

# AAEON

ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

## PCM-4897 **QE Compatibility Test Report**

**Release Date: Aug. 10, 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. 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 (Japan)	✓		✓		✓		✓		✓	

## B. Microsoft Windows & IBM OS/ 2 Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		Keyboard Function		Display Driver		Ethernet Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Windows 3.1	✓		✓		✓		✓		✓		✓		N/A	
Windows 95 (English)	✓		✓		✓		✓		✓		✓		N/A	
Windows 95(Japan)	✓		✓		✓		✓		✓		✓		N/A	
Windows98(English)	✓		✓		✓		✓		✓		✓		N/A	
Windows Nt4.0w/S (English)	✓		✓		✓		✓		✓		✓		N/A	
Windows Nt4.0w/S (Japan)	✓		✓		✓		✓		✓		✓		N/A	
OS/2 Warp 4.0	✓		✓		✓		✓		✓		N/A		N/A	

## C. Windows Application

Application / Test Item	Installation		Function Test	
	Result	Note	Result	Note
Business/Access 97	Pass		Pass	
Business/Corel DRAW! 7	Pass		Pass	
Business/Excel 97	Pass		Pass	
Business/Lotus 1-2-3 97	Pass		Pass	
Business/Navigator	Pass		Pass	
Business/Power Point 97	Pass		Pass	
Business/Quattro Pro 7	Pass		Pass	
Business/Task Switching 1	Pass		Pass	
Business/Task Switching 2	Pass		Pass	
Business/Word 97	Pass		Pass	
Business/Word Perfect 7	Pass		Pass	
High-End/AVS/Express 3.1	Pass		Pass	
High-End/Front Page 97	Pass		Pass	
High-End/Microstation 97	Pass		Pass	
High-End/Photoshop 4.0	Pass		Pass	
High-End/Premiere 4.2	Pass		Pass	
High-End/PV-WAVE 6.1	Pass		Pass	
High-End/Visual C++ 5.0	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 5.4		Amidiag 5.22		Result	Note
	Result	Note	Result	Note		
Main Component	Pass		Pass			
Memory	Pass		Fail	1.		
Video Adapter	Pass		Pass			
Floppy Drive	Pass		Pass			
Hard Drive	Pass		Pass			
Keyboard	Pass		Pass			
COM Port	Pass		Pass			
LPT Port	Pass		Pass			
Plug & Play	Pass		Pass			
<b>Note:</b>						
1. Memory Refresh Test Error.						

## 2. Hardware Compatibility

### A. Component Compatibility- CPU

#### CPU Device List:

Brand	Device Model	Result	Note
Cyrix	MediaGX GXm-200GP	Pass	
Cyrix	MediaGX GXm-233GP	Pass	
Cyrix	MediaGX GXm-266GP	Pass	

### B. Component Compatibility- DRAM SIMM Module

#### DRAM SIMM Module List:

Brand	Device Model	Result	Note
SIEMENS	HYB39S16800AT-10 32M SDRAM	Pass	
HYUNDA	HY57V658020 128M SDRAM	Pass	
NEC	D4564841G5-A10 64M SDRAM	Pass	
NEC	D4564841G5-A10-9JF 128M SDRAM	Pass	
HITACHI	HM5216805TT10H 16M SDRAM	Pass	
MT	48LC2M8A1TG -10 32M SDRAM	Pass	

### C. Adapter Compatibility- VGA Card

#### VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	Cyrix Media GX	Pass	

### D. Adapter Compatibility- LAN Card

#### LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
3COM	3C905-TX	Pass	
3COM	3C905B-TX	Pass	
Surecom	Digital 21140-AF	Pass	
Intel	Ether Express PRO/100+	Pass	
Realtek	RTL-8139A	Fail	
ISA Bus			
3COM	3C509	Pass	
Intel	Ether Express PRO/100B	Pass	

**E. Adapter Compatibility- SCSI Card****SCSI Adapter List:**

Brand	Device Model	Result	Note
<b>PCI Bus</b>			
AHA	2940UW	Pass	

**F. Adapter Compatibility- MPEG Card****MPEG Adapter Card List:**

Brand	Device Model	Result	Note
<b>MPEG CARD</b>			
LEMEL Magic	MPEG Card	Fail	

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

Brand	Device Model	Result	Note
Seagate	ST34520A	Pass	
WD	WDAC33100	Pass	
Quantum	Big-Foot TX4.0AT	Pass	
Seagate	ST51270A	Pass	

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

Brand	Device Model	Result	Note
<b>CD/ROM</b>			
VUGEO	624A-004	Pass	
CREATIVE	CD2423E	Pass	
<b>FAX/Modem</b>			
LEMEL(RS-232)	33.6 HIGH SPEED MODEM	Pass	
ESS(PCI Card)	ES56T-PI Data Fax Voice Modem	Fail	Note 1.
<b>ZIP (ECP/EPP/SPP)</b>			
IOMEGA	ZIP 100M	Pass	
<b>MO</b>			
FUJTSU	MCB3064SS	Pass	
<b>DiskOnChip</b>			
Flushdisk	M-Systems DiskOnChip2000 24M	Pass	
Note: 1.The system with PCM-10560-3 Rev.A1 riser card is tested pass by R/D.			

