

Report NO:11E010008

# RTC-1000AS

## 10.2",Medical Tablet Computer,Semi Rugged P5 Verification Test Report

Summary	<input checked="" type="checkbox"/> <b>Pass</b>			
	<input type="checkbox"/> <b>Fail</b>			
<input type="checkbox"/> <b>Pass with Deviation</b>				
<b>Comment:</b> _____				
<b>Test Result Summary</b>				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date	Approval	Test Engineer
2010 / 03 / 11	Jansin Lee	Nisam Jone

## Test Suites Overall Results Summary

No.	Test Category	Test Results
1	OSD Control Function Test	PASS
2	Basic Function Test	PASS
3	Integration Test	PASS
4	Application Test	PASS
5	PC Health Status Test	PASS
6	Time Accuracy Test	PASS
7	O.S. Compatibility Test	PASS
8	BIOS Test	PASS
9	Performance Test	PASS

## Platform Information

Item	Device Information	Test Item
PCB Model / Version	RTC-1000AS	1,2,3,4,5,6,7,8,9
CPU Board	RTC-1000A Rev 0.2	1,2,3,4,5,6,7,8,9
Carrier Board	N/A	1,2,3,4,5,6,7,8,9
BIOS / Version	RTC-1000A BIOS Rev 1.1(04/29/2010)	1,2,3,4,5,6,7,8,9
CPU Type	Intel ATOM CPU N270 @ 1.60GHz / FSB-533MHz	1,2,3,4,5,6,7,8,9
Memory Type	Team Group INC. DDR2 SO-DIMM 667 2GB – Hynix H5PS1G83EER	1,2,3,4,5,6,7,8,9
SATA HDD	WD 2.5" SATA H.D 80GB/ WD800BEVT / RPM-5400	1,2,3,4,5,6,7,8,9
Compact Flash	Transcend 2G/4G	1,2,3,4,5,6,7,8,9
LVDS	CPT 10.2 LCD / CLAA102NA0ACW	1,2,3,4,5,6,7,8,9
CRT	HANNS.G LCD Monitor HK191H - HSG1049	1,2,3,4,5,6,7,8,9
Touch Panel	Liyitec PIC16F819 4-wire, Analog Resistive	1,2,3,4,5,6,7,8,9
Daughter Board	N/A	1,2,3,4,5,6,7,8,9
Expansion Board	N/A	1,2,3,4,5,6,7,8,9
	N/A	1,2,3,4,5,6,7,8,9
	N/A	1,2,3,4,5,6,7,8,9
Operating System	<input type="checkbox"/> Linux-RedHat 9.0	7-1
	<input type="checkbox"/> Fedora Core 10 Kernel	
	<input type="checkbox"/> Windows 7 Ultimate 32/64Bit	7-2
	<input checked="" type="checkbox"/> Windows XP Embedded English SP3 32 Bit	7-3
Power Supply	AC Adapter : LI SHIN – 0335A2065- 100V-240V,50~60Hz,65W	1,2,3,4,5,6,7,8,9
Battery Model	Smart Lithium-Ion high capacity battery	1,2,3,4,5,6,7,8,9

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There are 3 test results in this document; they are described as follows:

**Pass:** Function worked perfectly

**Fail:** Function failed and must be modified in the next version

**N/A:** Outside of specifications or no test equipment

The test report would be tested and updated after version changed.

●Version Released Records

Date	Version	Item	Note
2010/04/21	P5-1001	1. 調整文字表格前後對齊 2. Modify 新版首頁	
2010/06/01	P5-1001	1. New Test Report	
2010/06/21	P5-1002	1. Add BIOS -> SPI ROM Setting (South Bridge – GPIO)	
2010/09/02	P5-1003	1. Modify All Test Items	

# 1. OSD Control Function Test

## 1.1. OSD Control Test

### Hot key Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
Power	X			
Enter Key	X			
Backspace Key	X			
Security Key	X			
Direction Key	X			
Function Key	X			
Function + Direction Up	X			
Function + Direction Down	X			
Function + Direction Right	X			
Function + Direction Left	X			
Function + 0			X	
Function + 4	X			
Function + 7	X			
Function + 9	X			
Function + 5	X			
Function + 1	X			

