

Product Certification Report

Report No: Gene-4312-T-01

Product Model	Gene-4312
Product description	NS Geode series , SubCompact Board With LCD , LVDS , Ethernet , & Audio
Test reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : Gene-4312 Rev.A0.1 <input checked="" type="checkbox"/> BIOS: Gene-4312 BIOS Rev 1.0 (01/29/2002) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2002-02-04
Issue date

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Test result for certification

Stability Test – Dynamic /Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Operating at 0 ~60 for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test.(Operating at 0 & 60 for 2hours)	Pass
LAN Chipset Burn_In Test. (Operating at 0 and 60 for 2hours)	Pass
Boot_Up Burn_In Test.(Operating at 0 ~60 for 24hours)	Pass
Boot_Up Burn_In Test.(Operating at Room Temperature for 24hours)	Pass
Windows HCT 9.5 system stress test. (Operating at Room Temp. for 8hours)	Pass
Time r Accur acy Test	Result
RTC timer accuracy of +/-3 sec per day.	Pass
System clock accuracy of +/-5 sec per day.	Pass
Watchdog timer accuracy of +/-1 sec per minute.	Pass
Margi n Test – Power Consumption – Cyr i x Medi a GX1 MX-S 300MHz/ SODRAM128MB	Result
Power VCC 4.75V to 5.25V Margin test .	Pass
Electrical characteristics – Normal Mode(+5V)	1.42A
Electrical characteristics – Standby Mode(+5V)	0.85A
Electrical characteristics – Normal Mode(+12V)	0.01A
Electrical characteristics – Standby Mode(+12V)	0.01A
BIOS Function Test	Result
Y2K Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
CMOS backup Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Pas sword Test	Pass
BIOS Awdflash Program Test	Pass
Oper ation System Compa tible Test	Result
Linux Red Hat 7.0	Pass
Netware 4.11	Pass
Netware 5.0	Pass
Windows 95 English version	Pass
Windows 98SE English version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
DOS and DOS Utility Compatibility Testing	Pass
Windows NT 4.0 Hardware Compatibility Test (HCT)	Pass
Performance Test – CPU Cyr i x Medi a GX1 MX-S 300MHz	Result
LandMark Speed 2.0 – CPU	1237.55
LandMark Speed 2.0 – FPU	3239.10
LandMark Speed 2.0 – VIDEO	17554.00

Coretest V3.02 Average Seek Time	6.5
Coretest V3.02 Track-Track Seek	1.4
Coretest V3.02 DTR (Buffered read)	6368
Coretest V3.02 Performance	46.36
WinBench 99 V1.1- High_end Graphic winmark99	74.8
WinBench 99 V1.1- Business Graphic winmark99	27.3
WinBench 99 V1.1- FPU winmark	425
WinBench 99 V1.1- CPU mark99	7.23
Final Reality V1.01 BenchMark Test – 2D image	1.25
Final Reality V1.01 BenchMark Test – 3D	0.31
Final Reality V1.01 BenchMark Test – Bus transfer	1.34
Final Reality V1.01 BenchMark Test – Overall	0.74
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	7.1
Utility and Driver Test	Result
VGA for Windows 95 (Cyrix Xpress GRAPHICS(TM))	Pass
VGA for Windows 98SE (Cyrix Xpress GRAPHICS(TM))	Pass
VGA for Windows NT 4.0 (Cyrix Xpress GRAPHICS(TM))	Pass
LAN for Windows 95 (Realtek RTL8139C PCI Adapter)	Pass
LAN for Windows 98SE (Realtek RTL8139C PCI Adapter)	Pass
LAN for Windows NT 4.0 (Realtek RTL8139C PCI Adapter)	Pass
Sound for Windows 95 (Xpress AUDIO(TM) 16-bit Sound)	Pass
Sound for Windows 98SE (Xpress AUDIO(TM) 16-bit Sound)	Pass
Sound for Windows NT 4.0 (Xpress AUDIO(TM) 16-bit Sound)	Pass
Red hat Linux 7.0 hardware compatible list for VGA	Support
Red hat Linux 7.0 hardware compatible list for LAN	Pass
Memory Test – SODIMM PC-133/100	Result
INFINEON / HYB39S128800CT-75/SODRAM/ PC133/128MB	Pass
NEC / D45128163G5-A75-9JF/SODRAM/PC133/64MB	Pass
SIEMENS / HYB39S64160AT-8 / SODRAM / PC100/64MB	Pass
NEC / D45128163G5-A75-9JF/SODRAM/PC133/64MB	Pass
NEC / D45128163G5-A80-9JF/ SODRAM/PC100/128MB	Pass
CPU Compatible Test	Result
Cyrix Media GX1 MMX-S 300MHz	Pass
HDD Compatible Test	Result
IBM DTLA-307075 / 76.8GB / ATA-100	Pass
IBM DTLA-307045 / 46.1GB / ATA-100	Pass
Maxtor 54610H6 / 46.1GB /ATA-100	Pass
Maxtor 54098U8 / 40.9GB / ATA -66	Pass
Seagate ST315320A / 15.3GB / ATA-66	Pass
Seagate ST34520 / 4.5GB / ATA -33	Pass
Fujitsu MPC3043AT-E / 4.3GB / ATA -33	Pass
CDROM/ DVDROM Test	Result
NEC C&C-BCD F561B / 52X	Pass

