



AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

SBC-357.A1/4M

QE Compatibility Test Report

Release Date :Dec. 03, 1999

Issue Stamp

QA Manager

QE Manager

Test Engineer

Summary of contents :

1. Cover Sheet	1
2. Summary of contents	2
3. Margin	3
Includes temperature, DC voltage and IDE cable length tests.	
4. Stability	4
Includes burn-in and booting tests .	
A. Burn-In Testing(25°C/24hrs).....	4
B. Burn-In Testing(Climatic Sequence/48hrs).....	4
C. Booting Testing(25°C).....	4
D. Booting Testing(Damp Heat,Cyclic/24hrs).....	4
5. Performance	5
Includes performance indexes using various performance test software programs .	
6. Power consumption data	6
Includes +5V current rate .	
7. Hardware compatibility	7
Includes CPU , DRAM , adapter card and HDD compatibility tests.	
A. Component Compatibility- CPU.....	7
B. Adapter Compatibility- LAN.....	7
C. Adapter Compatibility- Other Card.....	7
D. Adapter Compatibility- Industry Control Card.....	7
E. Adapter Compatibility- HDD Device.....	7
F. Peripheral Compatibility- Storage Device.....	8
G. Peripheral Compatibility- Others.....	8
H. Peripheral Compatibility- Input Device.....	8
8. Software compatibility	9
Includes various OS and application software tests.	
A. O.S. Compatibility- QNX R4.22 &Windows.....	9
B. O.S. Compatibility- Windows 3.1.....	10
C. O.S. Compatibility- DOS and DOS Utility Compatibility Testing.....	11

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

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: 0.5t (09/09/1999,A1)
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> OnBoard <input type="checkbox"/> CHIPS 65545 B2
DOC Type	M-System DOC2000 <input type="checkbox"/> 4MB <input checked="" type="checkbox"/> 8MB <input type="checkbox"/> 16MB <input type="checkbox"/> 24MB <input type="checkbox"/> __MB

Test Result:

High Temperature: 2 Hours			
Testing CPU: Ali M6117C	<input type="checkbox"/> COM1 LB	<input type="checkbox"/> COM2 LB	<input type="checkbox"/> LPT LB
Test Program:	<input checked="" type="checkbox"/> QAPLUS/FE V5.29	<input type="checkbox"/> AMIDIAG V4.50	
<input checked="" type="checkbox"/> 55°C	<input checked="" type="checkbox"/> 60°C	<input checked="" type="checkbox"/> 65°C	<input checked="" type="checkbox"/> 70°C <input type="checkbox"/> 75°C <input type="checkbox"/> 80°C <input type="checkbox"/> 85°C

Low Temperature: 2 Hours			
Testing CPU: Ali M6117C	<input type="checkbox"/> COM1 LB	<input type="checkbox"/> COM2 LB	<input type="checkbox"/> LPT LB
Test Program:	<input checked="" type="checkbox"/> QAPLUS/FEV5.29	<input type="checkbox"/> AMIDIAG V4.50	<input checked="" type="checkbox"/> 5°C <input checked="" type="checkbox"/> 0°C
<input checked="" type="checkbox"/> -5°C	<input checked="" type="checkbox"/> -10°C	<input type="checkbox"/> -15°C	<input type="checkbox"/> -20°C <input type="checkbox"/> -25°C <input type="checkbox"/> -30°C <input type="checkbox"/> -35°C <input type="checkbox"/> -40°C

High Voltage: 2 Hours/25°C			
Testing CPU: Ali M6117C	<input type="checkbox"/> COM1 LB	<input type="checkbox"/> COM2 LB	<input type="checkbox"/> LPT LB
Test Program:	<input checked="" type="checkbox"/> QAPLUS/FE V5.29	<input type="checkbox"/> AMIDIAG V4.50	
<input checked="" type="checkbox"/> A Grade: 5.20V	<input checked="" type="checkbox"/> B grade: 5.25V	<input checked="" type="checkbox"/> C Grade: 5.30V	<input type="checkbox"/> D Grade: 5.35V <input type="checkbox"/> E Grade: 5.4V

Low Voltage: 2 Hours/25°C			
Testing CPU: Ali M6117C	<input type="checkbox"/> COM1 LB	<input type="checkbox"/> COM2 LB	<input type="checkbox"/> LPT LB
Test Program:	<input checked="" type="checkbox"/> QAPLUS/FE V5.29	<input type="checkbox"/> AMIDIAG V4.50	
<input checked="" type="checkbox"/> A Grade: 4.80V	<input checked="" type="checkbox"/> B grade: 4.75V	<input checked="" type="checkbox"/> C Grade: 4.70V	<input checked="" type="checkbox"/> D Grade: 4.65V <input checked="" type="checkbox"/> E Grade: 4.6V

