

QE 【Mainboard】

P5 Verification Test Plan

Release No : 06E010016

Product Model	PCM-5893
Description	ODM Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-5893 A1.0 for LynxEM4+ SM712GF4 PCM-5893/L A1.0 for AMD Geode GX integrated graphic <input checked="" type="checkbox"/> BIOS : PCM-5893/L BIOS Rev 1.0 (05/03/2006) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : Onboard AMD Geode GX 400MHz <input checked="" type="checkbox"/> North Bridge : AMD GeodeGX <input checked="" type="checkbox"/> South Bridge : CS5535 <input checked="" type="checkbox"/> VGA Chipset : Onboard AMD Geode GX integrated graphic / or External LynxEM4+ SM712GF4 <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC203 2CH AC97 CODEC <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8100BL 10/100Mbps <input checked="" type="checkbox"/> I/O Chipset : ITE IT8712 <input checked="" type="checkbox"/> TV Chipset : N/A <input checked="" type="checkbox"/> Remark : QE NPDP P5 Test Report for PCM-5893 A1.0
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2006/08/16

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Issue date

Manager

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
PCB Model / Version	PCM-5893 A1.0
BIOS / Version	PCM-5893/L BIOS Rev 1.0 (05/03/2006)
CPU Type	Onboard AMD Geode GX 400MHz
Memory Type	DDR400 SDRAM 512MB (SAMSUNG K4H560838E-TCCC)
Primary IDE Master	Western Digital WD800BB-00JHA0 ATA100 IDE 80GB HDD
Primary IDE Slave	Lite-ON CD-ROM LTN-527T
CRT	ViewSonic E70 17"
LCD	NEC NL8060AC31 / 12" / 800*600 / 18bit TTL Panel
Compact Flash	HITACHI HMS360402D5CF00 2GB Type-II CF Card
Backplane	N/A
Riser Card	N/A
Operating System	<input checked="" type="checkbox"/> Linux-RedHat 9.0 , <input type="checkbox"/> Fedora 4.0
	Windows XP Professional English Version V2002 Service Pack 2
	MS-DOS 6.22
Power Supply	ATX Power : ATX Power AOpen FSP300-60ATV 300W
	AT Power : LEMACS SP2-4300F

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 ~60 , 30%RH~80%RH, 48 hrs	X		
Power On/Off Test.	0 ~60 , 30%RH~80%RH, 24hrs	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 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
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 1-232 (CN10)	X		
COM 2-232 (CN10)	X		
COM 2-422 (CN10)	X		
COM 2-485 (CN10)	X		
COM 2-Ring /+5V /+12V	X		
COM 3-Ring /+5V /+12V	X		
COM 4-Ring /+5V /+12V	X		
COM 5			X
COM 6			X
Clear CMOS	X		
PS/2 Mouse & Keyboard (Internal)	X		
PS/2 Mouse (External)			X

PS/2 Keyboard (External)			X
Audio Connector	X		
Audio 5.1 Channel / S/P DIF			X
VLCD Voltage (5V or 3.3V)			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 Ports			X
USB 6 Ports			X
USB 2.0 1 & 2 Ports			X
USB 2.0 3 & 4 Ports			X
USB 2.0 5 Ports			X
USB 2.0 6 Ports			X
DVI Function			X
DIO Connector	X		
Card Bus			X
PC/104	X		
PC/104-Plus			X
PCI-104			X
DSTN	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 (CN1)	X		
Front Panel (CN19)	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	Pass	Pass
LAN LED Connector (CN13)	X		
ATX simulates AT			X
Audio Out Selection (W/O & W/ Amplifier)			X
LCD Voltage Selection			X

COM1-Ring/5V/12V Selection (JP8, JP10)		X		
COM2-Ring/5V/12V Selection (JP9, JP11)		X		
COM2-RS-232/422/485 Selection				X
DOC Address Selection (JP4)		X		
AT/ATX Power Type Selection (JP5)		X		
CFD Master/Slave Selection (JP6)		X		
Clear CMOS (JP7)		X		
Touch Screen Operating Mode Selection				X
Clock Shift of TFT LCD (JP1)		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 Slot		X		
PCI Express				X

4. Power Consumption Test (Run Prime95 Program)

Test Environment / Mode	ATX Power: AOpen FSP300 300W				AT Power: Lemacs SP2-4300F 300W				Note
	CPU: Onboard AMD Geode GX 333MHz		CPU: Onboard AMD Geode GX 400MHz		CPU: Onboard AMD Geode GX 333MHz		CPU: Onboard AMD Geode GX 400MHz		
OS	Win XP ACPI		Win XP ACPI		Win XP APM		Win XP APM		
Normal Mode (+5V)	2.04	A	3.03	A	2.33	A	2.74	A	
Suspend Mode (+5V)	1.77	A	2.37	A	N/A	A	N/A	A	
5VSB in Power Off Mode (just for ATX)	0.15	A	0.14	A	-----		-----		
5VSB in Power On Mode (just for ATX)	0	A	0	A	-----		-----		
Normal Mode (+12V)	0.30	A	0.17	A	0.15	A	0.14	A	
Suspend Mode (+12V)	0.31	A	0.17	A	N/A	A	N/A	A	
Normal Mode (+3.3V) (just for ATX)	0	A	0	A	-----		-----		
Suspend Mode (+3.3V) (just for ATX)	0	A	0	A	-----		-----		
Normal Mode (-12V)	0	A	0	A	0	A	0	A	
Suspend Mode (-12V)	0	A	0	A	N/A	A	N/A	A	

