

PCM-5896

QE Compatibility Test Report

Release Date: May. 12, 2000

Issue Stamp

QA Manager

QE Manager

Test Engineer

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There are 3 test results in this document; they are described as follows:

Pass: It worked perfectly

Fail: Test failed, and to be modified in the next version

N/A: Outside of specifications or no test equipment

The test report would be tested and updated after version changed.

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1. Software Compatibility

A. O.S. Compatibility

O.S. / Test Item	Install		Boot		Shutdown		Function		KB Function	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
MS-DOS 6.22	✓		✓		✓		✓		✓	
NOVELL 4.11	✓		✓		✓		✓		✓	
MS-DOS 6.2V	✓		✓		✓		✓		✓	

B Microsoft Windows & IBM O/S 2 Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		KB Function		Display Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Windows 31	✓		✓		✓		✓		✓		✓	
Windows 95(E)	✓		✓		✓		✓		✓		✓	
Windows 95(J)	✓		✓		✓		✓		✓		✓	
Windows 98(E)	✓		✓		✓		✓		✓		✓	
Windows NT 4.0 W(E)	✓		✓		✓		✓		✓		✓	
Windows NT 4.0 W(J)	✓		✓		✓		✓		✓		✓	
OS/2 Warp 4.0	✓		✓		✓		✓		✓		N/A	

(J): Japanese

C. Windows Application

Application / Test Item	Installation		Function Test	
	Result	Note	Result	Note
AMI Pro 3.1	Pass		Pass	
MS Word 6.0c	Pass		Pass	
WordPerfect 6.1	Pass		Pass	
MS Works 3.0b	Pass		Pass	
Lotus 1-2-3 R5	Pass		Pass	
MS Excel 5.0c	Pass		Pass	
Quattro Pro 6.01	Pass		Pass	
PageMaker 5.0a	Pass		Pass	
CorelDraw 5.0E2	Pass		Pass	
PowerPoint 4.0c	Pass		Pass	
Dbase 5.0	Pass		Pass	
Paradox 5.0	Pass		Pass	
Access 2.0	Pass		Pass	

D. DOS Utility Compatibility Testing

Application / Test Result	Result	Note
Norton Utility 8.0	Pass	
Norton Commander 5.0	Pass	

E. Diagnostics Software Testing

Test Item / Software	Qaplus5.29		AMIDIAG4.5							
	Result	Note	Result	Note						
Main Component	Pass		Pass							
Memory	Pass		Pass							
Video Adapter	Pass		Pass							
Floppy Drive	Pass		Pass							
Hard Drive	Pass		Pass							
Keyboard	Pass		Pass							
COM Port	Pass		Pass							
LPT Port	Pass		Pass							
Plug & play	Pass		Pass							
Note :										

2. Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Result	Note
Intel	Pentium MMX 200	Pass	
Intel	Pentium MMX 233	Pass	
Intel	Pentium MMX 266	Pass	
AMD	K6-233	Pass	
AMD	K6-266	Pass	
AMD	K6-300	Pass	
AMD	K6/2 300	Pass	
AMD	K6/2 366	Pass	Run win95 will found a Failed Message "Protection Error"
AMD	K6/2 400	Pass	Run win95 will found a Failed Message "Protection Error"
Cyrix	M2 PR233	Pass	
Cyrix	M2 PR300	Pass	
Rise	MP6-266	Fail	a. RISE 266(100M*2) CPU install winbench 98 Period found a failure message "_ins0432 this Program has performed an illegal operation" b. RISE 266(100M*2) CPU install winnt4.0 fail

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
MT	48LC2M8A1TG-10S 32MB	Pass	
LGS	GM72V661641CT7J 64MB	Pass	
KOREA	HY57V658020TC-10 128MB	Pass	
SIEMENS	HYB39S16800AT-10 32MB	Pass	
KOREA	HY57V168010D TC-10S 32MB	Pass	
NEC	04564841G5-A10-9JF 128MB	Pass	

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On_board	C&T69000	Pass	

D. Adapter Compatibility- LAN**LAN Adapter List:**

Brand	Device Model	Result	Note
PCI Bus			
On-board	RTL8139	Pass	
3COM	905-TX	Pass	
3COM	905B-TX	Pass	
INTEL	SB82558B	Pass	
Surecoh	DIGITAL 21140-AF	Pass	