2 . Stability Testing

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard Qty: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: 0.5t (09/09/1999,A1)
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> OnBoard <input type="checkbox"/> CHIPS 65545 B2
DOC Type	M-System DOC2000 <input type="checkbox"/> 4MB <input checked="" type="checkbox"/> 8MB <input type="checkbox"/> 16MB <input type="checkbox"/> 24MB <input type="checkbox"/> __MB

A. Burn-In Testing (24Hours)

Test Condition : Under Room Temp. 25°C

Test Software	Pass	Fail	Note
QAPlus/FE V5.29	✓		

B. Burn-In Testing (48 Hours)

Test Condition : Burn-In Under Temp. -10°C ~70°C (IEC-68-2-61)

Test Software	Pass	Fail	Note
QAPlus/FE V5.29	✓		

C. Booting Testing

Test Condition : Under Room Temp. 25°C

Test Method	Actual	Successful	Failure rate	On time	Off Time	Note
Power On/Off 1000Times	1000	1000	0 %	27 Sec	9 Sec	
KB Reset 20 Times	20	20	0 %	13 Sec	3 Sec	

D. Burn-In Booting Testing (24 Hours)

Test Condition : Burn-In Under Temp. -10°C ~70°C (IEC-68-2-30)

Test Method	Actual	Successful	Failure rate	On time	Off Time	Note
Power On/Off	2337	2337	0 %	29 Sec	11 Sec	

3 . Performance Testing

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard Qty: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: 0.5t (09/09/1999,A1)
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> OnBoard <input type="checkbox"/> CHIPS 65545 B2
VGA Memory	<input type="checkbox"/> 256K <input type="checkbox"/> 512K <input checked="" type="checkbox"/> 1M <input type="checkbox"/> 2M <input type="checkbox"/> 4M <input type="checkbox"/>
HDD Type	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> Fuj <input checked="" type="checkbox"/> WD :AC26400
Testing Feature	<input type="checkbox"/> 32 bits Transfer <input checked="" type="checkbox"/> Block Mode <input type="checkbox"/> DMA Mode
Driver or Utility	<input checked="" type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

Operating System Environment (DOS Mode)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

Testing Software

Testing Utility	CPU Configuration					Unit
	Ali M6117C					
LandMark Speed 2.0						
CPU	32.26					MHz
FPU	N/A					MHz
VIDEO	4509					Chs/sec
Norton 8.0						
SI	24.1					ID
Power Meter 2.02						
MIPS Test	3.5					Mips
Coretest V3.02						
DTR (Buffered Read)	2080					KB/Sec
Performance ID	19.08					
Wintech V1.2						
Overall WinTach RPM	1.54					

4 . Power Consumption

System Information:

DRAM Type & Capacity	MOSEL V53C518160OAK50 ON BOARD
VGA Card	CHIPS F65545 B2
DOC or Floppy	M-Systems MD-2200-D24
O.S.	DOS 6.22

Operating System Environment (DOS Mode)

Config.sys	Autoexec.bat
Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40	Prompt \$p\$g c:\dos\smartdrv.exe /x

Test Software (DOS Mode):

Test Software	Landmark Speed V.2.0(Speed200.exe)
---------------	------------------------------------

Test Result:

Mode Type	CPU Type				Unit
	Ali M6117C				
Normal Mode(+5V)	1				amp/max
Suspend Mode(+5V)	0.6				amp/max

Note :

- 1.In STANDBY Mode all function are off.

5 . Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Pass	Fail	Note
Ali	AliM6117C	✓		

B. Adapter Compatibility- LAN Card

Action:

1. Load ODI Driver (Lsl,lpxodi,Vlm Or Netx)	2. Login To Server System
3. Transfer Data Between SRV And WK(Mulity Task)	4. logout

LAN Adapter List:

Brand	Device Model	Pass	Fail	Note
3COM	3C509 ISA	✓		
SVEC	Intel PILA 8560 ISA (10/100Mbps)	✓		
Realtek	RTL 8019A ISA	✓		

C. Adapter Compatibility- Other Card

Adapter Card List:

Brand	Device Model	Pass	Fail	Note
Sound Card				
Creative	SB16 PNP/CT2980 ISA	✓		

D. Adapter Compatibility- Industry Control Card

Industry Control Adapter List:

