



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

**PCM-3336**

# **QE Compatibility Test Report**

**Release Date : Dec. 18, 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

## System Information:

DRAM/ SDRAM Capacity & BRAND ( SIMM Qty )	Brand : MOSEL V53518160OAK50 <input checked="" type="checkbox"/> 4 <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
System BIOS Version	<input type="checkbox"/> Award <input checked="" type="checkbox"/> AMI Ver : 1.0 ( 12/16/1999 )
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> Onboard CHIPS F65545 B2
DOC Type	M-System DOC 2000 <input type="checkbox"/> 4MB <input checked="" type="checkbox"/> 8MB <input type="checkbox"/> 16MB <input type="checkbox"/> 24MB <input type="checkbox"/> ___ MB

Note : The blackened box means the item be used in testing.

## A. Power Margin Test :

High / Low Voltage : 2 Hours / 25°C

Test CPU : Ali M6117C

Voltage	Test Program		Result		Note
	QAPLus/ FE V5.4	AMIDIAG 4.50	Pass	Fail	
5.30V	V		V		
5.25V	V		V		
5.20V	V		V		
4.80V	V		V		
4.75V	V		V		
4.70V	V		V		
4.65V	V		V		
4.60V	V		V		

## B. Temperature Margin Test :

High / Low Voltage : 2 Hours

Test CPU : Ali M6117C

Temperature	Test Program		Result		Note
	QAPLus/ FE V5.4	AMIDIAG 4.50	Pass	Fail	
85 °C	V		V		
80 °C	V		V		
70 °C	V		V		
65 °C	V		V		
60 °C	V		V		
55 °C	V		V		
5 °C	V		V		
0 °C	V		V		
-5 °C	V		V		
-10 °C	V		V		
-15 °C	V		V		
-20 °C	V		V		
-25 °C	V		V		

## 2 . Stability 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: 1.0 (12/16/1999)
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> OnBoard <input type="checkbox"/> CHIPS F65545 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
QAPIus/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
QAPIus/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 %	21 Sec	6 Sec	
KB Reset 20 Times	20	20	0 %	13 Sec	3 Sec	
H/W Reset 1000Times	1000	1000	0 %	21 Sec	6 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	3020	3020	0 %	27 Sec	5 Sec	

### 3 . Performance 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: 1.0 (12/16/1999)
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/> Windows 95 <input type="checkbox"/> Windows NT <input type="checkbox"/>
VGA Card	<input checked="" type="checkbox"/> OnBoard <input type="checkbox"/> CHIPS F65545 B2
VGA Memory	<input type="checkbox"/> 256K <input checked="" type="checkbox"/> 512K <input 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 checked="" type="checkbox"/> Qua <input type="checkbox"/> Fuj : TM17A012
Testing Feature	<input type="checkbox"/> 32 bits Transfer <input checked="" type="checkbox"/> Block Mode <input type="checkbox"/> DMA Mode
VGA Testing Mode	1024X768X256c (For WinStone & WinBench)
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 Type				Unit
	Ali M6117C				
<b>LandMark Speed 2.0</b>					
CPU	32.66				MHz
FPU	N/A				MHz
VIDEO	3947				Chs/sec
<b>Norton 8.0</b>					
SI	31.5				ID
<b>Power Meter 2.02</b>					
MIPS Test	4.5				Mips
<b>WinStone _____</b>					
HighEnd Graphic WinStone_____	N/A				
Business Graphic Winstone_____	N/A				
<b>WinBench 96</b>					
Graphic WinMark 96	0.852				MP/s
CPUmark 16	17.9				
CPUmark 32	fail				
<b>Coretest V3.02</b>					
DTR (Buffered Read)	1840				KB/Sec
Performance ID	17.34				
<b>Wintech V1.2</b>					
Overall WinTach RPM	3.03				

## 4 . 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
Intel	Ether Express PRO100B	✓		
Realtek	RTL 8019A ISA	✓		

### C. Adapter Compatibility- VGA Card

#### VGA Adapter List:

Brand	Device Model	Pass	Fail	Note
TopView	ET-4000/W321	✓		
TopView	ET-4000/AX	✓		

### D. Adapter Compatibility- Other Card

#### Adapter Card List:

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

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

Brand	Device Model	Pass	Fail	Note
<b>104 Module</b>				
AAEON	PCM-3115(PCMCIA 2 SLOTS)	✓		
AAEON	PCM-3820 rev. C (SSD)	✓		
AAEON	PCM-3110 (PCMCIA MASTER)	✓		
AAEON	PCM-3660 (ETHERNET)	✓		
AAEON	PCM-3420 (SCSI)	✓		
AAEON	PCM-3200(SOUND)	✓		

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

Brand	Device Model	Pass	Fail	Note
Quantum	TM17A012(1.7G)	✓		
WD	AC26400-00RT(6.4G)	✓		
Seagate	32155W(2G)	✓		

