

QE 【 Mainboard 】

P5 Verification Test Plan

Release No : 07E010001

Product Model	GENE-6315
Description	VIA Mark / VT82C686B Subcompact Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : GENE-6315 A0.3 <input checked="" type="checkbox"/> BIOS : GENE-6315 BIOS Rev 1.0 (11/21/2006) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : VIA Mark C3 533A MHz / FSB: 100MHz (Fanless) VIA Mark C3 800A MHz / FSB: 133MHz (with Fan) <input checked="" type="checkbox"/> North Bridge : VIA Mark <input checked="" type="checkbox"/> South Bridge : VIA VT82C686B <input checked="" type="checkbox"/> VGA Chipset : VIA Mark Integrated VGA <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 CODEC Mic-in/Line-in/Line-out/CD-in, S/PDIF in/out <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8139DL, 10/100 Mbps <input checked="" type="checkbox"/> I/O Chipset : VIA VT82C686B (COM1&COM2) + Winbond W83977EF (COM3&COM4) <input checked="" type="checkbox"/> TV Chipset : VAI VT1622A <input checked="" type="checkbox"/> Remark : QE P5 Report for GENE-6315 A0.3
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2007/01/11

Issue date

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Manager

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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	GENE-6315 A0.3	
BIOS / Version	GENE-6315 BIOS Rev 0.C for Testing Only (09/04/2006)	
CPU Type	VIA Mark C3 800A MHz / FSB: 133MHz	
	VIA Mark C3 533A MHz / FSB: 100MHz	
Memory Type	ELPIDA PC133 SODIMM SDRAM 512MB (HB52RF648DC-75B)	
SATA HDD	N/A	
Primary IDE Master	Western Digital WD800BB-00JHA0 80GB ATA100 IDE HDD	
Primary IDE Slave	BenQ DVD-ROM 1650v	
CRT	ViewSonic E70	
LCD	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3) LVDS	
Compact Flash	Type-II HITACHI / HMS360402D5CF00	
Riser Card	N/A	
Backplane	N/A	
Operating System	[X] Linux-RedHat 9.0 or [] Fedora Core 4.0	9
	Windows Server 2003 Standard Edition 5.2.3790 Build 37900	N/A
	Windows Server 2003 Standard x64 Edition Service Pack 1	N/A
	Windows XP Professional V2002 Service Pack 2	1,4,8,9,11
	Windows XP Professional x64 Edition Version 2003 Service Pack 1	N/A
	Windows 2000 Professional 5.00.2195 Service Pack 4	3,6,7,8,9,10,11
	Windows 2000 Professional 5.00.2195 Service Pack 4 (Server)	N/A
	Windows 98SE English Version V4.10.2222A	9
	DOS 6.22	1,2,3,5,6,8,9,10
Power Supply	ATX Power : Aopen AO350-12AHN 24 pin Power	
	AT Power : LEMACS SP2-4300F	

Test Result for Certification

1. Dynamic / Boot_UP Burn_In Test

PCB Model / Version	GENE-6315 A0.3
BIOS	GENE-6315 BIOS Rev 0.C for Testing Only (09/04/2006)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 / MS-DOS
CPU	VIA Mark C3 800A MHz / FSB: 133MHz
Memory	PC100 SODIMM SDRAM 128MB (hynix HY57V561620CT-H)
Primary IDE Master	Maxtor Fireball 3 ATX133 30GB
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	PQI Type-I CF 32MB Card
Backplane	N/A
Riser Card	N/A
System	VIA Service Pack 4.47v
Onboard Graphics Media	S3 Graphics Twister 6.13.10.1100 11/7/2002
Onboard LAN Driver	Realtek RTL8139/810x family Fast Ethernet NIC 5.505.1004.2002 10/4/2002
Onboard Audio Driver	Realtek AC'97 Audio for VIA® Audio Controller 5.10.0.6030 2/17/2006
Onboard RAID Driver	N/A
Touchscreen Driver	N/A
Power Supply	LEMACS SP2-4300F AT Power

1.1. AT Power Supply

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0 ~60 , 30%RH~80%RH, 48 hrs	X		
Power On/Off Test.	0 ~60 , 30%RH~80%RH, 24hrs	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

