information	Test Item
PCB Board	IMBI-Q45 A1.1	1,2,3,4,5,6
Carrier Board	N/A	N/A
BIOS / Version	IMBI-Q45 Rev 1.3(07/09/2010)	1,2,3,4,5,6
CPU Type	Intel Core 2 Quad Q9400 @ 2.66GHz – 1333MHz	1,2,3,4,5,6
Memory Type	A-DATA DDR3-1333 2GB- ADATA 3BCD-1509APF1106E x2	1,2,3,4,5,6
SATA HDD	TOSHIBA 2.5" SATA HDD 160G- MK1665GSX	1,2,3,4,5,6
USB DVD-ROM	LITEON DX-20A4PU	1,2,3,4,5,6
LCD Monitor	ACD-515D	1,2,3,4,5,6
Operating System	<input checked="" type="checkbox"/> English Fedora Core 14 – Kernel 2.6.35.6- 45.fc14.i686	5-1
	<input checked="" type="checkbox"/> Windows 7 Ultimate SP1 English Version 32 / 64 Bit	5-2
	<input checked="" type="checkbox"/> Windows XP Professional English SP3 32 Bit	5-3
Power Supply	Seasonic SS-430GB Active PFC F3	1,2,3,4,5,6
	Chipset Information with XP Professional English SP3 32 Bit Driver Version	
Chipset Software	Intel(R) Chipset Device Software: 9.0.0.1008 (2008/05/01)	
North Bridge	Intel Q45	
South Bridge	ICH10DO	
Super IO Chipset	ITE IT8718F	
VGA Chipset	Enhanced Integrated X4500 Graphic	
Audio Chipset	Realtek ALC888	
Ethernet Chipset	LAN1: Intel 82567LM, LAN2: Intel 82574L	

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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"/>	

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"/>	
Power LED	<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"/>	

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 Core 2 Quad Q9400 @ 2.66GHz – 1333MHz									
Memory	A-DATA DDR3-1333 2GB- ADATA 3BCD-1509APF1106E x2									
SATA HDD	TOSHIBA 2.5" SATA HDD 160G- MK1665GSX									
VGA	ACD-515D									
DVI	ACD-515D									
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 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"/>	
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 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"/>	
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 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"/>	
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. Audio Function Test

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"/>	
Line In	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2.3. LCD Monitor Test

Monitor Integration Test			Result			Note
			Pass	Fail	N/A	
DVI	Win 7	1_Play 720P video file(RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		2_Play 720P video file(WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3_Play 1080P video file (RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		4_Play 1080P video file (WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5_Play 1080P video file (MPEG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		6_Play 1080P video file(MKV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Win XP	1_Play 720P video file(RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		2_Play 720P video file(WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3_Play 1080P video file (RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		4_Play 1080P video file (WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5_Play 1080P video file (MPEG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		6_Play 1080P video file(MKV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VGA	Win 7	1_Play 720P video file(RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		2_Play 720P video file(WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3_Play 1080P video file (RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		4_Play 1080P video file (WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5_Play 1080P video file (MPEG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		6_Play 1080P video file(MKV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Win XP	1_Play 720P video file(RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		2_Play 720P video file(WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3_Play 1080P video file (RM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		4_Play 1080P video file (WMV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5_Play 1080i video file (MPEG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		6_Play 1080P video file(MKV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Integration Test

Hardware Information with XP Professional English SP3 32 Bit Driver Version	
CPU	Intel Core 2 Quad Q9400 @ 2.66GHz – 1333MHz
Memory	A-DATA DDR3-1333 2GB- ADATA 3BCD-1509APF1106E x2
SATA HDD	TOSHIBA 2.5" SATA HDD 160G- MK1665GSX
Chipset Information with XP Professional English SP3 32 Bit Driver Version	
Chipset Software	Intel(R) Chipset Device Software: 9.0.0.1008 (2008/05/01)
North Bridge	Intel Q45
South Bridge	ICH10DO
Super IO Chipset	ITE IT8718F
VGA Chipset	Enhanced Integrated X4500 Graphic
Audio Chipset	Realtek ALC888
Ethernet Chipset	LAN1: Intel 82567LM, LAN2: Intel 82574L

3.1. USB Port Integration Test

Item	USB Port	Boot			Function(XP)			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"/>	

3.1-1. Peripheral Devices Test List

USB Port Integration Test		Result			Note
		Pass	Fail	N/A	
USB KB	1_ Microsoft Wired Keyboard600	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2_ Lemel 5105U	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3_ Logitech Y-BP62a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB MS	1_ Logitech M-UV94	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2_ Microsoft X820471-004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3_ Lemel Mini WEEH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Flash	1_ JetFlash 2A 4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2_ Sandisk Ccuzer micro / 8G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3_ JetFlash V30 / 2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	4_ Kingston DataTravelerII PLUS / 256M	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB DISK	1_ FUJITS4 / 40G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2_ WD WD1600BEVE / 160G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Card Reader	1_ Multi Card Reader P8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB DVD_ROM	1_ LITEON DX-20A4PU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2_ SONY USB2.0 DVD-R/W DRX-830UL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3_ MSI UO881-P-22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	4_ Pioneer DVD-XD01-W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB FDD	1_ MITSUMI D353FUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB HUB	Power Sync / USB 2.0 4 Port HU-155	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	eSENSE 01-USE216	<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"/>	Windows 7 Ultimate SP1 English Version 32 Bit

