

P5 Verification Test Plan

Release No : 10E010005

Product Model	RTC-1000D
Description	10.2",XP-embedded,Rugged Tablet Computer
Test Configuration	<p>⌘New product</p> <p>⌘System : RTC-1000D</p> <p>⌘PCB : T8NY1_PCB_ME_YNA</p> <p>⌘BIOS : 09/18/09 13:36:12 Ver: TANY3.003 KBC BIOS Version: 0.00.02</p> <p>⌘Power Supply : LI SHIN AC ADAPTER-0335A2065</p> <p>⌘Battery : LI-ION RECHARGEABLE Battery / DR202 DC11.1V / 7800mAh</p> <p>⌘LCD : CPT 10.2 LCD / CLAA102NA0ACW</p> <p>⌘Touch Panel : Liyitec PIC16F819 4-wire,Analog Resistive</p> <p>⌘M/B Chipset :</p> <p>⌘North Bridge : Intel 945GME</p> <p>⌘South Bridge : Intel ICH7-M</p> <p>⌘VGA Chipset : Intel 945GME integrated Graphics VGA</p> <p>⌘Audio Chipset : Realtek ALC262</p> <p>⌘Ethernet Chipset : Intel AGERE ET1310</p> <p>⌘I/O Chipset : SMSC SIO10N268</p> <p>⌘Remark : QE P5 Report for RTC-1000D</p>
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2010 /03/04

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Issue date

Manager

Test Engineer

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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 specification or no test equipment

Platform Information:

Item	Device Information	Test Item
PCB Model	RTC-1000	1,2,3,4,5,6,7,8
BIOS / Version	09/18/09 13:36:12 Ver: TANY3.003 KBC BIOS Version: 0.00.02	1,2,3,4,5,6,7,8
CPU Type	Intel Celeron M Processor Yonah ULV 1.2GHz(U2500) 533MHz	1,2,3,4,5,6,7,8
Memory Type	DSL DDR2 SO-DIMM 667 1G / ELPIDA / E5108AJBG-6E-E / 0802A90BY	1,2,3,4,5,6,7,8
SATA HDD	WD 2.5' SATA H.D 80G / WD800BEVT-00ZCT0	1,2,3,4,5,6,7,8
Primary IDE Master	N/A	N/A
Primary IDE Slave	N/A	N/A
CRT	N/A	N/A
LCD	CPT 10.2 LCD / CLAA102NA0ACW	1,2,3,4,5,6,7,8
Compact Flash	N/A	N/A
PCI-104	N/A	N/A
Backplane	N/A	N/A
Operating System	[] Linux-RedHat 9.0 or [] Fedora Core 4.0 [] Fedora Core 7.0	N/A
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 2	N/A
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	N/A
	Windows Server 2000 English Version	N/A
	Windows 98SE English Version V4.10.2222A	N/A
	MS-DOS 6.22 English Version	N/A
	Windows XP Embedded	1,2,3,4,5,6,7,8
Power Supply	ATX Power : N/A	N/A
	AT Power : N/A	N/A
	DC Power: LI SHIN – 0335A2065- 100V-240V,50~60Hz,65W	1,2,3,4,5,6,7,8
Battery	LI-ION RECHARGEABLE Battery / DR202 DC11.1V / 7800mAh	1,2,3,4,5,6,7,8

OSD Control Function Test

OSD Control Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
Power	X			
Enter Key	X			
Backspace Key	X			
Security Key	X			
Trigger 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			OSD Control by system
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			

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

Test Result for Certification

1. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	Pass	Fail	N/A
Floppy Connector / Driver A:			X
Primary IDE Master			X
Primary IDE Slave			X
Secondary IDE Master			X
Secondary IDE Slave			X
Third IDE Master			X
Third IDE Slave			X
RAID 0 Function Test			X
RAID 1 Function Test			X
SATA1 / Serial ATA Connector 1	X		
SATA2 / Serial ATA Connector 2			X
SATA3 / Serial ATA Connector 3			X
SATA4 / Serial ATA Connector 4			X
Compact Flash – Type I	X		
Compact Flash – Type II			X
DOC (Disk On Chip)			X
DOM (Disk On Module) – 40 Pin			X
DOM (Disk On Module) – 44 Pin			X
COM 1-232			X
COM 2-232			X
COM 2-422			X
COM 2-485			X
COM 2-Ring /+5V /+12V			X
COM 3-232			X
COM 4-232	X		
COM 5-232			X
COM 6-232			X
PS/2 Mouse & Keyboard (Internal)			X
PS/2 Mouse & Keyboard (External)			X
Audio Connector	X		
Audio 5.1 Channel / S/P DIF			X
LPT 1			X
LPT 2			X
SIR / 115.2 Kbps			X
FIR / 4M bps			X
USB 1/2 Ports	X		
USB 3 Ports - Mini USB Port	X		
USB 4/5/6 Ports	X		
USB 2.0 1/2 Ports	X		
USB 2.0 3 Ports - Mini USB Port	X		
USB 2.0 4/5/6 Ports			X

