

AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

PCM-4335

QE Compatibility Test Report

Release Date : Jun. 08, 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		K/B 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	✓		✓		✓		✓		✓	

B. Microsoft Windows Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		K/B Function		Display Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Windows 3.1	✓		✓		✓		✓		✓		✓	
Windows 95 (E/J)	✓		✓		✓		✓		✓		✓	
Windows 98 (E)	✓		✓		✓		✓		✓		✓	

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	
CoreIDRAW 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						
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
SGS	STPC-66	Pass	On Board

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
NEC	D425V18165LGS 8M	Pass	
NEC	D425V18165LGS 16M	Pass	
LGS	GM71V65163AT6 64M	Pass	

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	69000	Pass	

D. Adapter Compatibility- LAN

LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board			
ISA Bus			
3COM	3C509	Pass	
INTEL	100 P	Pass	

E. 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	
Creative	AWE 64 PNP	Pass	

F. 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	Fail	
AAEON	RDM-1020N	Pass	
104 Module			
AAEON	PCM-3820/C	Pass	
AAEON	PCM-3110B	Pass	
AAEON	PCM-3111	Pass	
AAEON	PCM-3420	Pass	
AAEON	PCM-3660	Pass	CHIPSET:UMC
AAEON	PCM-3660	Pass	CHIPSET:Realtek

G. 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	

H. 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	

I. 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	

3. Stability Testing

A. Burn-In Stability Testing

Test Condition: Room Temp. 62 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	999	0.1%	
KB Reset 20 Times	20	20	0%	

C. Burn-In Stability Testing

Test Condition: Burn-In Under $-10^{\circ}\text{C}\sim 70^{\circ}\text{C}$ Burn-In 30 Hours

Test Software	Result	Note
AMIDIAD 4.5	Pass	

D. Continuous Burn-In Booting Stability Testing

Test Condition: Burn-In Under Temp.

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 48 Hours	4756	4784	0.16%	$-10^{\circ}\text{C}\sim 70^{\circ}\text{C}$

4. Performance Testing

System Information:

Dram Type & Capacity	LGS GM71v65163at6 64MB X1		
Vga Card	OnBoard (69000)		
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
	STPC-66			
LandMark Speed 2.0				
CPU	217.80			Mhz
FPU	617.55			Mhz
VIDEO	9452			Chs/sec
Norton 8.0 SI	112.1			ID
Power Meter 2.02	19.2			Mips
PcBench 96 CPUmark16	54.30			
WinStone 96				
Business Winstone	19.7			
High-End Winstone				
WinBench 96				
Graphic WinMark 96	5.29			MP/s
CPUMark 32	55.8			
CPUMark 16	76.7			
Coretest 3.02				
DTR (Buffered Read)	9856			KB/sec
Performance ID	65.62			
WINTech 1.2	63.86			
NOTE				

5. Power Consumption Data

System Information:

DRAM Type & Capacity	NEC D425V18165LG5-A80-7JF 16MB*1
VGA Card	OnBoard C&T B69000
DOC Type	M-Systems MD-2800-D08
O.S.	DOS V 6.22

Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=C:\Dos\Himem.Sys Dos=High 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 Processor Type	Normal Mode	Suspend Mode	Unit
STPC 66MHZ	2.1	1.2	Amp/Max

Note :

- 1.Power supply voltage : +5V.
- 2.Normal Model is measured while open system.
- 3.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	