AAEON

ISO-9001/ISO-14001 Certified
Industrial Automation PCs

SBC-355N
QE Compatibility Test Report

Release Date: Aug. 23, 1999

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Issue Stamp   **QA Manager**   **QE Manager**   **Test Engineer**

Contents

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)	75℃	
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)	4.4V	

C. IDE Drive Capability
Test Equipment:

Master Device: HDD Quantum FB1280A
Slave Device: CD-ROM Creative CD620E

Testing Condition	Result	Note
Primary IDE Port Flat-Cable Length Margin	7.5CM	
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	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	PCM-3520 A1 (CHIPS F65535 A)
HDD TYPE	Seagate ST31275A
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 pg c:\dos\smartdrv.exe /x

Testing Software

Testing Utility	CPU Configuration					Unit
	ALI 6117B					Unit
LandMark Speed 2.0						
CPU	36.85					Mhz
FPU	N/A					Mhz
VIDEO	1837					Chs/sec
Norton 8.0 SI	32.9					ID
Power Meter 2.02	4.8					Mips
PcBench 9.0 CPUmark16	20.25					
H.E. WinStone 96 1.0	7.3					
WinBench 96 Ver 1.0						
Graphic WinMark 96	1.14					MP/s
CPUmark 16	20.8					
CPUmark 32	23.9					
Coretest 3.02						
DTR (Buffered Read)	2528					KB/sec
Performance ID	19.27					
WINTECH 1.2	1.91					
Power consumption (+5V in normal mode)	6.8					A
NOTE						

4. Hardware Compatibility

A. Component Compatibility- CPU
CPU Device List:

Brand	Device Model	Result	Note
ALI	6117B	Pass	

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

Brand	Device Model	Result	Note
NEC	4217400-60 16M FPM	Pass	
NEC	424100-70 16M FPM	Pass	
NEC	D424400-70L 4M(X2) FPM	Pass	
SIEMENS	HYB5117400JC-70 16M RAM FPM	Pass	
SAMSUNG	KM44C4000AK-6 16M RAM FPM	Pass	
MITSUBISH	M5M417400CJ 16M RAM FPM	Pass	

C. Adapter Compatibility- VGA
VGA Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
Topview	Et 4000 ISA	Fail	
AAEON	Pca-6642 (ET4000W32I)	Pass	
On Board	Chips 65545	Pass	

D. Adapter Compatibility- LAN
LAN Adapter List:

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

E. Adapter Compatibility- SCSI CARD
SCSI Adapter List:

Brand	Device Model	Result	Note
ISA BUS			
AHA	1542CF	Pass	

F. Adapter Compatibility- Industry Control Card
Industry Control Adapter List:

Brand	Device Model	Result	Note
104 Module			
AAEON	PCM-3810 (SSD)	Pass	
AAEON	PCM-3110 (PCMCIA MASTER)	Pass	
AAEON	PCM-3600(FAX/MODEM)	Pass	
AAEON	PCM-3115(PCMCIA 2 SLOTS)	Pass	

G. Peripheral Compatibility-HDD Device
HDD List:

Brand	Device Model	Result	Note
Conner	CFS425A 425M	Pass	
WD	22100	Pass	
Fujitsu	M1638TAU	Pass	
Quantum	850AT	Pass	
Quantum	TB540S SCSI	Pass	
Maxtor	7540AV 540M	Pass	
Segate	5151270A	Pass	
Segate	ST32132A	Pass	

H. Peripheral Compatibility- Storage Device
Device List:

Brand	Device Model	Result	Note
CD/ROM			
Creative	CD 820E	Pass	
PHILIPS	PCA123CD	Pass	
WUEGD	612A-00 PX	Pass	

I. Peripheral Compatibility- Input Device
Input Device List:

Brand	Device Model	Result	Note
Keyboard			
FOCUS	101KB	Pass	
Mouse			
IBM	PS/2 Mouse	Pass	
Logitech	First Mouse	Pass	
Logitech	MouseMan (PS/2,Serial)	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		K/B Function		VGA Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Windows 3.1	✓		✓		✓		✓		✓		N/A	
Windows 95	✓		✓		✓		✓		✓		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	
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	
ET 3.53	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	N/A	
ET 2000 (For DOS)	16 * 15 Font Mode	Pass	
	24 * 24 Font Mode	N/A	

E. Diagnostics Software Testing

Test Item / Software	QAFE5.29		AMIDIAG4.5/5.1		CHECKIT3.0			
	Result	Note	Result	Note	Result	Note		
Main Component	Pass		Pass		Pass			
Memory	Pass		Pass		Fail			
Video Adapter	Pass		Pass		Pass			
Floppy Drive	Pass		Pass		Pass			
Hard Drive	Pass		Pass		Pass			
Keyboard	Pass		Pass		Pass			
LPT Port	Pass		Pass		Pass			