F. Adapter Compatibility- SCSI CARD**SCSI Adapter List:**

Brand	Device Model	Result	Note
PCI Bus			
AHA	2940UW	Pass	

G. Adapter Compatibility- Other Card**Adapter Card List:**

Brand	Device Model	Result	Note
Sound Card(ISA Bus)			
Creative	ENSONIQ Audio PCI	Pass	
Creative	ES1373 onboard	Pass	

H. Adapter Compatibility –Industry Control Card**Industry Control Adapter List:**

Brand	Device Model	Result	Note
104 Module			
AAEON	PCM-3820/C-4	Pass	
AAEON	PCM-3820-2	Pass	
AAEON	PCM-3110	Pass	
AAEON	PCM-3111	Pass	
AAEON	PCM-3200	Pass	
AAEON	PCM-3420	Pass	
AAEON	PCM-3600	Pass	
AAEON	PCM-3660	Pass	

I. Peripheral Compatibility-HDD Device**HDD List:**

Brand	Device Model	Result	Note
HITACHI	DK226A-21U	Pass	
Seagate	ST34520A	Pass	
FUJITSU	MPC3032AT	Pass	
Quantium	Fireball TM1700	Pass	
Quantium	Bigfoot TX4.0	Pass	

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J. Peripheral Compatibility- Storage Device

Device List:

Brand	Device Model	Result	Note
CD-ROM			
TEAC	532E	Pass	
FAX/Modem			
LEMEL	33.6 FAX/MODEM	Pass	COM1, COM2 ring up pass.

K. Peripheral Compatibility- Input Device

Input Device List:

Brand	Device Model	Result	Note
Keyboard			
LEMEL	KB-5121	Pass	
USB Keyboard			
BTC	7932	Pass	
Mouse			
Logitech	Serial Mouse	Pass	
IBM	PS/2 Mouse	Pass	
RS485			
Adventech	ADAM 4011	Pass	
USB Mouse			
DEXIN	A2U800A	Pass	

3. Stability Testing

A. Burn-In Stability Testing

Test Condition: Burn-In Under Temp. -10°C ~70°C (IEC-68-2-61) 48hr

Test Software	Result	Note
AMIDIAG4.5	Pass	

B. Booting Stability Testing

Test Condition: Burn-In Under Temp. -10°C ~70°C (IEC-68-2-30)24hr

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 1000 Times	1000	1000	0%	

C. Booting Stability Testing

Test Condition: Room Temp.

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 1000 Times	1000	1000	0%	
KB Reset 20 Times	20	20	0%	
H/W Reset 1000 Times	1000	1000	0%	

4. Performance Testing

System Information:

DRAM Type & Capacity	MT 48LC2M8A1TG-10S 32M
VGA Card	OnBoard C&T 69000
HDD TYPE	FUJITSU MPC3032AT
VGA Testing Mode	1024X768X256 colors (For WinStone & WinBench)
O.S.	DOS 6.22 , Windows 95 and Windows NT4.0

Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

Testing Software

Testing Utility	CPU Configuration								
	Pentium MMX-233	Pentium MMX-200	AMD K6-233	AMD K6-266	AMD K6-2 300	Cyrix M2-233	Cyrix M2-300	Tillamook 266	
LandMark Speed 2.0									
CPU	1530.40	1311.77	2399.10	2741.86	3084.62	2323.69	2901.97	1749.03	Mhz
FPU	4679.33	4010.82	3829.08	4376.09	4923.15	2665.46	3360.79	5347.84	Mhz
VIDEO	16384	16384	16384	16384	16384	20915	20915	11843	Chs/sec
Norton 8.0 SI	794	680.6	1388.7	1587.1	5062.3	1271.4	1235.1	907.4	ID
Power Meter 2.02	123.6	105.3	167.3	189.6	218.8	129.3	167.3	135.4	Mips
WinStone 98									
Business Winstone	20.6	19.4	21.9	23.2	26.3	20	23.3	17.4	
High-End Winstone	22.4	20.9	23.3	23.3	27.9	20.9	24.7	16.3	
WinBench 98									
High-End Graphic WinMark	127	115	130	142	169	135	168	130	MP/s
Business Graphic WinMark	958	88	103	111	131	103	126	99.4	
CPUMark 32	459	424	547	605	720	458	545	521	
Coretest 3.02									
Dtr (Buffered Read)	10048	10084	9888	9920	9968	9120	10080	10016	KB/sec
Performance ID	66.27	66.27	65.32	65.44	65.72	60.75	66.47	64.16	

