

P5 Verification Test Plan

Release No : 08E010030

Product Model	ECB-910M
Description	COM Express Carrier Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> CPU PCB : XTX-915 Rev.A1.0 <input checked="" type="checkbox"/> Carrier Board: ECB-910M A1.0 <input checked="" type="checkbox"/> BIOS : XTX-915 BIOS Rev. 1.0(02/20/2008) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> North Bridge : Intel 915 GME <input checked="" type="checkbox"/> South Bridge : Intel NH82801FBM <input checked="" type="checkbox"/> VGA Chipset : Intel 915 GME <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC 655 <input checked="" type="checkbox"/> Ethernet Chipset : Intel EP82562ET <input checked="" type="checkbox"/> I/O Chipset : ITE IT8712F-S <input checked="" type="checkbox"/> TV Chipset : Intel 915 GME <input checked="" type="checkbox"/> Remark : P5 Test report for XTX-915 Rev A1.0
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2008/08/14

Issue date

Wenyuan Yang

Manager

Jerry Tsai

Test Engineer

Summary Table of contents :

Summary Table of contents	2
Platform Information	3
1. I/O Peripheral Function Test	4
2. Power Consumption Test	6
3. Power Connector Test	7
4. Timer Accuracy Test	7
5. Network HUB / LAN Connection Test	7
6. Hardware compatibility	8
7. O.S. Compatibility Test	13
8. BIOS Function Test	15
9. Performance Test	16

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
Carrier Board	ECB-910M A0.3	1,2,3
CPU PCB Model/ Version	XTX-915 Rev.A1.0	1,2,3
BIOS / Version	XTX-915 BIOS Rev. 1.0(02/20/2008)	1,2,3
CPU Type	Pentium M Dothan 1.73 / 2M / 533 / RH80536 / 740 / 5611B171 / SL7SA Socket CPU	1,2,3
Memory Type	Dsl DDR II 533 512MB(E5108AG-5C-E) SODIMM SDRAM	1,2,3
Primary IDE Master	Western Digital MODEL WD800BB-55JKCO 80GB HDD	1,2,3
Primary IDE Slave	Pioneer DVD-ROM 18X	1,2,3
CRT	ViewSonic CRT 17" E70	1,2,3
LCD	N/A	N/A
Compact Flash	N/A	N/A
Backplane	N/A	N/A
Operating System	[<input type="checkbox"/>] Linux-RedHat 9.0 or [<input checked="" type="checkbox"/>] Fedora Core 6.0	2
	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
	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	2
	Windows XP Professional Japanese Version V2002 Service Pack 2	2
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack 4	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	N/A
Power Supply	ATX POWER Seventeam ST-402HLP 400W	1,2,3

Test Result for Certification

1. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	Pass	Fail	N/A
Floppy Connector / Driver A:	X		
Floppy Connector / Driver B:			X
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		
SATA2 / Serial ATA Connector 2	X		
SATA3 / Serial ATA Connector 3	X		
SATA4 / Serial ATA Connector 4	X		
Compact Flash – Type I(UDMA)	X		
Compact Flash – Type I(PIO)	X		
DOC (Disk On Chip)			X
DOM (Disk On Module) – 40 Pin	X		
DOM (Disk On Module) – 44 Pin			X
COM 1-232	X		
COM 1-Ring /+5V /+12V	X		
COM 2-232	X		
COM 2-Ring /+5V /+12V	X		
COM 3-232	X		
COM 4-232	X		
COM 4-422	X		
COM 4-485	X		
PS/2 Mouse & Keyboard (Internal)			X
PS/2 Mouse & Keyboard (External)	X		
Audio Connector	X		
Audio 5.1 Channel / S/P DIF			X
LPT 1	X		
LPT 2			X
SIR / 115.2 Kbps	X		
FIR / 4M bps			X
USB 1/2 Ports	X		
USB 3 Ports	X		
USB 5/6 Ports			X
USB 7/8 Ports			X
USB 2.0 1/2 Ports	X		
USB 2.0 3 Ports	X		

USB 2.0 5/6 Ports			X
USB 2.0 7/8 Ports			X
DVI Function			X
DIO Connector	X		
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		
TV-out / AV Terminal	X		
Touch Screen – 8 Wire	X		
Touch Screen – 5 Wire	X		
DIMM Slots	X		
Watchdog IRQ n			X
Watchdog Software Control	X		
CPU FAN Connector	X		
System FAN Connector	X		
Front Panel	Result		
	Pass	Fail	N/A
Power On Button	X		
IDE LED	X		
External Buzzer	X		
On Board Buzzer	X		
Power LED	X		
Reset Switch	X		
Keyboard Lock			X
Jumpers Function	Result		
	Pass	Fail	N/A
ATX simulates AT			X
Audio Out Selection (W/O & W/ Amplifier)			X
LCD Voltage Selection	X		
COM2-Ring/5V/12V Selection	X		
COM2 RS-232/422/485 Selection	X		
Clear CMOS	X		
Touch Screen Operating Mode Selection			X
Clock Shift of TFT LCD			X
Power Connector & Function	Result		
	Pass	Fail	N/A



