

Workstation / IPC Product Certification Report

Release No : 05P010008

Product Model	AEC-6820B
Product Description	Embedded control PC. VIA Eden 667MHz CPU. Fanless.PCMCIA.CF Card.DC 9~30V
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB: AEC-6820B A1.0 <input checked="" type="checkbox"/> BIOS: AEC-6820 BIOS Rev.1.0 (07/07/2005) <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 Type: Onboard VIA Eden 667MHz CPU <input checked="" type="checkbox"/> North Bridge : VIA /VT8606 <input checked="" type="checkbox"/> South Bridge : VIA /VT82C686B <input checked="" type="checkbox"/> Audio Chipset : VIA / VT82C686B <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8139C <input checked="" type="checkbox"/> I/O Chipset : VT82C686B+Winbond 83977EF Remark: AEC-6280B P5 Report

2005-9-8

Issue date

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Manager

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Test Engineer

Test result for certification

Stability Test - Dynamic / Boot Up Burn In Test	Result
Dynamic Burn-In test.(-15℃~60℃)	Pass
Dynamic Burn-In test. (Cold start 50 Times at -20℃ for 8hours)	Pass
Dynamic Burn-In test. (Hi Temp. Storage Test at 70℃ for 48hours.)	Pass
Dynamic Burn-In test. (Low Temp Storage Test at -20℃ for 48hours.)	Pass
Dynamic Burn-In test. (Humidity Test 48 hors.)	Pass
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 LEMEL LM-S5 5Ports [100 /10 Mbps]	Pass
LAN1 Acton DeskTop-3005 [100 / 10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
CPU Compatible Test	Result
VIA Eden 667MHz (133x5.0)	Pass
Memory Test – SO-DIMM / SDRAM	Result
Hynix / HY57V561620CT-H / PC-133 / 128MB	Pass
DSL / V54C3128804VAB7 / PC-133 /512MB	Pass
SAMSUNG K4S560832C / PC-133 / 256MB	Pass
Transcend / V54C3128804VAB7 / PC-133 /256MB	Pass
On Board Audio Function Test	Result
System Sound	Pass
Play Sound Recorder	Note 1
Line Out	Pass
Line In	Pass
Line In Sound Recorder	Pass
MIC Speaker – Dynamic / Condenser	Pass
MIC Speaker Recorder – Dynamic / Condenser	Pass
USB Function Test	Result
USB Basic Function under Windows 2000	Pass
I/O Peripheral Test	Result
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM 1	Pass
COM 2 –232	Pass
PS/2 MOUSE	Pass
USB Ports	Pass
Compact Flash	Pass
H/W Reset	Pass
Buzzer	Pass
HDD LED	Pass
Power LED	Pass
Ext. K/B Connector	Pass
LAN LED / Function	Pass

Watchdog	Pass
Card bus	Pass
Modular System Industrial Workstation Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
Front USB Port	Pass
Mechanism construction check	
Panel construction check	Pass
Case construction check	Pass
PCMCIA construction check	Pass
I/O Port connector check	Pass
USB connector check	Pass
IDE Cable Function test	
Cable Function Test under Windows 2000	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager 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
Operation System Compatible Test	Result
Linux / RedHat Linux 9.0	Pass
Windows XP Professional English version with SP1(5.1.2600)	Pass
Windows 2000 professional English version with SP4 (5.00.2195)	Pass
Windows 98SE English version (4.10.2222A)	Pass
DOS and DOS Utility Compatibility Testing	Pass
Performance Test - Celeron M 1.3GHz	Result
VeriTest / WinBench99 V2.0	Pass
VeriTest / Multimedia Content Creation Winstone 2004 v1.0.1	Pass
Futuremark / Final Reality v1.01	Pass
Futuremark / 3Dmark2001SE Pro (Demo version)	Pass
Utility and Driver Test	Result
VGA for Windows 2000P (S3 Graphics Twister Ver.6.13.10.1030)	Pass
VGA for Windows 98SE (S3 Graphics Twister Ver.6.13.10.1030)	Pass
VGA for Windows XP (Intel 82852/82855GM/GE Graphics Ver: 6.14.10.4020)	Pass
LAN for Windows 2000P (Realtek RTL8139/810x Ver:5.612.413.2004)	Pass
LAN for Windows 98SE (Realtek RTL8139/810x Ver: 5.612.413.2004)	Pass
LAN for Windows XP (Realtek RTL8139/810x Ver:5.612.413.2004)	Pass
Sound for Windows 98SE (VIA AC97 Audio Controller (WDM)Ver.5.10.0.3731)	Pass
Sound for Windows 2000P (VIA AC97 Audio Controller (WDM)Ver.5.10.0.3731)	Pass

Sound for Windows XP (VIA AC97 Audio Controller (WDM) Ver.5.10.0.3731)

Pass

Power Consumption Test		
	AT POWER : EA1050F-120 / E102 Rev1.0	
	Onboard VIA Eden 667Mhz	
Normal Mode (+9V)	1.65	A
Suspend Mode (+9V)	1.05	A
Normal Mode (+12V)	1.23	A
Suspend Mode (+12V)	0.83	A
Normal Mode (+24V)	0.66	A
Suspend Mode (+24V)	0.42	A
Normal Mode (+30V)	0.54	A
Suspend Mode (+30V)	0.34	A

Remark: Note 1: This is a known limitation of Gene-6310 in noise