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There are 3 test results in this document; they are described as follows:

Pass: Function worked perfectly

Fail: Function failed and must be modified in the next version

N/A: Outside of specification or no test equipment

Platform Information:

Item	Device Information	Test Item
PCB Model / Version	XTX-945 A1.0	
Carrier Board	ECB-910M A0.2	
BIOS / Version	XTX-945 BIOS Rev 1.0 (12/18/2007)	
CPU Type	Intel Celeron M 1.86GHz / FSB: 533MHz / L2: 2MB Socket CPU (Yonah 440)	
Memory Type	Kingston DDR2-667 2GB KVR667D2S5/2G (7KEI2 D9HNL)	
SATA	Western Digital WD1200BEVS-60RST0 120GB 2.5" SATA HDD	
Primary IDE Master	N/A	
Primary IDE Slave	ASUS DVD-E818A DVD-ROM	
CRT	ViewSonic E70	
LCD	AUO G065VN01 V.0 / 640x480x18bit / 6.5" / 3.3V LVDS Panel	
Compact Flash	N/A	
Backplane	N/A	
Riser Card	N/A	
Expansion Board	PER-V03B A0.1 (DVI Output via SDVO interface)	
	PER-V04B A0.1 (18/24bit LVDS output via SDVO interface)	
Operating System	[] Linux-RedHat 9.0 or [X] Fedora Core 6	7
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 2	1,2,3,4,5,6,7,8,9
	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	7
	Windows XP Professional Japanese Version V2002 Service Pack 2	7
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	N/A
	Windows Server 2000 English Version	N/A
	Windows 98SE English Version V4.10.2222A	N/A
MS-DOS 6.22 English Version	13,4,6,7,8	
Power Supply	ATX Power Supply : PRT PRM400	
	AT Power Supply: EMACS SP2-4300F	
	DC Adapter : LE LE-0316B160080 AC Adapter (Output 16V / 5A / 80W Max)	

Test Result for Certification

1. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:	X			CN4
Primary IDE Master	X			
Primary IDE Slave	X			
Secondary IDE Master			X	
Secondary IDE Slave			X	
Third IDE Master			X	
Third IDE Slave			X	
RAID 0 Function Test			X	
RAID 1 Function Test			X	
SATA1 / Serial ATA Connector 1	X			CN42
SATA2 / Serial ATA Connector 2	X			CN41
SATA3 / Serial ATA Connector 3			X	
SATA4 / Serial ATA Connector 4			X	
Compact Flash – Type I			X	There is no CF card on ECB-910A
Compact Flash – Type II			X	
DOC (Disk On Chip)			X	
DOM (Disk On Module) – 40 Pin	X			Transcend / TS512MDOM40V / 512MB / IDE 40 Pin
DOM (Disk On Module) – 44 Pin			X	Transcend / TS512MDOM44V / 512MB / IDE 44 Pin
COM 1-232	X			CN6
COM 2-232	X			CN31
COM 3-232	X			CN32
COM 4-232	X			
COM 4-422	X			CN35
COM 4-485	X			
PS/2 Mouse & Keyboard (Internal)			X	
PS/2 Mouse & Keyboard (External)	X			CN10
Audio Connector	X			CN21, only Line-out/Line-in/Mic-in
Audio 5.1 Channel / S/P DIF			X	
LPT 1	X			CN6
LPT 2			X	
SIR / 115.2 Kbps	X			CN17
FIR / 4M bps			X	
USB 1/2 Ports	X			CN27
USB 3 Ports	X			CN14
USB 2.0 1/2 Ports	X			CN27
USB 2.0 3 Ports	X			CN14
DVI Function	X			PER-V03B A0.1 (DVI Output via SDVO nterface)
DIO Connector	X			CN33
Card Bus			X	
PC/104			X	
PC/104-Plus			X	
PCI-104			X	
CD-In Connector			X	
TFT TTL LCD			X	