ASUS CD-S500/A / 50X	Pass
TEAC CD-540E / 40X	Pass
SONY CDU4811-81 / 48X	Pass
CREATIVE CD5220E / 52X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
MITSUMI CRMC-FX4824T / 48X	Pass
AFREEY CD-2050E / 50X	Pass
Network HUB / LAN Function Test	Result
HP J4095A 24Ports [100 /10 Mbps]	Pass
D-Link DES-1008 [100 / 10 Mbps]	Pass
Intel Inbusiness 8 Ports [100 / 10 Mbps]	Pass
LEMEL LM-S5 5 Ports [100 / 10 Mbps]	Pass
Accton DeskTop-3005 [100 / 10 Mbps]	Pass
SVEC FD916H [10M Mbps]	Pass
On Board Audio Function Test	Result
System Sound	Pass
Play CD_IN	Pass
Line Out	Pass
Line In	Pass
MIC Speaker – Dynamic / Condenser	Pass
MIC Speaker Recorder – Dynamic / Condenser	Pass
LCD Monitor	Result
SHARP / LQ121S1DG11 / TFT / 12.1”	Pass
Toshiba / LTM10C209A / TFT / 10.4’	Pass
NEC / NL6448BC33-46 / TFT / 10.4”	Pass
Industry Control Adapter Card Compatible Test-PC104/PC104Plus	Result
AAEON PCM-3110 / PCMCIA Module	Pass
AAEON PCM-3115B / PCMCIA Module	Pass
Peripheral Storage Device Compatible test	Result
IOMEGA ZIP100M (Parallel Type)	Pass
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
Photo Smart P1000 Printer (LPT Type)	Pass
33.6 HIGH SPEED MODEM (RS-232)	Pass
Peripheral Input Device Compatible test	Result
BTC 7932 Keyboard (USB)	Pass
Logitech M-BB48 Mouse (USB)	Pass
HP SJ4200C Scanner (USB)	Pass
HP Photo Smart P1000 Printer (USB)	Pass
Tekcam P35U Camera (USB)	Pass

IOMEGA ZIP100MB (USB)	Pass
D-Link DU-E10 Ethernet Adapter (USB)	Pass
D-Link DSB-H4/DU-H4 HUB (USB)	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man	Pass
Adam RS-485 (COM2)	Pass
Miscellaneous Test	Result
Floppy Disk Controller	Pass
H/W Reset	Pass
On board buzzer	Pass
Keyboard Lock	Pass
HDD LED	Pass
Power LED	Pass
LAN LED	Pass
Watchdog – reset	Pass
Watchdog – IRQ 15	Pass
Disable watchdog	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
Secondary IDE Master	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
USB Port1	Pass
USB Port 2	Pass
SIR / 115K bps	Pass
Compact flash solid state disk / TYPE1	Pass