



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

GENE-4310T

QE Compatibility Test Report

Release Date : Spe. 16, 2000

Issue Stamp

QA Manager

QE Manager

Test Engineer

Summary of contents :

Cover Sheet	1
Summary of contents	2
1. Margin	3
Includes temperature, DC voltage and IDE cable length tests.	
2. 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
3. Performance	5
Includes performance indexes using various performance test software programs .	
4. Power consumption data	6
Includes +5V current rate .	
5. Hardware compatibility	7
Includes CPU , DRAM , adapter card and HDD compatibility tests.	
A. Component Compatibility- CPU.....	7
B. Component Compatibility- DRAM SIMM Module.....	7
C. Adapter Compatibility- VGA.....	7
D. Adapter Compatibility- LAN.....	7
E. Adapter Compatibility- SCSI Card.....	7
F. Adapter Compatibility- Other Card.....	7
G. Adapter Compatibility- Industry Control Card.....	8
H. Peripheral Compatibility- HDD Device.....	8
I. Peripheral Compatibility- Storage Device.....	8
J. Peripheral Compatibility- Others.....	8
K. Peripheral Compatibility- Input Device.....	9
L. On_Board Network Hardware (physical) Compatibility.....	9
6. Software compatibility	11
Includes various OS and application software tests.	
A. O.S. Compatibility- Windows 95.....	11
B. O.S. Compatibility- Windows 98.....	12
B-1. Microsoft Windows 98 Hardware Compatibility Test(HCT).....	13
C. O.S. Compatibility- Windows NT R4.0.....	14
D. O.S. Compatibility- DOS and DOS Utility Compatibility Testing.....	16

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.

Quality Engineering Department of AAEON TECHNOLOGY INC.

1F, No.6,Alley 6, Lane 45,Pao-Hsin Rd,

Hsin-Tien City, Taipei, Taiwan , ROC

Tel: 886-2-29121234

Fax:886-2-29130792

886-2-29130774

1. Margin Testing

System Information:

DRAM/ SDRAM Capacity & BRAND (SIMM Qty)	Brand : D4516821AG5-A10-9JF <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/>	<input type="checkbox"/> 8 <input type="checkbox"/> 16 <input checked="" type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB Qty : <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver : V4.51 PG	
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/>	
VGA Card	<input checked="" type="checkbox"/> Onboard Cyrix CX5530	
DOC Type	TEAC FD-235HF	

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

A. Power Margin Test :

High / Low Voltage : 2 Hours / 25°C

Test CPU : Cyrix Media GX 200

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		

B. Temperature Margin Test :

High / Low Voltage : 2 Hours

Test CPU : Cyrix Media GX 200

Temperature	Test Program		Result		Note
	QAPLus/ FE V5.4	AMIDIAG 4.50	Pass	Fail	
60 °C	V		V		
55 °C	V		V		
5 °C	V		V		
0 °C	V		V		

Note : QAPLus 5.4 is running in harddisk and skip NPU testing item

SODIMM type : NEC D4516821AG5-A10-9JF

HDD type : WD AC26400 6.4GB

CPU : NS Geode GXLV 233

2 . Stability Testing

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: D4516821AG5-A10-9NF <input type="checkbox"/> 8 <input checked="" type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input type="checkbox"/>
VGA Card	<input checked="" type="checkbox"/> OnBoard Cyrix CX5530
FDD Type	TEAC FD-235HF

A. Burn-In Testing (24Hours)

Test Condition : Under Room Temp. 25°C

Test Software	Pass	Fail	Note
QAPlus/FEV5.4	✓		

B. Burn-In Testing (48 Hours)

Test Condition : Burn-In Under Temp. 0°C ~ 60°C (IEC-68-2-61)

Test Software	Pass	Fail	Note
QAPlus/FEV5.4	✓		

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 %	5 Sec	3 Sec	
KB Reset 20 Times	20	20	0 %	5 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	812	812	0 %	60 Sec	40 Sec	
H/W Reset			%	Sec	Sec	

