

AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

SBC-492 **QE Compatibility Test Report**

Release Date: Aug. 11, 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.

AAEON TECHNOLOGY INC.

1F, No.6,Alley 6, Lane 45,Pao-Hsin Rd,
Shing-Tien City, Taipei, Taiwan, ROC

Tel: 886-29121234

Fax: 886-29130792

886-29130774

886-2-9130774

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 6.2V (Japan)	✓		✓		✓		✓		✓	
QNX 4.22 & Wins	✓		✓		✓		✓		✓	
NOVELL 4.11	✓		✓		✓		✓		✓	

B. Microsoft Windows & IBM OS/ 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 (English)	✓		✓		✓		✓		✓		✓	
Windows 95 (Japan)	✓		✓		✓		✓		✓		✓	
Windows Nt4.0w/S (English)	✓		✓		✓		✓		✓		✓	
Windows Nt4.0w/S (Japan)	✓		✓		✓		✓		✓		✓	
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	
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	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	AM486 DX4-100	Pass	On Board
AMD	Am5x86 -133	Pass	

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
NEC	4218165-60 8M EDO RAM	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
SIEMENS	HYB5118165BSJ-60 8M EDO RAM	Pass	
SAMSUNG	KM41C16000BK-6 64M FPM RAM	Pass	
PANASONIC	MN414400BSJ-07 8M FPM RAM	Pass	
PANASONIC	MN4117400BSJ-06 32M FPM RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
HYNDAI	HY5118164BJC-60 8M EDO RAM	Pass	
MITSUBISHI	M5M417400CJ-7 16M FPM RAM	Pass	
MITSUBISHI	M5M418165CJ 8M EDO RAM	Pass	
LGS	GM71C17403CJ6 16M EDO RAM	Pass	

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note
On Board	Trident TGUI9400-1	Pass	

D. Adapter Compatibility- LAN

LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
D-Link	DE 530	Pass	
D-Link	DEF 500TX	Pass	
3COM	FAST ETHER LINK	Pass	
Realtek	RTL8139	Pass	
Intel	82557 - Based	Pass	
SVEC	AM79C970AKC	Pass	
ISA Bus			
Intel	Ether Express PRO/100B	Pass	

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

Brand	Device Model	Result	Note
PCI Bus			
AHA	2940UW	Pass	
ISA Bus			
AHA	1520K	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	
Creative	AWE 64 PnP	Pass	

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

Brand	Device Model	Result	Note
ISA Card			
AAEON	RDM-1010A	Pass	
AAEON	RDM-1020N	Pass	
AAEON	RDM-211A	Pass	
104 Module			
AAEON	PCM-3820C (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3420 (SCSI)	Pass	
AAEON	PCM-3600(FAX/MODEM)	Pass	
AAEON	PCD-896 (SSD)	Pass	

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

Brand	Device Model	Result	Note
Seagate	ST31230N SCSI	Pass	
Seagate	ST32155W/P SCSI	Pass	
Seagate	ST51270A	Pass	
Seagate	ST32132A	Pass	HDD has set to delay 5 Sec.
WD	WDAC22100	Pass	
Quantum	ST 3240	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	
QTRONIX	QX-301H	Pass	
Mouse			
Microsoft	Serial Mouse	Pass	
Logitech	Mouse Man (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
QAPLUS/FE 5.29	Pass	

B. Burn-In Stability Testing

Test Condition: Burn-In Under -40°C~85°C Burn-In 30 Hours

Test Software	Result	Note
AMIDIAD 4.5	Pass	

C. Continuous Burn-In Booting Stability Testing

Test Condition: Burn-In Under Temp.

Test Method	Actual	Successful	Fail Rate	Note
Power On/Off 1000 Times	1000	1000	0%	-40°C~85°C
H/W Reset 1000 Times	1000	1000	0%	-5°C~65°C

4. Performance Testing

SYSTEM INFORMATION:

DRAM Type & Capacity	Siemens 32MB X2		
VGA Card	On Board (Trident)		
HDD TYPE	Quantum ST3240		
VGA Testing Mode	1024X768X256 colors	(For WinStone 96& WinBench 96)	
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
	AM486 DX4-100	Am5X86 133M						
LandMark Speed 2.0								
CPU	333.01	444.02						Mhz
FPU	878.43	1085.35						Mhz
VIDEO	10685	10685						Chs/sec
Norton 8.0 SI	215.0	286.7						ID
Power Meter 2.02	30.9	40.6						Mips
PcBench 96 CPUmark16	90.12	103.61						
WinStone 96								
Business Winstone	27.3	29.1						
WinBench 96								
Graphic WinMark	4.05	8.63						MP/s
CPUmark 32	70.2	72.4						
Coretest 3.02								
DTR (Buffered Read)	1504	1168						KB/sec
Performance ID	15.74	14.087						
Power consumption(+5V in normal mode)	1.80	2.4						A
Note								

5. Power Consumption

System Information:

DRAM Type & Capacity	HY5117400AJ -70 16M*2
VGA Card	On Board (Trident)
DiskOnChip	MD2200-D08
O.S.	DOS Mode

Operating System Environment (DOS Mode)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

Test Software (DOS Mode):

Test Software	Landmark Speed V.2.0(Speed200.exe)
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Test Result:

Mode Type	CPU Type				Unit
	Am5X86 133M				
Normal Mode(+5V)	2.4				amp/max
Suspend Mode(+5V)	0.9				amp/max

Note:

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

6. Margin Testing

A. Temperature Test (Software: AMIDIAG4.5)

Testing Condition	Result	Note
High Temperature Margin (Burn-In 2 Hours)	85°C	
Low Temperature Margin (Burn-In 2 Hours)	-40°C	

B. Temperature Test (Boot Up)

Testing Condition	Result	Note
High Temperature Margin (Burn-In 2 Hours)	85°C	
Low Temperature Margin (Burn-In 2 Hours)	-40°C	

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

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.30 V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.46 V	

D. IDE Drive Capability

Test Equipment

Primary IDE Port:

Master Device: HDD Seagate ST51270A

Slave Device: CD-ROM Vugeo 624A-004

Secondary IDE Port:

Master Device: HDD Quantum ST3240

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	75CM	