System Information:

DRAM Type & Capacity	NEC D4564841G5-A10-9JF 64M
VGA Card	OnBoard C&T 69000
HDD TYPE	IBM DPTA -372050
VGA Testing Mode	1024X768X256 colors (For WinStone & WinBench)
O.S.	DOS 6.22 , Windows 98 and Windows NT4.0

Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

Testing Software

Testing Utility	CPU Configuration									
	AMD K6-2 400	AMD K6-2 450	AMD K6-2 500	AMD K6-2 550	AMD K6-3 450					
LandMark Speed 2.0										
CPU	4111.55	4625.47	5139.43	5653.42	4625.45					Mhz
FPU	6571.86	7393.38	8214.87	9036.41	7393.43					Mhz
VIDEO	10922	10922	10922	10922	10922					Chs/sec
Norton 8.0 SI	484.7	781.7	1076.8	1375.3	785.9					ID
Power Meter 2.02	316.0	355.5	355.5	355.5	406.3					Mips
WinStone 98										
Business Winstone	21.1	21.8	22.2	22.6	24.4					
High-End Winstone	20	20.8	21.9	22.5	23					
WinBench 98										
High-End Graphic WinMark	292	307	319	333	361					MP/s
Business Graphic WinMark	96.4	98.7	98.7	106	114					
CPUMark 32	882	856	958	996	1410					
Coretest 3.02										
Dtr (Buffered Read)	10288	10288	10288	10304	10304					KB/sec
Performance ID	69.32	69.32	69.32	69.41	69.41					

5. Power Consumption Data

System Information:

DRAM Type & Capacity	MT 48LC2M8A1TG-10S 32M
VGA Card	OnBoard C&T 69000
HDD Type	Fujitsu MPC3032AT
VGA Testing Mode	640x480x16 colors
O.S.	DOS 6.22

Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

The Application of Software

Brand	Landmark System Speed Test Version 2.0
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Test Result

Processor Type	Mode Type	Normal Mode(+5V)	Suspend Mode(+5V)	Unit
Pentium Mmx-200		4	1.6	Amp/Max
Pentium Mmx-233		4.4	1.8	Amp/Max
Pentium MMX Tillamook 266		2.5	1.4	Amp/Max
Cyrix M2 PR-233		6.8	1.4	Amp/Max
Cyrix M2 PR-300		8	1.4	Amp/Max
AMD K6-233		8.1	1.5	Amp/Max
AMD K6-266		3.2	1.4	Amp/Max
AMD K6-2 300		4.2	1.4	Amp/Max
AMD K6-2 400				Amp/Max
AMD K6-2 450		5.2	1.5	Amp/Max
AMD K6-2 500		5.8	1.5	Amp/Max
AMD K6-2 550		6.8	1.6	Amp/Max
AMD K6-3 450		5.6	1.4	Amp/Max

Note: AMD K6-2 400/450/500/550 & K6-3 450, HDD Type : M-System DOC 16MB

1. Power supply voltage : +5V.
2. Normal Model is measured while run Landmark Speed Rev.2.0 in dos.

6. Margin Testing

A. Temperature Test (Software: AMIDIAG 4.5)

Testing Condition	Result	Note
High Temperature Margin (Burn-In 2 Hours)	70° C	
Low Temperature Margin (Burn-In 2 Hours)	-10° C	

C. IDE Drive Capability

Test Equipment

Primary IDE Port:

Master Device: HD FUJITSU MPC3032AT

Slave Device: CD-ROM TEAC CD-532E

Testing Condition	Result	Note
Primary IDE Port Flat-Cable Length Margin	75CM	
Secondary IDE Port Flat-Cable Length Margin	N/A	