

AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

PCM-4896

QE Compatibility Test Report

Release Date: Aug. 10, 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 (JAPAN)	√		√		√		√		√	
QNX 4.22 & Wins	N/A		N/A		N/A		N/A		N/A	

B. Microsoft Windows & IBM OS/2 Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		KB Function		Display Driver		Ethernet Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
WINDOWS 3.1	√		√		√		√		√		√		√	
WINDOWS 95 (ENGLISH)	√		√		√		√		√		√		√	
WINDOWS 95 (JAPAN)	√		√		√		√		√		√		√	
WINDOWS 98 (ENGLISH)	√		√		√		√		√		√		√	
WINDOWS NT4.0W/S (ENGLISH)	√		√		√		√		√		√		√	
WINDOWS NT4.0W/S (JAPAN)	√		√		√		√		√		√		√	
OS/2 Warp 4.0	√		√		√		√		√		√		√	

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	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
Cyrix	Media GXM 200	Pass	
Cyrix	Media GXM 233	Pass	
Cyrix	Media GXM 266	Pass	

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
Siemens	HYB39S16800AT SDRAM 32M	Pass	
MT	MT48LCM8A1 SDRAM 32M	Pass	
LGX	GM72V661641CT7J SDRAM 64M	Pass	
HYNDEAI	HY57V658TC-10 9828A 128MB	Pass	
NEC	D4564841G5-A10-9JF 128MB	Pass	

C. Adapter Compatibility- VGA Card

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	C&T 69000	pass	

D. Adapter Compatibility- LAN Card

LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
On Board	Realtek RTL8139	Pass	
Surecoh	Digital 21140-AF	Pass	
3COM	3C905B-TX	Pass	
Realtek	RTL8139	Pass	
3COM	3C905-TX	Pass	

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

Brand	Device Model	Result	Note
PCI Bus			
AHA	2940UW	Pass	

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

Brand	Device Model	Result	Note
PCI Bus			
Creative	ENSONIQ Audio PCI	Pass	
Onboard	MediaGX	Pass	

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

Brand	Device Model	Result	Note
104 Module			
AAEON	PCM-3820/C-4	Pass	
AAEON	PCM-3820-2	Pass	
AAEON	PCM-3110	Pass	
AAEON	PCM-3111	Pass	
AAEON	PCM-3200	Pass	
AAEON	PCM-3420	Pass	
AAEON	PCM-3600	Pass	
AAEON	PCM-3660	Pass	
PS. PC-104 with add_on card conflict with CRT,Sound, and LPT connector.			

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

Brand	Device Model	Result	Note
Seagate	ST34520A	Pass	
WD	WDAC33100	Pass	
Quantum	Big-Foot TX4.0AT	Pass	
Fujitsu	MPC3032AT	Pass	

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

Brand	Device Model	Result	Note
CD-ROM			
TEAC	CD-532E	Pass	
FAX/Modem			
LEMEL	33.6 HIGH SPEED MODEM	Pass	Com1,com2 ring up pass
ZIP (ECP/EPP/SPP)			
IOMEGA	ZIP 100M	Pass	
MO			
FUJITSU	MCB3064SS	Pass	
DiskOnChip			
Flushdisk	M-Systems DiskOnChip2000 24M	Pass	

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

Brand	Device Model	Result	Note
Keyboard			
BTC	7932 (USB)	Pass	
LEMEL	KB-5121	Pass	
Mouse			
Microsoft	Serial Mouse	Pass	
Logitech	Mouse Man (PS/2,Serial)	Pass	
DEXIN	A2U800A(USB)	Pass	
Adam (RS-485)			
RS-485	COM2	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
H/W Reset 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
H/W Reset 42 Hours	2444	2437	0.28%	

D. Burn-In Stability Testing

Test Condition: Burn-In Between -10°C ~ 70°C Humidity: 0% ~ 90%

Burn-In 32 Hours

Test Software	Result	Note
AMIDIAD 4.5 32 Hours	Pass	

4. Performance Testing

System Information:

DRAM Type & Capacity	MT 48LC2M8A1TG-10S 32M
VGA Card	On Board (C&T 69000)
HDD TYPE	Fujitsu MPC3032AT
VGA Testing Mode	1024X768X256 colors (For WinStone98 & WinBench98)
O.S.	DOS 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
	Cyrix GXM 200	Cyrix GXM 233	Cyrix GXM 266					
LandMark Speed 2.0								
CPU	853.22	995.43	1288.29					Mhz
FPU	2344.10	2734.8	3516.19					Mhz
VIDEO	15653	13653	13653					Chs/sec
Norton 8.0 SI	529.3	617.5	793.9					ID
Power Meter 2.02	81.3	94.8	123.6					Mips
PcBench 96 CPUmark16	199.78	224.98	289.57					
WinStone 98								
Business Winstone	9.84	10.7	12.8					
High-End Winstone	9.46	10.2	12.3					
Winbench 98								
High-End/Business Graphics WinMark98	50.5/39.6	53.8/40.3	63.4/49.2					MP/s
CPUMark 32	201	225	258					
Coretest								
DTR (Buffered Read)	8352	8432	8432					KB/sec
Performance ID	56.76	57.24	57.24					
WINTech 1.2	184.97	243.40	243.40					
note								

5. Power Consumption Data

PCM-4896 System Information:

DRAM Type & Capacity	NEC D4516821AG5-A10-9NF 32MB*1
VGA Card	Onboard C&T B69000
DOC Type	M-Systems MD-2800-D08
O.S.	DOS V 6.22

PCM-4896L System Information:

DRAM Type & Capacity	NEC D4516821AG5-A10-9NF 32MB*1
VGA Card	Onboard Cyrix GXM
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 for PCM-4896

Mode Type Processor Type	Normal Mode	Standby Mode	Unit
Cyrix GXM200	2.7	1.2	Amp/Max
Cyrix GXM233	2.8	1.2	Amp/Max
Cyrix GXM266	2.6	1.2	Amp/Max

Test Result for PCM-4896L

Mode Type Processor Type	Normal Mode	Standby Mode	Unit
Cyrix GXM200	2.6	1.0	Amp/Max
Cyrix GXM233	2.9	1.0	Amp/Max
Cyrix GXM266	2.5	1.0	Amp/Max

Note :

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

6. Margin Testing

A. Temperature Test (Power On/Off)

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

B. IDE Drive Capability

Test Equipment

Primary IDE Port :

Master Device: HDD Fujitsu MPC3032AT

Slave Device: CD-ROM TEAC CD-532E

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