

P5 Verification Test Plan

Release 08E010034

Product Model	COM-690T
Description	ATI M690T+SB600 COM Express Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> CPU Board : COM-690T/E A1.0 <input checked="" type="checkbox"/> BIOS : COM-690T/E BIOS Rev 1.0 (08/04/2008) <input checked="" type="checkbox"/> Carrier Board : ECB-916M A1.0 <input checked="" type="checkbox"/> Expansion Board : N/A <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU : <input checked="" type="checkbox"/> North Bridge : ATI M690T <input checked="" type="checkbox"/> South Bridge : SB600 <input checked="" type="checkbox"/> VGA Chipset : ATI M690T <input checked="" type="checkbox"/> Audio Chipset : Realtek High Definition Audio <input checked="" type="checkbox"/> Ethernet Chipset : INTEL 82537L Gigabit Ethernet <input checked="" type="checkbox"/> I/O Chipset : SB600 <input checked="" type="checkbox"/> TV Chipset : ATI RS690T <input checked="" type="checkbox"/> SDVO : N/A <input checked="" type="checkbox"/> Remark : QE P5 Report for COM-690T/E A1.0
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2008/10/01

Issue date

Wenyuan Yang

Manager

Jerry Tsai

Test Engineer

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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	COM-690T/E A1.0	
Carrier Board	ECB-916M A1.0	
BIOS / Version	COM-690T/E BIOS Rev 1.0 (08/04/2008)	
CPU Type	AMD Turion 64x2 TMDTL52HAXSCT 1.6GHz	
Memory Type	Transcend DDR2 667 SODIMM 2GB (SEC 752 ZCE6 K4T1G084QD)	
SATA	N/A	
Primary IDE Master	WD800JB-00JJC0 80GB 3.5" IDE HDD	
Primary IDE Slave	LH-52C1P CD-RW/DVD-ROM	
CRT	ViewSonic E70 17"	
LCD	N/A	
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 [] Fedora Core 6	N/A
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Vista English Version /Standard x64 Edition	6
	Windows XP Professional English Version V2002 Service Pack 2	1,2,3,4,5,6,7,8
	Windows XP Professional English Version /Standard x64 Edition	6
	Windows 2000 Professional English 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	N/A	
Power Supply	ATX Power Supply : PRT PRM400	1,2,3,4,5,6,7,8
	AT Power Supply: LEMACS SP2-4300F 300W	1,2,3,4,5,6,7,8
	DC Adapter :	N/A

Test Result for Certification

1. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:	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	X			
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			
COM 2-232	X			
COM 3-232	X			
COM 4-232	X			
COM 2-422	X			
COM 2-485	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			
SIR / 115.2 Kbps			X	
FIR / 4M bps			X	
USB 1/2 Ports	X			
USB 3/4 Ports	X			
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 Ports	X			
DVI Function			X	
DIO Connector	X			
Card Bus			X	
PC/104			X	
PC/104-Plus			X	
PCI-104			X	
CF-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 – 4/5 Wire	X			
DIMM Slots	X			
Watchdog I/O n			X	
Watchdog Software Control	X			
FAN1 Connector	X			
FAN2 Connector	X			
Express card	X			
Speaker Connector	X			
LCD Backlight Power Connector	X			
DC in Connector	X			
PCI Express Mini Card	X			
Power Button	X			
Battery Connector	X			
Front Panel (CN34)	Result			Notes
	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			Notes
	Pass	Fail	N/A	
BIOS write protection Selection and boot Selection	X			
Backlight enable level Selection and LVDS Power Selection	X			
COM1 +12V/+5V/RING Selection	X			
COM2 +12V/+5V/RING Selection	X			
Auto Power button Selection and power on selection	X			
Power source selection	X			
FAN Power Selection	X			
CMOS Clear Selection	X			
LCD Brightness and speaker level Selection			X	
Power Connector & Function	Result			Notes
	Pass	Fail	N/A	

Standard AT Power Connector		X			
Standard ATX Power Connector		X			
5V Only Power Connector				X	
DC Adanpter		X			
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			Notes
		Pass	Fail	N/A	
Mini PCI Slot		X			
PCI Slot		X			
PCI Express x1		X			
Exnress card		X			

2. Power Consumption Test (Run Prime95 Program)

Platform Information:

