

# Product Certification Report

Release No : 03E010217

<b>Product Model</b>	<b>GENE-6310</b>
<b>Product Description</b>	<b>AIO SubCompact Board.Eden 6000S CPU.W/LAN,Audio,TV-out,LCD,LVDS,CF,4COMs.Rev.B1.0</b>
<b>Test Reason</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : GENE-6310 Rev:B1.0 <input checked="" type="checkbox"/> BIOS: GENE-6310 BIOS Rev:B1.0 (08/06/2003)  <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:  <input checked="" type="checkbox"/> General Function <input checked="" type="checkbox"/> CPU: VIA C3 EBGA C3 Eden 667MHz <input checked="" type="checkbox"/> Chipset: VIA VT8606 + VIA VT82C686B +W83977EF <input checked="" type="checkbox"/> Audio Chipset: VT82C686B + VIA VT1612A Audio Codec <input checked="" type="checkbox"/> Ethernet Chipset: Realtek RTL 8100, 10/100MB Fast Ethernet Chip

2003-09-02

Wayne Chen

Batty Ko

Issue date

Vice President

Test Engineer

## Test result for certification

<b>Stability Test - Dynamic / Boot_UP Burn_In Test</b>	<b>Result</b>
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C~60°C for 48hours)	Pass
Dynamic Burn-In test. (Power On/Off Operating at 0°C~60°C for 24hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .( Operating at 0°C & 60°C for 2hours)	Pass
LAN Chipset Burn_In Test. ( Operating at 0°C & 60°C for 2hours)	Pass
Boot_Up Burn_In Test .( Operating at Room Temp.)	Pass
<b>Timer Accuracy Test</b>	<b>Result</b>
System clock accuracy of +/-5 sec per day.	Pass
RTC timer accuracy of +/-3 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
<b>Margin Test – Power Consumption – VIA C3 667A , SODRAM 256MB(for AT)</b>	<b>Result</b>
Electrical characteristics – Normal Mode(+5V)	2.4 A
Electrical characteristics – Standby Mode(+5V)	1.4 A
Electrical characteristics – Normal Mode(+12V)	0 A
Electrical characteristics – Standby Mode(+12V)	0 A
<b>Margin Test – Power Consumption – VIA C3 667A , SODRAM 256MB(for ATX)</b>	<b>Result</b>
Electrical characteristics – Normal Mode(+5V)	2.5 A
Electrical characteristics – Standby Mode(+5V)	1.5 A
Electrical characteristics – Normal Mode(+12V)	0 A
Electrical characteristics – Standby Mode(+12V)	0 A
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Support Test (5V only operation)	Pass
<b>Network HUB / LAN Connects Test</b>	<b>Result</b>
LAN1 HP J4095A 24Ports [ 100 /10 Mbps ]	Pass
LAN1 D-Link DES-1008 [ 100 / 10 Mbps ]	Pass
LAN1 Intel InBusiness 8 Ports [ 100 / 10 Mbps ]	Pass
LAN1 LEMEL LM-S5 5 Ports [ 100 / 10 Mbps ]	Pass
LAN1 Accton DeskTop-3005 [ 100 / 10 Mbps ]	Pass
LAN1 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
COM 3 Serial Port	Pass
COM 4 Serial Port	Pass
<b>CPU Compatible Test</b>	<b>Result</b>
VIA C3 667A MHz ( 133 FSB )	Pass

<b>Memory Test – SODRAM PC-133/100</b>	<b>Result</b>
NEC / D45128163G5-A80-9JF / PC-100 / 128MB	Pass
MT / 48LC8M16A2-8E / PC-100 / 64MB	Pass
Hitachi / HB52RF648DC-75B / PC-133 / 512MB	Pass
NANYA / NT56V6620C0T-75S / PC-133 / 64MB	Pass
KINGMAX / KSV684T4A2A-07L / PC-133 / 256MB	Pass
Hitachi / HB52F328DC-75B / PC-133 / 256MB	Pass
Mosel / V54C3128804VAB7 / PC-133 / 256MB	Pass
SAMSUNG / K4SJ60832B-TC75 / PC-133 / 256MB	Pass
<b>On Board Audio Function Test</b>	<b>Result</b>
System Sound	Pass
Play CD_IN	Pass
Play Sound Recorder	Pass
Line Out	Pass
Line In	Pass
Line In Sound Recorder	Pass
MIC Speaker – Dynamic / Condenser	Pass
MIC Speaker Recorder – Dynamic / Condenser	Pass
<b>HDD Compatible Test</b>	<b>Result</b>
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM IC35L180AVV207-1 / 185.2GB / ATA133	Pass
Maxtor 54610H6 / 46.1GB / ATA100	Pass
Maxtor 4G160J8 / 160GB / ATA133	Pass
Maxtor 94098U8 / 40.9GB / ATA66	Pass
Seagate ST340016A / 40GB / ATA100	Pass
Seagate ST380021A / 80GB / ATA100	Pass
W/D WD200EB-OOCPFO / ATA- / 20GB	Pass
W/D WD400BB / ATA- / 40GB	Pass
<b>CDROM / DVDROM Test</b>	<b>Result</b>
NEC C&C-BCD F561B / 52X	Pass
SONY CDU5231 / 52X	Pass
IBM GCR-8480B / 48X	Pass
MITSUMI FX5400W /54X	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
SONY CRX 220A1 / 52X / CD-R / RW	Pass
PHILIPS PBC03210G / DVD-ROM	Pass
<b>USB Compatible Test</b>	<b>Result</b>
CMOS Setting Test	Pass
CyberLink Power DVD XP4.0 Remote control	Pass
PLEXTOR PX-S88TU CD-ROM	Pass
LEMEL MINI Mouse	Pass

