

P5 Verification Test Plan

Release No: 09E010041

Product Model	PFM-945C
Description	Intel Navy Pier(Diamondville)
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> CPU Board : PFM-945C A1.0 <input checked="" type="checkbox"/> BIOS : PFM-945C BIOS Rev 1.0(06/08/2009) <input checked="" type="checkbox"/> Carrier Board : N/A <input checked="" type="checkbox"/> Expansion Board : N/A <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU : Intel(R) Atom(TM) CPU N270 1.6GHz <input checked="" type="checkbox"/> North Bridge : Intel 945GSE <input checked="" type="checkbox"/> South Bridge : Intel ICH7-M(Intel NH828001GBM) <input checked="" type="checkbox"/> VGA Chipset : Intel 945GSE integrated VGA <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82551ER <input checked="" type="checkbox"/> I/O Chipset : SMSC3114-NU <input checked="" type="checkbox"/> TV Chipset : N/A <input checked="" type="checkbox"/> SDVO : N/A <input checked="" type="checkbox"/> Remark : QE P5 Report for PFM-945C
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2009/09/08

Issue date

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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
PCB Model / Version	PFM-945C A1.0
Carrier Board	N/A
BIOS / Version	PFM-945C BIOS Rev 1.0(06/08/2009)
CPU Type	Intel(R) Atom(TM) CPU N270 1.6GHz
Memory Type	On Board Hynix DDRII 1GB(hynix HY5PS1G1631CFP-Y5)
SATA HDD	Seagate ST3160815AS 160GB
SATA DVD	N/A
Primary IDE Master	N/A
Primary IDE Slave	N/A
CRT	Hanns.G HK191H
LCD	N/A
Compact Flash	N/A
Riser Card	N/A
Backplane	N/A
Operating System	[<input type="checkbox"/>] Linux-RedHat 9.0 or [<input checked="" type="checkbox"/>] Fedora Core 4.0 Windows XP Professional English Version V2002 Service Pack 3
Power Supply	ATX Power : Seventeam / ST-300BLP /300W AT Power : PRM400

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 7.1 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 3/4 Ports	X		
USB 5/6 Ports			X
USB 7/8 Ports			X
USB 2.0 1/2 Ports	X		
USB 2.0 3/4 Ports	X		

USB 2.0 5/6 Ports			X
USB 2.0 7/8 Ports			X
DIO Connector			X
Card Bus			X
PC/104			X
PC/104-Plus			X
PCI-104	X		
PCI / 104 Express	X		
CD-In Connector			X
TFT TTL LCD			X
TFT LVDS LCD	X		
TV-out / S Terminal			X
TV-out / AV Terminal			X
DVI			X
HDMI			X
Component Video : Y/ Pb /Pr			X
Touch Screen – 4 Wire	X		
Touch Screen – 5 Wire	X		
Touch Screen – 8 Wire	X		
DIMM Slots			X
Watchdog IRQ n			X
Watchdog Software Control	X		
FAN 1 Connector	X		
System FAN Connector			X
Battery Connector	X		
Front Panel	Result		
	Pass	Fail	N/A
Power On Button(CN1)	X		
IDE LED(CN1)	X		
External Buzzer(CN1)	X		
On Board Buzzer(CN1)	X		
Power LED(CN1)	X		
Reset Switch(CN1)	X		
Keyboard Lock			X
LAN Speed LED(CN2)	X		
LAN Active LED(CN2)	X		
Jumpers Function	Result		
	Pass	Fail	N/A
ATX simulates AT			X
AT/ATX Power Selection(S1)	X		
Audio Out Selection (W/O & W/ Amplifier)			X
LCD Power Select			X
COM1-Ring/5V/12V Selection			X
COM2-Ring/5V/12V Selection	X		
COM2 RS-232/422/485 Selection (Depends on BIOS)	X		
COM3-Ring/5V/12V Selection			X

COM4-Ring/5V/12V Selection			X
Clear CMOS	X		
Touch Screen Operating Mode Selection			X
Clock Shift of TFT LCD			X
PCI104 VIO Selection			X
LCD Inverter Voltage Selection	X		
LVDS-LCD Voltage Selection	X		
Touch Screen Selection	X		
Power Connector & Function	Result		
	Pass	Fail	N/A
5V only Power for Big 4P			X
ATX Power Connector			X
ATX Power_12V Connector			X
AT Power Connector			X
Big 4P Power Connector			X
Mini 4P Power Connector			X
External Power Connector(-12/-5V)			X
Option ATX Power Connector (PS-ON / +5VSB)			X
DC Input (12V)	X		
LAN Connector & Function	Result		
	Pass	Fail	N/A
LAN Link / Speed LED	LAN1	X	
	LAN2		X
LAN Active 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 card			X
Express card			X

2. Power Consumption Test (Run Prime95 Program)

Platform Information

CPU Board	PFM-945C A1.0
Carrier Board	N/A
BIOS	PFM-945C BIOS Rev 0.9(2009/04/21)
Operating System	English Windows XP Professional Service Pack 3 V2002

CRT	LG L1753T 17" LCD Monitor
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
	N/A
Chipset Software	Intel(R) Chipset Device Software 9.0.0.1008
Graphics Media	Mobile Intel(R) 945 Express Chipset Family 6.14.10.4926(2/15/2008)
LAN Driver	Intel(R)8255xER PCI Adapter 1.0.0.1(5/27/1999)
Audio Driver	Realtek AC'97 Audio 5.10.0.6240(4/25/2007)
Touchscreen Driver	N/A
Power Supply	AT Power: ZECK ZKS-300W