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	+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"/>	

4.2. Monitor Timer Test

Installation	Actual		Note
Power On	2	Sec	Press the Power Button till recovery signal
Power OFF	2	Sec	Press the Power Button till no signal

5. O.S. Compatibility Test

5.1. English Fedora Core 14 – Kernel 2.6.35.6- 45.fc14.i686

[] No Support

Driver Information:

Chipset Software	System default
Graphics Media	System default
Audio Driver	System default
LAN Driver	System default
Touch Driver	eGTouch_v1.00.0726.L-x32

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Fedora Core 14 – Kernel 2.6.35.6-45.fc14.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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	
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

5.2. Windows 7 Ultimate SP1 English Version 32 / 64 Bit

x32 Driver Information:

Chipset Software	Intel® Chipset Device Software: 9.0.0.1008 (2008/05/01)
Graphics Media	Intel® Q45 Express Chipset 15.13.1.1688 (2009/04/02)
Audio Driver	ALC888 7.1-Channel High Definition Audio 6.0.1.5497 (2007/8/14)
LAN Driver	Intel® PRO/1000PL Network Connection 9.13.41.0(3/26/2010)

x64 Driver Information:

Chipset Software	Intel® Chipset Device Software: 9.0.0.1008 (2008/05/01)
Graphics Media	Intel® Q45 Express Chipset 15.13.1.1688 (2009/04/02)
Audio Driver	ALC888 7.1-Channel High Definition Audio 6.0.1.5497 (2007/8/14)
LAN Driver	Intel® PRO/1000PL Network Connection 4.0.100.1134 (3/28/2010)

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"/>	
Boot - Windows 7 Ultimate Advanced Options Menu				
Safe Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Basic Function Test				
USB Mouse and Keyboard	<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"/>	
Audio Function Test				
Line In Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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® Chipset Device Software: 9.0.0.1008 (2008/05/01)
Graphics Media	Intel® Q45 Express Chipset 6.14.10.5047 (2009/04/01)
Audio Driver	ALC888 7.1-Channel High Definition Audio 5.10.0.5497(2007/10/22)
LAN Driver	Intel® PRO/1000 PL Network Connection 9.13.41.0(3/26/2010)
Touch Driver	eGalax_eMPIA Touch Version 1.0.0.1

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"/>	
Boot - Windows XP Ultimate Advanced Options Menu				
Safe Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Basic Function Test				
USB Mouse and Keyboard	<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"/>	
Audio Function Test				
Line In Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	

6. Performance Test

Hardware Information with XP Professional English SP3 32 Bit Driver Version	
CPU	Intel® Core™ 2 Quad CPU Q9400@2.66GHz
Memory	A-DATA DDR3-1333 2GB- ADATA 3BCD-1509APF1106E x2
SATA HDD	TOSHIBA 2.5" SATA HDD 160G- MK1665GSX

6.1. Performance Test

Test Result: (Display set 1366*768 test)

Testing Software	Scope		Note
	AAEON	Ref.	
PCMark2002			Only for Win 7
CPU	N/A	-	
Memory	30696	-	
HDD	2078	-	
Benchmark (A)	-		
PCMark2005			Windows 7
PC Mark	6232	-	PC Marks
CPU	8529	-	
Memory	5866	-	
Graphics	2846	-	
HDD	5254	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2003 v360			Only for Win 7
3Dmark Score	3545	-	
CPU Score	1122	-	
Benchmark (A)	-		
3Dmark2006 v110			Windows 7
3Dmark Score	1197	-	
CPU Score	3653	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—Bench Mark Test			Windows 7
2D image	52.37	-	
3D	5.96	-	
Bus transfer	33.31	-	
Overall	23.99	-	Reality marks
Benchmark (A)	-		

6.2. NOKIA Monitor Test

Under Room Temperature: 26 °C

	Result			
	Pass	Fail	N/A	
Nokia Monitor test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Windows 7 Ultimate SP1 English Version 32 Bit

6.3. Performance Test

Under Room Temperature: 26 °C

	Result			
	Pass	Fail	N/A	
Performance 7.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Windows 7 Ultimate SP1 English Version 32 Bit

6.4. Screens Test

Under Room Temperature: 26 °C

	Result			
	Pass	Fail	N/A	
Test Screens	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Windows 7 Ultimate SP1 English Version 32 Bit

6.5. Monitor Test

Under Room Temperature: 26 °C

	Result			
	Pass	Fail	N/A	
Monitor Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Windows 7 Ultimate SP1 English Version 32 Bit