

# SBC-490B QE Compatibility Test Report

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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  $N/A^{\cdot}$  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)	<b>75</b> ℃	
Low temperature Margin (Burn-In 2 Hours)	-35℃	

#### **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)	4.6V	

#### C. IDE Drive Capability Test Equipment Primary IDE Port

Master Device: HDD Fujitsu M1638TAU Slave Device: CD-ROM Creative CD820E

#### **Secondary IDE Port**

Master Device: HDD Segate ST32132A Slave Device: HDD Segate ST51270A

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

## 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	1000	0%	
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℃

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

# 3. Performance Testing

#### **System Information:**

DRAM Type & Capacity	16 MB
VGA Card	OnBoard (C&T 65545)
HDD TYPE	Seagate 51080A
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	Prompt \$p\$g	
dos=high	c:\dos\smartdrv.exe /x	
files=35		
Buffers=40		

#### **Testing Software**

			CPU Con	figuration			
Testing Utility	AMD	AMD	Cyrix			Unit	
	5X86-133	DX4-100	5X86-100				
LandMark Speed 2.0	andMark Speed 2.0						
CPU	443.99	332.97	414.04			Mhz	
FPU	1171.10	878.26	1111.81			Mhz	
VIDEO	10685.00	10685.00	10685.00			Chs/sec	
Norton 8.0 SI	286.7	215.0	131.4			ID	
Power Meter 2.02	42.4	32.0	27.6			Mips	
PcBench 9.0 CPUmark16	100.05	83.01	76.64				
H.E. WinStone 96 1.0	32	18.7	10				
WinBench 96 Ver 1.0							
Graphic WinMark 96	4.54	2.48	2.57			MP/s	
CPUmark 16	92.1	61.3	34.5				
CPUmark 32	87.8	58.6	35.1				
Coretest 3.02							
DTR (Buffered Read)	1280	1280	1232			KB/sec	
Performance ID	13.11	11.54	12.83				
WINTECH 1.2	4.78	3.64	4.01				
Power consumption	1.90	1.83	1.84			Α	
(+5V in normal mode)							
Note							

## 4. Hardware Compatibility

#### A. Component Compatibility- CPU

#### **486 CPU Device List:**

Brand	Device Model	Result	Note
Intel	486DX4-100M	Pass	
Cyrix	486DX2-66M	Pass	
Cyrix	486DX2-80M	Pass	
AMD	486DX4-100M	Pass	
ST	486DX4-100(33M)	Pass	

# **B. Component Compatibility- DRAM SIMM Module DRAM SIMM Module List:**

Brand	Device Model	Result	Note
TOSHIBA	TC514256AJ-70 1M	Pass	
MITSUBISH	M5M417400CT-7 16M	Pass	
SIEMENS	HYB5117405BJ-60 32M EDO RAM	Pass	
NPNX	NN514405J-60 8M EDO RAM	Pass	
VITELIC	V53C408HK45 8M EDO RAM	Pass	
NEC	424100-70 16M	Pass	
NEC	424400-70 4M(x 2)	Pass	
NEC	4244-70L 8M/NEC 421000-7PR	Pass	

#### C. Adapter Compatibility- LAN

#### LAN Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
3COM	3C509	Pass	
Novell	NE2000 +	Pass	

# D. Adapter Compatibility- Industry Control Card Industry Control Adapter List:

THURST J C	oner or real peer Elist.		
Brand	Device Model	Result	Note
104 Module		_	
AAEON	PCM-3820 rev. C (SSD)	Pass	
AAEON	PCM-3810 (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3600(FAX/MODEM)	Pass	
AAEON	PCM-3115(PCMCIA 2 SLOTS)	Pass	

# E. Peripheral Compatibility-HDD Device

#### **HDD List:**

Brand	Device Model	Result	Note
Maxtor	7850AV 850M	Pass	
Segate	ST3851A	Pass	

# F. Peripheral Compatibility- Storage Device Device List:

Brand	Device Model	Result	Note
CD/ROM			
VUGED	612A-004	Pass	

# G. Peripheral Compatibility- Input Device

### **Input Device List:**

Brand	Device Model	Result	Note
Keyboard			
Chicony	KB-5311	Pass	
Mouse		_	
IBM	PS/2 Mouse	Pass	
Logitech	First Mouse SUPER	Pass	
Logitech	TracMan Marble	Pass	
Logitech	First Mouse	Pass	
Logitech	MouseMan (PS/2,Serial)	Pass	
Logitech	USB MOUSE	Pass	

# **5. 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 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	✓		✓			✓	✓		<b>✓</b>		N/A	
Windows NT 4.0 SRV	✓		✓		✓		✓		✓		N/A	
OS/2 Warp 3.0	<b>✓</b>		✓		<b>✓</b>		✓		✓		N/A	

#### C. Windows Application

Application / Test Item	Ins	stallation	Fun	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**

	<u> </u>		
Application / Test Result		Result	Note
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 /	QAF	QAFE5.29		AMIDIAG4.5		AMIDIAG5.1		KIT3.0
Software	Result	Note	Result	Note	Result	Note	Result	Note
Main Component	Pass		Pass		Pass		Pass	
Memory	Pass		Pass		Pass		Pass	
Video Adapter		Fail	Pass		Pass		Pass	
Floppy Drive	Pass		Pass		Pass		Pass	
Hard Drive	Pass		Pass		Pass		Pass	
Keyboard	Pass		Pass		Pass		Pass	
COM Port	Pass		Fail		Fail		Pass	
LPT Port	Pass		Pass		Pass		Pass	
Plug & play	Pass		Pass		Pass		Pass	