Note : QAPLuse 5.4 is running in harddisk and skip NPU testing item
SODIMM type : NEC D4516821AG5-A10-9NF
HD type : WD AC26400 6.4G
CPU: NS Geode GXLV 233

3 . Performance Testing

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: NEC D45128163G5-A80-9JF <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64 <input checked="" type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
O.S. Environment	<input checked="" type="checkbox"/> MSDOS6.22 <input checked="" type="checkbox"/> Windows 98 <input type="checkbox"/> Windows NT
VGA Card	<input checked="" type="checkbox"/> OnBoard Cyrix CX5530
VGA Memory	<input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input checked="" type="checkbox"/> 2.5M <input type="checkbox"/> 4M <input type="checkbox"/>
HDD Type	<input type="checkbox"/> Max <input checked="" type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> Fuj : ST34311A 4.3GB
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 type="checkbox"/> VGA <input type="checkbox"/> HDD <input checked="" type="checkbox"/> Others : MediaGX 4.0

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	NS CPU Type			Unit
	Geode GXLV 233B	Geode GX1 300B	Geode GX1 233B	
LandMark Speed 2.0				
CPU	982.56	1167.32	982.56	MHz
FPU	2638.20	3135.62	2638.20	MHz
VIDEO	17873	20915	17873	Chs/sec
Norton 8.0				
SI	606.6	736.7	606.6	ID
Power Meter 2.02				
MIPS Test	91.7	109.4	91.8	Mips
WinStone				
HighEnd Graphic WinStone_99_				
Business Graphic Winstone_99_	7.64	9.22	7.67	
WinBench_99				
H.E. Graphic WinMark	84.9	110	84.9	MP/s
Business Graphic WinMark	29.2	37.6	29.2	TB/s
CPUmark 99	7.48	9.78	7.48	
FPUmark 99	379	493	379	
Coretest V3.02				
DTR (Buffered Read)	7888	7961	7888	KB/Sec
Performance ID	52.13	53.49	52.13	
Wintech V1.2				
Overall WinTach RPM	145.15	175.07	145.15	

4 . Power Consumption

System Information:

DRAM Type & Capacity	NEC D45128163G5-A80-9JF 128MB
VGA Card	Cyrix CX5530
DOC or Floppy	Floppy
VGA Testing Mode	800X600
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	NS CPU Type			Unit
	Geode GXLV 233B	Geode GX1 300B	Geode GX1 233B	
Normal Mode(+5V)	1.85	2.1	1.85	amp/max
Doze Mode(+5V)	1.1	1.1	0.9	amp/max
Sleep Mode(+5V)	1.0	1.0	0.9	amp/max

Note :

- 1.STANDBY Model all function off.
- 2.The unit of current is A .

5 . Hardware Compatibility

A. Component Compatibility- CPU

CPU Device List:

Brand	Device Model	Pass	Fail	Note
NS	Geode GXLV 233 MHz	✓		

B. Component Compatibility- DRAM SO-DIMM Module

DRAM SO-DIMM Model List:

Brand	Device Model	Pass	Fail	Note
NEC	D4516821AG5-A10-9NF 16MB PC-100	✓		
NEC	D4564163G5-A10-9JF 32MB PC-100	✓		
NEC	D4564163G5-A10-9JF 64MB PC-100	✓		
NEC	D45128163G5-A80-9JF 128MB PC-100			
Siemens	HYB39S64160AT-8 64MB PC-100	✓		
Toshiba	TC59SM716FT-80 128MB PC-100	✓		

C. Adapter Compatibility- VGA Card

VGA Adapter List:

Brand	Device Model	Pass	Fail	Note
Cyrix	CX5530	✓		

D. 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	82559ER	✓		

E. Adapter Compatibility- SCSI Card

SCSI Adapter List:

