

QE 【Mainboard】

P5 Verification Test Plan

Release No : 07E010008

Product Model	GENE-6350
Description	Intel LV Celeron SubCompact Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : GENE-6350 A1.11 <input checked="" type="checkbox"/> BIOS : GENE-6350 BIOS Rev.1.6 (01/30/2007) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : Intel Ultra Low Voltage Celeron (R) 650MHz CPU <input checked="" type="checkbox"/> North Bridge : VIA CLE 266CE <input checked="" type="checkbox"/> South Bridge : VIA VT8235CD <input checked="" type="checkbox"/> VGA Chipset : VIA CLE 266CE <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC650 <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL 8100BL 10/100MB Chip <input checked="" type="checkbox"/> I/O Chipset : Winbond W8369UF <input checked="" type="checkbox"/> TV Chipset : VIA VT 1622A <input checked="" type="checkbox"/> Remark : GENE-6350 NPDP P5 Report
Test Result Summary	
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Pass with Deviation Comment: <u>The display will show clutter flash on screen in power off stage for a while, when set the display type to CRT+LCD in BIOS.</u>	

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Issue date

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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	GENE-6350 Rev:A1.11	1,2,3,4,5,,6,7,8,9,10,11
BIOS / Version	GENE 6350 BIOS Rev.1.6 (01/30/2007)	1,2,3,4,5,,6,7,8,9,10,11
CPU Type	Intel Ultra Low Voltage Celeron (R) 650MHz CPU	1,2,3,4,5,,6,7,8,9,10,11
Memory Type	Transcend 512MB V58C2256804SAS6 P065397IJAPD	1,2,3,4,5,,6,7,8,9,10,11
Primary IDE Master	Maxtor DiamondMax Plus 9 80GB / ATA133	1,2,3,4,5,,6,7,8,9,10,11
Primary IDE Slave	TEAC / CD-540E / 40X	1,2,3,4,5,,6,7,8,9,10,11
CRT	ViewSonic E70	1,2,3,4,5,,6,7,8,9,10,11
LCD	N/A	
Compact Flash	N/A	
Riser Card	N/A	
Backplane	N/A	
Operating System	[X] Linux-RedHat 9.0 or [] Fedora Core 4	9
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows XP Professional English Version V2002 Service Pack 2	1,2,3,4,5,,6,7,8,9,10,11
	Windows 2000 Professional English Version V5.00.2195 Service Pack 4	9
	Windows 98SE English Version V4.10.2222A	9
	Windows NT Workstation 4.0 English Version Service Pack 6	N/A
	MS-DOS 6.22	N/A
Power Supply	ATX Power : Seventeam ST-300BLV	1,2,3,4,5,,6,7,8,9,10,11
	AT Power : LEMACS SP2-4300F 300W	9

Test Result for Certification

1. Dynamic / Boot_UP Burn_In Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0°C ~60°C, 30%RH~80%RH	X		
Power On/Off Test.	0°C ~60°C, 30%RH~80%RH	X		
Cold Start Test.	0°C, 2 hours or 10 times of ON/OFF	X		
Hot Start Test.	60°C, 2 hours or 10 times of ON/OFF	X		
High Temperature Storage Test (Just for PPC)	60 °C (48 Hours)			X
Low Temperature Storage Test (Just for PPC)	-20 °C (48 Hours)			X
Humidity Test (Just for PPC)	40 °C/95%RH (48 Hours)			X
Cold Start Test (Just for PPC)	-5 °C (Doing 50 times Power On/Off)			X

Remark: Test PCB Version: GENE-6350 Rev: A2.0

2. Power On and Reset Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Power On/Off Test in DOS Mode-100V Power Function Test	10 times in Room Temperature	X		
Power On/Off Test in DOS Mode-210V Power Function Test	10 times in Room Temperature	X		
KB Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		
Hardware Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		

3. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	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
DOM (Disk On Module) – 44 Pin	X		

COM 1	X		
COM 2-232	X		
COM 2-422	X		
COM 2-485	X		
COM 2-Ring /+5V /+12V	X		
COM 3	X		
COM 4	X		
COM 5			X
COM 6			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 3/4 Ports	X		
USB 5/6 Ports			X
USB 7/8 Ports			X
USB 2.0 1/2 Ports	X		
USB 2.0 3/4 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 (-12/-5V)				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
PCI Slots				X
PCI Express				X
Mini PCI		X		

