

# AAEON

ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

## SBC-554/555 Compatibility Test Report

Release Date: AUG. 25, 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)	85°C	
Low temperature Margin (Burn-In 2 Hours)	-40°C	

## B. DC Voltage Test (AMIDIAG 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.6V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.4V	

## C. IDE Drive Capability

### Test Equipment

#### Primary IDE:

Master Device: HDD Seagate ST51270A

Slave Device: CD-ROM Philips PCA123CD

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	999	0.1%	
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	999	0.1%	
H/W Reset 1000Times	1000	999	0.1%	

### 3. Performance Testing

#### System Information:

DRAM Type & Capacity	SEC 16MBX2
VGA Card	OnBoard (C&T65554)
HDD TYPE	QUANTUM 840AT(Mode3)
VGA Testing Mode	640x480x256c colors (For WinStone & WinBench)
O.S.	DOS Ver: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
	Intel MMX-233	Cyrix M2-200	AMD K6-233	AMD K6-266	AMD K6-300	AMD K6/2 300	
<b>LandMark Speed2.0</b>							
CPU	1521.68	2061.04	2385.50	2726.30	3067.11	3067.11	Mhz
FPU	4652.66	2386.79	3807.41	4351.30	4895.23	4895.23	Mhz
VIDEO	6779	8057	6779	6779	6779	6779	Chs/sec
Norton 8.0 SI	789.5	1127.4	N/A	1578	N/A	N/A	ID
Power Meter 2.02	118.5	113.8	167.3	189.6	218.8	218.8	Mips
<b>WinStone 98</b>							
Business Winstone	18.7	18.4	19.8	20.7	21.3	21.4	
High-End Winstone	20.6	19.9	21.5	Fail	23.7	23.9	
<b>WinBench 98</b>							
High-End Graphic Winmark	109	118	116	127	133	133	MP/s
Business Graphic Winmark	73.5	81.6	79.9	85.7	89.3	90.7	
CPUmark 32	414	417	496	529	553	52.3	
<b>Cortest 3.02</b>							
DTR (Buffered Read)	13168	12608	13440	14592	14576	14576	KB/sec
Performance ID	84.85	81.51	86.54	93.32	93.23	93.3	

## 4. Power Consumption Data

### System Information:

DRAM Type & Capacity	KOREA HY57V168010D 32MB
VGA Card	OnBoard C&T 65554
Floppy	Teac FD-235HF
VGA Testing Mode	640x480x16 colors
O.S.	DOS 6.22

### Operating System Environment (DOS Only)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb 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	Unit
<b>Processor Type</b>			
Cyrix M2 PR-200	6.8	1.6	Amp/Max
Pentium MMX-233	4.8	1.8	Amp/Max
AMD K6-233	8.4	1.6	Amp/Max
AMD K6-266	3.4	1.6	Amp/Max
AMD K6-300	4.2	1.6	Amp/Max
AMD K6/2-300	4.5	1.6	Amp/Max

#### Note :

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

## 5. Hardware Compatibility

### A. Component Compatibility- CPU

#### 586 CPU Device List:

Brand	Device Model	Result	Note
Intel	Pentium MMX-233	Pass	
Cyrix	M2-200	Pass	
AMD	K6-233	Pass	
AMD	K6-266	Pass	
AMD	K6-300	Pass	
AMD	K6/2-300	Pass	

### B. Component Compatibility- DRAM SIMM Module

#### DRAM SIMM Module List:

Brand	Device Model	Result	Note
SAMSUNG	KM41C16000 BK-6 64M	Pass	
PANASONIC	MN4117400BSJ-06 32M	Pass	
MITSUBISHI	M5M417400CT-7 16M	Pass	
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
HYUNDAI	HY5117400AJ-70 16M	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
SAMSUNG	KM44C4104AK-6 16M EDO RAM	Pass	
VANGUARD	VG264400BJ-6 8M	Pass	
NEC	424400-70 4M	Pass	