TFT LVDS LCD	X			
TV-out / S Terminal	X			CN16, SHARP LCDTV LC-20S5T
TV-out / AV Terminal	X			CN16, SHARP LCDTV LC-20S5T
Touch Screen – 8 Wire (CN2)	X			(1) No jumper selection, We must change another mainboard for 4/5 or 8 wire touch screen. (2) Use USB signal on CN11
Touch Screen – 4/5 Wire (CN1)	X			
DIMM Slots	X			
Watchdog IRQ n			X	
Watchdog Software Control	X			
FAN1 Connector	X			CN18
FAN2 Connector	X			CN19
Express card	X			CN3Speaker Connector
Speaker Connector	X			CN8, CN9. Conditional passed. it belongs to ECB-910A carrier board, please refers to E061233QED07
LCD Backlight Power Connector	X			CN13
DC in Connector	X			CN25
Mini Card	X			CN47
Function Connector (CN11)	USB		X	Reserved for touchscreen
	Speaker Volume	X		
	LCD Backlight	X		
	Power Button	X		
RSET	X			SW1
Power Button	X			SW2
LPC Connector			X	CN15, QE doesn't need to test
Lattice Download Connector			X	CN23, QE doesn't need to test
Battery Connector			X	CN28, QE doesn't need to test
EC Download Connector			X	CN30, QE doesn't need to test
Front Panel (CN34)	Result N/A			Notes
	Pass	Fail	N/A	
Power On Button	X			
IDE LED	X			
External Buzzer	X			
On Board Buzzer	X			BZ1
Power LED	X			
Reset Switch	X			
Keyboard Lock			X	
Jumpers Function	Result N/A			Notes
	Pass	Fail	N/A	
BIOS write protection Selection and boot Selection	X			JP1
Backlight enable level Selection and LVDS Power Selection	X			JP2
COM1 +12V/+5V/RING Selection	X			JP3
COM2 +12V/+5V/RING Selection	X			JP4
Auto Power button Selection and power on selection	X			JP5
Power source selection	X			JP6
FAN Power Selection	X			JP7
CMOS Clear Selection	X			JP8

LCD Brightness and speaker level Selection				X	JP9, QE doesn't test it
Power Connector & Function		Result			Notes
		Pass	Fail	N/A	
Standard AT Power Connector		X			CN24
Standard ATX Power Connector		X			CN26
DC-In		X			CN25
LAN Connector & Function		Result			Notes
		Pass	Fail	N/A	
LAN Link / Speed LED	LAN1	X			
	LAN2			X	
LAN Active LED	LAN1	X			
	LAN2			X	
LAN 10/100 Ethernet		X			
LAN 1G Ethernet				X	
PCI Connector & Function		Result No Support			Notes
		Pass	Fail	N/A	
Mini PCI Slot		X			
PCI Slot		X			
PCI Express x1		X			CN40 connector has IRQ conflict problem so we suggest user to use CN39
Express card		X			

2. Power Consumption Test (Run Prime95 Program)

Platform Information:

CPU Board	XTX-945 A0.3
Carrier Board	ECB-910M A0.2
BIOS	XTX-945 BIOS Rev 0.5 (08/23/2007)
Operating System	English Windows XP Professional Service Pack 2 V2002
CPU	As following
Memory	As following
SATA HDD	As following
Primary IDE Master	N/A
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
	N/A
Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1010
Graphics Media	Mobile Intel® 945GM Express Chipset Family 6.14.10.4704 10/6/2006
LAN Driver	Intel® PRO/100 VE Network Connection 8.0.43.0 10/31/2006
Audio Driver	Realtek AC'97 Audio 5.10.0.5820 3/25/2005
Touchscreen Driver	USB Touchscreen Controller (Universal) 4.3.7.3203 8/3/2006
Power Supply	As following