Brand	Device Model	Pass	Fail	Note
ISA CARD				
AAEON	RDC-1020N	✓		
104 Module				
AAEON	PCM-3115(PCMCIA 2 SLOTS)	✓		
AAEON	PCM-3820 rev. C (SSD)	✓		
AAEON	PCM-3820C (SSD)	✓		
AAEON	PCM-3110 (PCMCIA MASTER)	✓		
AAEON	PCM-3660 (ETHERNET)	✓		
AAEON	PCM-3200(SOUND)	✓		

E. Peripheral Compatibility-HDD Device

HDD List:

Brand	Device Model	Pass	Fail	Note
WD	AC26400 6.4GB 5400RPM	✓		
Quantum	TM17A012 (1.7G)	✓		
Maxtor	83240D4	✓		

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

Brand	Device Model	Pass	Fail	Note
CD-ROM				
TEAC	IDE CD-532E W/A 32X	✓		
SAMPO	CDM-T631 36X	✓		
Pioneer	DVD-A035	✓		
ZIP				
IOMEGA	ZIP 100MB Parallel Port	✓		
LS-120				
LS-120	LKM-F934-1	✓		
Fax/Modem				
LEMEL	33.6 FAX/MODEM	✓		
Cyber Lander	56K	✓		

G. Peripheral Compatibility- Others**Device List:**

Brand	Device Model	Pass	Fail	Note
RS-485 Port				
ADAM	ADAM-4011	✓		
Parallel Port				
IOMEGA	ZIP 100MB Parallel Port	✓		
EPSON	COLOR 740	✓		
IR Port				
ACTiSYS	ACT-IR210L		✓	Can't not link

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

Brand	Device Model	Pass	Fail	Note
Keyboard				
ACER	6511-TW	✓		
LEMEL	5121	✓		
Mouse				
IBM	PS/2 Mouse	✓		
Logitech	First Mouse	✓		

6 . Software Compatibility

A. O.S. Compatibility-QNX R4.22 & Windows

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard
Cache Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input type="checkbox"/> PB <input type="checkbox"/> 128K <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/>
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: AMI Ver: 0.5t
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CHIPS F65545 B2 <input checked="" type="checkbox"/> BIOS: 65540/545 VGA
VGA Memory Capacity & Brand	Brand: NEC 424260-70 <input type="checkbox"/> 60ns <input checked="" type="checkbox"/> 70ns <input type="checkbox"/> ns <input type="checkbox"/> DRAM <input checked="" type="checkbox"/> VRAM <input type="checkbox"/> <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input checked="" type="checkbox"/> 1M <input type="checkbox"/> 2M <input type="checkbox"/> 4M <input type="checkbox"/>
CPU Type	Ali M6117C
HDD Type	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input checked="" type="checkbox"/> Qua <input type="checkbox"/> Fuj :TM17A012
CD-ROM Type	<input type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input checked="" type="checkbox"/> TEAC : IDE CD-532E 32X
Driver or Utility	<input checked="" type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

Test Results:

Test Item	Pass	Fail	Note
Installation From FDD			
Install to IDE HDD	✓		Testing CPU: Ali M6117C
SCSI HDD with AHA-1542 <input type="checkbox"/> CP <input type="checkbox"/> CF			Testing CPU:
SCSI HDD with AHA- <input type="checkbox"/> 2940UW <input type="checkbox"/> 2940W			Testing CPU:
Boot			
Cold Boot	✓		
Warm Boot (Ctrl+Alt+Shift+Del)	✓		
Shutdown-Normal Shutdown	✓		
Shutdown-Fast Shutdown	✓		
Function Test			
VEDIT-Split Windows Ver and Hor	✓		
VEDIT – Zoom	✓		
Serial Mouse	✓		
PS/2 Mouse	✓		
Keyboard Function Test			
Alt+Enter	✓		
Ctrl+Enter	✓		
Windows for QNX			
File Manager	✓		
Shell	✓		
Calculator	✓		
Clock	✓		
Ruler	✓		
Eyes	✓		
Life	✓		
Load Monitor	✓		
Mandelbrot	✓		
Puzzle	✓		
Rebound	✓		
Solitaire	✓		
Plaid	✓		
Video Poker	✓		
Zoom	✓		