ATX Power Connector		X		
ATX Power_12V Connector				X
AT Power Connector (P8 & P9)		X		
Big 4P Power Connector				X
Mini 4P Power Connector				X
External Power Connector (Adapter)		X		
Option ATX Power Connector (PS-ON / +5VSB)				X
LAN Connector & Function		Result		
		Pass	Fail	N/A
LAN Speed LED	LAN1	X		
	LAN2			X
LAN Active LED	LAN1	X		
	LAN2			X
LAN Link LED	LAN1	X		
	LAN2			X
LAN 10/100 Ethernet		X		
LAN 1G Ethernet				X
PCI Connector & Function		Result		
		Pass	Fail	N/A
Mini PCI Slot		X		
PCI Slots		X		
PCI Express		X		

2. Power Consumption Test (Run Prime95 Program) Platform Information

CPU PCB Model / Version	XTX-915 A0.3	
Carrier Board	ECB-910M A1.0	
BIOS	XTX-915 BIOS Rev. 0.83(09/11/2007)	
Operating System	Windows XP Professional V2002 Service Pack 2	
CPU	Intel Pentium M 2.0GHz / 533MHz / 2M RH80536 760 5536B887 SL7SM	
Memory	KINGMAX DDR II 533 1GB(KKEA88B4IAU0-37DA) SODIMM SDRAM	
SATA HDD	N/A	
Primary IDE Master	Seagate ST3160815A 160GB	
Primary IDE Slave	SONY DDU1632 8X DVD-ROM	
CRT	ViewSonic CRT E70	
LCD	N/A	
Compact Flash	N/A	
Backplane	N/A	
Riser Card	N/A	
Chipset Software	Intel Chipset Software Installation Utility Ver:8.1.1.10110(11/08/2006)	
Graphics Media	Mobile Intel 915GM/GMS.910GML Express Chipset Ver:6.14.10.4764(01/13/2007)	
LAN Driver	Intel PRO/100VE Network Connection Ver:8.0.43.0(10/31/2006)	
Audio Driver	Realtek AC'97 Audio Ver:5.10.0.5820(03/25/2005)	
Touchscreen Driver	USB Touchscreen Controller Ver:4.3.7.3203(08/03/2006)	
Power Supply	ATX Power: Seventeam ST-400EAG-05F 400W	ATX Power: Seventeam ST-400EAG-05F 400W

Test Equipment:

Equipment	AC/DC Clamp Meter
Manufacturer	PROVA
Model name	CM-01
Standard	Reference to CE EN 61010 Test Procedure
	Reference to UL Test Procedure

Equipment Certified Calibration:

Calibrated Company	IPE (儀寶)
S/N	00004072 (DM215)
Report No	7C21P566
Calibration Date	Jan. 14,2008
Next Calibration Date	Jan. 13, 2009
Test By	Mick

- Test Point:**
1. Power on machine and boot into Windows environment
 2. Run test software: Prime95 to make system heavy loading in order to measure its maximum current
 3. Use Prova EN61010(set as 40A) to measure each current of system different mode

	ATX Power Seventeam ST-400EAG-05F 400W		AT Power ZECK ZKS-300W		Note
	Value	Unit	Value	Unit	
Normal Mode (+5V)	6.83	A	6.94	A	
Suspend Mode (+5V)	2.76	A	N/A	A	
5VSB in Power Off Mode (just for ATX)	0.23	A	-----	A	
5VSB in Power On Mode (just for ATX)	0.04	A	-----	A	
Normal Mode (+12V)	0.38	A	0.42	A	
Suspend Mode (+12V)	0.19	A	N/A	A	
Normal Mode (+3.3V) (just for ATX)	0	A	-----	A	
Suspend Mode (+3.3V) (just for ATX)	0	A	-----	A	
Normal Mode (-12V)	0	A	N/A	A	
Suspend Mode (-12V)	0	A	N/A	A	
Normal Mode (-5V)	0	A	N/A	A	
Suspend Mode (-5V)	0	A	N/A	A	

