

Workstation / IPC Product Certification Report

Release No : 03P010172

Product Model	<h2>Onyx-158S</h2>
Product Description	LCD PC,15" TFT,PCM-6898,100W AC PS,Glass,CD-ROM,FDD,Speakers
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-6898 Rev:A1.2 <input checked="" type="checkbox"/> BIOS: Onyx-158S Rev1.0 [for PCM-6898] <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:

2003-7-14

Wayne Chen

Angel Chu

Issue date

AVP

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Media Play Operating at 0 ~50 for 48hours)	Pass
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Note ¹
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
Pentium III 1G (133 FSB)	Pass
Pentium III 850MHZ(100FSB)	Pass
Memory Test – SDRAM PC-133/100	Result
ELPIDA D45128841G5-A75-9JF /PC-133 /256MB	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
Game port	Pass
Riser Card Test	Result
Maxtor G450 / VC-200203 (VGA Card)	Pass
SIS 6326 /VC-200200 (VGA Card)	Pass
3COM 3C905-TX /NW-002 (Lan Card)	Pass
D-Link FE-530TX Fast Ethernet Adapter / NW-200202(Lan 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)	Pass
APTEC/ASC-29160 / SS-200201 (SCSI Card)	Pass
Genuine GM56-AMI2019 / MD-007 (Modem Card)	Pass
Lemel ESS ES1868F 3d/16 PnP / SC-005 (Sound Card)	Pass
AHA-1520B / SS-002 (SCSI Card)	Pass
Intel PILA8560 10/100 Mbps / NW-006 (Lan Card)	Pass
USB Compatible Test	Result
CMOS Setting Test	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
Change CMOS Floppy is NONE value	Pass
SWAP FDD	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
PS/2 MOUSE	Pass
LPT 1	Pass
SIR / 115 Kbps	Pass
Speaker	Pass
Buzzer	Pass
Ext. K/B Connector	Pass
ATX Power button	Pass
LAN LED / Function	Pass
Watchdog Software Control	Pass
LCD	Pass
Modular System Industrial Workstatuon Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
CD-ROM & Floppy drive included	Pass
PS/2 keyboard connector	Pass
On Board I / O Function Test	Result
COM Port Send-Receive Test	Pass
CheckIt 7.0 Portable Edition Test	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
ACPI Power manager test	Pass
Power On Function 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
Performance Test – CPU Pentium III 850 , DRAM 128MB	Result
LandMark Speed 2.0 – CPU	6296

LandMark Speed 2.0 – FPU	20910
LandMark Speed 2.0 – VIDEO	44683
WinBench 99 V1.1- CPU mark99	82.5
WinBench 99 V1.1- FPU winmark	5310
WinBench 99 V1.1- Business Graphic winmark99	306
WinBench 99 V1.1- High_end Graphic winmark99	985
Final Reality V1.01 BenchMark Test – 2D image	6.46
Final Reality V1.01 BenchMark Test – 3D	4.82
Final Reality V1.01 BenchMark Test – Bus transfer	3.81
Final Reality V1.01 BenchMark Test – Overall	5.16
High End WinStone 99	53.4
Business WinStone 99	36.2
Operation System Compatible Test	Result
Windows 98SE English version	Pass
Windows ME English version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows 2000 professional English version	Pass
Windows XP Professional Chinese version	Pass
Windows XP Home Edition English version	Pass
Linux 7.2English	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
VGA for Windows 98SE (Onboard S3 Pro Savage4.13.01.3060-13.00.60)	Pass
VGA for Windows ME (Onboard S3 Pro Savage 4.13.01.3060-13.00.60)	Pass
VGA for Windows NT 4.0 (Onboard S3 Pro Savage 13.10.02)	Pass
VGA for Windows 2000P (Onboard S3 Pro Savage 6.13.10.1089)	Pass
VGA for Windows XP (Onboard S3 Pro Savage5.1.2001.0)	Pass
LAN for Windows 98SE (Realtek RTL8139C 5.397.0823.2001)	Pass
LAN for Windows ME (Realtek RTL8139C 5.397.0823.2001)	Pass
LAN for Windows NT 4.0 (Realtek RTL8139C5.397.0823.2001)	Pass
LAN for Windows 2000P (Realtek RTL8139C 5.397.0823.2001)	Pass
LAN for Windows XP(Realtek RTL8139C 5.396.530.2001)	Pass
Sound for Windows 98SE (VIA VT82C686B AC97 Codec 5.12.01.3820)	Pass
Sound for Windows ME (VIA VT82C686B AC97 Codec 5.12.01.3820).	Pass
Sound for Windows NT 4.0 (VIA VT82C686B AC97 Codec)	Pass
Sound for Windows 2000P (VIA VT82C686B AC97 Codec 5.12.01.3820)	Pass
Sound for Windows XP (VIA VT82C686B AC97 Codec 5.1.2535.0)	Pass

Summary OF Result	
Note¹	System clock delay 9 sec. (Acceptable by project team 's decision)
Note²	1.LCD &CRT can't be full screen display in DOS mode. 2.The system supports full screen in 1024x768 in Win98.



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Note³ Screen will display discontinuous before entering windows 98 logo.