Brand	Device Model	Pass	Fail	Note
AAEON	PCM-3420	✓		

F. Adapter Compatibility- Other Card

Adapter Card List:

Brand	Device Model	Pass	Fail	Note
Sound Card				
On board	Cyrix 5530	✓		

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

Brand	Device Model	Pass	Fail	Note
104 Module				
AAEON	PCM-3115(PCMCIA 2 SLOTS)	✓		
AAEON	PCM-3600(FAX/MODEM)	✓		
AAEON	PCM-3420 (SCSI)	✓		
AAEON	PCM-3200(SOUND)		✓	no -12V power can work

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

Brand	Device Model	Pass	Fail	Note
Seagate	ST51270A 1.2G	✓		
IBM	DHEA-34330 3.4G	✓		
Quantum	TX4000AT 4.3G	✓		
WD	AC26400 6.4G	✓		
Maxtor	91021U2 10GB	✓		
Quantum	KX13600AT 13.6G	✓		
Seagate	ST34311A 4.3G	✓		

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

Brand	Device Model	Pass	Fail	Note
CD-ROM				
TEAC	CD-532E 32X	✓		
SAMPO	CDM-T631 36X	✓		
NEC	CDR-3001A	✓		
ZIP				
ZIP	IOMEGA ZIP 100MB Parallel Port	✓		
ZIP	IOMEGA ZIP 100MB USB Port	✓		
LS-120				
LS-120	LMK-F934-1	✓		

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

Brand	Device Model	Pass	Fail	Note
RS-485 Port				
Adam	ADAM-4011	✓		
USB Port				
Dexin	Mouse	✓		
Vcam	Capture	✓		
Tekcam	P35u	✓		
BTC	7932 Keyboard	✓		
D-Link	DU-H4 HUB	✓		
HP	ScanJet 4200C	✓		
HP	PhotoSmart P1000 Printer	✓		

Parallel Port				
HP	PhotoSmart P1000 Printer	<input checked="" type="checkbox"/>		
ZIP	IOMEGA ZIP 100MB Parallel Port	<input checked="" type="checkbox"/>		
IR Port				
ACT	IR 210L	<input checked="" type="checkbox"/>		

K. Peripheral Compatibility- Input Device Input Device List:

Brand	Device Model	Pass	Fail	Note
Keyboard				
BTC	7932 Keyboard	<input checked="" type="checkbox"/>		
Acer	6311-TW	<input checked="" type="checkbox"/>		
Mouse				
Dexin	Mouse	<input checked="" type="checkbox"/>		
Logitech	MouseMan	<input checked="" type="checkbox"/>		
Logitech	Serial Mouse	<input checked="" type="checkbox"/>		

L. On_Board Network Hardware (physical) Compatibility System Information(Client Site):

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: NEC D4564163G5-A10-9JF <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input checked="" type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> _____ Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
SYSTEM BIOS Ver.	<input checked="" type="checkbox"/> AWARD <input type="checkbox"/> AMI Ver: V 4.51 PG
O.S. Environment	<input checked="" type="checkbox"/> DOS6.22 <input type="checkbox"/> WINNT_____ <input type="checkbox"/> NOVELL_____ <input type="checkbox"/> _____
VGA Card	<input checked="" type="checkbox"/> OnBoard Cyrix CS5530 <input type="checkbox"/> _____
POWER SUPPLY	<input type="checkbox"/> MPU-250W <input checked="" type="checkbox"/> SSH-250G <input type="checkbox"/> SSH-350G <input type="checkbox"/> ST-250AF
IDE HDD TYPE	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input checked="" type="checkbox"/> Qua <input type="checkbox"/> Fuj <input type="checkbox"/> IBM : TX4000AT 4.3G
SCSI HDD TYPE	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> Fuj <input type="checkbox"/> IBM:
LAN CARD	<input checked="" type="checkbox"/> OnBoard: Intel 82559ER
CD-ROM TYPE	<input checked="" type="checkbox"/> NEC <input type="checkbox"/> PANASONIC <input type="checkbox"/> PIONEER <input type="checkbox"/> CREATIVE : CDR-3001A
Cable/Cable Length	