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

Test Method	Result		
	Pass	Fail	N/A
ATX Connector - Power On/Off for 10 times in DOS (Seventeam ST-352HLP 350W)	X		
AT Connector - Power On/Off for 10 times in DOS			X
5V Only - 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 LED				X		
		Speed LED				X		
LAN2 LED		Active LED						X
		Link LED						X
		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 1.5GHz /1MB /400MHz RH80536 370 Q610A312 SL8MM Socket CPU	400	V2414	X				
Intel Pentium M 1.8GHz / 2MB / 400MHz SL7EN RH80536 1800/2MB	533	V2414	X				
Intel Pentium M 2.0GHz / 533MHz / 2M RH80536 760 5536B887 SL7SM	533	V2414	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A



KINGMAX	(KKEA88B4IAU0-37DA)	DDR II 533	1GB	V1.65	X		
Transcend	SAMSUNG K4T56083QF-GCD5	DDR II 533	256MB	V1.65	X		
Kingston	V59C1512164QBF3	DDR II 667	512MB	V1.65	X		
Audio Basic Function Test					Result		
					Pass	Fail	N/A
System Sound					X		
CD_In							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			
On Board LCD Function Test							
TFT LCD	Type		Voltage	Result			
				Pass	Fail	N/A	
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)		3.3V			X	
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)		3.3V			X	
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)		3.3V	X			
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)		3.3V	X			
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)		3.3V			X	
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)		5V			X	
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)		5V			X	
	AUO T260XW02 / 26" / 1366x768 / 24bit					X	
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit		5V			X	
	AUO T370HW01 / 37" / 1920x1080 / 48bit					X	
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)		5V			X	
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)		3.3/5V			X	
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)		3.3V			X	
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)		3.3V			X	

Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)		5V		X
PCI Slot Function (PCI Adapter Card) Test				
Model	Type	Result		
		Pass	Fail	N/A
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card	X		
SC3000 CMI8738/C3DX	Sound 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		
PCI-Express Function Test				
Model	Result			
	Pass	Fail	N/A	
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card	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	
HDD Compatibility Test				
Model	Result			
	Pass	Fail	N/A	
Seagate ST3400620A 400GB 3.5" IDE HDD	X			
Maxtor VAM51JJ0 40GB ATA/133 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 ST3160815A 160GB Barracuda 7200.7 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 ST380013A 80GB ATA100 3.5" IDE HDD	X			
Western WD1600JB-00REA0 160GB ATA100 3.5" IDE HDD	X			
CD/DVD-ROM Compatibility Test				
Model	Result			
	Pass	Fail	N/A	
Pioneer DVD-ROM DVD-126D CD 40X / DVD 16X	X			
SONY DDU1632 16 x DVD ROM	X			
Acer DVP1640A / 16X / DVD-ROM / ATA33	X			
ASUS /CD S-500/A 50X CD-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		
	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: USB2.0 DRW-1604P-D/WHT/G/ASUS	X		
USB Device Full Loading Test	Result		
	Pass	Fail	N/A
Model			
ASUS DRW-1604P-D/WHT/G/DVD-RW	X		
IBM IC25N020ATCS04-0 / 20GB	X		
Transcend Flash Disk 2GB	X		
USB Card Reader+pqj 1GB CF Card	X		
Kingston Flash Disk 256MB	X		
SONY Flash Disk 256MB	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
MO [SCSI]	SCSI	X	
IOMega ZIP 100 parallel port	Parallel	X	

DOC					X
Type-I CF		Fix / PIO Mode	X		
Type-I CF		Fix / UDMA Mode	X		
Digital I/O Connector Test			Result		
			Pass	Fail	N/A
Input Address: 2A1			X		
Output Address: 2A1			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		
			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		



	Pass	Fail	N/A
RS-422 for COM2	X		
RS-485 for COM2	X		
COM1	X		
COM2	X		
COM3	X		
COM4	X		
COM5			X
COM6			X
LPT1	X		
LPT2			X

Card Bus(PCMCIA) Compatibility Function Test

Model	Result		
	Pass	Fail	N/A
Compact Flash Adapter (1GB PQI CF Card inserting)			X
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)			X
D-Link DWL-650 802.11g/2.4GHz Wireless Cardbus Adapter			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	
Fedora 6 (2.6.18-1.2798.fc6)		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 Pack 4				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	
MS-DOS 6.22		X			
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Fedora 6 (2.6.18-1.2798.fc6)	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN Driver	Default Driver	X		

