

Product Certification Report

Release No : 05P010010

Product Model	ONYX-153
Product Description	Hospital PC, Celeron M/ Pentium-M(Optional), 15" color TFT LCD
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> System : ONYX-153HTT-A1 <input checked="" type="checkbox"/> PCB : PCM-8200 A1.0 <input checked="" type="checkbox"/> BIOS: ONYX-153 BIOS Rev 1.1 (09/15/2005) <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-153 NPDP P5 External Test Report

2005/09/20

Wenyuan Yang

Jojo Lin

Issue date

Manager

Test Engineer

Test Result for Certification

Dynamic / Boot_UP Burn_In Test							
Test Method			Test Condition			Result	
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	
Voltage Range Test							
KB Reset in Dos Mode-220V Power Function Test			20 times in Room Temperature			PASS	
OSD Control Function Test							
OSD Control Test						PASS	
OSD Light Test						PASS	
I/O Peripheral Function Test – LAN Connector & Function							
LAN 10/100 Ethernet						PASS	
Power Consumption Test							
		ATX Power: FSP180-50MP 165W			AT Power:		
		CPU: Genuine Intel® Mobile CPU 1.60GHz (100x16.0)		CPU:	CPU:	CPU:	
Normal Mode (+5V)		6.28	A	A	A	A	A
Suspend Mode (+5V)		0.02	A	A	A	A	A
5VSB in Power Off Mode (just for ATX)		0.14	A	A	-----	A	-----
Normal Mode (+12V)		1.18	A	A	A	A	A
Suspend Mode (+12V)		0	A	A	A	A	A
Normal Mode (+3.3V) (just for ATX)		0	A	A	-----	A	-----
Suspend Mode (+3.3V) (just for ATX)		0	A	A	-----	A	-----
Normal Mode (-12V)		0	A	A	A	A	A
Suspend Mode (-12V)		0	A	A	A	A	A
Normal Mode (-5V)		N/A	A	A	A	A	A
Suspend Mode (-5V)		N/A	A	A	A	A	A
Network HUB / LAN Connection Test							Result
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	
Hardware Compatibility							
CPU Compatible Test							
Type	Speed	FSB	Run HCT Version	Result			
Genuine Intel® Mobile CPU	1.60GHz		9.5	PASS			
Memory Compatibility Test							
Brand	Chipset	Frequency	Size	Result			
Transcend	0344VH V58C2256804SAT5B	DDR400	256	PASS			
DSL	Samsung K4H560838F-TCB3	DDR333	512	PASS			
Transcend	0344VH V58C2256804SAT5B	DDR400	512	PASS			
On Board Audio Function Test							
Audio Basic Function Test							Result
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
Riser Card Test		
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
Keyboard Pad Function Test (PC 98 Keyboard Tests Ver.2.09)		
Anykey		PASS
I/O Peripheral Test		
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
Modular System Industrial Workstation Function Test		
AC power outlet / inlet		PASS
Power On / Off		PASS
CD-ROM & Floppy drive included		PASS
Digital brightness controller		PASS
OSD Function Test		PASS
Mechanism construction check		
Panel construction check		PASS
Case construction check		PASS
I/O Port connector check		PASS
USB connector check		PASS
Component check		PASS
HDD Compatible Test		

Model		Result	
Fujitsu MHT2020AT build in Slim HDD ATA100 20GB		PASS	
Hitachi IC25N020ATCS04-0 Slim HDD ATA100 20GB		PASS	
CD/DVD-ROM Compatibility Test			
Model		Result	
Slim TEAC DV-28SL Build-in DVD-ROM		PASS	
IDE Cable Function test			
IDE Model		Result	
40 Pin Cable ATA33		PASS	
USB Function Test			
USB Basic Function Test		Result	
USB Controller		PASS	
USB 2.0 Controller		PASS	
USB Keyboard Support		PASS	
USB Mouse Support		PASS	
USB 1.1 Compatible Test		Result	
USB 1.1 Compatible Test		PASS	
USB 2.0 Compatible Test		Result	
USB 2.0 Compatible Test		PASS	
USB 2.0 Function Test		Result	
Use High Speed Device USB2.0 CD-R/W BenQ / 4824W1-ON2 to play Nero CD/DVD Speed		PASS	
COM/LPT Ports & RS-232/422/485 Function Test			
RS-422 for COM2		PASS	
RS-485 for COM2		PASS	
COM1		PASS	
COM2		PASS	
COM3		PASS	
COM4		PASS	
LPT1		PASS	
O.S. Compatibility Test			
Installation Operation System Compatible Test		Result	
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	
Utility and Driver Test			
OS	Drivers Version		Result
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	
BIOS Function Test		Result	
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
Performance Test		
English Windows 2000 Professional with SP4 5.00.2195 + 1280x1024x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0		Unit
Business Disk WinMark99	5910 ^{2.3}	Thousand bytes/sec
Business Graphics WinMark99	350 ^{2.3.7}	
High-End Disk WinMark99	18500 ^{2.3}	Thousand bytes/sec
High-End Graphics WinMark99	890 ^{2.3.7}	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D image	23.83	
3D	6.69	
Bus transfer	32.85	
Overall	15.76	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	68.4 ^{1.5.29}	Frames/Sec
ZD Multimedia Content Creation Winstone 2004 V1.0.1		
Multimedia Content Creation Winstone 2004	Score: 20.2 / Variance: 3%	
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	2168	
English Windows XP Professional with SP2 V2002 + 1280x1024x32bit / 60Hz + Direct 9.0		
Business Winstone 2004 v1.0.1		
Business Winstone2004	Score: 18.4 / Variance: 1.1%	