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

Brand	Device Model	Pass	Fail	Note
<b>CD/ROM</b>				
NEC	CDR-3001A	✓		
SAMPO	CDM-T631	✓		
<b>ZIP</b>				
IOMEGA	ZIP 100MB Parallel Port	✓		
<b>LS-120</b>				
LS-120	LKM-F934-1	✓		

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

Brand	Device Model	Pass	Fail	Note
<b>RS-485 Port</b>				
ADAM	ADAM-4011	✓		
<b>Parallel Port</b>				
IOMEGA	ZIP 100MB Parallel Port	✓		
EPSON	COLOR 740	✓		

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

Brand	Device Model	Pass	Fail	Note
<b>Keyboard</b>				
ACER	6511-TW	✓		
LEMEL	5121	✓		
<b>Mouse</b>				

<b>IBM</b>	<b>PS/2 Mouse</b>	✓		
<b>Logitech</b>	<b>First Mouse</b>	✓		

## 5 . 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: 1.0 (12/16/1999)
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 424260-60 <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 checked="" type="checkbox"/> 512K <input 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"/> WD: TM17A012
CD-ROM Type	<input checked="" type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer : CDR-3001A
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

#### Test Results:

Test Item	Pass	Fail	Note
<b>Installation From FDD</b>			
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:
<b>Boot</b>			
Cold Boot	✓		
Warm Boot (Ctrl+Alt+Shift+Del)	✓		
Shutdown-Normal Shutdown	✓		
Shutdown-Fast Shutdown	✓		
<b>Function Test</b>			
VEDIT-Split Windows Ver and Hor	✓		
VEDIT – Zoom	✓		
Serial Mouse	✓		
PS/2 Mouse	✓		
<b>Keyboard Function Test</b>			
Alt+Enter	✓		
Ctrl+Enter	✓		
<b>Windows for QNX</b>			
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
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: 1.0 (12/16/1999)
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 424260-60 <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 checked="" type="checkbox"/> 512K <input 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"/> WD: AC26400-00RT
CD-ROM Type	<input checked="" type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer : CDR-3001A
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				✓	Monitor turn into black
	32K					
	64K					
	16.7M					
800X600	16			✓		
	256				✓	Monitor turn into black
	32K					
	64K					
1024X768	16					
	256					
1280X1024	16					
1600X1200	16					

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From FDD</b>			
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:
<b>Keyboard Function Test</b>			
Ctrl+Alt+Del	✓		
Alt+Tab	✓		
Alt+Esc	✓		
Alt-F4	✓		
<b>Function Test</b>			
Virtual Memory	✓		
System Clock	✓		
DOS Prompt	✓		
Real Mode & Protect Mode Switch	✓		
Task Switching	✓		
FDD Format/Copy/Read/Write	✓		
Serial Mouse	✓		
PS/2 Mouse	✓		

## C. 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: 1.0 (12/16/1999)
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 424260-60 <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 checked="" type="checkbox"/> 512K <input 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"/> WD: AC26400-00RT
CD-ROM Type	<input checked="" type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer : CDR-3001A
Driver or Utility	<input checked="" type="checkbox"/> VGA <input type="checkbox"/> HDD <input type="checkbox"/> Others :

### Test Results:

Test Item	Pass	Fail	Note
<b>Installation From FDD</b>			
Install to IDE HDD	<input checked="" type="checkbox"/>		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:
<b>Function Test</b>			
Sysinfo Check (Before DOS Initialed )	<input checked="" type="checkbox"/>		
System Clock(Compare to RTC CLK)	<input checked="" type="checkbox"/>		
DOS Prompt	<input checked="" type="checkbox"/>		
FDD Format/Copy/Read/Write	<input checked="" type="checkbox"/>		
Serial Mouse	<input checked="" type="checkbox"/>		
<b>DOS Commander</b>			
MSD.COM	<input checked="" type="checkbox"/>		
EDIT.COM	<input checked="" type="checkbox"/>		
EMM386.EXE	<input checked="" type="checkbox"/>		
HIMEN.SYS	<input checked="" type="checkbox"/>		
<b>Norton Commander</b>			
Key F1~F10 Function	<input checked="" type="checkbox"/>		
Key Alt+F1~F10 Function	<input checked="" type="checkbox"/>		
Key Ctrl+F1~F10 Function	<input checked="" type="checkbox"/>		
<b>ET Ver3.53</b>			
Installation Testing	<input checked="" type="checkbox"/>		
16 Font Mode	<input checked="" type="checkbox"/>		
24 Font Mode	<input checked="" type="checkbox"/>		
Key: Ctrl+Esc Function	<input checked="" type="checkbox"/>		
Sethrc Function	<input checked="" type="checkbox"/>		

## 6. Power Consumption Data

### System Information:

DRAM Type & Capacity	Onboard 4MB
VGA Card	OnBoard C&T F65545
DOC Type	M-System DOC2000 16MB
O.S.	DOS V 6.22

### 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

### The Application of Software

Brand	Landmark System Speed Test Version 2.0
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### Test Result

Mode Type	Normal Mode	
Processor Type ALI M6117	0.9	Amp/Max

Note :

1. Power supply voltage : +5V.