

Workstation / IPC Product Certification Report

Release No : 04P010022

Product Model	APC-8172
Product Description	Intel Pentium 4/Celeron based Industrial Panel PC with 17" TFT LCD, two free expansion slots
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-8500 Rev:A1.0 <input checked="" type="checkbox"/> BIOS: PCM-8500 BIOS Rev:1.0 (04/27/2004) <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: Intel i845GV / ICH4 + ITE8712 x2 <input checked="" type="checkbox"/> Audio Chipset: ALC 650 Codec <input checked="" type="checkbox"/> Ethernet Chipset: Intel 82562

2004-6-24

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 8hours)	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
Dynamic Burn-In test. (K/B Reset 20 Times) 220V	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.	Note¹
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
Pentium IV 3.06 GHZ (133 x 23)	Pass
Pentium IV 2.66 GHZ (133 x 20)	Pass
Memory Test – SDRAM PC-133/100	Result
Hynix / HY5DU56822BJ-T / DDR 333 / 512MB	Pass
Transcend / V58C2256804SAT5B / DDR 400 / 512MB	Pass
SAMSUNG / K4H560438E-GCCC /DDR 400 / 1GB	Pass
On Board Audio Function Test	Result
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
Optical Fiber Output	Pass
Riser Card Test (Windows 2000 Professional + SP4)	Result
Maxtor G450 / VC-200203 (VGA Card)	Pass
ATI-Radeon 7500 / IDS-200301 (VGA Card)	Pass
Intel SB82559 10/100Mbps / NW-013 (Lan Card)	Pass
Creative Sound Blaster Live5.1 / SC-200200 (Sound Card)	Pass
Takram DC-395U V1.02 / 22-200200 (SCSI Card)	Note²
APTEC/ASC-29160 / SS-200201 (SCSI Card)	Pass
Genuine GM56-AMI2019 / MD-007 (Modem Card)	Pass
D-LINK Air plus DWL-520+ Wireless Adapter	Pass

Full Loading Test	Result
Intel SB82559 10/100Mbps / NW-013 (Lan Card)	Pass
Creative Sound Blaster Live5.1 / SC-200200 (Sound Card)	Pass
USB Function Test	Result
USB Function under Windows 98SE	Pass
Floppy Disk Controller Test	Result
Copy and Compare file between C : and A	Pass
Format A/B with system transfer and boot PC from floppy	Pass
Change CMOS Floppy is NONE value	Pass
I/O Peripheral Test	Result
FDD Driver A:	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM 1	Pass
COM 2 -232	Pass
COM 3	Pass
COM 4	Pass
PS/2 MOUSE	Pass
LPT 1	Pass
USB Ports	Pass
DIO	Pass
H/W Reset	Pass
Buzzer	Pass
HDD LED	Pass
Power LED	Pass
LCD LED	Pass
Ext. K/B Connector	Pass
ATX Power button	Pass
CPU FAN Connector	Pass
LAN LED / Function	Pass
Watchdog	Note ¹
Card Reader Function	Pass
LCD	Pass
Digital I/O Connector Test	Result
DIO Function Test	Pass
Modular System Industrial Workstatuon Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
CD-ROM & Floppy drive included	Pass
Front USB Port	Pass
BIOS Function Test	Result
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
Performance Test – CPU Pentium IV 3.06 GHZ , DDR RAM 512MB	Result
LandMark Speed 2.0 – CPU	66306
LandMark Speed 2.0 – FPU	11488.3
LandMark Speed 2.0 – VIDEO	23976
WinBench 99 V1.1- CPU mark99	190
WinBench 99 V1.1- FPU winmark	6610
WinBench 99 V1.1- Business Graphic winmark99	454
WinBench 99 V1.1- High_end Graphic winmark99	912
Final Reality V1.01 BenchMark Test – 2D image	24.87
Final Reality V1.01 BenchMark Test – 3D	7.81
Final Reality V1.01 BenchMark Test – Bus transfer	28.83
Final Reality V1.01 BenchMark Test – Overall	16
3D Winbench 2000 2000 V1.0 – 3D Winbench 2000 Processor Test	2.42
C.C Winstone 2001	80.4
High End WinStone 99	81.5
Business WinStone 99	Note³
Operation System Compatible Test	Result
Windows 98SE English version (4.10.2222A)	Pass
Windows 2000 professional English version (5.00.2195)	Note⁴
Windows XP Professional English version (5.01.2462)	Pass
DOS and DOS Utility Compatibility Testing	Note⁵
Utility and Driver Test	Result
VGA for Windows 98SE (Intel 82845GV Graphics 11/20/2003 4.14.10.3722)	Pass
VGA for Windows 2000P (Intel 82845GV Graphics 1/16/2004 6.14.10.3751)	Pass
VGA for Windows XP (Intel 82845GV Graphics 11/16/2004 6.14.10.3751)	Pass
LAN for Windows 98SE (Intel PRO/100VE 4/11/2004 7.0.26.0)	Pass
LAN for Windows 2000P (Intel PRO/100VE 3/4/2003 7.0.26.0)	Pass
LAN for Windows XP(Intel PRO/100VE 3/4/2003 7.0.26.0)	Pass
Sound for Windows 98SE (Realtek AC'97 Audio 4/11/2004 5.10.5440)	Pass
Sound for Windows 2000P (Realtek AC'97 Audio 5.10.0.5440)	Pass
Sound for Windows XP (Realtek AC'97 Audio 1/9/2004 5.10.0.5440)	Pass

Summary OF Result

Note¹ Watchdog timer error rate exceeds +/-20%.

Note² The system halted under Win2000 when install SCSI Card in PCI1 or PCI2 Slot and finish driver installing.

Note³ After install VGA driver under win98SE and restart the computer, the LCD had no display.

Note⁴ Under Win2000 , installs WinStone 99 V1.2 and carry out Business Winstone 99 item will present wrong information midway, it is unable to finish running smoothly.

Note⁵ When COMS choose LCD+CRT item, it is unable to show the full screen.

Note¹~**Note**⁵:**Limitation.**