

AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

PCM-4894

QE Compatibility Test Report

Release Date: AUG. 20, 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	✓		✓		✓		✓		✓	
MS-DOS 6.2/V (J)	✓		✓		✓		✓		✓	
QNX 4.22 & Wins	✓		✓		✓		✓		✓	
NOVELL 4.11	✓		✓		✓		✓		✓	

B. Microsoft Windows & IBM O/S 2 Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		Keyboard Function		Display Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
WINDOWS 3.1	✓		✓		✓		✓		✓		N/A	
WINDOWS 95 (E/J)	✓		✓		✓		✓		✓		✓	
WINDOWS 98 (E)	✓		✓		✓		✓		✓		✓	
WINDOWS NT4.0W/S(E)	✓		✓		✓		✓		✓		✓	
WINDOWS NT4.0W/S(J)	✓		✓		✓		✓		✓		✓	
OS/2 Warp 4.0	✓		✓		✓		✓		✓		N/A	

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	Qafe5.29		Amidiag4.5							
	Result	Note	Result	Note	Result	Note	Result	Note	Result	Note
Main Component	Pass		Pass							
Memory	Pass		Pass							
Video Adapter	Pass		Pass							
Keyboard	Pass		Pass							
Com Port	Pass		Pass							
Lpt Port	Pass		Pass							
Note :										

2. Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Result	Note
AMD	AM5X86-P75-S at 133M	Pass	OnBoard

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
PANASONIC	MN4117400BSJ-06 32M FPM RAM	Pass	
MITSUBISHI	M5M417400CJ-7 16M FPM RAM	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
NPX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
PANASONIC	W/P PP716M66 16M FPM RAM	Pass	
NEC	4217405-60 16M EDO RAM	Pass	
SIEMENS	HYB5118165BSJ-60 8M EDO RAM	Pass	
SIEMENS	HYB5117405BJ-60 16M EDO RAM	Pass	
PANASONIC	MN414400BSJ-07 8M FPM RAM	Pass	
LGS	GM71C17403CJ6 32M EDO RAM	Pass	
NEC	4218165-60 8M EDO RAM	Pass	
TI	TMS417409ADJ-6 16M EDO RAM	Pass	
MITSUBISHI	M5M418165CJ-6 8M EDO RAM	Pass	
LGS	GM71C17403CJ6 16M EDO RAM	Pass	
LGS	GM71C18163CJ6 8M EDO RAM	Pass	
HYUNDAI	HY5118164BJC-60 8M EDO RAM	Pass	

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	C&T 65550	Pass	
TopView	S3 86C801	Pass	
TopView	S3 Virge	Pass	
Cardex	ET-6000	Fail	(BYPASS)
TopView	ET-4000 W32P	Fail	(BYPASS)
ISA Bus			
TopView	ET-4000	Pass	

D. Adapter Compatibility- LAN

LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	Realtek RTL8029	Pass	
D-Link	DE 530	Pass	
3COM	FAST ETHER LINK	Pass	
Realtek	RTL8139	Pass	
Surecom	Digital 21140-AF	Pass	
ISA Bus			
3COM	3C509	Pass	

E. Adapter Compatibility- SCSI CARD

SCSI Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
AHA	2940UW	Pass	

F. Adapter Compatibility- Other Card

Adapter Card List:

Brand	Device Model	Result	Note
MPEG Card			
LEMEL Magic	MPEG Card	Pass	
Sound Card			
Creative	SB 16 Value PNP	Pass	(Require power voltage -12V)
Creative	AWE 64 PNP	Pass	(Require power voltage -12V)

**G. Adapter Compatibility- Industry Control Card
Industry Control Adapter List:**

Brand	Device Model	Result	Note
ISA Card			
AAEON	PCD-894A	Pass	
AAEON	PCD-895A	Pass	
AAEON	PCD-896	Pass	
AAEON	RDM-1010A	Pass	
AAEON	RDM-1020N	Pass	
104 Module			
AAEON	PCM-3820/C	Pass	
AAEON	PCM-3110B	Pass	
AAEON	PCM-3111	Pass	
AAEON	PCM-3420	Pass	

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

Brand	Device Model	Result	Note
Quantum	ST 32A013	Pass	
Seagate	ST51270A	Pass	
Maxtor	83240D4	Pass	
Seagate	ST31230N SCSI	Pass	

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

Brand	Device Model	Result	Note
CD/ROM			
VUGEO	624A-004	Pass	
FAX/Modem			
LEMEL	33.6 HIGH SPEED MODEM	Pass	

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

Brand	Device Model	Result	Note
Keyboard			
ACER	6311-TW	Pass	
BTC	5122	Pass	
Mouse			
Microsoft	Serial Mouse	Pass	
Logitech	MouseMan (PS/2,Serial)	Pass	
Logitech	First Mouse	Pass	

3. Stability Testing

A. Burn-In Stability Testing

Test Condition: Room Temp. 48 hours

Test Software	Result	Note
AMIDIAG 4.5	Pass	

B. Booting Stability Testing

Test Condition: Room Temp.

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

C. Booting Stability Testing

Test Condition: Temp. 60°C

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 1000 Times	1000	1000	0%	
H/W Reset 1000 Times	1000	999	0.1%	

D. Burn-In Stability Testing

Test Condition: Burn-In Under Temp. -10°C~70°C Burn-In 48 Hours

Test Software	Result	Note
AMIDIAD 4.5	Pass	

E. Continuous Burn-In Booting Stability Testing

Test Condition: Burn-In Under Temp. -10°C~70°C Burn-In 24 Hours

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 42 Hours	1000	1000	0%	

4. Performance Testing

System Information:

DRAM Type & Capacity	LGS GM71C17403CJ6 32MB X2		
VGA Card	OnBoard (C&T)		
HDD TYPE	Quantum ST32A013		
VGA Testing Mode	1024X768X256 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=hing	C:\dos\smartdrv.exe /x
Files=35	
Buffers=40	

Testing Software

Testing Utility	CPU Configuration							Unit
	AM5X86 P75-s 133							
LandMark Speed 2.0								
CPU	447.05							Mhz
FPU	1139.52							Mhz
VIDEO	8747							Chs/sec
Norton 8.0 SI	288.7							ID
Power Meter 2.02	40.6							Mips
PcBench 96 CPUmark16	105.39							
WinStone 96								
Business Winstone	32.4							
High-End Winstone	32.4							
WinBench 96								
Graphic WinMark 96	10.4							MP/s
CPUmark 32	81.3							
CPUmark 16	93.3							
Coretest 3.02								
DTR (Buffered Read)	10736							KB/sec
Performance ID	70.77							
WINTECH 1.2	82.06							
Note								

5. Power Consumption Data

System Information:

DRAM Type & Capacity	Panasonic MN4117405CSJ-06 EDO RAM 32MBx2
VGA Card	OnBoard C&T65550
FLOPPY TYPE	Teac FD-235HF
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

Mode Type	Normal Mode	Suspend Mode	Unit
Processor Type AM5X86 P75-S 133	2.6	1	Amp/Max

Note:

- 1.Power supply voltage : +5V
- 2.Suspend Model all function off

6. Margin Testing

A. Temperature Test (Software: AMIDIAG4.5)

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

B. Temperature Test (Boot Up)

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

C. DC Voltage Test (Software: Qaplus/fe 5.29)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.3 V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.4 V	

D. IDE Drive Capability

Test Equipment

Primary IDE Port:

Master Device: HDD Quantum ST32A013

Slave Device: CD-ROM Vugeo 624A-004

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