B. O.S. Compatibility-Windows 3.1

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: AMI Ver: 0.5t
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CHIPS F65545 B2 <input checked="" type="checkbox"/> BIOS: 65540/545 VGA
VGA Memory Capacity & Brand	Brand: NEC 424260-70 <input type="checkbox"/> 60ns <input checked="" type="checkbox"/> 70ns <input type="checkbox"/> ns <input type="checkbox"/> DRAM <input checked="" type="checkbox"/> VRAM <input type="checkbox"/> <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input checked="" type="checkbox"/> 1M <input type="checkbox"/> 2M <input type="checkbox"/> 4M <input type="checkbox"/>
CPU Type	Ali M6117C
HDD Type	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input checked="" type="checkbox"/> Qua <input type="checkbox"/> Fuj : TM17A012
CD-ROM Type	<input type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input checked="" type="checkbox"/> TEAC : IDE CD-532E 32X
Driver or Utility	<input checked="" type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

VGA Driver Testing:

Resolution	Color	SF	LF	Pass	Fail	Note
640X480	16	✓				
	256	✓				
	32K					
	64K					
	16.7M					
800X600	16	✓				
	256	✓				
	32K					
	64K					
1024X768	16	✓				
	256					
1280X1024	16					
1600X1200	16					

Test Results:

Test Item	Pass	Fail	Note
Installation From FDD			
Install to IDE HDD	✓		Testing CPU: Ali M6117C
SCSI HDD with AHA-1542 <input type="checkbox"/> CP <input type="checkbox"/> CF Card			Testing CPU:
SCSI HDD with AHA- <input type="checkbox"/> 2940UW <input type="checkbox"/> 2940W			Testing CPU:
Keyboard Function Test			
Ctrl+Alt+Del	✓		
Alt+Tab	✓		
Alt+Esc	✓		
Alt-F4	✓		
Function Test			
Virtual Memory	✓		
System Clock	✓		
DOS Prompt	✓		
Real Mode & Protect Mode Switch	✓		
Task Switching	✓		
FDD Format/Copy/Read/Write	✓		
Serial Mouse	✓		
PS/2 Mouse	✓		

D. O.S. Compatibility-DOS and DOS Utility Compatibility Testing**System Information:**

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: MOSEL V53C518160OAK50 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input type="checkbox"/> SODIMM <input checked="" type="checkbox"/> OnBoard
Cache Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input type="checkbox"/> PB <input type="checkbox"/> 128K <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/>
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver: AMI Ver: 0.5t
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CHIPS F65545 B2 <input checked="" type="checkbox"/> BIOS: 65540/545 VGA
VGA Memory Capacity & Brand	Brand: NEC 424260-70 <input type="checkbox"/> 60ns <input checked="" type="checkbox"/> 70ns <input type="checkbox"/> ns <input type="checkbox"/> DRAM <input checked="" type="checkbox"/> VRAM <input type="checkbox"/> <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input checked="" type="checkbox"/> 1M <input type="checkbox"/> 2M <input type="checkbox"/> 4M <input type="checkbox"/>
CPU Type	Ali M6117C
HDD Type	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input checked="" type="checkbox"/> WD: AC26400
CD-ROM Type	<input type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input checked="" type="checkbox"/> TEAC : IDE CD-532E 32X
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

Test Results:

Test Item	Pass	Fail	Note
Installation From FDD			
Install to IDE HDD	✓		Testing CPU: Ali M6117C
SCSI HDD with AHA-1542 <input type="checkbox"/> CP <input type="checkbox"/> CF Card			Testing CPU:
SCSI HDD with AHA- <input type="checkbox"/> 2940UW <input type="checkbox"/> 2940W			Testing CPU:
Function Test			
Sysinfo Check (Before DOS Initialed)	✓		
System Clock(Compare to RTC CLK)	✓		
DOS Prompt	✓		
FDD Format/Copy/Read/Write	✓		
Serial Mouse	✓		
DOS Commander			
MSD.COM	✓		
EDIT.COM	✓		
EMM386.EXE	✓		
HIMEN.SYS	✓		
Norton Commander			
Key F1~F10 Function	✓		
Key Alt+F1~F10 Function	✓		
Key Ctrl+F1~F10 Function	✓		
ET Ver3.53			
Installation Testing	✓		
16 Font Mode	✓		
24 Font Mode	✓		
Key: Ctrl+Esc Function	✓		
Sethrc Function	✓		
ET 2000			
Installation Testing	✓		
16 Font Mode	✓		
24 Font Mode	✓		
Key: Ctrl+Esc Function	✓		
Sethrc Function	✓		
ETFree Function	✓		