

Workstation / IPC Product Certification Report

Release No : 04P010036

Product Model	AEC-6820
Product Description	Embedded Control PC with Transmeta Crusoe TM5800 733MHz CPU
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB: GENE-6330 Rev.A1.0 <input checked="" type="checkbox"/> BIOS: GENE-6330 BIOS Rev: 1.3 (2/24/2004) <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: Transmeta Crusoe TM5800/VT82C686C <input checked="" type="checkbox"/> Audio Chipset: VIA AC'97 Audio / VIA VT1612A / 0406CD <input checked="" type="checkbox"/> Ethernet Chipset: Realtek RTL8139D

2004-12-24

Wenyuan Yang

Milo Wang

Issue date

Manager

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot Up Burn In Test	Result
Dynamic Burn-In test. (PassMark test at 0 ~50 for 48hours)	Pass
Dynamic Burn-In test. (Coldstaart 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 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
CPU Compatible Test	Result
TM5800 / 733MHz	Pass
Memory Test – SO-DIMM / SDRAM	Result
HITACHI / HB52RF648DC-75 / PC-133 / 512MB	Pass
SAMSUNG / K4S560832C-TC75 / PC-133 / 256MB	Pass
Hynix / HY57V561620CT-H / PC-133 / 128MB	Pass
NEC / D45128163G5-A80-9JF / PC-100 / 128MB	Note ¹
KINGMAX / KSV684T4A2A-07L / PC-133 / 256MB	Note ²
Infineon / HYB39S128800CT-75 / PC-133 / 128 MB	Note ³
HITACHI / HB52F328DC-75B / PC-133 / 128MB	Note ⁴
On Board Audio Function Test	Result
System Sound	Pass
Line Out	Note ⁵
Line In	Note ⁵
Line In Sound Recorder	Note ⁵
MIC Speaker – Dynamic / Condenser	Note ⁵
MIC Speaker Recorder – Dynamic / Condenser	Note ⁵
Play DVD	Note ⁶
USB Function Test	Result
USB Basic Function under Windows 2000	Pass
I/O Peripheral Test	Result
Secondary IDE Master	Pass
Secondary IDE Slave	Pass
COM 1	Pass
COM 2 -232	Pass
COM 2 -422	Pass
COM 2 -485	Pass
PS/2 MOUSE	Pass
LPT 1	Pass

USB Ports	Pass
Compact Lash	Pass
Card Bus	Note ⁷
H/W Reset	Pass
Buzzer	Pass
HDD LED	Pass
Power LED	Pass
LAN LED / Function	Pass
Modular System Industrial Workstation Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
Front USB Port	Pass
Mechanism construction check	
Case construction check	Pass
PCMICA construction check	Pass
I/O Port connector check	Pass
USB connector check	Pass
Component check	Pass
IDE Cable Function test	
Cable Function Test under Windows 2000	Note ⁸
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Note ⁹
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 Password Test	Pass
BIOS Awdflash Program Test	Pass
Operation System Compatible Test	Result
Linux / RedHat Linux 9.0	Note ⁵
Windows Server 2003 English version (5.2.3790 Build 3790)	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 - Transmeta Crusoe TM5800 733MHz CPU	Result
VeriTest / WinBench99 V2.0	Note ¹⁰
VeriTest / 3Dwinbench v1.1	Note ¹¹
Futuremark / Final Reality v1.01	Pass
Futuremark / 3Dmark2001SE Pro (Demo version)	Note ¹²

Utility and Driver Test	Result
VGA for Windows 98SE (Silicon MotinLynx3DM: 9-18-2002)	Pass
VGA for Windows 2000P (Silicon MotinLynx3DM:5/14/2001 5.0.2195.174)	Pass
VGA for Windows XP (Silicon MotinLynx3DM: 5/14/2001 5.0.2195.174)	Pass
LAN for Windows 98SE (Realtek / RTL8139/810x Family Fast Ethernet NIC / Driver: 6-13-2002)	Pass
LAN for Windows 2000P (Realtek/RTL8139/810xFamily Fast Ethernet NIC / Driver: 6/13/2002 5.504.613.2002)	Pass
LAN for Windows XP (Realtek/RTL8139/810xFamily Fast Ethernet NIC / Driver: 6/13/2002 5.504.613.2002)	Pass
Sound for Windows 98SE (VIA AC'97 Audio / VIA VT1612A / 0406CD / Driver:9-12-2002)	Pass
Sound for Windows 2000P (VIA AC'97 Audio / VIA VT1612A / 0406CD / Driver:9/12/2002 5.12.1.3820)	Pass
Sound for Windows XP (VIA AC'97 Audio / VIA VT1612A / 0406CD / Driver:9/12/2002 5.12.1.3820)	Pass

Summary Of Result
Note ¹ The system will hang up when run HCT9.5 test program after 2hrs and 25 mins.
Note ² The system will hang up when run HCT9.5 test program after 5 mins.
Note ³ The system will hang up when run HCT9.5 test program after 3hrs (white silk on the blue background)
Note ⁴ The system will hang up when run HCT9.5 test program after 1hrs.
Note ⁵ The sound had noise when adjust manual frame of Volume Controller and Recorder function.
Note ⁶ The VGA display will be delayed when it is playing DVD function.
Note ⁷ The system can detected PCMCIA device, but disk device can't be show in windows2000.
Note ⁸ The system will hang up when use NEC DVD+/-RW device to install windows 2000(white silk on the blue background)
Note ⁹ The system cannot install Windows 2000 from USB CD-RW ; The system cannot Boot Up from USB-HDD device.
Note ¹⁰ It will hang up when running Business Graphics WinMark 99 and High-End Graphics WinMark99
Note ¹¹ It will hang up when running 3D Quality item at 52' rd pattern
Note ¹² " Could not creat Direct 3D device " was showed during " 3Dmark2001se benchmark software " installation stage.