Test Environment	ATX Power: PRT-PRM400		AT Power: EMACS SP2-4300F		Note
Model	Intel Celeron M 1.86GHz / FSB: 533MHz / L2: 2MB Socket CPU (Yonah 440)		Intel Celeron M 1.86GHz / FSB: 533MHz / L2: 2MB Socket CPU (Yonah 440)		
HDD	WD800BEVS-22RST0 2.5" SATA 80GB		Hitachi HDS721616PLA380 3.5" SATA		
RAM	Transcend 512MB DDR2 667 SODIMM (HYNIX HY5PS121621CFP-Y5)		Transcend DDR2 667 SODIMM 2GB (7DE12 D9HNL)		
OS Environment	XP ACPI		XP APM		
Normal Mode (+5V)	4.84	A	5.83	A	
Suspend Mode (+5V)	2.56	A	3.98	A	S1
5VSB in Power Off Mode (just for ATX)	0.17	A	-----	A	
5VSB in Power On Mode (just for ATX)	0	A	-----	A	
Normal Mode (+12V)	0.33	A	0.45	A	
Suspend Mode (+12V)	0.32	A	0.45	A	S1
Normal Mode (+3.3V) (just for ATX)	0	A	-----	A	
Suspend Mode (+3.3V) (just for ATX)	0	A	-----	A	S1
Normal Mode (-12V)	0	A	0	A	
Suspend Mode (-12V)	0	A	0	A	S1
Normal Mode (-5V)	0	A	0	A	
Suspend Mode (-5V)	0	A	0	A	S1

Test Environment	DC Adapter : GW Instek Programmable Power Supply PSH-3630				Note
Model	CPU: Intel Celeron M 1.6GHz Socket CPU (Yonah 420)				
	Memory: Kingston DDR2-667 KVR667D2S5/2G 2GB (7KEI2 D9HNL)				
	HDD: Seagate ST98823AS 80GB 2.5" SATA HDD				
Os Environment	Windows XP Professional ACPI				
Test condition	Standby power when power off	Prime 95 in XP	Suspend from XP (S1)	Max current during boot to Windows	
	0.17A	2.94A	2.18A	2.98A	

Remark: Set GW Instek Programmable Power Supply PSH-3630 to 16V/5A to match with DC Adapter : LE LE-0316B160080 AC Adapter (Output 16V / 5A / 80W Max)

3. Power Connector Test (110V / 220V)

Test Method	Result		
	Pass	Fail	N/A
ATX Connector - Power On/Off for 10 times in DOS	X		
AT Connector - Power On/Off for 10 times in DOS	X		
5V Only - Power On/Off for 10 times in DOS			X
DC Adapter - Power On/Off for 10 times in DOS	X		

4. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power Off Mode	±1 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

5. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Active LED				X		
		Link / Speed LED				X		
LAN2 LED		Active LED						X
		Link / Speed LED						X
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
Onboard LAN1	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 MBps	100	X		
		D-Link DGS-1008T	100M	1GBps	100	X		
		D-Link DES-1316 PoE Switch	100M	100 MBps	100	X		
		Intel InBusiness 8 Port	100M	100 MBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

6. Hardware Compatibility

CPU Compatible Test							
CPU Type		FSB	Prime95 Version		Result		
					Pass	Fail	N/A
Intel Celeron M 1.86GHz / L2: 2MB Socket CPU (Yonah 440)		533MHz	V2414		X		
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A

Transcend DDR2 SODIMM	SAMSUNG/K4T56083Q F-GCD5	DDR2-533	256MB	V1.65	X							
DSL DDR2 SODIMM	ELPIDA E5108AGBG-6E-E	DDR2-667	512MB	V1.65	X							
Transcend DDR2 SODIMM	7DE12 D9HNL	DDR2-667	2GB	V1.65	X							
Transcend DDR2 SODIMM	Hynix HY5PS12821A FP-C3	DDR2-533	512MB	V1.65	X							
Kingston DDR2 SODIMM	7KEI2 D9HNL	DDR2-667	2GB	V1.65	X							
Audio Basic Function Test					Result							
(CN21: Line-In/Line-Out/Mic)					Pass	Fail	N/A					
CN8: Speaker Connector (Speaker name is loss on ECB-910M A0.2, we had grouped it to the ECB-910M project)					X							
CN9: Speaker Connector (Speaker name is loss on ECB-910M A0.2, we had grouped it to the ECB-910M project)					X							
System Sound					X							
CD_In (CN22, it doesn't mound)							X					
CD_In Sound Recorder							X					
Play Sound Recorder					X							
Line Out					X							
Line In					X							
Line In Sound Record					X							
MIC Speaker			Dynamic		X							
			Condenser		X							
MIC Sound Recorder			Dynamic		X							
			Condenser		X							
Audio 5.1 Channel with S/P DIF Function Test					Result							
					Pass	Fail	N/A					
2-channel mode for stereo speaker output							X					
4-channel mode for 4 speaker output							X					
6-channel mode for 5.1 speaker output							X					
S/P DIF function Test			Input				X					
			Output				X					
On Board TV Function Test					Result							
					Pass	Fail	N/A					
NTSC		AV Terminal			X							
PAL					X							
NTSC		S Terminal			X							
PAL					X							
TFT LCD Model			18/24 bit LVDS for XTX-945 with CH7308A			18 bit LVDS for XTX-945 with Intel 945GM			18/24bit LVDS for PER-V04B A0.1 with CH7308A			Note
			Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A	
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)		X			X			X			
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)		X				X		X			
	AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)		X			X			X			