Dynamic / Boot_UP Burn_In Test

PCB Model / Version	GENE-6315 A0.3
BIOS	GENE-6315 BIOS Rev 0.C for Testing Only (09/04/2006)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 / MS-DOS
CPU	VIA Mark C3 800A MHz / FSB: 133MHz
Memory	PC133 SODIMM SDRAM 512MB (ELPIDA HB52RF648DC-75B)
Primary IDE Master	Maxtor Fireball 3 ATX133 30GB
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	M-System 8MB
Backplane	N/A
Riser Card	N/A
System	VIA Service Pack 4.47v
Onboard Graphics Media	S3 Graphics Twister 6.13.10.1100 11/7/2002
Onboard LAN Driver	Realtek RTL8139/810x family Fast Ethernet NIC 5.505.1004.2002 10/4/2002
Onboard Audio Driver	Realtek AC'97 Audio for VIA® Audio Controller 5.10.0.6030 2/17/2006
Onboard RAID Driver	N/A
Touchscreen Driver	N/A
Power Supply	Enhance ENP-1815 ATX Power Supply

1.2. ATX Power Supply: LEMACS SP2-4300F AT Power

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0 ~60 , 30%RH~80%RH, 48 hrs	X		
Power On/Off Test.	0 ~60 , 30%RH~80%RH, 24hrs	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

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 (Reserved for CF Card)			X
Secondary IDE Slave (Reserved for CF Card)			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 (CN22)	X		
Compact Flash – Type II (CN22)	X		
DOC (Disk On Chip)			X
DOM (Disk On Module) – 40 Pin			X
DOM (Disk On Module) – 44 Pin	X		
COM 1 (CN18)	X		
COM 2-232 (CN9, Depends on BIOS)	X		
COM 2-422 (CN9, Depends on BIOS)	X		
COM 2-485 (CN9, Depends on BIOS)	X		
COM 2-Ring /+5V /+12V (JP8)	X		
COM 3 (CN24)	X		
COM 4 (CN25)	X		
COM 5			X
COM 6			X
PS/2 Mouse & Keyboard (Internal)			X
PS/2 Mouse & Keyboard (External) (CN20)	X		
Audio Connector	X		
Audio 5.1 Channel / S/P DIF (CN28)	X		
LPT 1 (CN10)	X		
LPT 2			X
SIR / 115.2 Kbps (CN19)	X		
FIR / 4M bps			X
USB 1/2 Ports (CN16, Support USB 2.0 and it is not for DOS Boot)	X		
USB 3/4 Ports (CN17, Support USB 1.1 and it is for DOS Boot)	X		
USB 5/6 Ports			X
USB 7 Ports			X
USB 2.0 1/2 Ports (CN16, Support USB 2.0 and it is not for DOS Boot)	X		
USB 2.0 3/4 Ports (CN17, Support USB 1.1 and it is for DOS Boot)			X
USB 2.0 5/6 Ports			X
USB 2.0 7 Ports			X

DVI Function			X
DIO Connector (CN27)	X		
Card Bus			X
PC/104			X
PC/104-Plus			X
PCI-104	X		
TFT TTL LCD (CN4, CN5)	X		
TFT LVDS LCD (CN29, CN31)	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 (CN3)	X		
System FAN Connector			X
Onboard IDE LED (D11)	X		
Onboard Power LED (D10)	X		
Front Panel	Result		
	Pass	Fail	N/A
Power On Button	X		
IDE LED	X		
External Buzzer	X		
On Board Buzzer (Buzz1)	X		
Power LED	X		
Reset Switch	X		
Keyboard Lock			X
Jumpers Function	Result		
	Pass	Fail	N/A
ATX simulates AT (JP7)	X		
Audio Out Selection (W/O & W/ Amplifier)			X
LCD Power Select (JP1)	X		
COM2-Ring/5V/12V Selection (JP8)	X		
COM2 RS-232/422/485 Selection (Depends on BIOS)	X		
COM3-Ring/5V/12V Selection			X
COM4-Ring/5V/12V Selection			X
Clear CMOS (JP5)	X		
Touch Screen Operating Mode Selection			X
Clock Shift of TFT LCD (JP6)	X		
Power Connector & Function	Result		
	Pass	Fail	N/A
5V only Power for Big 4P	X		
ATX Power Connector			X
ATX Power_12V Connector			X
AT Power Connector (P8 & P9)			X

Big 4P Power Connector (CN15)		X		
Mini 4P Power Connector				X
External Power Connector(-12/-5V)				X
Option ATX Power Connector (PS-ON / +5VSB) (CN26)		X		
LAN Connector & Function		Result		
		Pass	Fail	N/A
LAN Speed LED	LAN1			X
	LAN2			X
LAN Active LED	LAN1 (LED on RJ-45)	X		
	LAN2			X
LAN Link LED	LAN1 (LED on RJ-45)	X		
	LAN2			X
LAN 10/100 Ethernet		X		
LAN 1G Ethernet				X
PCI Connector & Function		Result		
		Pass	Fail	N/A
PCI Slots (by PCI-104)		X		
PCI Express				X