CPU Board	COM-690T A1.0
Carrier Board	ECB-916M A1.0
BIOS	COM-690T BIOS Rev 0.M(06/16/2008)
Operating System	English Windows XP Professional Service Pack 2 V2002
CRT	ViewSonic E70 17"
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
	N/A
Chipset Software	ATI Catalyst Software Suite Version 8.4 (4/16/2008)
Graphics Media	ATI Radeon X1270 8.477.0.0(4/7/2008)
LAN Driver	Intel PRO /1000 PL Network Connection 9.5.12.0(7/26/2006)
Audio Driver	Realtek High Definition Audio 5.10.0.5559(1/30/2008)
Touchscreen Driver	N/A
Power Supply	SEVENTEAM ST-400EAG-05 400W ATX Power

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

Model	Test Environment	ATX Power: Seventeam		AT Power: LEMACS		Note
		ST-400EAG-05F		SP2-4300F 300W		
		AMD Turion 64x2		AMD Mobile AMD Sempron		
		TMDTL52HAXSCT 1.6GHz		SMS3500HAX4CM 1.8GHz		
OS Environment		Windows XP Professional V2002 Service Pack 2				
Normal Mode (+5V)		0.7	A	0.72	A	
Suspend Mode (+5V)		0.32	A	0.34	A	
5VSB in Power Off Mode (just for ATX)		0.22	A	-----	A	
5VSB in Power On Mode (just for ATX)		0.02	A	-----	A	
Normal Mode (+12V)		3.86	A	3.49	A	
Suspend Mode (+12V)		1.70	A	1.76	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	0	A	
Suspend Mode (-12V)		0	A	0	A	
Normal Mode (-5V)		0	A	0	A	
Suspend Mode (-5V)		0	A	0	A	

3. Power Connector Test

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		
12V 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	±2 second during 24 hours	X		
RTC Clock in Power On Mode	±2 second during 24 hours	X		
RTC Clock in Power Off Mode	±2 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		
Onboard LAN2	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		
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6. Hardware Compatibility

CPU Compatible Test							
CPU Type	FSB	Prime95 Version	Result				
			Pass	Fail	N/A		
AMD Turion 64x2 TMDTL52HAXSCT 1.6GHz	200	V24.14	X				
Mobile AMD Sempron SMS3500HAX4CM 1.8GHz	200	V24.14	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	Mem Test86 Version	Result		
					Pass	Fail	N/A
A-DATA	A-DATA DDR2 667 SODIMM 1GB (A-DATA AD29608A8A-3EG)	667	1G	V1.70	X		
Transcend	Transcend DDR2 667 SODIMM 2GB (SEC 752 ZCE6 K4T1G084QD)	667	2G	V1.70	X		
Transcend	Transcend 512MB DDR2 667 SODIMM (HYNIX HY5PS121621CFP-Y5)	667	512MB	V1.70	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		
TFT LCD Model		Result		
		Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	X		
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	X		
	AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)	X		
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	X		
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	X		
	AU M170EG01 V.D/ 17" / 1280*1024 / 48bit (4:3)	X		
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	X		
	AUO T260XW02 / 26" / 1366x768 / 24bit	X		
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	X		
	AUO T370HW01 / 37" / 1920x1080 / 48bit	X		
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)			X
	Sharp LQ121SIDG11 / 12.1" / 800*600 / 18bit (4:3)			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)			X
PCI Slot Function (PCI Adapter Card) Test				
Model	Type	Result		
		Pass	Fail	N/A
CHAINTECH 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
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 ST3160815A 160GB 3.5" IDE HDD	X			
Seagate ST380013A 80GB 3.5" IDE HDD	X			
Western Digital WD800JB-00JJC0 80GB 3.5" IDE HDD	X			
Western Digital WD1600AAJS-00B4A0 160GB 3.5" IDE HDD	X			
Seagate ST380815AS 80GB 3.5" SATA HDD	X			
Western Digital WD1600JD-00HBB0 160GB 3.5" SATA HDD	X			
FUJITSU MHY2080BH 80GB 2.5" SATA HDD	X			
Seagate ST380815AS 80GB 3.5" SATA HDD	X			
CD-ROM Compatibility Test				
Model	Result			
	Pass	Fail	N/A	
Pioneer DVD-ROM DVD-126D CD 40X / DVD 16X	X			
Pioneer DVD-ROM DVD-128A CD 40X / DVD 16X	X			
ASUS / DVD-ROM/DVD-E616A CD 40X / DVD 16X	X			
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM/ 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		X			
USB2		X			
USB3		X			
USB4		X			
USB5				X	
USB6				X	
USB7				X	
USB8				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	
MO [SCSI]				X	
ZIP 100 [Parallel]				X	
IOMega ZIP100MB Internal ATAPI Drive				X	
DOC				X	
Type-I CF				X	
Type-I CF				X	
Digital I/O Connector Test (BIOS Setting: 8 In / 8 Out / 4 In, 4out)		Result			
		Pass	Fail	N/A	
Input Address: 801H (Fixed on BIOS)		X			