System Information(Server Site):

Board System	<input checked="" type="checkbox"/> M/B:SBC-656
DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: NEC D4564163G5-A10-9JF <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input checked="" type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> _____ Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
SYSTEM BIOS Ver.	<input checked="" type="checkbox"/> AWARD <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card	<input checked="" type="checkbox"/> OnBoard C&T69000 <input type="checkbox"/> _____
O.S. Environment	<input type="checkbox"/> DOS6.22 <input type="checkbox"/> WINNT_____ <input checked="" type="checkbox"/> NOVELL 4.11 <input type="checkbox"/> _____
IDE 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
SCSI HDD TYPE	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> Fuj <input type="checkbox"/> IBM:
LAN CARD	<input checked="" type="checkbox"/> OnBoard: RTL 8139B
CPU Type	<input checked="" type="checkbox"/> Intel Celeron 366MHz
CD-ROM TYPE	<input type="checkbox"/> NEC <input type="checkbox"/> PANASONIC <input type="checkbox"/> PIONEER <input checked="" type="checkbox"/> TEAC : CD-540E 40X
Cable/Cable Length	CAT 5 / 100M

HUB Type:**Test Result:**

SUBJECT Network Hardware Function Testing				
Test Item		Pass	Fail	Note
Transceiver		✓		
Receiver		✓		
CRC error		✓		
Collision back-off generation		✓		
Auto-negotiation		✓		
100M Base-TX half duplex		✓		
10M Base-T half duplex		✓		
SUBJECT Network Operation System Function Testing				
Test Item		Pass	Fail	Note
NetWare 4.11		✓		
Windows NT 4.0		✓		
SUBJECT Network Performance Testing				
Test Item		Result		Note
NWTEST 24HR		Pass		
SUBJECT Workstation Application Function Testing				
Test Item		Pass	Fail	Note
Dos 6.22 for IPXODI		✓		
Dos 6.22 for package driver		✓		
Windows 95 for IPX/SPX		✓		
Windows 95 for NetBEUI		✓		
Windows 95 for TCP/IP		✓		
Windows 98 for IPX/SPX		✓		
Windows 98 for NetBEUI		✓		
Windows 98 for TCP/IP		✓		
Windows NT 4.0 for IPX/SPX		✓		
Windows NT 4.0 for NetBEUI		✓		
Windows NT 4.0 for TCP/IP		✓		

Note : 1.Mulity Task is that transfers files(copy/verify/delet) and VCD in the same time.

6 . Software Compatibility

A. O.S. Compatibility-Windows 95

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand:NEC D4564163G5-A10-9JF <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input checked="" type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> _____ Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
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 checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CyrixCS5530
VGA Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input checked="" type="checkbox"/> DRAM <input type="checkbox"/> VRAM <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input type="checkbox"/> 2.5M <input checked="" type="checkbox"/> 4M
CPU Type	<input checked="" type="checkbox"/> OnBoard:NS Geode GXLV 233 MHz
HDD Type	<input type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input checked="" type="checkbox"/> Qua <input type="checkbox"/> WD: KX13600AT 13.6G
CD-ROM Type	<input checked="" type="checkbox"/> SAMPO <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input type="checkbox"/> Creative : CDM-T631 36X
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input checked="" type="checkbox"/> Others : MediaGX 4.0