Normal Mode (-5V)	0	A	0	A	0	A	0	A
Suspend Mode (-5V)	0	A	0	A	N/A	A	N/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	
OnBoard LAN1 LED	Active LED						X		
	Link LED						X		
	Speed LED								X
OnBoard 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	
Onboard AMD Geode GX 400MHz				X			
Memory Compatibility Test							
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result			
				Pass	Fail	N/A	
DSL DDR SDRAM 256MB	Hynix HY5DU56822BT-J	DDR333	V1.65	X			
Kingston DDR SDRAM 256MB	Kingston D328DL-60	DDR333	V1.65	X			
Kingston DDR SDRAM 512MB	Kingston D328DL-60	DDR266	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	AU B104SN02 / 10.4" / 800*600 / 18bit	3.3V			X
	Hyundai HT12X11-200 / 12.1" / 1024*768 / 18bit	3.3V			X
	Samsung LTM150XH-L04 / 1024*768 / 24bit	3.3V			X
	AU M170EG01 / 17" / 1280*1024 / 48bit	5V			X
DSTN	Sharp LM100SS1T522 / 10.6" / 800x600x16bit (AE 的 Panel)	3.3V	X		
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit	5V	X		
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit	3.3V	X		
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit	3.3V			X

PCI Slot Function (PCI Adapter Card) Test				
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		
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		
Genuine GM56-AMI2019	Modem Card	X		
ABIT HotRod 100 Pro	RAID Card			X
D-Link DU-520 USB 2.0	Other Card	X		
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HAA Seagate ST312 0026AS 120GB [ID-200305]	Other 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
Western Digital WD800BB-00JHA0 / 80GB	X		
Western Digital WD1200JB-00GVA0 / ATA100 / 120GB	X		
Hitachi / HDS722525VLAT80 / 250GB / ATA-100	X		
IBM / DTLA-307045 / 46.1GB / ATA-100	X		
FUJITSU / MPE 3136AH / 13.6GB / ATA-66	X		
Maxtor / 4G160J8 / 160GB / ATA-133	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
BenQ CD-ROM 652A-674	X		
BenQ DVD-ROM 1650v	X		
Acer DVP1640A / 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 (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

USB 1.1 Compatible Test	Result		
	Pass	Fail	N/A
USB 1.1 Compatible Test	X		

USB 2.0 Compatible Test

USB 2.0 Compatible Test	Result		
	Pass	Fail	N/A
USB 2.0 Compatible Test			X

USB 2.0 Function Test

Use High Speed Device USB2.0 CD-R/W Ben-Q / 4824W1-ON2 to play Nero CD/DVD Speed	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					
USB Device Full Loading Test		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		Result			
		Pass	Fail	N/A	
DIO-1 Function Test (CN18) Input/Output Address: (801H)		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		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		
AAEON	RTL-8100C 10/100M	LAN Module	X		
PER-C100 Mini PCI Card	RTL-8110S 10/100/1000M	LAN Module			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 (COM3,COM4 only support +5/+12V)					X
COM4 (COM3,COM4 only support +5/+12V)					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	
CAN Bus Function Test					
Model		Result			
		Pass	Fail	N/A	
Send data to PCM-5893 (use software provided by Dilys)		X			
Receive data form PCM-5893 (use software provided by Dilys)		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
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	VGA	PCM 5893/L for AMD Geode GX PCM 5893 for LynxEM4+ SM712GF4	X		
	LAN	Realtek RTL8100BL / V5.621.304.2005 4/18/2005	X		
	Audio	Realtek ALC203	X		
Windows Server 2003 English Version / Standard Edition 5.2.3790	VGA				X
	LAN				X
	Audio				X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software				X
	Graphics Media	PCM-5893/L-->AMD Geode GX / 1.4.0.0 7/2/2004 PCM-5893-->Silicon Motion LynxEM+ / 6.13.10.228 8/27/2002	X		
	LAN Driver	Realtek RTL8139/810X Family Fast Ethernet NIC 5.621.304.2005 4/18/2005	X		
	Audio Driver	GEODE-GX2 WDM Audio Driver 1.4.2.0 9/27/2005	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 98SE English Version V4.10.2222A	VGA				X
	LAN				X
	Audio				X
Windows NT Workstation 4.0 English Version 4.00.1381 Service Pack6	VGA				X
	LAN				X
	Audio				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 (Only 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

Testing Software	CPU Type	Score	Unit
ZD WinBench 99 V2.0			
Bussiness Disk WinMark99		4830	Thousand bytes/sec
High-End Disk WinMark99		21800	Thousand bytes/sec
Bussiness Graphics WinMark99		48.3	
High-End Graphics WinMark99		103	
Final Reality V1.01—BenchMark Test			
2D image		3.39	
3D		0.35	
Bus transfer		3.67	
Overall		1.76	Reality marks
ZD 3D Winbench 2000 V1.1			
3D WinMark 2000		6.73	Frames / sec

ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium 800 MHZ CPU)		
Multimedia Content Creation Winstone 2004	N/A	
3DMark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	N/A	