	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	X			X			X		
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	X					X	X		
	AU M170EG01 V.D / 17" / 1280*1024 / 48bit (4:3)	X					X	X		
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	X					X	X		
	AUO T260XW02 / 26" / 1366x768 / 24bit	X					X	X		
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	X					X	X		
	AUO T370HW01 / 37" / 1920x1080 / 48bit	X					X	X		
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)			X			X			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)			X			X			X
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)			X			X			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)			X			X			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)			X			X			X

PCI Slot Function (PCI Adapter Card) Test

Model	Type	Result		
		Pass	Fail	N/A
CHANTECH NVIDIA GeForce4 MX440-8X	VGA Card	X		
Creative Sound BLASTER Live5.1	Sound Card	X		
Takram DC-395U V1.02	SCSI Card	X		
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card	X		
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card	X		
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card	X		
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card	X		
D-Link DWL-520+ Wireless LAN	LAN Card	X		
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card	X		
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem Card	X		
D-Link DU-520 USB 2.0	USB Hub Card	X		
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card	X		

ISA Slot Function Test	Result		
	Pass	Fail	N/A
Creative CT4170 Sound Blaster Sound Card			X
Adaptec AHA-1510/20/22B SCSI Card			X

PCI-Express Function Test			
Model	Result		
	Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card (Just for CN39)	X		

SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card	X		
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card			X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card			X
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X
SUNIX SATA II Express card (+ eSATA HDD External Box) (CN3)	X		
Bear Mini-Express Function Test Card (CN47)	X		
HDD Compatibility Test			
Model	Result		
	Pass	Fail	N/A
Seagate ST3400620A 400GB 3.5" IDE HDD	X		
Seagate ST315320A 15.3GB ATA33 3.5" IDE HDD	X		
FUJITSU MPE 3136AH 13.6GB ATA66 3.5" IDE HDD	X		
Seagate ST3160812A 160GB 3.5" IDE HDD	X		
Quantum Fireball Plug AS 30GB ATA100 3.5" IDE HDD	X		
Seagate ST3160812A 160GB 3.5" IDE HDD	X		
Western Digital WD1600JB-00REA0 160GB 3.5" IDE HDD	X		
Western Digital WD800BEVS-22RST0 80GB 2.5" SATA HDD	X		
Hitachi HDS721616PLA380 160GB 3.5" SATA HDD	X		
WD 1600AAJS-00PSA0 160GB 3.5" SATA HDD	X		
Seagate ST98823AS 80GB 2.5" SATA HDD	X		
CD-ROM Compatibility Test			
Model	Result		
	Pass	Fail	N/A
Pioneer DVD-ROM DVD-126D CD 40X / DVD 16X	X		
ASUS CD-ROM CD-S520/A	X		
Acer DVP1640A / 16X / DVD-ROM / ATA33	X		
BenQ 1650V DVD-ROM	X		
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM/ ATA33	X		
Pioneer / DVD-121 / 16X / DVD-ROM / ATA66	X		
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33	X		
NEC / ND-2500A / DVD R/RW / +R8X-R8X / ATA33	X		
IDE Cable Function test			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA100	X		
44 Pin Cable ATA33			X
80 Pin Cable ATA100	X		
USB Function Test			
USB Basic Function Test	Result		
Remark: (1) CN14 is special connector that has only on1 USB port. (2) USB speed is limited at USB 1.X no matter USB 2.0 in BIOS is enabled or not.	Pass	Fail	N/A
USB Controller	X		
USB 2.0 Controller	X		

