

AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

SBC-570 **QE Compatibility Test Report**

Release Date: Aug. 09, 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	✓		✓		✓		✓		✓	
QNX 4.22 & Wins		✓	✓		✓		✓		✓	
NOVELL 3.12	✓		✓		✓		✓		✓	

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		N/A	
Windows 95 (English)	✓		✓		✓		✓		✓		N/A		N/A	
Windows Nt4.0 w/S (English)	✓		✓		✓		✓		✓		N/A		N/A	
Windows Nt4.0 Server (English)	✓		✓		✓		✓		✓		N/A		N/A	
OS/2 Warp 3.0	✓		✓		✓		✓		✓		N/A		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	
Word Perfect 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	
Core IDRAW 5.0E2	Pass		Pass	
Power Point 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	
TELEX 3.2X	Pass	
ET 3.53	Pass	

ET 2000 (For DOS)	Pass	
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E. Diagnostics Software Testing

Test Item / Software	Qafe5.29		Amidiag4.5		Qaplus4.8					
	Result	Note	Result	Note	Result	Note	Result	Note	Result	Note
Main Component	Pass		Pass		Pass					
Memory	Pass		Pass		Pass					
Video Adapter	Pass		Pass		Pass					
Floppy Drive	Pass		Pass		Pass					
Hard Disk Drive	Pass		Pass		Pass					
Keyboard	Pass		Pass		Pass					
COM Port	Pass		Pass		Pass					
LPT Port	Pass		Pass		Pass					
Plug & Play	Pass		Pass		Pass					
Note :										

2. Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Result	Note
Intel	Pentium 100	Pass	
Intel	Pentium 133	Pass	
Intel	Pentium 166	Pass	
Intel	Pentium 200	Pass	
Intel	Pentium 200 MMX	Pass	
AMD	5K86 75	Pass	
AMD	5K86 100	Pass	
Cyrix	6X86 100M	Pass	
Cyrix	6X86 120M	Pass	
Cyrix	6X86 133M	Pass	

B. Component Compatibility- DRAM SIMM Module

DRAM SIMM Module List:

Brand	Device Model	Result	Note
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
HITACHI	HM5118165AJ6R 8M EDO RAM	Pass	
VANGUARD	VG264400BJ-6 8M	Pass	
NEC	424100-70 16M	Pass	
NEC	424400-70L 8M/NEC 421000-7PR	Pass	
NEC	424400-70 8M(*4)EDP RAM	Pass	
NEC	4217405-60 16M EDO RAM	Pass	
NEC	424100-70 16M	Pass	
NEC	4218165-60 4M	Pass	
TOSHIBA	TC514256AJJ-70 1M	Pass	

C. Adapter Compatibility- VGA Card

VGA Adapter List:

Brand	Device Model	Result	Note
PCI Bus			
CARDEX	ET-6000	Pass	
TopView	ET 4000 W32P	Pass	
TopView	S3 Trio64 V2	Pass	
ATI	MACH 64	Pass	
CIRUS	GD5429	Pass	
ISA Bus			
TopView	ET 4000 ISA	Pass	

D. Adapter Compatibility- LAN Card**LAN Adapter List:**

Brand	Device Model	Result	Note
PCI Bus			
3COM	3C595	Pass	
3COM	3C590	Pass	
Intel	Ether Express PRO/100B	Pass	
ISA Bus			
3COM	3C509	Pass	
D-LINK	DE-220PCT	Pass	
Novell	NE2000+	Pass	

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

Brand	Device Model	Result	Note
ISA Bus			
AHA	1542 CF	Pass	
On Board	Adaptec 7880P	Pass	

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

Brand	Device Model	Result	Note
ISA Bus			
Creative	SB 16 Value PnP	Pass	
Creative	AWE64 PnP	Pass	

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

Brand	Device Model	Result	Note
MPEG CARD			
LEMEL Magic	MPEG Card	Pass	

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

Brand	Device Model	Result	Note
Maxtor	7540AT	Pass	
Maxtor	71336AP	Pass	
Conner	CFS425A	Pass	
Quantum	TB540S	Pass	

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

Brand	Device Model	Result	Note
CD-ROM			
Creative	CD 820E	Pass	
NEC	CDR-210	Pass	
NEC	CDR1400A	Pass	
Panasonic	DR-U124X SCSI	Pass	
FAX/Modem			
E-TEC	E288MX	Pass	
Tape Streamer			
HP	LaserJet III	Pass	

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

Brand	Device Model	Result	Note
Keyboard			
BTC	5140	Pass	
ACER	6511	Pass	
Chicony	KB-5311	Pass	
Mouse			
Microsoft	Serial Mouse	Pass	
IBM	PS/2 Mouse	Pass	
Logitech	First Mouse SUPER	Pass	
Logitech	First Mouse	Pass	
Logitech	MouseMan (PS/2,Serial)	Pass	
Logitech	T-CH11	Pass	
Logitech	TracMan Marble	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
Power On/Off 1000 Times	1000	1000	0%	
H/W Reset 1000 Times	1000	1000	0%	
KB Reset 20 Times	20	20	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 1000 Times	1000	1000	0%	
H/W Reset 1000 Times	1000	1000	0%	

4. Performance Testing

System Information:

DRAM Type & Capacity	Panasonic 32MB * 2
VGA Card	S3 968
HDD TYPE	Segate ST51270A (Mode4)
VGA Testing Mode	640*480*256 colors (For WinStone & WinBench)
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
	Pentium 166	Pentium 200	Cyrix 6x86-133					
LandMark Speed 2.0								
CPU	958.65	1150.39	1328.57					Mhz
FPU	3218.15	3861.85	1441.53					Mhz
VIDEO	17554	17554	17554					Chs/sec
Norton 8.0 SI	526.3	631.6	747.5					ID
Power Meter 2.02	81.3	94.8	74.5					Mips
WinStone 96								
WinStone 96 1.0	80.7	79.8	69.7					
WinBench 96								
Graphics WinMark96	22.1	24.8	19.9					MP/s
CPUMark 16	326	361	258					
CPUMark 32	323	367	264					
Coretest 3.02								
DTR (Buffered Read)	11712	10752	8240					KB/sec
Performance ID	75.32	69.55	54.65					
Note								

5. Power Consumption Data

System Information:

DRAM Type & Capacity	MN4117405CSJ-06 *2
VGA Card	S3 86C968-P
DiskOnChip	MD2200-DO8
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 Processor Type	Normal Mode	Suspend Mode	Unit
Pentium 166	4.7	2	Amp/Max
Pentium 200	5	2.1	Amp/Max
Cyrix 6X86 133	6.6	1.8	Amp/Max

Note:

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

6. Margin Testing

A. Temperature Test (Software: Amidiag 4.5)

Testing Condition	Result	Note
High temperature Margin (Burn-In 2 Hours)	70°C	
Low temperature Margin (Burn-In 2 Hours)	-40°C	

B. DC Voltage Test (Software: Amidiag 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.4V	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.4V	

C. IDE Drive Capability

Test Equipment

Primary IDE Port:

Master Device: HDD WD WDAC22100

Slave Device: CD-ROM CREATIVE CD820E

Secondary IDE Port:

Master Device: HDD MAXTOR 72700AP

Slave Device: HDD Seagate ST51270A

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