DVI Function			X
DIO Connector			X
Card Bus			X
PC/104			X
PC/104-Plus			X
PCI-104			X
CD-In Connector			X
TFT TTL LCD			X
TFT LVDS LCD			X
TV-out / S Terminal			X
TV-out / AV Terminal			X
Touch Screen – 4 Wire	X		
Touch Screen – 5 Wire			X
DIMM Slots	X		
Watchdog IRQ n			X
Watchdog Software Control			X
CPU FAN Connector			X
System FAN Connector	X		
Front Panel	Result		
	Pass	Fail	N/A
Power On Button	X		
IDE LED	X		
External Buzzer			X
On Board Buzzer			X
Power LED	X		
Reset Switch			X
Keyboard Lock			X
Jumpers Function	Result		
	Pass	Fail	N/A
Clear CMOS			X
Power Connector & Function	Result		
	Pass	Fail	N/A
AC Power Connector	X		
ATX Power Connector			X
AT Power Connector			X
LAN Connector & Function	Result		
	Pass	Fail	N/A
LAN Speed LED	LAN1		X
	LAN2		X
LAN Active LED	LAN1		X
	LAN2		X
LAN Link LED	LAN1		X
	LAN2		X
LAN 10/100 Ethernet	X		
LAN 1G Ethernet	X		
PCI Connector & Function	Result		

	Pass	Fail	N/A
Mini PCI Slots			X
PCI Slots			X
PCI Express			X
Mini PCI- Express - QCOM Q802XKG Wireless mini-card(802.11b+g)	X		
PCMCIA Function	Result		
	Pass	Fail	N/A
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)	X		
Accton 10/100 Fast Ethernet CardBus PC Card	X		

2. Power Connector Test (110V / 240V)

Test Method	Result		
	Pass	Fail	N/A
AC Power Connector- Power On/Off for 10 times in DOS	X		
ATX Connector - Power On/Off for 10 times in DOS			X
AT Connector - Power On/Off for 10 times in DOS			X

3. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power Off Mode	±1 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec			X
	60 sec			X
	255 sec			X

4. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Active LED						X
		Link LED						X
		Speed LED						X
LAN2 LED		Active LED						X
		Link LED						X
		Speed LED						X
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
		D-Link DGS-1008T	100M	1GBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

5. Hardware Compatibility

CPU Compatible Test							
CPU Type		FSB	Prime95 Version	Result			
				Pass	Fail	N/A	
Intel Celeron M Processor Yonah ULV 1.2GHz(U2500)		533	V25.90	X			
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
DSL	ELPIDA E5108A JBG-6E-E	667	1 G	V2.11	X		
Audio Basic Function Test					Result		
System Sound					X		
CD_In							X
CD_In Sound Recorder							X
Play Sound Recorder							X
Line Out					X		
Line In							X
Line In Sound Record							X
MIC Speaker			Dynamic		X		
			Condenser		X		
MIC Sound Recorder			Dynamic		X		
			Condenser		X		
Audio 5.1 Channel with S/P DIF Function Test					Result		
2-channel mode for stereo speaker output							X
4-channel mode for 4 speaker output							X
6-channel mode for 5.1 speaker output							X
S/P DIF function Test			Input				X
			Output				X
On Board TV Function Test					Result		
					Pass	Fail	N/A
NTSC		AV Terminal					X
PAL							X
NTSC		S Terminal					X
PAL							X
On Board LCD Function Test							

TFT LCD	Type	Voltage	Result		
			Pass	Fail	N/A
LVDS	Sharp LQ12S1LG61 /12"/800*600	3.3V			X
	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V			X
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V			X
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X
	AU M170EG01 / 17"/ 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit	5V			X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit	26V			X
Model LVDS	CPT CLAA102NA0ACW/ 8.2" / 1024*600 /	3.3V	X		
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X

