

# Product Certification Report

Report No: Gene-6320-T-01

Product Model	<b>Gene-6320</b>
Product description	Intel Pentium III Low-power Subcompact Board with LCD, LVDS, Ethernet, TV-out & Audio
Test reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : A0.1 <input checked="" type="checkbox"/> BIOS : 0.e ( 07/15/2002 )  <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:

2002-07-18

Wenyuan Yang

Lindon Lin

Joe Huang

Issue date

Assistant  
Manager

Supervisor

Test Engineer

## Test result for certification

<b>Stability Test - Dynamic / Boot_UP Burn_In Test</b>	<b>Result</b>
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
<b>Timer Accuracy Test</b>	<b>Result</b>
RTC timer accuracy of +/-3 sec per day.	Pass
System clock accuracy of +/-5 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
<b>Margin Test – Power Consumption – PIII 1G , SDRAM 256MB</b>	<b>Result</b>
Power VCC 4.75V to 5.25V Margin test	Pass
Electrical characteristics – Normal Mode(+5V)	2.04A
Electrical characteristics – Standby Mode(+5V)	1.55A
Electrical characteristics – Normal Mode(+12V)	0A
Electrical characteristics – Standby Mode(+12V)	0A
<b>Network HUB / LAN Function Test</b>	<b>Result</b>
LAN 1 LED Function	Pass
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 [ 10 Mbps ]	Pass
<b>Touch Screen for serial Ports Test</b>	<b>Result</b>
COM 1 Serial Port	Pass
COM 2 Serial Port	Pass
<b>CPU Compatible Test</b>	<b>Result</b>
Intel Celeron ( R ) 300MHz ( 100*3 )	Pass
<b>Memory Test – SDRAM PC-133/100</b>	<b>Result</b>
NEC D45128163G5-A80-9JF/ PC100/ 128MB	Pass
Transecnd V54C3128804VAB7_P187043CGAUB/ PC133/ 256MB	Pass
NYNYA NT56V6620C0F75/ PC133/ 32MB	Pass
NEC D4564162G5-A80-9JF/ PC100/ 32MB	Pass
NEC D45128163G5-A75-9JF/ PC133/ 64MB	Pass
Infinen HYB39S128800CT-7.5/ PC133/ 128MB	Pass
KINGMAX KSV684T4A2A-07L/ PC133/ 256MB	Pass
<b>On Board Audio Function Test</b>	<b>Result</b>
System Sound	Pass
Play CD_IN	Pass

Play Sound Recorder	Pass
Line In	Pass
Line In Sound Recorder	Pass
<b>HDD Compatible Test</b>	<b>Result</b>
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM DTLA-307045 / 46.1GB / ATA100	Pass
IBM DHEA-34330 / 4.3GB / ATA33	Pass
Maxtor 54610H6 / 46.1GB / ATA100	Pass
Maxtor 54098U8 / 40.9GB / ATA66	Pass
Maxtor 2B030H1 / 20GB / ATA100	Pass
Quantum QMP30000AS-A / 30GB / ATA100	Pass
Quantum Fireball™ Ict/ 20.4GB/ ATA66	Pass
Quantum K13600AT / 13GB / ATA66	Pass
Fujitsu MPE 3136AH / 13.6GB / ATA66	Pass
Fujitsu MPC3043AT-E/ 4.3GB/ ATA33	Pass
<b>CDROM / DVDROM Test</b>	<b>Result</b>
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
BENQ 652A-674/ 52X	Pass
Kodak 4802/ 6X	Pass
<b>USB Compatible Test</b>	<b>Result</b>
CMOS Setting Test	Pass
System Booting Test	Pass
CyberLink Power DVD XP4.0 Remote control	Pass
Acer 6406EU-122 CD-ROM	Pass
HP SJ4200C Scanner	Pass
HP Photo Smart P1000 Print	Pass
IOMEGA ZIP 100MB	Pass
D-Link DSB-H4/ DU-H4 HUB	Pass
MITSUMI FLL3.5 D353GUE/FUE	Pass
<b>Floppy Disk Controller Test</b>	<b>Result</b>
Copy and Compare file between C : and A/B	Pass
Format A/B with system transfer and boot PC from floppy	Pass
Change CMOS Floppy is NONE value	Pass