### Numeric keypad Test

Function Key	Function			Note
	Pass	Fail	N/A	
Power Button	X			
Security Button	X			
Function Button	X			
Backspace Button	X			
Quick-Launch Button	X			
Enter Button	X			
Tab Button	X			
Up/Down Button	X			
Left/Right Button	X			
Numeric Key	X			

## 1.2. OSD Light Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
Power off	X			
Power on	X			
Stand by	X			Into S1 / S3 and see light function

## 1.3. Modular System Industrial Workstation Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
AC power outlet / inlet	X			
Power On / Off	X			

Power LED	X			
H.D.D LED	X			
CD-ROM drive included			X	
Floppy drive included			X	
Lockable front-panel door			X	
Finger mouse	X			
Data-entry&20/24 Function keys	X			

#### 1.4. Mechanism construction check

Test Item	Result			Note
	Pass	Fail	N/A	
Case construction check	X			
PCMCIA construction check	X			
CF Card construction check	X			
Component check	X			

## 2. Basic Function Test

### 2.1. Video Function Test

#### 2.1.1. Single Output Function Test

Interface	Model Name									
VGA	LG FLATRON L1753T 17" LCD Monitor									
DVI	N/A									
TV	N/A									
LVDS	CPT 10.2 LCD / CLAA102NA0ACW									
Color Quality	[ X ] 16bit [ ] 24bit [ X ] 32bit									
Resolution	VGA			DVI			LVDS			Note
	Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A	
640X480			X			X			X	
800X600	X					X	X			
1024X600	X					X	X			
1152X864			X			X			X	
1280X600			X			X			X	
1280X720			X			X			X	
1280X768			X			X			X	
1280X960			X			X			X	
1280X1024			X			X			X	
1400X1050			X			X			X	
1600X900			X			X			X	
1600X1200			X			X			X	
1600X1050			X			X			X	
1792X1344			X			X			X	
1856X1392			X			X			X	
1920X1080			X			X			X	
1920X1200			X			X			X	
1920X1440			X			X			X	
2048X1536			X			X			X	
Rotation	X					X	X			Rotation ( 0 / 90 /180 /270)

Note: Pay attention with Full Screen under POST screen and Text Mode.

#### 2.1.2. Dual Output Function Test

Selection	Output	Result			Note
		Pass	Fail	N/A	
Dual Display Clone	VGA + LVDS	X			
Dual Display Twin				X	
Extended Desktop		X			

### 2.1.3. Video Resolution Test

Test points:

1. Power on without inserting any VGA connector until system reaches Windows desktop
2. Plug VGA connector into test machine while system reaches Windows then check VGA driver and display
3. Check VGA output Brightness is normal and it shows "Ghost Image" / "Flicker" or not

	Result			Note
	Pass	Fail	N/A	
In Windows Desktop			X	







### 2.2. Audio Function Test

[ ] No Support

Function Test	Result			Note
	Pass	Fail	N/A	
L (Left) Channel	X			
R (Right) Channel	X			
CD_In			X	
Line In	X			
MICROPHONE	X			
6-channel mode for 5.1 speaker output			X	
8-channel mode for 7.1 speaker output			X	
S/P DIF function Test	Input		X	
	Output		X	

### 2.3. LAN Function Test

[ ] No Support

Connect two computers via different speed LAN HUB by using "Ping" instruction (1000 times)									
1000Mbps LAN HUB		D-Link DGS-1008D							
100MBps LAN HUB		HP J4095A 24 Ports							
10MBps LAN HUB		SVEC FD916H							
OnBoard LAN1		Intel 82574L Gigabit Network Adapter – 10.3.49.0 – 2008/08/05							
OnBoard LAN2		N/A							
LAN Speed	Link / Active LED	Speed LED	LAN 1			LAN 2			Note
			Pass	Fail	N/A	Pass	Fail	N/A	
1000Mbps			X					X	
100MBps			X					X	
10MBps			X					X	
Wake On LAN					X			X	
Boot ROM to Novell 4.11 [RPL]					X			X	
LAN Boot (PXE)			X					X	
Internet Browser (DHCP Server)			X					X	



### 2.3.2. SmartBits Test

DUT Platform Information: [ X ] No Support

<input type="checkbox"/> Fedora Core 10
<input type="checkbox"/> Cent 5.5
<input type="checkbox"/> Ubuntu 10.1
<input type="checkbox"/> Red Hat

Graphics Media	Fedora Core	Default setting
LAN	Fedora Core	Default setting
	Fedora Core	Default setting
Audio Driver	Fedora Core	Default setting