PCI Slot Function (PCI Adapter Card) Test

Model	Type	Result		
		Pass	Fail	N/A
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
SC3000 CMI8738/C3DX	Sound Card			X
Takram DC-395U V1.02	SCSI Card			X
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card			X
D-Link DWL-520+ Wireless LAN	LAN Card			X
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card			X
D-Link DU-520 USB 2.0	USB Hub Card			X

ISA Slot Function Test

	Result		
	Pass	Fail	N/A
Creative CT4170 Sound Blaster Sound Card			X
Adaptec AHA-1510/20/22B SCSI Card			X

PCI-Express Function Test

Model	Result		
	Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card			X
SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card			X
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card			X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card			X
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X

HDD Compatibility Test

Model	Result

	Pass	Fail	N/A
WD 2.5" SATA H.D 80G / WD800BEVT-00ZCT0	X		
CD/DVD-ROM Compatibility Test			
Model	Result		
	Pass	Fail	N/A
LITE-ON LITEON DX-20A4PU (USB DVD-ROM)	X		
SONY USB2.0 DVD-R/W DRX-830UL	X		
IDE Cable Function test			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA66			X
44 Pin Cable ATA33			X
80 Pin Cable ATA100			X
USB Function Test			
USB Basic Function Test	Result		
	Pass	Fail	N/A
USB Controller	X		
USB 2.0 Controller	X		
USB Keyboard Support	X		
USB Mouse Support	X		
USB 1.1 Compatible Test	Result		
	Pass	Fail	N/A
USB 1.1 Compatible Test	X		
USB 2.0 Compatible Test	Result		
	Pass	Fail	N/A
USB 2.0 Compatible Test	X		
USB 2.0 Function Test	Result		
	Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS	X		
USB Device Full Loading Test			
Model	Pass	Fail	N/A
Mitsumi FLL3.5 D353GUE/FUE	X		
USB HDD 20GB	X		
USB Card Reader	X		
USB Mouse	X		
USB Thumb drive - Kingston 4Gb	X		
Floppy Disk Controller Function Test	Result		
	Pass	Fail	N/A

Copy and compare file between C: and A / B:				X	
Change Floppy to None value				X	
Swap FDD				X	
Peripheral Compatibility-Storage Device					
Model	Interface	Result			
		Pass	Fail	N/A	
FUJITSU MCB3064SS	SCSI			X	
IOMega ZIP 100 parallel port	Parallel			X	
IOMega ZIP100MB Internal ATAPI Drive	IDE			X	
DOC				X	
Type-I CF	Fix / PIO Mode	X			
Type-I CF	Fix / UDMA Mode	X			
Digital I/O Connector Test		Result			
		Pass	Fail	N/A	
Input Address:				X	
Output Address:				X	
VCC: (5V)				X	
DIO-1 Function Test				X	
DIO-2 Function Test				X	
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules					
Interface	Model	Type	Result		
			Pass	Fail	N/A
PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-FA00	Mini-PCI Converter			X
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board RAID Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
Set SATA HDDs as RAID 0	SATA			X	
Set SATA HDDs as RAID 1	SATA			X	
Set SATA HDDs as RAID 10	SATA			X	
Set SATA HDDs as RAID 5	SATA			X	
COM Function Test		Result			
		Pass	Fail	N/A	
COM Port Burn In Test overnight –COM4		X			
Disk On Module [DOM] Compatibility Test					
Model	Interface	Result			
		Pass	Fail	N/A	
Transcend / TS512MDOM40V / 512MB	IDE 40 Pin			X	

Transcend / TS512MDOM44V / 512MB	IDE 44 Pin			X
Mini PCI Card Compatibility Test				
Model (Use PCI-104 transform board: MBC-1TM Rev.A1.0)	Interface	Result		
		Pass	Fail	N/A
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	LAN			X
PER-C20S SATA RAID MiniPCI Card (Silicon Image Sil3512ECTU128 QF7227.1-1)	SATA			X
COM/LPT Ports & RS-232/422/485 Function Test		Result		
		Pass	Fail	N/A
RS-422 for COM2				X
RS-485 for COM2				X
RS-232 for COM4		X		
COM1				X
LPT1				X
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test				
Model	Result			
	Pass	Fail	N/A	
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)	X			
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)	X			
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)	X			
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	X			

6. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
[] Linux-RedHat 9.0 or [] Fedora Core 4.0 [] Fedora Core 7.0					X
Windows Server 2003 English Version / Standard Edition 5.2.3790					X
Windows Server 2003 English Version /Standard x64 Edition					X
Windows XP Professional English Version V2002 Service Pack 3					X
Windows XP Professional English Version /Standard x64 Edition					X
Windows 2000 Professional English Version V5.00.2195 Service Pack4					X
Windows Server 2000 English Version					X
Windows 98SE English Version V4.10.2222A					X
DOS 6.22 English Version					X
Windows XP Embedded			X		
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Linux-Red-Hat 9.0 / Kernel 2.4.20-8	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2003 English Version Standard x64 Edition	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2000 English Version	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 98SE	Chipset Software	N/A			X

English Version V4.10.2222A	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Embedded	Chipset Software	Intel Chipset Device software -- 8.3.0.1013 -- 2007/03/05	X		
	Graphics Media	Mobile Intel 945 Express Chipset Family -- 6.14.10.4864 -- 2007/08/24	X		
	LAN Driver	Agere Systems ET-131x PCI-E Gigabit Ethernet -- 1.2.16.0 -- 2006/02/22 3DSP Wireless 802.11B+G USB Adapter -- 1.8.2.0 -- 2008/11/02	X		
	Audio Driver	Realtek High Definition Audio -- 5.10.0.5470 -- 2007/08/22	X		

7. BIOS Function Test (AMI BIOS)

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test			X
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
APM Power Management Test			X
ACPI Power Management Test			X
Power On Function Test			X
Wake Up Event Test			X
Power On after Power Failure Test			X
CMOS Backup / Clear CMOS Test			X
Boot ROM Test (RPL/PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test			X
TV Standard Function Test			X
Init Display First Function Test			X
On-Chip Serial ATA Function Test			X
SATA Mode-IDE/RAID Function Test			X
PC Health Status			
Voltage Monitor Test			X
FAN Speed Monitor Test			X
Temperature Monitor Test			X
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test			X
BIOS AMI Program Test	X		

8. Performance Test

Platform Information

PCB Model	RTC-1000
BIOS	09/18/09 13:36:12 Ver: TANY3.003 KBC BIOS Version: 0.00.02
Operating System	Windows XP Embedded
CPU	Intel Core Duo Processor Yonah ULV 1.2GHz(U2500) FSB- 533MHz
Memory	DSL DDR2 SO-DIMM 667 1G / ELPIDA / E5108AJBG-6E-E / 0802A90BY
SATA HDD	WD 2.5' SATA H.D 80G / WD800BEVT-00ZCT0
Primary Master	WD 2.5' SATA H.D 80G / WD800BEVT-00ZCT0
Primary Slave	N/A
CRT	N/A
LCD	CPT 10.2 LCD / CLAA102NA0ACW
Riser Card	N/A
Chipset Software	Intel Chipset Device software – 8.3.0.1013 – 2007/03/05
Graphics Media	Mobile Intel 945 Express Chipset Family – 6.14.10.4864 – 2007/08/24
LAN Driver	Agere Systems ET-131x PCI-E Gigabit Ethernet – 1.2.16.0 – 2006/02/22 3DSP Wireless 802.11 B+G USB Adapter - 1.8.2.0 - 2008/11/02 Bluetooth PAN Network Adapter - 6.0.12.56 - 2007/03/05
Audio Driver	Realtek High Definition Audio – 5.10.0.5470 -2007/08/22
Power Supply	LI SHIN – 0335A2065- 100V-240V,50~60Hz,65W

Test result:

Final Reality V1.01—BenchMark Test (Reality Marks) (1024*600)		
2D Image	24.31	
3D	5.26	
Bus transfer	23.50	
Overall	13.71	Reality marks
3Dmark2001SE Pro (1024*600)		
3Dmark2001SE Build 330_Benchmark mode	4208	
3Dmark2003 v360 (1024*600)		
3Dmark Score	1115	
PCMark2002 (1024*600)		
CPU	4063	
Memory	N/A	
HDD	N/A	
PCMark05 (1024*600)		
PCMark	N/A	
CPU	2036	
Memory	2054	
Graphics	N/A	
HDD	4561	