

# AAEON

ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

## PCM-3335

# QE Compatibility Test Report

**Release Date: Sep. 01, 1999**

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**Issue Stamp**

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**QA Manager**

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**QE Manager**

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**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. Margin Testing

## A. Temperature Test (AMIDIAG 4.5)

Testing Condition	Result	Note
High temperature Margin (Burn-In 2 Hours)	75°C	
Low temperature Margin (Burn-In 2 Hours)	-35°C	

## B. DC Voltage Test (AMIDIAG 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.25V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.4V	

## C. IDE Drive Capability

**Test Equipment:** Master Device: HDD Quantum FB1280A

Slave Device: CD-ROM Creative CD620E

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

## 2. 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	996	0.4%	
KB Reset 20 Times	20	20	0%	
H/W Reset 1000 Times	1000	1000	0%	

### C. Continuous Burn-In Booting Stability Testing

Test Condition: Burn-In Under Temp. 60°C

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 1000Times	1000	994	0.6%	
H/W Reset 1000Times	1000	1000	0%	

### 3. Performance Testing

#### System Information:

DRAM Type & Capacity	4 MB(on board)
VGA Card	OnBoard (Chips F65545 B2)
HDD TYPE	Seagate ST51270A
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 dos=high files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

#### Testing Software

Testing Utility	CPU Configuration					Unit
	ALI 6117B					
<b>LandMark Speed 2.0</b>						
CPU	54.56					Mhz
FPU	N/A					Mhz
VIDEO	3276					Chs/sec
Norton 8.0 SI	32.9					ID
Power Meter 2.02	5.5					Mips
PcBench 9.0 CPUmark16	20.26					
H.E. WinStone 96 1.0	N/A					
<b>WinBench 96 Ver 1.0</b>						
Graphic WinMark 96	1.13					MP/s
CPUmark 16	20.6					
CPUmark 32	24.2					
<b>Coretest 3.02</b>						
DTR (Buffered Read)	2688					KB/sec
Performance ID	21.23					
WINTECH 1.2	1.99					
NOTE						

## 4. Hardware Compatibility

### A. Component Compatibility- CPU

#### 386 CPU Device List:

Brand	Device Model	Result	Note
Onboard	ALI M6117	Pass	

### B. Component Compatibility- DRAM SIMM Module

#### DRAM SIMM Module List:

Brand	Device Model	Result	Note
Onboard	MT4C16257DJ-7 4M	Pass	

### C. Adapter Compatibility- VGA

#### VGA Adapter List:

Brand	Device Model	Result	Note
PC-104			
on-board	65545	Pass	

### D. Adapter Compatibility- LAN

#### LAN Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
3COM	3C509	Pass	
Novell	NE2000	Pass	

### E. Adapter Compatibility- SCSI CARD

#### SCSI Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
AHA	1542CF	Pass	

### F. Adapter Compatibility- Industry Control Card

#### Industry Control Adapter List:

Brand	Device Model	Result	Note
104 Module			
AAEON	PCM-3810 (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3200(SOUND)	Pass	
AAEON	PCM-3600(FAX/MODEM)	Pass	
AAEON	PCM-3115(PCMCIA 2 SLOTS)	Pass	

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

Brand	Device Model	Result	Note
Conner	CFS425A 425M	Pass	
Quantum	850AT	Pass	
Quantum	TB540S SCSI	Pass	
Maxtor	7540AV 540M	Pass	
Seagate	ST51270A	Pass	
Segote	ST32132A/2.1GB	Pass	
WD	WDAC22100	Pass	
Fujitsu	M1638TAU	Pass	

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

Brand	Device Model	Result	Note
<b>CD-ROM</b>			
Creative	CD 820E	Pass	
PHILIPS	PCA123CD	Pass	
VUEGO	612A-004 12X	Pass	

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

Brand	Device Model	Result	Note
<b>Keyboard</b>			
FOCUS	101KB	Pass	
<b>Mouse</b>			
IBM	PS/2 Mouse	Pass	
Logitech	First Mouse	Pass	
Logitech	MouseMan (PS/2,Serial)	Pass	

## 5. 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	✓		✓		✓		✓		✓	
QNX 4.22 & Wins	✓		✓		✓		✓		✓	
NOVELL 3.12	N/A		✓		✓		✓		✓	

### 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	✓		✓		✓		✓		✓			

### D. DOS Utility Compatibility Testing

Application / Test Result		Result	Note
Norton Utility 8.0		Pass	
ET 3.53	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	N/A	
ET 2000 (For DOS)	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	N/A	

### E. Diagnostics Software Testing

Test Item / Software	QAFE5.29		AMIDIAG4.5/5.1		CHECKIT3.0			
	Result	Note	Result	Note	Result	Note		
Main Component	Pass		Pass		Pass			
Memory	Pass		Pass		Pass			
Video Adapter	Pass		Pass		Pass			
Floppy Drive	Pass		Pass		Pass			
Hard Drive	Pass		Pass		Pass			
Keyboard	Pass		Fail		Pass			
COM Port	Fail		Fail		Fail			
LPT Port	Fail		Pass		Fail			
Plug & play	N/A		N/A		N/A			

## 6. Power Consumption Data

### System Information:

DRAM Type & Capacity	Onboard 4MB
VGA Card	OnBoard C&T F65545
HDD TYPE	Quantum 3240AT
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	Normal Mode	Suspend Mode	
Processor Type			Unit
ALI M6117	0.9	0.6	Amp/Min

Note :

1. Power supply voltage : +5V.
2. Normal model is measured while open system.
3. Suspend model all function off.