

MB-562C QE Compatibility Test Report

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Issue Stamp	OA Manager	OE 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	Ins	tall	Boot		Shutdown		Function		Keyboard 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		Shute	Shutdown		Function		Keyboard Function		Display Driver	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
WINDOWS 3.1	✓		✓		✓		✓		✓		✓		
WINDOWS 95	✓		✓		✓		✓		✓		✓		
WINDOWS NT 4.0 W/S	✓		✓		✓		✓		✓		✓		
WINDOWS NT 4.0 SRV	✓		✓		✓		✓		✓		✓		
OS/2 Warp 4.0	✓		✓		✓		✓		✓		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

2.23 companion results						
Application .	/ Test Result	Result	Note			
Norton Utility 8.0		Pass				
Norton Commander 5.	0	Pass				
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 /	QAFE	QAFE5.29 QAPLUS4.8		AMIDIAG4.5/5.1		CHECKIT3.0		
Software	Result	Note	Result	Note	Result	Note	Result	Note
Main Component	Pass		Pass		Pass		Pass	
Memory	Pass		Pass		Pass		Pass	
Video Adapter	Pass		Pass		Pass		Pass	
Floppy Drive	Pass		Pass		Pass		Pass	
Hard Drive	Pass		Pass		Pass		Pass	
Keyboard	Pass		Pass		Pass		Pass	
COM Port	Pass		Pass		Pass		Pass	
LPT Port	Pass		Pass		Pass		Pass	
Plug & play	Pass		Pass		Pass		Pass	

2. Hardware Compatibility

A. Component Compatibility- CPU

586 CPU Device List:

Brand	Device Model	Result	Note
Intel	PENTIUM-75	Pass	
Intel	PENTIUM-100	Pass	
Intel	PENTIUM-120	Pass	
Intel	PENTIUM-133	Pass	
Intel	PENTIUM-150	Pass	
Intel	PENTIUM-166	Pass	
Intel	PENTIUM-200	Pass	
Intel	PENTIUM-200 MMX	Pass	
Cyrix	6X86-133M	Pass	
Cyrix	6X86-200M	Pass	
AMD	5K86-75	Pass	
AMD	5K86-100	Pass	
AMD	K6	Pass	

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

Device Model	Result	Note
MN4117400BSJ-06 32M	Pass	
M5M417400CT-7 16M	Pass	
HYB5117405BJ-60 32M EDO RAM	Pass	
NN514405J-60 8M EDO RAM	Pass	
V53C408HK45 8M EDO RAM	Pass	
HY5117400AJ-70 16M	Pass	
HM5118165AJ6R 8M EDO RAM	Pass	
KM41C16000BK-6 64M	Pass	
VG264400BJ-6 8M	Pass	
SDRAM 32M 168PIN	Pass	CMOS setup: SDRAM CAS latency must be set to 2T.
EDO 16M 168PIN	N/A	
SDRAM 16M	Pass	
	M5M417400CT-7 16M HYB5117405BJ-60 32M EDO RAM NN514405J-60 8M EDO RAM V53C408HK45 8M EDO RAM HY5117400AJ-70 16M HM5118165AJ6R 8M EDO RAM KM41C16000BK-6 64M VG264400BJ-6 8M SDRAM 32M 168PIN EDO 16M 168PIN	M5M417400CT-7 16M Pass HYB5117405BJ-60 32M EDO RAM Pass NN514405J-60 8M EDO RAM Pass V53C408HK45 8M EDO RAM Pass HY5117400AJ-70 16M Pass HM5118165AJ6R 8M EDO RAM Pass KM41C16000BK-6 64M Pass VG264400BJ-6 8M Pass SDRAM 32M 168PIN Pass EDO 16M 168PIN N/A

C. Adapter Compatibility- VGA

VGA Adapter List:

Brand	Device Model	Result	Note		
PCI BUS	·				
CARDEX	ET-6000	Pass			
TopView	S3 86C968	Pass			
TopView	S3 Trio64 V2	Pass			
TopView	S3 VERGE	Pass			
On_board		Pass			
ISA BUS	·				
ORCHID	KELVIN 64 ISA (CIRRUS 5429)	Pass			
TopView	ET 4000 ISA	Pass			
AAEON	AEON PCA-6653(C&T 65545) Pass				
On board VG	A chipset disabled.				