USB Keyboard Support		X		
USB Mouse Support				X
USB 1.1 Compatible Test		Result		
		Pass	Fail	N/A
USB 1.1 Compatible Test		X		
USB 2.0 Compatible Test		Result		
		Pass	Fail	N/A
USB 2.0 Compatible Test		X		
USB 2.0 Function Test		Result		
		Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: SONY USB2.0 DVD-R/W DRX-830UL		X		
USB Device Full Loading Test		Result		
Model		Pass	Fail	N/A
USB1 (CN27), PQI USB2.0 U310 1GB drive		X		
USB2 (CN27), USB HDD IBM IC25N020ATCS04-0 / 20GB / 4200RPM		X		
USB3 (CN14), SONY USB2.0 DVD-R/W DRX-830UL		X		
Floppy Disk Controller Function Test		Result		
		Pass	Fail	N/A
Copy and compare file between C: and A / B:		X		
Change Floppy to None value		X		
Swap FDD				X
Peripheral Compatibility-Storage Device				
Model		Interface		Result
				Pass
				Fail
				N/A
FUJITSU MCB3064SS		SCSI		X
IOMega ZIP 100 parallel port		Parallel		X
IOMega ZIP100MB Internal ATAPI Drive		IDE		
DOC				X
Type-I CF		Fix / PIO Mode		X
Type-I CF		Fix / UDMA Mode		X
Digital I/O Connector Test (CN33, BIOS Setting: 8 In / 8 Out / 4 In, 4out)		Result		
		Pass	Fail	N/A
Input Address: 841H (Fixed on BIOS)		X		
Output Address: 841H (Fixed on BIOS)		X		
VCC: (5V)		X		
DIO-1 Function Test		X		
DIO-2 Function Test				X
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules				
Interface	Model	Type		Result
				Pass
				Fail
				N/A

PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-FA00	Mini-PCI Converter			X
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board RAID Function Test					
Model		Interface	Result		
			Pass	Fail	N/A
Set SATA HDDs as RAID 0		SATA			X
Set SATA HDDs as RAID 1		SATA			X
Set SATA HDDs as RAID 10		SATA			X
Set SATA HDDs as RAID 5		SATA			X
COM Function Test			Result		
Remark: COM1 ~ COM4 (from ITE-IT8712KX)			Pass	Fail	N/A
COM Port Burn In Test overnight			X		
Disk On Module [DOM] Compatibility Test					
Model		Interface	Result		
			Pass	Fail	N/A
Transcend / TS512MDOM40V / 512MB		IDE 40 Pin	X		
Transcend / TS512MDOM44V / 512MB		IDE 44 Pin			X
Mini PCI Card Compatibility Test					
Model		Interface	Result		
			Pass	Fail	N/A
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)		LAN	X		
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)		LAN	X		
PER-C20S SATA RAID MiniPCI Card (Silicon Image Sil3512ECTU128 QF7227.1-1)		SATA	X		
COM/LPT Ports & RS-232/422/485 Function Test			Result		
RS-422 for COM4			X		
RS-485 for COM4			X		
COM1 :CN6 from XTX-945 (ITE-IT8712KX)			X		
COM2 :CN31 from XTX-945 (ITE-IT8712KX)			X		
COM3 :CN32 from ECB-910A (ITE-IT8712KX)			X		
COM4 :CN35 from ECB-910A (ITE-IT8712KX)			X		
COM5					X
COM6					X
LPT1			X		
LPT2					X

Card Bus(PCMCIA) Compatibility Function Test			
Model	Result		
	Pass	Fail	N/A
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)			X
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)			X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X

7. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
[] Linux-RedHat 9.0 or [] Fedora Core 4.0 [X] Fedora Core 6.0			X		
Windows Server 2003 English Version / Standard Edition 5.2.3790					X
Windows Server 2003 English Version /Standard x64 Edition					X
Windows XP Professional English Version V2002 Service Pack 2			X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2			X		
Windows XP Professional Japanese Version V2002 Service Pack 2			X		
Windows XP Professional English Version /Standard x64 Edition					X
Windows 2000 Professional English Version V5.00.2195 Service Pack4					X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4					X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4					X
Windows Server 2000 English Version					X
Windows 98SE English Version V4.10.2222A					X
DOS 6.22 English Version			X		
DOS 6.22 Japanese Version			X		
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Fedora Core 6	Chipset Software	Use default driver	X		
	Graphics Media	Use default driver	X		
	LAN Driver	Use default driver	X		
	Audio Driver	Use default driver	X		
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2003 English Version Standard x64 Edition	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel® 945GM Express Chipset Family 6.14.10.4704 10/6/2006	X		

