

# Product Certification Report

Release No : 05P010009

<b>Product Model</b>	<b>ONYX-173</b>
<b>Product Description</b>	Hospital PC, Celeron M/ Pentium-M(Optional), 17" color TFT LCD
<b>Test Reason</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> System : ONYX-173HTT-A1 <input checked="" type="checkbox"/> PCB : PCM-8200 A1.0 <input checked="" type="checkbox"/> BIOS: ONYX-173 BIOS Rev 1.1 (09/14/2005) <input checked="" type="checkbox"/> Riser Card : PER-1109 Riser Card Rev A0.2 <input checked="" type="checkbox"/> Daughter Board : Y010 I/O Board <input checked="" type="checkbox"/> LCD : CPT 15" Color TFT LVDS 1024x768 (M/N: CLAA150XG01) <input checked="" type="checkbox"/> Touch Screen : Dynapro 15" (M/N: 95409) 8 wire Analog Resistive RS-232 Interface by COM4  <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type: Genuine Intel® Mobile CPU 1.60GHz (100x16.0) <input checked="" type="checkbox"/> North Bridge : Intel 855GME <input checked="" type="checkbox"/> South Bridge : 6300ESB + ITE8712 <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 6CH AC'97 CODEC <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82551ER(10/100MB) <input checked="" type="checkbox"/> I/O Chipset : 6300ESB + ITE8712 <input checked="" type="checkbox"/> TV Chipset : Chrontel 7009  <input checked="" type="checkbox"/> Remark : ONYX-173 NPDP P5 External Test Report

2005/09/20

Wenyuan Yang

Jojo Lin

Issue date

Manager

Test Engineer

**Test Result for Certification**

<b>Dynamic / Boot_UP Burn_In Test</b>				
<b>Test Method</b>		<b>Test Condition</b>		<b>Result</b>
Diagnostics Software Burn-In Test.		0 ~60 , 48 hrs		PASS
Cold Start Test		0 , 8hrs		PASS
Hi Temp.Storage Test: Under Temperature 60 (48 Hours)]		60 , 48 hrs		PASS
Low Temp.Storage Test: Under Temperature -20 (48 Hours)		20 , 48 hrs		PASS
Humidity Test : Under Temperature 40 @ 95%RH(48 Hours)		40 , 95%RH, 48 hrs		PASS
<b>Voltage Range Test</b>				
KB Reset in Dos Mode-220V Power Function Test		20 times in Room Temperature		PASS
<b>OSD Control Function Test</b>				<b>Result</b>
OSD Control Test				PASS
OSD Light Test				PASS
<b>I/O Peripheral Function Test – LAN Connector &amp; Function</b>				<b>Result</b>
LAN 10/100 Ethernet				PASS
<b>Network HUB / LAN Connection Test</b>				<b>Result</b>
LAN Location	LAN Speed	HUB Type	HUB Speed	Result
LAN1	10/100 Mbps	HP J4095A 24 Ports	100 Mbps	PASS
		D-Link DGS-1008T	1Gbps	PASS
		LEMEL LM-S5 5 Ports	100 Mbps	PASS
		Accton Desktop-3005	100 Mbps	PASS
<b>Hardware Compatibility</b>				
<b>CPU Compatible Test</b>				
Type	Speed	FSB	Run HCT Version	Result
Genuine Intel® Mobile CPU	1.60GHz		9.5	PASS
<b>Memory Compatibility Test</b>				
Brand	Chipset	Frequency	Size	Result
Transcend	0344VH V58C2256804SAT5B	DDR400	256	PASS
DSL	Samsung K4H560838F-TCB3	DDR333	512	PASS
Transcend	0344VH V58C2256804SAT5B	DDR400	512	PASS
<b>On Board Audio Function Test</b>				
<b>Audio Basic Function Test</b>				<b>Result</b>
System Sound				PASS
Play Sound Recorder				PASS
Line Out				PASS
Line In				PASS
Line In Sound Record				PASS
MIC Speaker		Dynamic		PASS
		Condenser		PASS
MIC Sound Recorder		Dynamic		PASS
		Condenser		PASS
<b>Riser Card Test</b>				
Model	Type			Result
EP-P80P Rev:0.1	Debug Card			PASS
Maxtor G450	VGA Card			PASS
GeForce 4 MX-440-8X	VGA Card			PASS
3COM 3C905-TX	Lan Card			PASS
DFE-550TX 10/100Mbps	Lan Card			PASS
Intel SB82559 10/100Mbps	Lan Card			PASS
D-Link DGE-530T 10/100/1000Mbps Gigabit	Lan Card			PASS
Creative Sound Blaster Live5.1 SC-3000	Sound Card			PASS
Tekram DC-395U	SCSI Card			PASS