SMB Platform Information:

Chassis	<b>SPIRENT Smartbits 600B</b>
Chassis Version	2.80.003 (Cur) 2.50.000
Chassis Serial #	06014047
Library	6.00-29
API	5.50.42.01
File	0550042
Module	2 * LAN-3324A SmartMetrics XD 4-Port 10/100/1000Base-T Gigabit Ethernet
Test Software	SmartFlow5.50.42.1

Test Result: Half Direction

2. Binary Direction

### 2.4. Others Function Test

Function Test	Result			Note
	Pass	Fail	N/A	
3G Module			X	
GPRS			X	
Wireless LAN (3DSP Wireless 802.11 B+G USB Adapter - 1.1.0.0 - 2007/04/18	X			
Bluetooth (Bluetooth PAN Network Adapter - 6.0.12.56 -	X			

### 3. Integration Test

#### 3.1. USB Port Integration Test

Item	USB Port	Boot			Function(XP)			Note
		Pass	Fail	N/A	Pass	Fail	N/A	
USB HDD		X			X			
USB FDD Mitsumi D353GUE		X			X			
SONY USB2.0 DVD-R/W DRX-830UL		X			X			
USB Hub Test (Connect USB Device) HUB Port1: USB Keyboard / HUB Port2: USB Mouse / HUB Port3: USB HDD								
USB 2.0 HUB PowerSync / USB 2.0 4 Port HU-155					X			

#### 3.2. Digital I/O Port Test

DIO Address ( ____ )	Result			Notes
	Pass	Fail	N/A	
DIO VCC +5V			X	

#### 3.3. COM Port Integration Test

Test Item	Result			Notes
	Pass	Fail	N/A	
Serial Modem Dial Out	X			
Serial Modem	Ring In		X	Test by Modem
	+12V		X	Test by Multimeter
	+5V		X	Test by Multimeter
BurnIn Test V6.0 Pro	X			

#### 3.4. RS-422 / RS-485 Test

Test Item	Result			Notes
	Pass	Fail	N/A	
RS-422 for COM2			X	Use loopback and WINSSD.exe to test RS-422 in Windows
RS-485 for COM2			X	Use ICP CON I-7044D D/IO Module in Windows(Support Auto flow control)
			X	The communication between the RS-485 pots of two boards is linked by one 100m cable on Windows Terminal

#### 3.5. LPT Port Test

Test Item	Result			Notes
	Pass	Fail	N/A	
XEROX Phaser 3124 Laser Printer			X	

## 4. Application Test

### 4.1. PCI Slot Function (PCI Adapter Card) Test [ X ] No Support

Adapter VGA Card	Set Simultaneous Display and Reboot			Note
	Pass	Fail	N/A	
CHAINTECH NVIDIA GeForce4 MX440-8X				
Adapter Sound Card	Play Sound			Note
	Pass	Fail	N/A	
Creative Sound BLASTER Live5.1				
Adapter SCSI Card	Copy files to SCSI HDD			Note
	Pass	Fail	N/A	
ADAPTEC Ultra160 SCSI ASC-29160				
Adapter Image Capture Card	Connect to CCD			Note
	Pass	Fail	N/A	
I-VIEW CP-1400AS (with Age STD-477FAI CCD)				
Adapter LAN Card	Connect to Internet			Note
	Pass	Fail	N/A	
Intel GD82559 10/100 Mbps Fast Ethernet Adapter				
INTEL PWLA8391GTBLK Pro/1000 Giga LAN Card				
Adapter RAID Card	RAID 0 , 1 , 10 Function Test			Note
	Pass	Fail	N/A	
ADAPTEC 1420SA RoHS 4-Port SATA II RAID				

### 4.2. PCI-Express Function Test

PCI-Express x1	Function Test			Note
	Pass	Fail	N/A	
SUNIX SATA1414 eSATA & SATAII x1Express card			X	
Syskonnect SK-9E21D 10 /100/1000 Base-T Adapter PCI-Express x1 LAN Card			X	
PCI-Express x4	Function Test			Note
	Pass	Fail	N/A	
Adaptec AAR-1430SA SATAII HostRAID Controllers			X	
PCI-Express x16	Function Test			Note
	Pass	Fail	N/A	
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card			X	
WINFAST PX6200 TC TDH PCI-Express x16 VGA Card			X	
Express card	Function Test			Note
	Pass	Fail	N/A	
SUNIX SATA II Express card			X	
SunBox 34mm Giga LAN Express Card			X	
Mini PCI Express Card	Function Test			Note
	Pass	Fail	N/A	
AECO Wireless mini card 802.11 b/g + Bluetooth 2.0 EDR Class 1 module	X			