4. Power Consumption Test (Run Prime95 Program)

Test Environment Mode	ATX Power: Seventeam ST-300BLV		AT Power: LEMACS SP2-4300F 300W			
	CPU: CPU: Intel Ultra Low Voltage Celeron (R) 650MHz CPU	CPU:	CPU: Intel Ultra Low Voltage Celeron (R) 650MHz CPU	CPU:	CPU:	CPU:
OS Environment	Windows XP Professional English Version V2002 Service Pack 2		Windows XP Professional English Version V2002 Service Pack 2			
Normal Mode (+5V)	2.86	A	A	2.6	A	A
Suspend Mode (+5V)	2.51	A	A	N/A	A	A
5VSB in Power Off Mode (ATX Mode)	0.05	A	A	-----	A	----- --
5VSB in Power On Mode (ATX Mode)	0	A	A	-----	A	----- ---
Normal Mode (+12V)	0	A	A	0	A	A
Suspend Mode (+12V)	0	A	A	N/A	A	A
Normal Mode (+3.3V) (ATX Mode)	N/A	A	A	-----	A	----- --
Suspend Mode (+3.3V) (ATX Mode)	N/A	A	A	-----	A	----- --
Normal Mode (-12V)	N/A	A	A	N/A	A	A
Suspend Mode (-12V)	N/A	A	A	N/A	A	A
Normal Mode (-5V)	N/A	A	A	N/A	A	A
Suspend Mode (-5V)	N/A	A	A	N/A	A	A

5. 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		

6. 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		

7. 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
LAN1	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100	X		
		D-Link DGS-1008T	100M	1Gbps	100	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		LEMEL LM-S5 5 Ports	100M	100 Mbps	100	X		
		Accton Desktop-3005	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		
Location	Speed	Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
LAN2	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps				X
		D-Link DGS-1008T	100M	1Gbps				X
		Intel InBusiness 8 Ports	100M	100 Mbps				X
		LEMEL LM-S5 5 Ports	100M	100 Mbps				X
		Accton Desktop-3005	100M	100 Mbps				X
		SVEC FD916H	100M	10 Mbps				X

8. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
Intel Ultra Low Voltage Celeron (R) 650MHz CPU			V2414	X		
			V2414			

Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
Kingston KVR333X64SC25	NANYA NT5DS16M16CT-6K		V1.65	X		
Transcend 512MB	V58C2256804SAS6 P065397IJAPD		V1.65	X		
On Board Audio Function Test						
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
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)		3.3V			X

	Hyundai HT12X11-200 / 12.1" / 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
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
CECUBE GC-R9250PCI-D3 (ATI REDEON9250 256MB)	VGA Card			X
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
SC3000 CMI8738/C3DX	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
Realtek RTL8139B Ethernet	LAN Card			X
D-Link DGE-530T 1000BASE-T Gigabit Ethernet Adapter	LAN Card			X
D-Link DWL-520+ Wireless LAN	LAN Card			X
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID 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
SksKonnnect SK-9E21D 10/100/1000Base-T Adapter PCI-Express X1 LAN Card			X
WinFast PX6200 TC TDH PCI-Express X16 VGA Card			X

HDD Compatibility Test

Model	Result		
	Pass	Fail	N/A
Hitachi / HDS722525VLAT80 / 250GB / ATA-100	X		
IBM / DTLA-307045 / 46.1GB / ATA-100	X		
FUJITSU / MPE 3136AH / 13.6GB / ATA-66	X		
Seagate / ST340014A / 40GB / Barracuda 7200.7	X		
Seagate / ST3160812A / 160GB	X		
Quantum / Fireball Plug AS / 30GB / ATA-100	X		
Seagate / ST310210A / 10.2GB / ATA-66	X		
Western / WD400BB-75DEA0 / 40GB / ATA-100	X		
Seagate / ST3120026AS / 120GB / ATA-100 / S-ATA			X