Genuine GM56-AMI2019	Modem Card	PASS
<b>Keyboard Pad Function Test (PC 98 Keyboard Tests Ver.2.09)</b>		
Anykey		PASS
<b>I/O Peripheral Test</b>		
Primary IDE Master/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
LPT 1		PASS
USB Ports		PASS
Compact Flash		PASS
TV-out / AV & S Output3		PASS
Speaker		PASS
Buzzer		PASS
Power LED		PASS
Ext. K/B Connector		PASS
ATX Power button		PASS
CPU FAN Connector		PASS
Watchdog		PASS
LCD		PASS
<b>Modular System Industrial Workstation Function Test</b>		
AC power outlet / inlet		PASS
Power On / Off		PASS
CD-ROM & Floppy drive included		PASS
Digital brightness controller		PASS
OSD Function Test		PASS
<b>Mechanism construction check</b>		
Panel construction check		PASS
Case construction check		PASS
I/O Port connector check		PASS
USB connector check		PASS
Component check		PASS
<b>HDD Compatible Test</b>		
<b>Model</b>		<b>Result</b>
Fujitsu MHT2020AT build in Slim HDD ATA100 20GB		PASS
Hitachi IC25N020ATCS04-0 Slim HDD ATA100 20GB		PASS
<b>CD/DVD-ROM Compatibility Test</b>		
<b>Model</b>		<b>Result</b>
Slim TEAC DV-28SL Build-in DVD-ROM		PASS
<b>IDE Cable Function test</b>		
<b>IDE Model</b>		<b>Result</b>
40 Pin Cable ATA33		PASS
<b>USB Function Test</b>		
<b>USB Basic Function Test</b>		<b>Result</b>
USB Controller		PASS
USB 2.0 Controller		PASS
USB Keyboard Support		PASS
USB Mouse Support		PASS
<b>USB 1.1 Compatible Test</b>		<b>Result</b>
USB 1.1 Compatible Test		PASS
<b>USB 2.0 Compatible Test</b>		<b>Result</b>

USB 2.0 Compatible Test		PASS	
<b>USB 2.0 Function Test</b>		<b>Result</b>	
Use High Speed Device USB2.0 CD-R/W BenQ / 4824W1-ON2 to play Nero CD/DVD Speed		PASS	
<b>COM/LPT Ports &amp; RS-232/422/485 Function Test</b>		<b>Result</b>	
RS-422 for COM2		PASS	
RS-485 for COM2		PASS	
COM1		PASS	
COM2		PASS	
COM3		PASS	
COM4		PASS	
LPT1		PASS	
<b>O.S. Compatibility Test</b>			
<b>Installation Operation System Compatible Test</b>		<b>Result</b>	
Windows XP Professional English Version V2002 with Service Pack 2		PASS	
Windows 2000 Professional English Version V5.00.2195 with Service Pack 4		PASS	
DOS 6.22		PASS	
<b>Utility and Driver Test</b>			
<b>OS</b>	<b>Drivers Version</b>	<b>Result</b>	
Windows XP Professional English Version V2002 with Service Pack 2	VGA	Intel® 82852/82855 GM/GME Graphics Controller V6.14.10.3762 2/10/2004	PASS
	LAN	Intel® 8255XER PCI Adapter V1.0.0.1 5/27/1999	PASS
	Audio	Realtek AC'97 Audio V5.10.0.5490 2/18/2004	PASS
Windows 2000 Professional English Version V5.00.2195 with Service Pack 4	VGA	Intel® 82852/82855 GM/GME Graphics Controller V6.14.10.3762 2/10/2004	PASS
	LAN	Intel® 8255XER PCI Adapter V1.0.0.1	PASS
	Audio	Realtek AC'97 Audio V5.10.0.5490	PASS
DOS 6.22		PASS	
<b>BIOS Function Test</b>		<b>Result</b>	
Standard CMOS Setup Test		PASS	
Boot Sequence Test		PASS	
Power Management Test			
APM Power Management Test		PASS	
ACPI Power Management Test		PASS	
Power On Function Test		PASS	
Wake Up Event Test		PASS	
Power On after Power Failure Test		PASS	
CMOS Backup / Clear CMOS Test		PASS	
Supervisor / User Password Test		PASS	
CRT / LCD Function Test		PASS	
Init Display First Function Test		PASS	
PC Health Status			
Voltage Monitor Test		PASS	
FAN Speed Monitor Test		PASS	
Temperature Monitor Test		PASS	
USB Onboard Device Function Test		PASS	
COM Address / IRQ Test		PASS	
LPT Address / IRQ Test		PASS	
BIOS AWDFLASH Program Test		PASS	
<b>Performance Test</b>			
<b>English Windows 2000 Professional with SP4 5.00.2195 + 1280x1024x32bit / 60Hz + Direct 9.0</b>			
<b>ZD WinBench 99 V2.0</b>		<b>Unit</b>	
Business Disk WinMark99	6230 <sup>2,3</sup>	Thousand bytes/sec	

Business Graphics WinMark99	333 <sup>2.3</sup>	
High-End Disk WinMark99	19600 <sup>2.3</sup>	Thousand bytes/sec
High-End Graphics WinMark99	881 <sup>2.3</sup>	
<b>Final Reality V1.01—BenchMark Test (Reality Marks)</b>		
2D image	25.29	
3D	6.89	
Bus transfer	34.65	
Overall	16.57	Reality marks
<b>ZD 3D Winbench 2000 V1.1</b>		
3D WinMark 2000	4.99 <sup>4.29,43.44</sup>	Frames/Sec
<b>ZD Multimedia Content Creation Winstone 2004 V1.0.1</b>		
Multimedia Content Creation Winstone 2004	Score: 18.7 / Variance: 2.7%	
<b>3Dmark2001SE Pro (Demo version)</b>		
3DMark2001SE Build 330_Benchmark mode	1543	
<b>English Windows XP Professional with SP2 V2002 + 1280x1024x32bit / 60Hz + Direct 9.0</b>		
<b>Business Winstone 2004 v1.0.1</b>		
Business Winstone2004	Score: 18.8 / Variance:0.53%	