4.3. Mini PCI Card Compatibility Test  No Support

Device Item	Function Test			Note
	Pass	Fail	N/A	
Mini PCI.10/100 Base-Tx LAN (W/Intel.82551QM .A1.0) (Model:PER-C10L)				
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)				
ADLINK mPCI-8750 ATI Rage XL Mini PCI VGA Card				

4.4. CardBus (PCMCIA) Compatibility Function Test  No Support

Device Item	Bit	Function Test			Note
		Pass	Fail	N/A	
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)	Slot 1 (Up)	16			[PC-200200]
	Slot 2 (Down)				
Kingston datapack DP-PCM2 / 2GB (PC Card Typell HDD)	Slot 1 (Up)	32			[PC-200201]
	Slot 2 (Down)				
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	Slot 1 (Up)	32			[PC-200502]
	Slot 2 (Down)				
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	Slot 2 (Down)	16			[PC-200502]

4.5. ISA Slot Function Test  No Support

Test Item	Result			Note
	Pass	Fail	N/A	
SCSI Card Adaptec AHA-1520B SCSI Card				[SS-002]
LAN Card NE2000 Compatible LAN Card (RTL8019AS)				[NW-014]
VGA Card CIRRUS LOGIC 5429 FCC ID:ICUVGA-GWV27A				[VC-008]

4.6. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules

4.6.1. Device List: PC/104 Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3660				

4.6.2. Device List: PC/104+ Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3430				

4.6.3. Device List: PCI-104 Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3730				

4.6.4. Device List: PCI/104 Express Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PER-123				

4.7. SSD Modules Compatibility Test

SSD HDD Compatibility Test:

Cable Type:  IDE  SATA2  MLC  SLC  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
Transcend SSD 16G - TS16GSSD25S				

4.8. Riser Card Function Test  No Support

Test Item	Result			Note
	Pass	Fail	N/A	
LAN				
PCI Slot				
PCI-e Slot				

## 5. PC Health Status Test

### 5.1. PC Health Status

Test Point: The value between Actual Voltage and Voltage Monitor must be + /- 5%

Voltage Monitoring Test	Result			BIOS(V)	Tracker (V)	Note
	Pass	Fail	N/A			
CPU Temp	X			50°C		
DRAM Temp	X			40°C		

## 6. Time Accuracy Test

### 6.1. System Clock & RTC Clock Test

Under Room Temperature: 26 °C

Item Function	Time Interval	Margin for error	Actual	Result			Note
				Pass	Fail	N/A	
RTC Clock in Power On Mode	24 hrs	+/-2 sec	-2 Sec	X			
RTC Clock in Power Off Mode	24 hrs	+/-2 sec	-1 Sec	X			

### 6.2. Watchdog Timer Test

Use Function as below: aaeonwdt

[ ] No Support.

Time-out interval	Margin for error	Actual	Result			Note
			Pass	Fail	N/A	
10 sec	+/- 10%	10.06 Sec	X			Software provided by Aaeon S/W
60 sec	+/- 10%	61.18 Sec	X			

Note : Under Room Temperature: 26°C / DOS Mode

## 7. O.S. Compatibility Test

### 7.1. English Fedora Core 13 – Kernel

[ X ] No Support

Driver Information:

Chipset Software	System default
Graphics Media	System default
LAN Driver	System default
Audio Driver	System default

Install OS to IDE HDD/SATA HDD/ CF Card:

Installation	Result			Note
	Pass	Fail	N/A	
Please fill in OS version ex:				Type uname -a

Test Result:

