

# AAEON

ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

## SBC-411E QE Compatibility Test Report

Release Date: Aug. 17, 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	√		√		√		√		√	
QNX 4.22 & Wins	√		√		√		√		√	
NOVELL 4.11	√		√		√		√		√	
NOVELL 3.12	√		√		√		√		√	

## B Microsoft Windows & IBM O/S 2 Compatibility

Wins / Test Item	Install		Boot		Shutdown		Function		K/B Function		VGA Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
WINDOWS 3.1	√		√		√		√		√		√	
WINDOWS 95	√		√		√		√		√		√	
WINDOWS NT 4.0 W/S	√		√		√		√		√		√	
WINDOWS NT 4.0 SRV	√		√		√		√		√		√	
OS/2 Warp 4.0	√		√		√		√		√		√	

## 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	
ET 3.53	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	Pass	
ET 2000 (For DOS)	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	Pass	

**E. Diagnostics Software Testing**

Test Item / Software	Qafe5.29		Qaplus5.5		Amidiag4.5		Amidiag5.11		Pccheck3.02		Checkit3.0	
	Result	Note	Result	Note	Result	Note	Result	Note	Result	Note	Result	Note
Main Component	Pass		Pass		Pass		Pass		Pass		Pass	
Memory	Pass		Pass		Pass		Pass		Pass		Pass	
Video Adapter	Pass		Pass		Pass		Pass		Pass		Pass	
Floppy Drive	Pass		Pass		Pass		Pass		Pass		Pass	
Hard Drive	Pass		Pass		Pass		Pass		Pass		Pass	
Keyboard	Pass		Pass		Pass		Pass		Pass		Pass	
Com Port	Pass		Pass		Pass		Pass		Pass		Pass	
Lpt Port	Pass		Pass		Pass		Pass		Pass		Pass	
Plug & play	Pass		Pass		Pass		Pass		Pass		Pass	
<b>Note :</b>												

## 2. Hardware Compatibility

### A. Component Compatibility- CPU

#### 486 CPU Device List:

Brand	Device Model	Result	Note
AMD	486DX4-100M	Pass	
AMD	5X86-133 X5	Pass	

### B. Component Compatibility- DRAM SIMM Module

#### DRAM SIMM Module List:

Brand	Device Model	Result	Note
PANASONIC	MN4117400BSJ-06 32M FPM RAM	Pass	
MITSUBISHI	M5M417400CT-7 16M FPM RAM	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
HYNDAI	HY5117400AJ-70 16M FPM RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
SAMSUNG	KM41C16000BK-6 64M FPM RAM	Pass	
NEC	4217405-6 16M EDO RAM	Pass	
SIEMENS	HYB5117405BSJ-60 16M EDO RAM	Pass	
NEC	4217400-60 32M EDO RAM	Fail	

### C. Adapter Compatibility- VGA

#### VGA Adapter List:

Brand	Device Model	Result	Note
ISA Bus			
TopView	ET 4000 ISA	Pass	
AAEON	PCA-6653(C&T 65545)	Pass	

### D. Adapter Compatibility- LAN

#### LAN Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
3COM	FAST ETHER LINK	Pass	
ISA Bus			
3COM	3C509	Pass	
On-board		Pass	Rtl 8019, Rtl 8029.

### E. Adapter Compatibility- SCSI CARD

#### SCSI Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
AHA	1520K ISA	Pass	

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

Brand	Device Model	Result	Note
<b>MPEG Card</b>			
LEMELMagic	MPEG Card	Fail	
<b>Sound Card</b>			
Creative	AWE 32	N/A	
Creative	SB 16 Value PnP	Pass	With ADV 6 slot

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

Brand	Device Model	Result	Note
<b>ISA Card</b>			
AAEON	RDM-1020N	Pass	
AAEON	RDM-1010A	Pass	
<b>104 Module</b>			
AAEON	PCM-3820C (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3420 (SCSI)	Pass	

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

Brand	Device Model	Result	Note
Seagate	ST51270A	Pass	
Seagate	ST32132A	Pass	
Quantum	ST3240AT	Pass	
Quantum	1700AT	Pass	
Maxtor	85120A8	Pass	
WD	WDAC33100-00H	Pass	
IBM	DHEA-34330	Pass	

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

Brand	Device Model	Result	Note
<b>CD/ROM</b>			
Creative	CD 820E	Pass	
VUGEO	624A-004	Pass	
Pioneer	DR-A24X	Pass	
TEAC	CD-532E	Pass	
<b>FAX/Modem</b>			
LEMEL	極速33.6 HIGH SPEED MODEM	Pass	
<b>Printer</b>			
HP	LaserJet III	Pass	

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

Brand	Device Model	Result	Note
<b>Keyboard</b>			
LEMEL	KB-5122	Pass	
LEMEL	5121	Pass	
QTRONIX	QX-301H	Pass	
<b>Mouse</b>			
Logitech	First Mouse	Pass	
Logitech	Mouse Man (PS/2,Serial)	Pass	

### 3. Stability Testing

#### A. Burn-In Stability Testing

Test Condition: Room Temp. 48 hours

Test Software	Result	Note
AMIDIAG4.5	N/A	

#### 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	
H/W Reset 1000 Times	1000	1000	0	

#### C. Burn-In Stability Testing

Test Condition: Burn-In Under Temp. 60°C 48 hours

Test Software	Result	Note
AMIDIAG4.5	Pass	

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

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

Test Method	Actual	Successful	Fail rate	Note
Power On/Off 1000 Times	1000	1000	0	
H/W Reset 1000 Times	1000	1000	0	

## 4. Performance Testing

### System Information:

DRAM Type & Capacity	Panasonic 32MB.		
VGA Card	Cirrus GD5429		
HDD TYPE	Seagate ST51270A(Mode4)		
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
	AMD 5X86-133			
<b>LandMark Speed 2.0</b>				
CPU	444			Mhz
FPU	1171			Mhz
VIDEO	1993			Chs/sec
Norton 8.0 SI	286.7			ID
Power Meter 2.02	40.6			Mips
PcBench 9.0 CPUmark16	101.49			
WinStone 96 1.0	24			
<b>WinBench96</b>				
Graphic WinMark 96	4.27			MP/s
CPUmark 16	106			
CPUmark 32	101			
<b>Coretest 302</b>				
DTR (Buffered Read)	3392			KB/sec
Performance ID	27.42			
WINTech 1.2	39.88			
NOTE				

## 5. Margin Testing

### A. Temperature Test (AMIDIAG 4.5)

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 (AMIDIAG 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.25 V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.6 V	

### D. IDE Drive Capability

Test Equipment :

Primary IDE Port:

Master Device: Quantum ST3240AT

Slave Device: TEAC CD-532E

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

## 6. Power Consumption Data

### System Information:

DRAM Type & Capacity	Panasonic MN4117405CSJ-06 16MB.
VGA Card	Cirrus GD5429
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

Processor Type	Mode Type				Unit
	Normal Mode	Doze Mode	Standby Mode	Suspend Mode	
AMD 5X86-133	2.4	1.4	1.2	0.8	Amp/Max

Note :

- 1.Power supply voltage : +5V.
- 2.Normal model is measured while open system.
- 3.Doze Model VGA controller is still enabled.
- 4.Standby Model VGA controller is still enabled.
- 5.Suspend Model all function off.