

PCM-7890

QE Compatibility Test Report

Release Date: Aug. 18, 1999

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	

(E): English / (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							
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 II MMX 300	Pass	
Intel	Pentium II MMX 400	Pass	
Intel	Pentium II MMX 450	Pass	
Intel	Pentium III MMX 450	Pass	
Intel	Celeron 300A/66	Pass	

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	D4564841G5-A10-9JF 64MB	Pass	
NEC	D4564841G5-A10-9JF 128MB	Pass	
NEC	D4516821AG5-A10-9NF 32MB	Pass	

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
Onboard	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	
The PC-104 add-on card will conflict with CRT, SOUND, and LPT connectors.			

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

Brand	Device Model	Result	Note
HITACHI	DK226A-21U	Pass	
SEAGATE	ST34520A	Pass	
FUJITSU	MPC3032AT	Pass	
QUANTUM	BIGFOOT TX	Pass	
QUANTUM	FIREBALL TM	Pass	

J. Peripheral Compatibility- Storage Device**Device List:**

Brand	Device Model	Result	Note
CD-ROM			
TEAC	532E	Pass	
NEC	282	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. $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (IEC-68-2-61)

Test Software	Result	Note
AMIDIAG4.5	Pass	

B. Booting Stability Testing

Test Condition: Burn-In under Temp. $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (IEC-68-2-30)

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	NEC D4564841G5-A10-9JF 64M
VGA Card	onboard C&T 69000
HDD TYPE	Quantum bigfoot TX 4GB
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								Unit
	Pentium II MMX-300	Pentium II MMX-400	Pentium II MMX-450	Pentium III MMX-450	Celeron 300A	Celeron 366	Celeron 400	Celeron 433	
LandMark Speed 2.0									
CPU	1873.85	2498.58	2810.94	2810.94	1873.86	2290.30	2498.54	2706.75	MHz
FPU	5815.25	7754	8723.34	8723.65	5815.30	7107.66	7753.77	8400.05	MHz
VIDEO	16384	16948	16948	16948	14894	16115	16115	16115	Chs/sec
Norton 8.0 SI	752.1	1002.9	1128.2	1128.2	752.1	919.3	1002.8	1086.4	ID
Power Meter 2.02	142.2	189.6	218.8	218.8	142.2	177.7	189.6	218.8	Mips
WinStone 99									
Business Winstone	17.5	20.6	21.5	21.8	17.2	18.5	19.1	19.4	
High-End Winstone	16.2	19.3	20.6	21	15.9	17.2	17.7	18.2	
WinBench 99									
High-End Graphic WinMark	239	305	332	332	249	292	310	330	MP/s
Business Graphic WinMark	85.7	105	113	106	87.1	98.1	104	108	
CPUMark 32	744	974	1090	1140	598	669	699	726	
Coretest 3.02									
DTR (Buffered Read)	6784	8304	8416	8304	6848	6992	7040	7056	KB/sec
Performance ID	45.12	54.12	54.79	54.47	45.46	46.52	46.81	46.47	

System Information:

DRAM Type & Capacity	NEC D4564841G5-A10-9JF 64M
VGA Card	OnBoard C&T 69000
HDD TYPE	Quantum bigfoot TX 4GB
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								Unit
	Celeron 466								
LandMark Speed 2.0									
CPU	2914.99								MHz
FPU	9046.27								MHz
VIDEO	16115								Chs/sec
Norton 8.0 SI	1170								ID
Power Meter 2.02	237								Mips
WinStone 99									
Business Winstone	19.5								
High-End Winstone	18.5								
WinBench 99									
High-End Graphic WinMark	349								MP/s
Business Graphic WinMark	113								
CPUMark 32	745								
Coretest 3.02									
DTR (Buffered Read)	7248								KB/sec
Performance ID	47.64								

5. Power Consumption Data

System Information:

DRAM Type & Capacity	NEC D4564841G5-A10-9JF 64M
VGA Card	Onboard C&T 69000
Disk-on-chip	MD2200-D08
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	Suspend Mode	Unit
Intel Pentium II MMX-300	8.2	2.4	Amp/Max
Intel Pentium II MMX-400	5.7	2.4	Amp/Max
Intel Pentium II MMX-450	6.2	2.4	Amp/Max
Intel Pentium III MMX-450	6.0	2.4	Amp/Max
Intel Celeron 300A	4.4	2	Amp/Max
Intel Celeron 366	5.0	2	Amp/Max
Intel Celeron 400	5.2	2	Amp/Max
Intel Celeron 433	5.2	2	Amp/Max
Intel Celeron 466	5.5	2	Amp/Max

Note:

- 1.Power supply voltage : +5V.
- 2.Normal Model is measured while run Landmark Speed Rev.2.0 in dos mode.
- 3.Suspend Model is all function off.

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	

B. 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	