	LAN Driver	Intel® PRO/100 VE Network Connection 8.0.43.0 10/31/2006	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5820 3/25/2005	X		
	Touchscreen Driver	USB Touchscreen Controller (Universal) 4.3.7.3203 8/3/2006	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel® 945GM Express Chipset Family 6.14.10.4704 10/6/2006	X		
	LAN Driver	Intel® PRO/100 VE Network Connection 8.0.43.0 10/31/2006	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5820 3/25/2005	X		
	Touchscreen Driver	USB Touchscreen Controller (Universal) 4.3.7.3203 8/3/2006	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel® 945GM Express Chipset Family 6.14.10.4704 10/6/2006	X		
	LAN Driver	Intel® PRO/100 VE Network Connection 8.0.43.0 10/31/2006	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5820 3/25/2005	X		
	Touchscreen Driver	USB Touchscreen Controller (Universal) 4.3.7.3203 8/3/2006	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2000 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 98SE English Version V4.10.222A	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X

8. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
APM Power Management Test	X		
ACPI Power Management Test	X		
Power On Function Test			X
Wake Up Event Test	X		
Power On after Power Failure Test (SW has removed auto item from BIOS)	X		
CMOS Backup / Clear CMOS Test	X		
Boot ROM Test (Only support PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test	X		
Init Display First Function Test 1. BIOS has fixed it as onboard output while we select "Onboard VGA" 2. There is no PCI Express slot on ECB-910A	X		
On-Chip Serial ATA Function Test	X		
SATA Mode-IDE/RAID Function Test			X
PC Health Status			
Voltage Monitor Test	X		
FAN Speed Monitor Test	X		
Temperature Monitor Test	X		
Floppy Function Test	X		
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test	X		
BIOS AWDFLASH Program Test	X		

9. Performance Test

CPU Board	XTX-945 A0.3
Carrier Board	ECB-910A A0.2
BIOS	XTX-945 BIOS Rev 0.9 (11/02/2007)
Operating System	English Windows XP Professional Service Pack 2 V2002
CPU	Intel Celeron M 1.86GHz / FSB: 533MHz / L2: 2MB Socket CPU (Yonah 440)
Memory	Transcend DDR2 667 SODIMM SDRAM 2GB (7DE12 D9HNL)
SATA HDD	N/A
Primary IDE Master	Seagate ST3160812A 160GB 3.5" IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1010
Graphics Media	Mobile Intel® 945GM Express Chipset Family 6.14.10.4704 10/6/2006
LAN Driver	Intel® PRO/100 VE Network Connection 8.0.43.0 10/31/2006
Audio Driver	Realtek AC'97 Audio 5.10.0.5820 3/25/2005
Touchscreen Driver	USB Touchscreen Controller (Universal) 4.3.7.3203 8/3/2006
Power Supply	PRT PRM400 ATX Power Supply

Test Result:

Testing Software	Result	Unit
ZD WinBench 99 V2.0		
Business Disk WinMark99	8310 ^{2.3}	Thousand bytes/sec
High-End Disk WinMark99	26100 ^{2.4}	Thousand bytes/sec
Business Graphics WinMark99	352 ^{2.4}	
High-End Graphics WinMark99	1050 ^{2.5}	
PCMark2002		
CPU	6348	
Memory	8252	
HDD	1097	
Final Reality V1.01—BenchMark Test		
2D image	34.04	
3D	6.41	
Bus transfer	47.30	
Overall	20.83	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	116 ^{1,4,5,22}	Frames / sec
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	N/A	
ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium III 800 MHZ CPU)		
Multimedia Content Creation Winstone 2004	Score: 29.7 / Variance: 0.68%	
Business Winstone 2004 v1.0.1 (Up Pentium III 800 MHZ CPU)		
Business Winstone2004	Score: 18.4 / Variance: 28%	