SWAP FDD	Pass
<b>Peripheral Storage Device Compatible test</b>	<b>Result</b>
IOMEGA ZIP100M ( Parallel Type )	Pass
IOMEGA ZIP100M ( IDE Type )	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
Compact Flash	Pass
<b>Industry Control Adapter Card Compatible Test-PC104/PC104Plus</b>	<b>Result</b>
AAEON PCM-3730 / Intel 82559 LAN Module / PC104 Plus	Pass
AAEON PCM-3708 / ATI VGA Mode Module	Pass
AAEON PCM-3430 / SCSI Module	Pass
AAEON PCM-3794 / PCMCIA Module	Pass
<b>On Board I / O Function Test</b>	<b>Result</b>
COM Port Send-Receive Test	Pass
<b>Disk On Module [ DOM ] Compatibility Test</b>	<b>Result</b>
DOM-064-426P /Rev.A2A11 / IDE 44 Pin	Pass
<b>System Integer Application Test</b>	<b>Result</b>
On board I/O Function	Pass
Adapter I/O Function	Pass
<b>BIOS Function Test</b>	<b>Result</b>
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
Power On Function test	Pass
Wake Up Event Test	Pass
CMOS backup Test	Pass
Boot ROM Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass
<b>Performance Test</b>	<b>Result</b>
LandMark Speed 2.0 – CPU	1886
LandMark Speed 2.0 – FPU	5330
LandMark Speed 2.0 – VIDEO	25206
WinStone 99 V1.1 – High_end winstone99	19.4
WinStone 99 V1.1 – Business winstone99	22
WinBench 99 V1.1- High_end Graphic winmark99	313
WinBench 99 V1.1- Business Graphic winmark99	102
WinBench 99 V1.1- FPU winmark	1570
WinBench 99 V1.1- CPU mark99	27
Final Reality V1.01 BenchMark Test – 2D image	3.48

Final Reality V1.01 BenchMark Test – 3D	5.10
Final Reality V1.01 BenchMark Test – Bus transfer	3.68
Final Reality V1.01 BenchMark Test – Overall	4.40
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	0.648
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	14.2
<b>Operation System Compatible Test</b>	<b>Result</b>
Windows 98SE English / Chinese version	Pass
Windows ME English / Chinese version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows NT server 4.0 English version	Pass
Windows NT server 4.0 Chinese ( Simplified character ) version	Pass
Windows 2000 professional English version	Pass
Windows 2000 Server Chinese( Simplified character ) version	Pass
Windows XP Professional Chinese version	Pass
Windows XP Home Edition English version	Pass
DOS and DOS Utility Compatibility Testing	Pass
<b>Utility and Driver Test</b>	<b>Result</b>
Red hat Linux 7.2 hardware compatible list for VGA	Support
Red hat Linux 7.2 hardware compatible list for LAN	Support
Red hat Linux 7.2 hardware compatible list for Audio	Support
VGA for Windows 98SE (Silicon Motion Lynx3DM Family 4.13.01.0073)	Pass
VGA for Windows ME (Silicon Motion Lynx3DM Family 4.13.01.0073)	Pass
VGA for Windows NT 4.0 (Silicon Motion Lynx3DM Family 4.00.1381.0175,4.0.0)	Pass
VGA for Windows 2000P (Silicon Motion Lynx3DM Family 5.00.2195.0182)	Pass
VGA for Windows XP (Silicon Motion Lynx3DM Family 5.1.2432.196)	Pass
LAN for Windows 98SE	Pass
LAN for Windows NT 4.0	Pass
Sound for Windows 98SE (ESS Solo-1 PCI Audio Driver( WDM )5.12.01.3047)	Pass
Sound for Windows ME (ESS Solo-1 PCI Audio Driver ( WDM ) 6.12.10.3055)	Pass
Sound for Windows NT 4.0 (ESS Solo-1 PCI Audio Driver ( WDM ) 4.03.00.5033)	Pass
Sound for Windows 2000P(ESS Solo-1 PCI Audio Driver( WDM ) 5.00.2189.1)	Pass
Sound for Windows XP(ESS Solo-1 PCI Audio Driver ( WDM ) 5.1.2535.0)	Pass
<b>LCD Monitor Function Test</b>	<b>Result</b>
CRT+LCD or CRT+LCD+TV – Dual or Three Display Function Test	Pass
Toshiba / LTM10C273 / TFT / 10.4"	Pass
NEC / NL6448BC33-46 / TFT / 10.4"	Pass
Hyundai HT12X11-200/ LVDS/ 12.1"	Pass
<b>Miscellaneous Test</b>	<b>Result</b>
Windows 98 Power manager test	Pass
Windows 2000 Power manager test	Pass
H/W Reset	Pass
On board buzzer	Pass

HDD LED	Pass
Power LED	Pass
Ext. KB connector	Pass
Watchdog – Software Programming	Pass
ATX power button	Pass
CPU FAN connector	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
LPT1	Pass
LPT2	Pass
PS2 Keyboard / Mouse	Pass
SIR / 115K bps	Pass
LCD Display Function Test	Pass
LVDS Display Function Test	Pass