

PCM-5890 QE Compatibility Test Report

Release Date: Aug. 11, 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 $N/A^{\dot{\cdot}}$ 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 Ite	em	Install		Boot		Shutdown		Function		K/B Function	
		Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
MS-DOS 6.22		✓		✓		✓		✓		✓	

B. Microsoft Windows & IBM OS/ 2 Compatibility

Wins / Test Item	Install		Boot		Shutdown						Display Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Windows 3.1	✓		✓		✓		✓		✓		✓	
Windows 95	✓		✓		✓		✓		✓		✓	
Windows Nt 4.0 W/S	✓		✓		✓		✓		✓		N/A	
Windows Nt 4.0 Server	✓		✓		✓		✓		✓		N/A	
OS/2 Warp 3.0	✓		✓		✓		✓		✓		N/A	

C. Windows Application

Application / Test Item		Installation	F	unction 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	Qafe	Qafe5.29		Amidiag4.5/5.1				
	Result	Note	Result	Note	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					

2. Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Result	Note
Intel	PENTIUM-100	Pass	
Intel	PENTIUM-133	Pass	
Intel	PENTIUM-166	Pass	
Cyrix	6X86-110M	Pass	
AMD	5K86-75	Pass	
AMD	5K86-100	Fail	

B. Component Compatibility- DRAM SIMM Module DRAM SIMM Module List:

Brand	Device Model	Result	Note
PANASONIC	MN4117400BSJ-06 32M	Pass	
MITSUBISH	M5M417400CT-7 16M	Pass	
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
HYNDAI	HY5117400AJ-70 16M	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
SAMSUNG	KM44c4104AK-6 16M EDO RAM	Pass	
VANGUARD	VG264400BJ-6 8M	Pass	
NEC	4217405-60 16M EDO RAM	Pass	
NEC	424100-70 16M	Pass	
NEC	424400-70 4M	Pass	
UMC	CACHE MODULE 128K UT6132C32AQ-6	Pass	
UMC	CACHE MODULE 256K UM-613232AF-7*2	Pass	
UMC	CACHE MODULE 512K UM613232AF-7*4	Pass	
			<u> </u>

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
PCI BUS			
On Board	C&T 65545	Pass	

D. Adapter Compatibility- LAN

LAN Adapter List:

Brand	Device Model	Result	Note
PCI BUS			
On Board	RTL-8029	Pass	

E. Adapter Compatibility- SCSI CARD

SCSI Adapter List:

Brand	Device Model	Result	Note
PCI BUS			
AHA	2940UW PCI	Pass	

F. Peripheral Compatibility-HDD Device

HDD List:

Brand	Device Model	Result	Note
Seagate	ST31276R	Pass	
Maxtor	71336AP	Pass	
Conner	CFS425A	Pass	
Fujitsu	M1638TAU	Pass	
Quantum	840AT	Pass	
Quantum	CD820E	Pass	

G. Peripheral Compatibility- Storage Device

Device List:

Brand	Device Model	Result	Note		
CD/ROM					
Creative	CD 820E	Pass			
VUGEO	624A-004	Pass			
Panasonic	CR-585-B	Pass			
Pioneer	DR-A24X	Pass			
Tape Streamer					
HP	LaserJet III	Pass			

H. Peripheral Compatibility- Input Device Input Device List:

Brand	Device Model	Result	Note
Keyboard			
BTC	5140	Pass	
ACER	6511	Pass	
Mouse			
Microsoft	Serial Mouse	Pass	
IBM	PS/2 Mouse	Pass	
Logitech	First Mouse SUPER	Pass	
Logitech	First Mouse	Pass	
Logitech	Mouse Man (PS/2,Serial)	Pass	

3. Stability Testing

A. Burn-In Stability Testing

Test Condition: Room Temp. 48 hours

Test Software	Result	Note
AMIDIAG4.5 Pass		

B. Booting Stability Testing

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

C. Continuous Burn-In Booting Stability Testing

Test Condition: Burn-In Under Temp. 60℃

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

4. Performance Testing

System Information:

DRAM Type & Capacity	Panassonic 32MBX2	
VGA Card	OnBoard (C&T 65545)	
HDD TYPE	Segate ST51270A(Mode4)	
VGA Testing Mode	640X480X256 colors	(For WinStone & WinBench)
O.S.	DOS V 6.22 & Windows 95	

Operating System Environment (DOS Only)

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

Testing Software

	CPU Configuration				
Testing Utility	AMD				Unit
	K5-100				
LandMark Speed 2.0					
CPU	896.26				Mhz
FPU	1141.23				Mhz
VIDEO	3510				Chs/sec
Norton 8.0 SI	396.3				ID
Power Meter 2.02	47.4				Mips
PcBench 9.0 CPUmark16	160.29				
WinStone 96 1.0	35.7				
WinBench 96					
Graphic WinMark 96	3.95				MP/s
CPUmark 16	147				
CPUmark 32	128				
Coretest 3.02					
DTR (Buffered Read)	4944				KB/sec
Performance ID	35.03				
WINTECH 1.2	6.51/A4				
Power consumption	3.51				Α
(+5V in normal mode)					
Note					

5. Margin Testing

A. Temperature Test (AMIDIAG 4.5)

Testing Condition	Result	Note
High temperature Margin (Burn-In 2 Hours)	65 ℃	
Low temperature Margin (Burn-In 2 Hours)	-35 ℃	

B. DC Voltage Test (AMIDIAG 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	6.0V	5.6V RTC Fail
VDC Low Voltage Margin (Burn-In 2 Hours)	4.6V	

C. IDE Drive Capability

Test Equipment:

Primary IDE Port:

Master Device: HDD Seagate ST32132A Slave Device: CD-ROM CREATIVE CD820E

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