	Audio Driver	Default Driver	X		
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	Intel Chipset Software Installation Utility Ver:8.1.1.10110(11/08/2006)	X		
	Graphics Media	Mobile Intel 915GM/GMS.910GML Express Chipset Ver:6.14.10.4764(01/13/2007)	X		
	LAN Driver	Intel PRO/100VE Network Connection Ver:8.0.43.0(10/31/2006)	X		
	Audio Driver	Realtek AC'97 Audio Ver:5.10.0.5820(03/25/2005)	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	Chipset Software	Intel Chipset Software Installation Utility Ver:8.1.1.10110(11/08/2006)	X		
	Graphics Media	Mobile Intel 915GM/GMS.910GML Express Chipset Ver:6.14.10.4764(01/13/2007)	X		
	LAN Driver	Intel PRO/100VE Network Connection Ver:8.0.43.0(10/31/2006)	X		
	Audio Driver	Realtek AC'97 Audio Ver:5.10.0.5820(03/25/2005)	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	Chipset Software	Intel Chipset Software Installation Utility Ver:8.1.1.10110(11/08/2006)	X		
	Graphics Media	Mobile Intel 915GM/GMS.910GML Express Chipset Ver:6.14.10.4764(01/13/2007)	X		
	LAN Driver	Intel PRO/100VE Network Connection Ver:8.0.43.0(10/31/2006)	X		
	Audio Driver	Realtek AC'97 Audio Ver:5.10.0.5820(03/25/2005)	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	X		
CMOS Backup / Clear CMOS Test	X		
Boot ROM Test (PXE)	X		



Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test	X		
Init Display First Function Test	X		
On-Chip Serial ATA Function Test	X		
SATA Mode-IDE/RAID Function Test			X
PC Health Status			
(+) Vccp	X		
(+) Vcore	X		
(+) 1.5V			X
(+) CPUVcore			X
(+) 2.6V			X
(+) 3.3V	X		
(+) 5V	X		
(+) 12V			X
(-) 12V			X
(-) 5V			X
(+) 3.3VSB			X
(+) 5VSB	X		
Voltage Battery (Above 3V)	X		
CPU Fan Speed	X		
System Fan Speed	X		
Current CPU Temp.	X		
System Temp.	X		
MCH Temp.			X

9. Performance Test Platform Information:

CPU PCB Model / Version	XTX-915 A0.3
Carrier Board	ECB-910M A1.0
BIOS	XTX-915 BIOS Rev. 0.83(09/11/2007)
Operating System	Windows XP Professional V2002 Service Pack 2
CPU	Intel Pentium M 2.0GHz / 533MHz / 2M RH80536 760 5536B887 SL7SM
Memory	KINGMAX DDR II 533 1GB(KKEA88B4IAU0-37DA) SODIMM SDRAM
SATA HDD	N/A
Primary IDE Master	Seagate ST3160815A 160GB
Primary IDE Slave	SONY DDU1632 8X DVD-ROM
CRT	ViewSonic CRT E70
LCD	N/A
Compact Flash	N/A
Backplane	N/A
Riser Card	N/A
Chipset Software	Intel Chipset Software Installation Utility Ver:8.1.1.10110(11/08/2006)
Graphics Media	Mobile Intel 915GM/GMS.910GML Express Chipset Ver:6.14.10.4764(01/13/2007)
LAN Driver	Intel PRO/100VE Network Connection Ver:8.0.43.0(10/31/2006)
Audio Driver	Realtek AC'97 Audio Ver:5.10.0.5820(03/25/2005)
Touchscreen Driver	USB Touchscreen Controller Ver:4.3.7.3203(08/03/2006)



Power Supply	Seventeam ST-400EAG-05F 400W ATX Power
--------------	--

Test Result:

Testing Software	Result	Unit
ZD WinBench 99 V2.0		
Business Disk WinMark99	8520	Thousand bytes/sec
High-End Disk WinMark99	32800	Thousand bytes/sec
Business Graphics WinMark99	298	
High-End Graphics WinMark99	795	
PCMark2002		
CPU	5031	
Memory	4659	
HDD	1326	
Final Reality V1.01—BenchMark Test		
2D image	26.96	
3D	5.89	
Bus transfer	38.18	
Overall	17.06	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	97.8	Frames / sec
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	3494	
ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium III 800 MHZ CPU)		
Multimedia Content Creation Winstone 2004	21.9	
Business Winstone 2004 v1.0.1 (Up Pentium III 800 MHZ CPU)		
Business Winstone2004	17.7	

Test Result:

Testing Software	Result	Unit
PCMark05		
PCMark	N/A	PCMarks
CPU	N/A	
Memory	N/A	
Graphics	N/A	
HDD	N/A	
3Dmark2003 v360		
3Dmark Score	783	
CPU Score	361	

Remark: Please uses below two performance software to test mainboard if the chipset is new enough.
(ex. Intel Core 2 Duo CPU)