D. Adapter Compatibility- LAN

LAN Adapter List:

Brand	Device Model	Result	Note
On-board	RTL-8029	Pass	

E. Adapter Compatibility- SCSI CARD

SCSI Adapter List:

Brand		Device Model	Result	Note			
PCI BUS							
AHA	2940UW	PCI	Pass				
ISA BUS							
AHA	1520K	ISA	Pass				

F. Adapter Compatibility- Other Card

Adapter Card List:

Brand	Device Model	Result	Note
MPEG Card			
LEMELMagic	MPEG Card	Pass	
Sound Card			
On Board		Pass	

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

Brand	Device Model	Result	Note	
ISA CARD				
AAEON	RDM-1020N	Pass		
AAEON	RDM-1010A	Pass		
AAEON	RDM-211A	Pass		
104 Module				
AAEON	PCM-3820C-4 (SSD)	Pass		
AAEON	PCM-3110 (PCMCIA MASTER)	Pass		
AAEON	PCM-3420 (SCSI)	Pass		
AAEON	PCM-3600(FAX/MODEM)	Pass		
AAEON	PCM-3115(PCMCIA 2 SLOTS)	Pass		

H. Peripheral Compatibility-HDD Device HDD List:

Brand	Device Model	Result	Note
Seagate	ST3123ON SCSI	Pass	
Seagate	ST32155W/P	Pass	
Seagate	ST51270A	Pass	
Seagate	ST32123A	Pass	
WD	WDAC22100	Pass	
Fujitsu	M1638TAU	Pass	
Quantum	840AT	Pass	
Quantum	CD820E	Pass	

I. Peripheral Compatibility- Storage Device

Device List:

Brand	Device Model	Result	Note					
CD/ROM								
Creative	CD 820E							
Philips	PCA123CD	Pass						
VUGEO	624A-004	Pass						
Panasonic	CR-585-B	Pass						
Pioneer	DR-A24X	Pass						
FAX/Modem								
LEMEL	急速33.6 HIGH SPEED MODEM	Pass						
Disk on Chip								
M-Systems	Disk on chip 2000 series 2MB	Pass						
Tape Streamer	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				
Mouse	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				

K. Peripheral Compatibility - Display Device Display Device List:

Brand	Device Model	Result	Note
Monitor			
NEC	MULTISYNC XV15+	Pass	
TATUNG	CNS14SBS	Pass	
MAG	15" 1280*1024	Pass	
Panel			
TOSHIBA	LTM10C209	Pass	

3. Stability Testing

A. Burn-In Stability Testing

Test Condition: Temp.60°C 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°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	Siemens 32MBX2
VGA Card	OnBoard (C&T 65550)
HDD TYPE	Segate ST51270A(Mode4)
VGA Testing Mode	600X 800X 256 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 Configuration								
Testing Utility	INTEL	INTEL	INTEL	CYRIX	AMD	AMD	Unit		
	P-166	P-200	P200MMX	P-200	K6-200	K6-2 300			
LandMark Speed 2.0	andMark Speed 2.0								
CPU	958.72	1150.48	1304.14	2044.62	1809.67	3020.36	Mhz		
FPU	3218.40	3862.15	3987.28	3256.95	1968.15	4712. 51	Mhz		
VIDEO	6922	7504	6922	6971	8474	7072	Chs/sec		
Norton 8.0 SI	526.3	631.6	676.6	1183.5	1018.1	5052.2	ID		
Power Meter 2.02	81.3	98.1	98.1	149.7	101.6	218.8	Mips		
WinStone 96 1.0	79.6	84.9	88.8	94.4	84.8	94.4			
WinBench 96									
Graphic WinMark 96	17.3	19.6	22.9	23.5	21.1	32.2	MP/s		
CPUmark 16	301	366	379	413	337	487			
CPUmark 32	290	375	363	500	341	527			
Coretest 302									
DTR (Buffered Read)	13312	13312	13360	13744	12576	15008	KB/sec		
Performance ID	84.52	84.68	84.85	87.09	80.19	94.08			
Power consumption	3.46	4.11	4.29	5.45	7.08		Α		
(+5V in normal mode)									
Note									

5. Margin Testing

A. Temperature Test (AMIDIAG 4.5)

Testing Condition	Result	Note
High temperature Margin (Burn-In 2 Hours)	80°C	
Low temperature Margin (Burn-In 2 Hours)	-30℃	

B. DC Voltage Test (AMIDIAG 4.5)

Testing Condition	Result	Note
VDC High Voltage Margin (Burn-In 2 Hours)	5.8v	
VDC Low Voltage Margin (Burn-In 2 Hours)	4.4v	

C. IDE Drive Capability

Test Equipment

Primary IDE Port:

Master Device: HD Caviar WDC AC22100H

Slave Device: CD-ROM Pioneer ATAPI Model DR -A24X 0101

Secondary IDE Port:

Master Device: HD Seagate ST32132A

Slave Device: HD Quantum FIREBALL-TM1700A

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