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From CD/ROM			
Install to IDE HDD	✓		Testing CPU: NS Geode GXLV 233
Boot			
Boot Normal	✓		
Boot Logged (\BOOTLOG.TXT)	✓		
Boot Safe Mode	✓		
Boot Safe Mode & Network	✓		
Boot Step By Step Confirmation	✓		
Boot Command Prompt Only	✓		
Boot Safe Mode Command Prompt	✓		
Function Test			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
System Clock	✓		
Keyboard Function Test			
Alt+F4 Quit a Program	✓		
Ctrl+Esc Display the Start Menu	✓		
Alt+Tab Switch To Last Windows	✓		
Ctrl+Alt+Del Close Program	✓		
F8 Start up Boot Up Menu	✓		
F4 Boot Up from Previous	✓		
Shutdown			
Shutdown the Computer	✓		
Shutdown Restart	✓		
Shutdown to MS-DOS Mode	✓		
Close all Prog. & Login Other User	✓		

B. O.S. Compatibility-Windows 98**System Information:**

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand:HYB39S64160AT-8 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input checked="" type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
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
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CS5530
VGA Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input checked="" type="checkbox"/> DRAM <input type="checkbox"/> VRAM <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input type="checkbox"/> 2.5M <input checked="" type="checkbox"/> 4M
CPU Type	<input checked="" type="checkbox"/> OnBoard:NS Geode GXLV 233 MHz
HDD Type	<input checked="" type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> WD: 91021U2 10GB
CD-ROM Type	<input checked="" type="checkbox"/> SAMPO <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input type="checkbox"/> Creative : CDM-T631 36X
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input checked="" type="checkbox"/> Others : MediaGX 4.0

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From CD/ROM			
Install to IDE HDD	✓		Testing CPU: NS Geode GXLV 233
Boot			
Boot Normal	✓		
Boot Logged (\BOOTLOG.TXT)	✓		
Boot Safe Mode	✓		
Boot Safe Mode & Network	✓		
Boot Step By Step Confirmation	✓		
Boot Command Prompt Only	✓		
Boot Safe Mode Command Prompt	✓		
Function Test			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
System Clock	✓		
Keyboard Function Test			
Alt+F4 Quit a Program	✓		
Ctrl+Esc Display the Start Menu	✓		
Alt+Tab Switch To Last Windows	✓		
Ctrl+Alt+Del Close Program	✓		
F8 Start up Boot Up Menu	✓		
F4 Boot Up from Previous	✓		
Shutdown			
Shutdown the Computer	✓		
Shutdown Restart	✓		
Shutdown to MS-DOS Mode	✓		
Close all Prog. & Login Other User	✓		

B-1.Microsoft Windows 98 Hardware Compatibility Test(HCT)**System Information:**

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand:NEC D4564163G5-A10-9JF <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input checked="" type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
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
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard Cyrix CS5530
VGA Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input checked="" type="checkbox"/> DRAM <input type="checkbox"/> VRAM <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input type="checkbox"/> 2.5M <input checked="" type="checkbox"/> 4M
CPU Type	<input checked="" type="checkbox"/> OnBoard:NS Geode GXLV 233 MHz
HDD Type	<input checked="" type="checkbox"/> IBM <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> WD: DHEA-34330 3.4G
CD-ROM Type	<input checked="" type="checkbox"/> TEAC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input type="checkbox"/> Creative : CD-532E 32X
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input checked="" type="checkbox"/> Others : MediaGX 4.0

Test Result:

HCT 7.6 Features Test	Pass	Fail	Remark
Virtual Dos Mach	✓		
DMPS Test	✓		
Video Playback	✓		
Extended BIOS Parameter Block	✓		
MCI CD Test	✓		
BCT API Test	✓		
INT 13 Extension	✓		
Disk(Stress) Individual Drive	✓		
Disk -CD (Stress)	✓		
Disk (Stress)	✓		
Coprocessor(Stress)	✓		
Net Class Dynamic	✓		
PCI I/O Space	✓		
PCI 2.1 (BIOS)	✓		
PCI 2.1 (Card)		✓	
Unreported I/O	✓		
Unreported Memory	✓		
PnP BIOS	✓		
APM 1.2	✓		
Media Class Dynamic Config	✓		
Wave Drift	✓		