Test Item	Result			Note
	Pass	Fail	N/A	
<b>Display Function Test</b>				
VGA -- Full Screen				
DVI -- Full Screen				
LVDS -- Full Screen				
VGA + DVI				
VGA + LVDS				
DVI + LVDS				
<b>Network Function Test</b>				
Connect to Internet – LAN 1				
Connect to Internet – LAN 2				
<b>Audio Function Test</b>				
Play Audio Function Test				Play Audio Test
<b>Base Function Test</b>				
Mouse Test				
Keyboard Test				
CD-ROM Test				
USB 2.0 Removable Devices				
<b>X Windows Application</b>				
Start Button Office				Office function
X-Window				Startx – Desktop in Linux
<b>Command Test On Text Mode: Attention Delay Phenomenon.</b>				
uname -a				Show information
Shutdown				Init 0 or shutdown -h now
Restart the Computer				Init 6 or shutdown -r now
Halt				Power Off Mode
ls / clear .....; cd /dev /ls -l				Command instruction

## 7.2. Windows 7 Ultimate English Version 32/64Bit

No Support

x32 Driver Information:

Chipset Software	
Graphics Media	
LAN Driver	
Audio Driver	

x64 Driver Information:

Chipset Software	
Graphics Media	
LAN Driver	
Audio Driver	

Install OS to IDE HDD/SATA HDD/ CF Card:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows 7 Ultimate ACPI Mode				

Test Results:

Test Item	Result			Note
	Pass	Fail	N/A	
<b>Single Display</b>				
VGA -- Full Screen				
DVI -- Full Screen				
LVDS -- Full Screen				
<b>Boot - Windows 7 Ultimate Advanced Options Menu</b>				
Safe Mode				
<b>Basic Function Test</b>				
PS/2 Mouse and Keyboard				
USB Mouse and Keyboard				
COM Port Mouse detect				
LPT1				
USB 2.0 Removable Devices				
<b>LAN Function Test</b>				
LAN1 --- Auto				
LAN2 --- Auto				
<b>Audio Function Test</b>				
Line Out Test				
Line In Test				
Microphone Test				
S/P DIF Test				
<b>Start Menu</b>				
Log off User				
Shut down (S5)				
Standby				
Restart				
Hibernate (S4)				



### 7.3. Windows XP Embedded

#### Driver Information:

Chipset Software	Intel Chipset Device software – 9.0.0.1008 – 2008/05/01
Graphics Media	Mobile Intel 945 Express Chipset Family – 6.14.10.4864– 2007/08/24
LAN Driver	Intel 82574L Gigabit Network Adapter – 10.3.49.0 – 2008/08/05 3DSP Wireless 802.11 B+G USB Adapter - 1.1.0.0 - 2007/04/18 Bluetooth PAN Network Adapter - 6.0.12.56 - 2007/03/05
Audio Driver	Realtek High Definition Audio – 5.10.0.572 – 2009/01/06

### Functional Features

Boot Sequence device Test	Power Management Method			
	ACPI Mode			Notes
	Pass	Fail	N/A	
SATA HDD (FUJITSU 80G)	X			
CFD (Transcend /LBA,PIO 4 / 4GB & Transcend / LBA , ATA33 /2GB )			X	
<b>Boot Test</b>				
Boot system to Windows Desktop	X			
“Evaluation Copy” will be shown on evaluation image. No “Evaluation Copy” will not be shown on release image.			X	
<b>Device Manager Test</b>				
No exclamation mark shown on the list	X			
<b>Burn In Test</b>				
Play VCD using build in Windows Media Player V10 for 15 hours	X			
<b>EFW (Enhanced Write Filter) Function Test</b>				
EFW default setting must be “disable”	X			
EFW command – enable (X:\>ewfmgr C: -enable)	X			
EFW command – commitanddisable (X:\>ewfmgr C: -commitanddisable)	X			
EFW command – commit (X:\>ewfmgr C: -commit)	X			
<b>Windows Advanced Options Menu</b>				
Safe Mode	X			
Enable VGA Mode	X			
Last known Good Configuration (your most recent settings that worked)	X			
<b>Shutdown from Start Menu</b>				
Shutdown	X			
Restart	X			
Log Off User	X			
Standby	X			
Hibernate	X			
<b>Display Testing</b>				
Enter Screen Saver and wake up	X			
<b>Resolution</b>	<b>Color</b>			
800x600	Medium (16 bit)			X
	Highest (32 bit)			X
1024x600	Medium (16 bit)			X
	Highest (32 bit)			X
1280x1024	Medium (16 bit)			X
	Highest (32 bit)			X
1600x1200	Medium (16 bit)			X
	Highest (32 bit)			X
<b>Peripheral Test</b>				
COM Port Mouse	Logitech Serial Mouse– COM1	X		
COM Port Mouse	Logitech Serial Mouse– COM2			X