### C. Adapter Compatibility- VGA

#### VGA Adapter List:

Brand	Device Model	Result	Note
PCI BUS			
ON-BOARD	CHIPS 65554	Pass	

### D. Adapter Compatibility- LAN

#### LAN Adapter List:

Brand	Device Model	Result	Note
PCI BUS			
D-Link	DE-530	Pass	
3COM	FAST ETHER LINK	Pass	
Intel	Ether Express PRO/100B	Pass	
ISA BUS			
SVAC	ETHER 16	Pass	

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

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

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

Brand	Device Model	Result	Note
<b>MPEG Card</b>			
LEMEL	MPEG Card	Pass	
<b>Sound Card</b>			
Creative	SB 16 Value PNP	Pass	

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

Brand	Device Model	Result	Note
<b>ISA CARD</b>			
AAEON	RDC-1020N	Pass	
AAEON	RDC-1010A	Pass	
AAEON	RDC-211A	Pass	
<b>104 Module</b>			
AAEON	PCM-3115(PCMCIA 2 SLOTS)	Pass	
AAEON	PCM-3600(FAX/MODEM)	Pass	
AAEON	PCM-3820 rev. C (SSD)	Pass	
AAEON	PCM-3820C (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3660 (ETHERNET)	Pass	
AAEON	PCM-3420 (SCSI)	Pass	
AAEON	PCM-3200(SOUND)	Pass	

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

Brand	Device Model	Result	Note
Quantum	840AT	Pass	
Fujitsu	M1638TAU	Pass	
Seagate	ST32132A	Pass	
Seagate	ST51270A	Pass	
Seagate	ST51270A	Pass	
WD	WDAC22100-00H	Pass	
Quantum	FB1280AT	Pass	



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

Brand	Device Model	Result	Note
<b>CD-ROM</b>			
<b>Philips</b>	PCA123CD	Pass	
<b>Creative</b>	CD 820E	Pass	

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

Brand	Device Model	Result	Note
<b>Keyboard</b>			
<b>BTC</b>	5140	Pass	
<b>ACER</b>	6511	Pass	
<b>Mouse</b>			
<b>Microsoft</b>	Serial Mouse	Pass	
<b>IBM</b>	PS/2 Mouse	Pass	
<b>Logitech</b>	First Mouse	Pass	
<b>Logitech</b>	MouseMan (PS/2,Serial)	Pass	

## 5. Software Compatibility

### A. O.S. Compatibility

O.S. / Test Item	Install		Boot		Shutdown		Function		Keyboard Function	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
MS-DOS 6.22	✓		✓		✓		✓		✓	
QNX 4.22 & Wins	✓		✓		✓		✓		✓	
NOVELL 4.11	✓		✓		✓		✓		✓	

### 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	✓		✓		✓		✓		✓		✓	
WINDOWS 95	✓		✓		✓		✓		✓		✓	
WINDOWS NT 4.0	✓		✓		✓		✓		✓		✓	
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	
Coreldraw 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	Pass	16 * 15 Font Mode
	Pass	24 * 24 Font Mode
ET 2000 (For DOS)	Pass	16 * 15 Font Mode
	Pass	24 * 24 Font Mode

### E. Diagnostics Software Testing

Test Item / Software	Qafe5.29		Qaplus4.8		Amidiag4.5/5.1		Checkit3.0	
	Result	Note	Result	Note	Result	Note	Result	Note
<b>MAIN COMPONENT</b>	Pass		Pass		Pass		Pass	
<b>MEMORY</b>	Pass		Pass		Pass		Pass	
<b>VIDEO ADAPTER</b>	Pass		Pass		Pass		Pass	
<b>FLOPPY DRIVE</b>	Pass		Pass		Pass		Pass	
<b>HARD DRIVE</b>	Pass		Pass		Pass		Pass	
<b>KEYBOARD</b>	Pass		Pass		Pass		Pass	
<b>COM PORT</b>	Pass		Pass		Pass		Pass	
<b>LPT PORT</b>	Pass		Pass		Pass		Pass	