4. Power Consumption Test (Run Prime95 Program)

Test Environment Model	ATX Power: Aopen FSP300-60ATV				AT Power: LEMACS SP2-4300F				Note
	CPU: VIA Mark C3 533A MHz / FSB:100MHz		CPU: VIA Mark C3 800A MHz / FSB: 133MHz		CPU: VIA Mark C3 533A MHz / FSB:100MHz		CPU: VIA Mark C3 800A MHz / FSB: 133MHz		
OS Environment	WinXP ACPI		WinXP ACPI		WinXP APM		WinXP APM		
Normal Mode (+5V)	3.12	A	3.42	A	3.06	A	3.33	A	
Suspend Mode (+5V)	1.71	A	1.71	A	2.7	A	2.95	A	
5VSB in Power Off Mode (just for ATX)	1.36	A	1.05	A	-----	A	-----	A	
5VSB in Power On Mode (just for ATX)	0	A	0	A	-----	A	-----	A	
Normal Mode (+12V)	0.36	A	0.26	A	0.32	A	0.36	A	
Suspend Mode (+12V)	0.06	A	0.05	A	0.31	A	0.33	A	
Normal Mode (+3.3V) (just for ATX)	0	A	0	A	-----	A	-----	A	
Suspend Mode (+3.3V) (just for ATX)	0	A	0	A	-----	A	-----	A	
Normal Mode (-12V)	0	A	0	A	0	A	0	A	
Suspend Mode (-12V)	0	A	0	A	0	A	0	A	
Normal Mode (-5V)	0	A	0	A	0	A	0	A	
Suspend Mode (-5V)	0	A	0	A	0	A	0	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 on RJ-45					X		
	Link LED on RJ-45					X		
	Speed LED on RJ-45							X
	LAN1 Active LED (X
LAN2 LED	Active LED on RJ-45					X		
	Link LED on RJ-45					X		
	Speed LED on RJ-45							X
	LAN2 Active LED							X
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
Onboard LAN1	10/100 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		

8. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
VIA Mark C3 (Fanless)	533A MHz	100MHz	V2414	X		
VIA Mark C3 (with Fan)	800A MHz	133MHz	V2414	X		
Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
SODIMM SDRAM / 256MB	SAMSUNG K4S560832C-TC75	PC133	V1.65	X		
SODIMM SDRAM / 128MB	NEC D45128163G5	PC100	V1.65	X		
ELPIDA SODIMM SDRAM / 512MB	HB52RF648DC-75B	PC133	V1.65	X		
External Daughter Board Audio Function Test (PER-U00A)						
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
JP NTSC		AV Terminal		X		
US NTSC				X		
PAL				X		
JP NTSC		S Terminal		X		
US NTSC				X		

PAL		X		
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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

Backplane

BP-214SG-P12 A1.0

Slot Function on Backplane: BP-214SG-P12 A1.0	Note	Result		
		Pass	Fail	N/A
ISA1 ~ ISA3				X
PCI1 ~ PCI3				X
SPCI1 ~ SPCI9				X
PICMG2				X
PICMG3				X
KB1				X
KB2				X
KB3				X

Model	Type	Result		
		Pass	Fail	N/A
Matrox G450	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 DFE-530TX	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
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
PER-C101 PCI-E BROADCOM BCM5789KFBG Gigabit LAN x2 (Defined by Aaeon)				X
PER-C102 PCI-E Marvell 88E8036 10/100Mbps LAN x2 (Defined by Aaeon)				X
PER-C102 PCI-E Marvell 88E8053 Gigabit LAN x2 (Defined by Aaeon)				X
SksKonnect 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		
Western Digital WD800BB-00JHA0 80GB ATA100		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
ASUS CD-ROM 652A-674		X		
BenQ DVD-ROM 1650v		X		
Acer DVPI640A / 16X / DVD-ROM / ATA33		X		
Pioneer / DVR-A11FXC1 / 8X DVD-RW / 6X DVD-RW / ATA66		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 ATA33				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 (Just for USB 3 / 4: CN17)	X			
USB 2.0 Controller			X	
USB Keyboard Support (Just for USB 3 / 4: CN17)	X			
USB Mouse Support			X	
USB 1.1 Compatible Test	Result			
	Pass	Fail	N/A	
USB 1.1 Compatible Test (CN17: USB 3 / 4 only support USB 1.1 and it is controlled by BIOS setting)	X			
USB 2.0 Compatible Test	Result			
	Pass	Fail	N/A	
USB 2.0 Compatible Test (CN16: USB 1 / 2 only supports USB 2.0 and it can not work in DOS mode completely, on the other hand, It only works in Windows mode)	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				
Model	Result			
	Pass	Fail	N/A	
BENQ 4824WI-ON2	X			
Mitsumi FLL3.5 D353GUE/FUE	X			
USB HDD	X			
USB Thumb drive Transcend 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	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- CF Card	X		
Digital I/O Connector Test (CN27)	Result			
	Pass	Fail	N/A	