HP Photo Smart P1000 Print	Pass
Apacer HANDY STENO 2.0 128MB	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-3430 / SCSI Module / PC104 Plus	Pass
AAEON PCM-3708 / ATI VGA Mode 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
CheckIt 7.0 Portable Edition 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>
PCI cards integer application	Pass
<b>BIOS Function Test</b>	<b>Result</b>
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
ACPI Power manager 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 – CPU VIA C3 667A , SODRAM 256MB</b>	<b>Result</b>
LandMark Speed 2.0 – CPU	3255.29MHz
LandMark Speed 2.0 – FPU	1746.75MHz

LandMark Speed 2.0 – VIDEO	27306Chr/ms
WinBench 99 V1.1- CPU mark99	34.9
WinBench 99 V1.1- FPU winmark	1290
WinBench 99 V1.1- Business Graphic winmark99	211
WinBench 99 V1.1- High_end Graphic winmark99	548
Final Reality V1.01 BenchMark Test – 2D image	2.78
Final Reality V1.01 BenchMark Test – 3D	2.95
Final Reality V1.01 BenchMark Test – Bus transfer	1.19
Final Reality V1.01 BenchMark Test – Overall	2.64
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	0.547
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	14.8
WinStone 99 V1.2 – High_end winstone99	25.7
WinStone 99 V1.2 – Business winstone99	30.3
<b>Operation System Compatible Test</b>	<b>Result</b>
Linux Red Hat 8.0	Pass
Windows 98SE English / Chinese version:4.10.2222A	Pass
Windows 2000 professional English version:5.00..2195	Pass
Windows 2000 Server Chinese ( Simplified character ) version	Pass
Windows XP Professional Chinese version:5.01.2462	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 8.0 hardware compatible list for VGA	Pass
Red hat Linux 8.0 hardware compatible list for LAN	Pass
Red hat Linux 8.0 hardware compatible list for Audio	Pass
VGA for Windows 98SE (Onboard S3 Graphics Twister / 4.13.01.3049.)	Pass
VGA for Windows 2000P (Onboard S3 Graphics Twister / 6.13.10.1100.)	Pass
VGA for Windows XP (Onboard S3 Graphics Twister / 6.13.10.1100.)	Pass
LAN for Windows 98SE (Realtek RTL8139/810X Family PCI Fast Ethernet NIC / 4.10.2222)	Pass
LAN for Windows 2000P (Realtek RTL8139/810X Family PCI Fast Ethernet NIC / 5.505.1004.2002)	Pass
LAN for Windows XP(Realtek RTL8139/810X Family PCI Fast Ethernet NIC / 5.505.1004.2002)	Pass
Sound for Windows 98SE (VIA AC'97 Audio Controller (WDM) / 5.10.0.3731)	Pass
Sound for Windows 2000P (VIA AC'97 Audio Controller (WDM) / 5.10.0.3731)	Pass
Sound for Windows XP (VIA AC'97 Audio Controller (WDM) / 5.10.0.3731)	Pass
Sound for DOS 6.22 (VIA AC'97 Audio Controller (WDM))	Pass
<b>LCD Monitor Function Test</b>	<b>Result</b>
CRT+LCD or CRT+LCD+TV – Dual or Three Display Function Test	Pass
Samsung / LTM150XS-T01 / TFT / 15"	Pass
Toshiba / LTM10C209 / TFT / 12.1"	Pass
Sharp / LQ121S1DG11 / TFT / 12.1"	Pass
HYUNDAI / HT12x11-200EBB / LVDS / 12.1"	Pass

Miscellaneous Test	Result
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
COM3	Pass
COM4	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
SIR / 115K bps	Pass
TV-out /AV & S Output	Pass
LCD Display Function Test	Pass