Output Address:		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			
		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
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-Red-Hat 9.0 Kernel 2.4.20-8				X	
Fedora Core 4 2.6.11-1.1369_FC4				X	
Windows Server 2003 English Version / Standard Edition 5.2.3790				X	
Windows XP Professional English Version V2002 Service Pack 2		X			
Windows 2000 Professional English Version V5.00.2195 Service Pack 4				X	
Windows 98SE English Version V4.10.2222A				X	
Windows XP Professional English Standard Version x64 Edition		X			
Windows Vista™ Ultimate x64 Edition English Version		X			
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Fedora Core 4 2.6.11-1.1369_FC4	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN 1 Driver	Default Driver	X		
	LAN 2 Driver	Default Driver	X		
	Audio Driver	Default Driver	X		
Windows Server 2003 English Version / Standard Edition 5.2.3790	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	ATI Catalyst Control Center version 8.4.07	X		
	Graphics Media	ATI Radeon X1270 8.477.0.0(4/7/2008)	X		

	LAN Driver	Intel PRO /1000 PL Network Connection 9.5.12.0(7/26/2006)	X		
	Audio Driver	Realtek High Definition Audio 5.10.0.5559(1/30/2008)	X		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 98SE English Version V4.10.2222A	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional English Standard Version x64 Edition	Chipset Software	ATI Catalyst Control Center version 8.4.07	X		
	Graphics Media	ATI Radeon X1270 8.477.0.0(4/7/2008)	X		
	LAN Driver	Intel PRO /1000 PL Network Connection 9.5.12.0(7/26/2006)	X		
	Audio Driver	Realtek High Definition Audio 5.10.0.5559(1/30/2008)	X		
Windows Vista™ Ultimate x64 Edition English Version	Chipset Software	ATI Catalyst Control Center version 8.4.07	X		
	Graphics Media	ATI Radeon X1270 8.477.0.0(4/7/2008)	X		
	LAN Driver	Intel PRO /1000 PL Network Connection 9.5.12.0(7/26/2006)	X		
	Audio Driver	Realtek High Definition Audio 5.10.0.5559(1/30/2008)	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	COM-690T/E A1.0
Carrier Board	ECB-916M A1.0
BIOS	COM-690T/E BIOS Rev 1.0 (08/04/2008)
Operating System	English Windows XP Professional Service Pack 2 V2002
CPU	AMD Turion 64x2 TMDTL52HAXSCT 1.6GHz
Memory	Transcend DDR2 667 SODIMM 2GB (SEC 752 ZCE6 K4T1G084QD)
SATA HDD	N/A
Primary IDE Master	WD800JB-00JJC0 80GB 3.5" IDE HDD
Primary IDE Slave	LH-52C1P CD-RW/DVD-ROM
CRT	ViewSonic E70 17"
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
	N/A
Chipset Software	ATI Catalyst Software Suite Version 8.4 (4/16/2008)
Graphics Media	ATI Radeon X1270 8.477.0.0(4/7/2008)
LAN Driver	Intel PRO /1000 PL Network Connection 9.5.12.0(7/26/2006)
Audio Driver	Realtek High Definition Audio 5.10.0.5559(1/30/2008)
Touchscreen Driver	N/A
Power Supply	SEVENTEAM ST-400EAG-05 400W ATX Power

Test Result:

Testing Software	Result	Unit
PCMark2002		
CPU	5264	
Memory	7548	
HDD	1417	
Final Reality V1.01—BenchMark Test		
2D image	28.29	
3D	4.98	
Bus transfer	25.92	
Overall	15.11	Reality marks
3Dmark2001		
3DMark2001SE Build 330_Benchmark mode	4090	

Test Result:

Testing Software	Result	Unit
PCMark05		
PCMark	N/A	PCMarks
CPU	3277	
Memory	3035	
Graphics	N/A	
HDD	77	
3Dmark2003 v360		
3Dmark Score	1415	
CPU Score	667	