C. O.S. Compatibility-Windows NT R4.0

System Information:

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand:HYB39S64160AT-8 <input type="checkbox"/> 8 <input type="checkbox"/> 16 <input type="checkbox"/> 32 <input checked="" type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
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 checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CS5530
VGA Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input checked="" type="checkbox"/> DRAM <input type="checkbox"/> VRAM <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input type="checkbox"/> 2.5M <input checked="" type="checkbox"/> 4M
CPU Type	<input checked="" type="checkbox"/> OnBoard:NS Geode GXLV 233 MHz
HDD Type	<input checked="" type="checkbox"/> Max <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> WD: 91021U2 10GB
CD-ROM Type	<input checked="" type="checkbox"/> SAMPO <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input type="checkbox"/> Creative : CDM-T631 36X
Driver or Utility	<input type="checkbox"/> VGA <input type="checkbox"/> HDD <input checked="" type="checkbox"/> Others : MediaGX 4.0

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From CD/ROM			
Install to IDE HDD	✓		Testing CPU: NS Geode GXLV 233
Boot			
Boot to Windows NT	✓		
Boot to MS-DOS	✓		
Last known good configuration	✓		
Original Configuration	✓		
Shutdown	✓		
Shutdown & Restart	✓		
CPU/Memory/File System			
Memory size less than 64MB	✓		
Memory size Larger than 64MB	✓		
System tasking settings	✓		
FAT	✓		
NTFS	✓		
Network	✓		
System clock	✓		
Task switching	✓		
Function Test			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
System Clock	✓		
Keyboard Function Test			
CapLock,NumLock,ScrLock	✓		
Ctrl+Alt+Del	✓		
Ctrl+Esc,Alt+Tab/Esc/Space	✓		
Alt+Tab,Alt+Esc,Alt+Space	✓		

COM Port			
Serial Mouse	✓		
Security/Audit/Control			
User manager	✓		
Server manager	✓		
Disk administrator	✓		
Performance monitor	✓		
User profile editor	✓		
Event Viewer	✓		
Windows NT Diagnostics	✓		

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

DRAM/SDRAM Capacity & BRAND(SIMM Qty)	Brand: D4516821AG5-A10-9NF <input type="checkbox"/> 8 <input checked="" type="checkbox"/> 16 <input type="checkbox"/> 32 <input type="checkbox"/> 64 <input type="checkbox"/> 128MB <input type="checkbox"/> DRAM <input type="checkbox"/> SDRAM <input checked="" type="checkbox"/> SODIMM <input type="checkbox"/> Qty: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
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
System BIOS Version	<input checked="" type="checkbox"/> Award <input type="checkbox"/> AMI Ver: V 4.51 PG
VGA Card & BIOS	<input checked="" type="checkbox"/> OnBoard CS5530
VGA Memory Capacity & Brand	Brand: <input type="checkbox"/> 60ns <input type="checkbox"/> 70ns <input type="checkbox"/> ns <input checked="" type="checkbox"/> DRAM <input type="checkbox"/> VRAM <input type="checkbox"/> 256K <input type="checkbox"/> 512K <input type="checkbox"/> 1M <input type="checkbox"/> 2.5M <input checked="" type="checkbox"/> 4M
CPU Type	<input checked="" type="checkbox"/> OnBoard: NS Geode GXLV 233 MHz
HDD Type	<input checked="" type="checkbox"/> IBM <input type="checkbox"/> Sea <input type="checkbox"/> Con <input type="checkbox"/> Qua <input type="checkbox"/> WD: DHEA-34330 3.4G
CD-ROM Type	<input checked="" type="checkbox"/> NEC <input type="checkbox"/> Panasonic <input type="checkbox"/> Pioneer <input type="checkbox"/> Creative : CDR-3001A
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: NS Geode GXLV 233
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	✓		