COM Port Mouse	Logitech Serial Mouse– COM3			X	
COM Port Mouse	Logitech Serial Mouse– COM4			X	
PS2	Mouse, Keyboard Test			X	
LPT Port Printer	EPSON STYLUS C61			X	
Mini PCI Function Test					
PCM-PV050V VGA Card				X	
USB Device Compatibility Test					
USB Hub	ESENSE USB2.0 HUB USE216	X			
USB Mouse	Logitech M-UV94	X			
USB Keyboard	T.C.STAR TCK62	X			
USB HDD	1394b+USB2.0 External Box (MP-FBHUB20P-V2.0 E10-7073161D60) (Include Fujitsu MHT2020AC 2.5" IDE HDD)	X			
USB CD/DVD-ROM	ASUS DVD+RW DRW-1604P-D	X			
	LITEON DVD /CD DX-20A4PU	X			
USB Floppy	TEAC FD-05PUB			X	

## 8. BIOS Function Test

### 8.1. Boot Sequence Test

Test Item	Result			Note
	Pass	Fail	N/A	
Floppy			X	
Hard Disk	X			
Removable (All Device Priority)			X	
CDROM	X			
USB HDD	X			
USB Floppy	X			
USB CD-ROM	X			
LAN [ Boot From LAN First ]	X			
Disable	X			
Check "Halt on" item – All error but K/B	X			

### 8.2. Power Management Test

#### 8.2.1. APM Power Management Test

Test Item	Setting Test	Result			Note
		Pass	Fail	N/A	
Suspend Mode	Function Test			X	
Power Button	Delay 4 Sec			X	Soft-Off By PWRBTN
Power Button	Instant-Off			X	Soft-Off By PWRBTN

#### 8.2.2. ACPI Power Management Test

Test Item	Result			Note
	Pass	Fail	N/A	
Enable ACPI Auto Configuration			X	
Enable Hibernation			X	From Windows 7
ACPI - S1 (POS)	X			Resume from PS/2 keyboard or mouse.
	X			Resume from USB keyboard or mouse.
ACPI - S3 (STR)	X			
Suspend Disable			X	

### 8.3. Power On after Power Failure Test

Test Item	Result			Note
	Pass	Fail	N/A	
Off			X	
On			X	
Former-Sts (Auto)			X	

### 8.4. AAEON Tag Check Utility

Test Item	Result			Note
	Pass	Fail	N/A	
Check AAEON BIOS OK	X			AONCHECK.EXE

### 8.5. TPM Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
No Change			X	
Clear			X	
Enable & Active			X	
Disable & Disactive			X	Detect TPM device under Windows.

### 8.6. IAMT Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
IAMT Function			X	

### 8.7. Supervisor / User Password Test

Test Item	Result			Note
	Pass	Fail	N/A	
Supervisor Password			X	
User Password			X	

### 8.8. CAN port Function Test

Basic Function Test					Note
Test Item	Interrupt: Polling or IRQ	Result			
		Pass	Fail	NA	
CAN1 transmits CAN2	CAN1:			X	
	CAN2			X	
CAN2 transmits CAN1	CAN2:			X	
	CAN1:			X	

Note: Sets the interrupt for each port. Be sure that this setting matches the IRQ

## 9. Performance Test

### 9.1. Performance Test

Test Result: (Display set 1024\*600 Test)

Testing Software	Result	Unit
<b>PCMark2002</b>		
CPU	2606	
Memory	N/A	
HDD	N/A	
<b>Final Reality V1.01—BenchMark Test</b>		
2D image	17.46	
3D	3.95	
Bus transfer	30.76	
Overall	12.03	Reality marks
<b>3Dmark2001</b>		
3Dmark Score	2910	
Testing Software	Result	Unit
<b>PCMark05</b>		
PCMark	N/A	PCMarks
CPU	1472	
Memory	2346	
Graphics	N/A	
HDD	4125	
<b>3Dmark2003</b>		
3Dmark Score	702	
CPU Score	237	

Remark: Please uses below two performance software to test mainboard if the chipset is new enough.  
 (ex. Intel Core 2 Duo CPU)

### 9.2. Memory Test

Test Item	Result			Note
	Pass	Fail	N/A	
MEM v4.0 Overnight Test	X			