CD/DVD-ROM Compatibility Test				
Model		Result		
		Pass	Fail	N/A
Acer DVP1640A / 16X / DVD-ROM		X		
Creative DVD1240E / 12X / DVD-ROM		X		
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM		X		
Pioneer / DVD-121 / 16X / DVD-ROM		X		
PHILIPS CDD5301 / PBC03210G / 32X10X40 / 12X DVD / CD-RW / DVD-ROM		X		
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X		X		
NEC / ND-2500A / DVD R/RW / +R8X-R8X		X		
TEAC / CD-540E / 40X / CD-ROM		X		
IDE Cable Function test				
IDE Model		Result		
		Pass	Fail	N/A
40 Pin Cable ATA33		X		
44 Pin Cable ATA33				X
80 Pin Cable ATA100				X
USB Function Test				
USB Basic Function Test (USB1/2 on USBRJ1 connector)		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
Use High Speed Device USB2.0 CD-R/W Ben-Q / 4824W1-ON2 to play Nero CD/DVD Speed		X		
USB Device Full Loading Test		Result		
		Pass	Fail	N/A
Model	Type	Pass	Fail	N/A
CyberLink Power DVD XP4.0	Remote Control			X
BENQ 4824WI-ON2	CD-RW	X		
Thumb Device	Storage	X		
USB HDD IBM IC25N020ATCS04-0 / 20GB / 4200RPM (1394b + USB2.0 External Box (MP-FBHUB20P-V2.0 E10-7073161D60))	HDD	X		
Mitsumi FL3.5D353GUE/FUE	Floppy	X		
ASUS DRW-1604P	DVD-RW	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	
IO-Mega zip 100 parallel port	Parallel			X	
IO-Mega zip 100MB Internal ATAPI Drive	IDE			X	
DOC2000 M-System / MD2200-D16				X	
PQI FC512 512MB	Type-I CF Card	X			
HITACHI / HMS360402D5CF00	Type- II CF Card	X			
Digital I/O Connector Test		Result			
		Pass	Fail	N/A	
Input Address: (280/290/2A0/2B0)		X			
Output Address: (280/290/2A0/2B0)		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-3730	Intel 82559 LAN Module			X
On-Board SCSI Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
RICOH MP7060S	SCSI-CDROM 24X			X	
Fujitsu MCB3064SS	SCSI-MO Device			X	
Seagate 32155W	SCSI-HDD 2.15GB			X	
IBM DNES-309170	SCSI-HDD 9GB			X	
Seagate ST39205LW/P	9GB / Ultra160 / LVD			X	
COM Port Send / Receive Test		Result			
		Pass	Fail	N/A	
Use software program: COMTEST.exe		X			
Use software program: LL5.exe		X			
Disk On Module [DOM] Compatibility Test					
Model	Interface	Result			

		Pass	Fail	N/A
DOM-256-026P Rev: A1K20				X
DOM-064-426P Rev: A2A11		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)	Wireless LAN	X		
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	Wireless LAN	X		
PER-C200 4 Port USB 2.0 Mini PCI Card (Chip: NEC D720101GJ)	USB 2.0			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	
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	
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X	
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X	

Remark: DVI and TV-Out port in different machine.

9. 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			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 NT Workstation 4.0 English Version Service Pack6			X
MS-DOS 6.22			X

Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Linux-Red-Hat 9.0 / Kernel 2.4.20-8	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN Driver	Default Driver	X		
	Audio Driver	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 XP Professional English Version V2002 Service Pack 2	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	VIA/S3G CLE 266 Ver:6.14.10.211 (2/24/2005)	X		
	LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005 (4/18/2005)	X		
	Audio Driver	Realtek AC'97 Audio for VIA(R) Audio Controller Ver:5.10.0.5820(3/25/2005)	X		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	VIA/S3G CLE 266 Ver:6.14.10.211	X		
	LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005 (4/18/2005)	X		
	Audio Driver	Realtek AC'97 Audio for VIA(R) Audio Controller Ver:5.10.0.5820	X		
Windows 98SE English Version V4.10.2222A	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	VIA/S3G CLE 266 Hardware Ver:003 (5/13/2003)	X		
	LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Hardware Ver:016 (3/4/2005)	X		
	Audio Driver	VIA AC'97 Enhanced Audio Controller(WDM) Hardware Ver:080(10/26/2006)	X		
Windows NT Workstation 4.0 English Version 4.00.1381 Service Pack6	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X

10. 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 (RPL/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			
Voltage Monitor Test	X		
FAN Speed Monitor Test	X		
Temperature Monitor Test	X		
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test	X		
BIOS AWDFLASH Program Test	X		

11. Performance Test

English Windows XP Professional Service Pack 2 V2002 + 1024x768x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0		Unit
Business Disk WinMark99	6060	Thousand bytes/sec
High-End Disk WinMark99	21400	Thousand bytes/sec
Business Graphics WinMark99	131	
High-End Graphics WinMark99	411	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	7.66	
3D	4.55	
Bus transfer	6.29	
Overall	5.75	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	14.6	Frames / sec
ZD Multimedia Content Creation Winstone 2004 V1.0.1		
Multimedia Content Creation Winstone 2004	N/A	
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	573	

English Windows XP Professional with SP2 V2002 + 1024x768x32bit / 60Hz + Direct 9.0	
Business Winstone 2004 v1.0.1	
Business Winstone2004	N/A