

Workstation / IPC Product Certification Report

Release No : 04P010018

Product Model	AEC-6810
Product Description	Fanless Embedded Control PC with VIA Eden 667MHz CPU
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : GENE-6310 Rev.B.1.0 <input checked="" type="checkbox"/> BIOS: AEC-6810 BIOS Rev.1.0 (6/24/2004) <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"/> Chipset: <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

2004/5/28

Wenyuan Yang

Andrew Ku

Issue date

Manager

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C ~60°C for 48hours)	Pass
Dynamic Burn-In test. (Coldstart 50 Times 8 hours)	Pass
Dynamic Burn-In test. (Hi Temp.Storage Test 48hours.)	Pass
Dynamic Burn-In test. (Low Temp Storage Test 48hours.)	Pass
Dynamic Burn-In test. (Humidity Test 48 hors.)	Pass
Timer Accuracy Test	Result
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
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
LAN1 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
CPU Compatible Test	Result
VIA / C3 667A MHz / 133*5.0	Pass
Memory Test – SODRAM PC-133	Result
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
INFINEON / HYB39S128800CT-75 /PC-133 /128MB	Pass
On Board Audio Function Test	Result
System Sound	Pass
Line Out	Pass
Line In	Pass
Line In Sound Recorder	Pass
MIC Speaker – Dynamic / Condenser	Pass
MIC Speaker Recorder – Dynamic / Condenser	Pass
Play VCD 10mins	Pass
USB Function Test	Result
USB Function under Windows 98SE	Pass
USB Keyboard under Dos 6.22	Pass
Floppy Disk Controller Test	Result
Copy and Compare file between C : and A/B	Pass
Format A/B with system transfer and boot PC from floppy	Pass

I/O Peripheral Test	Result
FDD Driver A: /B:	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM 1	Pass
COM 2 -232	Pass
COM 3	Pass
COM 4	Pass
COM 2-422	Pass
COM 2-485	Pass
PS/2 MOUSE	Pass
USB Ports	Pass
Compact Flash	Pass
TV-out / AV & S Output	Pass
H/W Reset	Pass
Speaker	Pass
Buzzer	Pass
HDD LED	Pass
Power LED	Pass
LAN LED / Function	Pass
Watchdog Software Control	Pass
Modular System Industrial Workstation Function Test	Result
Power Type(1) EDACI /EA1050A-120 / 60W (AC TO DC)	
Power Type(1) INSTEX / GPC-3030DQ (AC TO DC)	
DC power outlet / inlet	Pass
Power On / Off	Pass
CD-ROM & Floppy drive included	Pass
PS/2 keyboard connector	Pass
DC Power 9V inlet Test (Power Type(2))	Pass
DC Power 30V inlet Test(Power Type(2))	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
ACPI Power manager test	Pass
COM Address/IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass

Performance Test – CPU VIA / C3 667A MHZ, SODRAM 128MB	Result
LandMark Speed 2.0 – CPU	2537.32
LandMark Speed 2.0 – FPU	1868.59
LandMark Speed 2.0 – VIDEO	20480.00
WinBench 99 V1.1- CPU mark99	40.6
WinBench 99 V1.1- FPU winmark	1470
WinBench 99 V1.1- Business Graphic winmark99	158
WinBench 99 V1.1- High_end Graphic winmark99	362
Final Reality V1.01 BenchMark Test – 2D image	4.45
Final Reality V1.01 BenchMark Test – 3D	3.01
Final Reality V1.01 BenchMark Test – Bus transfer	4.49
Final Reality V1.01 BenchMark Test – Overall	3.65
3D Winbench 2000	0.407
Content Creation Winstone 2001	18.5
High End WinStone 99	28.7
Business WinStone 99	26.4
Operation System Compatible Test	Result
Windows 98SE English / Chinese version: 4.10.2222A	Pass
Windows 2000 professional English version: 5.00.2195	Pass
Windows 2000 Server Chinese (Simplified character) 5.00.2195	Pass
Windows XP Professional Chinese version: 5.01.2462	Pass
Windows CE .Net (4.2) version: 6310B_42e	Pass(Note)
Linux 8.0 English Kernel Version 2.4.18-14	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
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 2000S (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 2000S (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 2000S (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

Summary OF Result	
Note ¹	Not to Support USB FDD Function
Note ²	Not to Support IRDA Function.
Note ³	Not to Support Suspend Function
Note ⁴	Not to Support Serial Mouse Function.
Note ⁵	CDROM driver can't support media player to play Video Disc (CD-XA) and Audio CD.
Note ⁶	ActiveSync Connection must use repllog.exe in the Client.
Note ⁷	Not to Support MPEG 4 and MPEG 1 Video System (*.mpg and *.asf).
Note ⁸	Not to Support Network Printer Function.
Note ⁹	Registry : Type or Click rFlush.exe to Save your Registry
Note ¹⁰	Not to support SHARP LQ121S1DG11 / 12.1" / TFT / 800x600 LCD