## I. Peripheral Compatibility- Input Device

### Input Device List:

Brand	Device Model	Result	Note
<b>Keyboard</b>			
ACER	6311-TW	Pass	
LEMEL	KB-5122	Pass	
BTC	7932 (USB)	Pass	
<b>Mouse</b>			
Microsoft	Serial Mouse	Pass	
Logitech	Mouse Man (PS/2,Serial)	Pass	
Logitech	First Mouse	Pass	
DEXIN	A2U800A (USB)	Pass	
<b>Scanner</b>			
HP	4100C/ USB Port	Pass	
<b>Printer</b>			
Epson	Color 740/USB Port	Pass	
<b>PC Camera</b>			
Tekom	TekCam P35U	Pass	
<b>JoyStick</b>			
Rockfire	CH FlyStick PRO	Pass	Run F22 (GAME) Pass
Logitech	THUNDERPAD G-YA ARC2	Fail	Some games can not work correctly.

### 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%	
KB Reset 20 Times	20	20	0%	

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

Test Condition: Temp. : -10°C ~ 70°C Humidity: 0% ~ 95%

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 24 Hours	1447	1447	0%	

#### D. Burn-In Stability Testing

Test Condition: Burn-In Between -10°C ~ 70°C Humidity: 0% ~ 95%

Test Software	Result	Note
AMIDIAD 4.5 48 Hours	Pass	

## 4. Performance Testing

### SYSTEM INFORMATION:

DRAM Type & Capacity	HY57V658020 TC-10 128MB SDRAM
VGA Card	On Board (Cyrix MediaGX)
HDD TYPE	Quantum Bigfoot TX4.0AT
VGA Testing Mode	1024X768X256 colors (For WinStone98 & WinBench98)
O.S.	DOS V 6.22 & Windows 95 & Windows NT

### Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys Dos=hing Files=35 Buffers=40	Prompt \$p\$g C:\dos\smartdrv.exe /x

### Testing Software

Testing Utility	CPU Configuration							Unit
	Cyrix MediaGX -200GP	Cyrix MediaGX -233GP	Cyrix MediaGX -266GP					
<b>LandMark Speed 2.0</b>								
CPU	612.30	738.25	892.76					Mhz
FPU	1483	2023.58	2438.63					Mhz
VIDEO	10922	12934	16115					Chs/sec
Norton 8.0 SI	373	452	544					ID
Power Meter 2.02	56.9	67.7	81.3					Mips
PcBench 96	N/A	N/A	N/A					
CPUMark16								
<b>WinStone 98</b>								
Business Winstone	9.81	10.7	12					
High-End Winstone	10.9	11.9	13.4					
<b>WinBench 98</b>								
High-End/Business	48.8	49.7	62.4					MP/s
Graphics WinMark98	/34.4	/36.9	/43.7					
CPUMark 32	205	209	268					
<b>Coretest 3.02</b>								
DTR (Buffered Read)	5632	5904	6160					KB/sec
Performance ID	38.34	40.07	41.53					
WINTech 1.2	85.67	95.80	112.21					
NOTE								

## 5.Power Consumption Data

### System Information:

DRAM Type & Capacity	NEC D4564841G5-A80-9JF 32MB*1
VGA Card	OnBoard Cyrix Media GXm CPU
DiskOnChip 2000	8M
VGA Testing Mode	640x480x16 colors
O.S.	DOS 6.22

### Test Software (DOS Mode)

Test Software	Landmark Speed V.2.0
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### Test Result:

Processor Type Mode Type	Cyrix Media GXm 200	Cyrix Media GXm 233	Cyrix Media GXm 266
Normal Mode(+5V)	2.2	2.2	1.9
Standby Mode(+5V)	0.6	0.6	0.6

Processor Type Mode Type	Cyrix Media GXm 200	Cyrix Media GXm 233	Cyrix Media GXm 266
Normal Mode(+3.3V)	0.9	0.9	0.9
Standby Mode(+3.3V)	0.4	0.4	0.4

#### Note:

- 1.STANDBY Model all function off.
- 2.Power supply voltage: +5V
- 3.Normal Model is measured while run landmark speed Rev.2.0 in DOS

## 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 (Power On/Off)

Testing Condition	Result	Note
High temperature Margin (Burn-In 2 Hours)	95 %	
Low temperature Margin (Burn-In 2 Hours)	0 %	

### C. IDE Drive Capability

#### Test Equipment

#### Primary IDE Port:

Master Device: HDD Quantum Bigfoot TX4.0AT

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	