Input Address: (Depends on BIOS)			X		
Output Address: (Depends on BIOS)			X		
BIOS Address Note: 280/290, 290,2A0, 2A0/2B0, 2B0/2C0			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-3430	SCSI Module	X		
	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	IDE 40 Pin			X	
DOM-064-426P Rev: A2A11	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)	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 (CN18)	X		
COM2 (CN9)	X		
COM3 (CN24)	X		
COM4 (CN25)	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

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
English Windows Server 2003 Standard x64 Edition Service Pack 1 (Award says that 64bit OS does not support APM Mode)					X
Windows XP Professional English Version V2002 Service Pack 2			X		
English Windows XP Professional x64 Edition with Service Pack 2 V2002 (Award says that 64bit OS does not support APM Mode)					X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4			X		
English Windows 2000 Professional Service Pack 4 / 5.00.2195 (Server)					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	N/A	X		
	Graphics Media	VIA Mark Integrated VGA	X		
	LAN Driver	Realtek RTL8139DL, 10/100 Mbps	X		
	Audio Driver	Realtek ALC655 CODEC Mic-in/Line-in/Line-out/CD-in, S/PDIF in/out	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 Standard x64 Edition Service Pack 1 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
	Chipset Software	VIA Service Pack 4.47v	X		
Windows XP Professional English Version V2002 Service Pack 2	Graphics Media	S3 Graphics Twister 6.13.10.1100 11/7/2002	X		
	LAN Driver	Realtek RTL8139/810x family Fast Ethernet NIC 5.505.1004.2002 10/4/2002	X		
	Audio Driver	Realtek AC'97 Audio for VIA® Audio Controller 5.10.0.6030 2/17/2006	X		
	Chipset Software				X
Windows XP Professional x64 Edition with Service Pack 2 V2002 English Version	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
	Chipset Software				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	System	VIA Service Pack 4.47v	X		
	Graphics Media	S3 Graphics Twister 6.13.10.1100 11/7/2002	X		
	LAN Driver	Realtek RTL8139/810x family Fast Ethernet NIC 5.505.1004.2002 10/4/2002	X		
	Audio Driver	Realtek AC'97 Audio for VIA® Audio Controller 5.10.0.6030 N/A	X		
Windows 98SE English Version V4.10.2222A	System	VIA Service Pack 4.47v	X		
	Graphics Media	S3 Graphics Twister 4.13.01.3049.13.00.49 6/6/2006	X		
	LAN Driver	Realtek RTL8139/810x family Fast Ethernet NIC 4.10.2222 12/30/2002	X		
	Audio Driver	Realtek AC'97 Audio for VIA® Audio Controller 5.10.00.6030 built by: WinDDK 3/1/2006	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

11-1. Environment

O.S.	English Windows 2000 Professional SP4 5.00.2195
Memory	256MB
Resolution / Depth	1024x768x32bit / 60Hz
DirectX	9.0

English Windows 2000 Professional with SP4 5.00.2195 + 1024x768x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0		Unit
Business Disk WinMark99	4780 ^{2,3}	Thousand bytes/sec
High-End Disk WinMark99	20400 ^{2,3}	Thousand bytes/sec
Business Graphics WinMark99	113 ^{2,3}	
High-End Graphics WinMark99	254 ^{2,3}	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	3.09	
3D	2.55	
Bus transfer	3.99	
Overall	2.93	Reality marks
ZD 3D Winbench 2000 V1.1		
3D Winbench 2000 Processor Test	N/A	Frames / sec
3D WinMark 2000	11.8 ^{2,3,7}	

3Dmark2001SE Pro (Demo version)	
3DMark2001SE Build 330_Benchmark mode	293
English Windows XP Professional with SP2 V2002 + 1280x1024x32bit / 60Hz + Direct 9.0	
Business Winstone 2004 v1.0.1	
Business Winstone2004	Score: 4.4