Test Environment Model	AT Power: ZECK ZKS-300W		AT Power: ZECK ZKS-300W		AT Power: ZECK ZKS-300W	
CPU	Intel(R) Atom(TM) CPU N270 1.6GHz		Intel(R) Atom(TM) CPU N270 1.6GHz		Intel(R) Atom(TM) CPU N270 1.6GHz	
HDD	Seagate ST3160815AS 160GB		Fujitsu MHW2060BH 60GB		Transcend CF Card 4GB for Industrial TS4GCF133	
RAM	On Board Hynix DDRII 1GB(hynix HY5PS1G1631CFP-Y5)		On Board Hynix DDRII 1GB(hynix HY5PS1G1631CFP-Y5)		On Board Hynix DDRII 1GB(hynix HY5PS1G1631CFP-Y5)	
OS Environment	English Windows XP Professional Service Pack 3 V2002		English Windows XP Professional Service Pack 3 V2002		English Windows XP Professional Service Pack 3 V2002	
Normal Mode (+5V)	N/A	A	N/A	A	N/A	A
Suspend Mode (+5V)	N/A	A	N/A	A	N/A	A
5VSB in Power Off Mode (just for ATX)	N/A	A	-----	A	N/A	A
5VSB in Power On Mode (just for ATX)	N/A	A	-----	A	N/A	A

Normal Mode (+12V)	1.56	A	1.54	A	1.16	A
Suspend Mode (+12V)	0.89	A	-----	A	0.79	A
Normal Mode (+3.3V) (just for ATX)	N/A	A	-----	A	N/A	A
Suspend Mode (+3.3V) (just for ATX)	N/A	A	-----	A	N/A	A
Normal Mode (-12V)	N/A	A	N/A	A	N/A	A
Suspend Mode (-12V)	N/A	A	N/A	A	N/A	A
Normal Mode (-5V)	N/A	A	N/A	A	N/A	A
Suspend Mode (-5V)	N/A	A	N/A	A	N/A	A

3. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
RTC Clock in Power On Mode	±3 second during 24 hours	X		
RTC Clock in Power Off Mode	±3 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		Link / Speed LED				X		
		Active LED				X		
LAN2 LED		Link / Speed LED						X
		Active LED						X
Location	Speed	HUB Type	Cable	HUB	Onboard	Result		

			Length	Speed	LAN Speed	Pass	Fail	N/A
Onboard LAN1	10/100/1000 Mbps	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		
Onboard LAN2	10/100/1000 Mbps	D-Link DGS-1008T	100M	1GBps	1000			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(R) Atom(TM) CPU N270 1.6GHz		533MHz	V.256	X				
		MHz	V.256					
Memory Compatibility Test								
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result			
					Pass	Fail	N/A	
On Board Hynix DDRII 1GB	Hynix HY5PS1G1631CFP-Y 5	533	1GB	V2.01	X			
Audio Basic Function Test				Result				
				Pass	Fail	N/A		
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				
Play MIC Sound Recorder				X				
Audio 5.1 Channel with S/P DIF Function Test				Result				
				Pass	Fail	N/A		

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
8-channel mode for 7.1 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
LCD Function Test								
TFT LCD	Type	Voltage	Result					
			On Board LCD			PER-T123 Rev 0.2		
			Pass	Fail	N/A	Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V	X			X		
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X			X
	Data Image 7" / 800*480 / 18bit (16:9)	3.3V	X			X		
	AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)	3.3V	X			X		
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V	X			X		
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X	X		
	Toshiba /12.1"/1280 x 768 x 18bit (16:9)	3.3V	X			X		
	AU M170EG01 / 17"/ 1280*1024 / 48bit (4:3)	5V			X	X		
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X	X		
	AUO T260XW02 / 26" / 1366x768 / 24bit	5V			X	X		
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X	X		
	AUO T370HW01 / 37" / 1920x1080 / 48bit	5V			X			X
AUO M190PW01 V0 / 19"/1440X900/48 bit	5V			X			X	
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X			X

	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X			X

PCI Slot Function (PCI Adapter Card) Test

Model	Type	Result		
		Pass	Fail	N/A
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
Creative Sound BLASTER Live5.1	Sound Card			X
Takram DC-395U V1.02	SCSI Card			X
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card			X
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card			X
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card			X
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card			X
D-Link DWL-520+ Wireless LAN	LAN Card			X
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card			X
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem Card			X
D-Link DU-520 USB 2.0	USB Hub Card			X
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card			X

ISA Slot Function Test

Model	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
Seagate ST3160815AS 160GB	X		
Fujitsu MHW2060BH 60GB	X		

IDE Cable Function test

IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA100			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 (Only Enable Mode)		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		
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: BF				X
Output Address: 33				X
VCC: (5V), Position : (801)				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

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
	SOFTEX PCM-225-V2.0	PCMCIA Module	X		
On-Board SCSI Function Test					
Model		Interface	Result		
			Pass	Fail	N/A
RICOH MP7060S		SCSI-CDROM 24X			X
Fujitsu MCB3064SS		SCSI-MO Device			X
Seagate 32155W		SCSI-HDD 2.15GB			X
IBM DNES-309170		SCSI-HDD 9GB			X
Seagate ST39205LW/P		9GB / Ultra160 / LVD			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 (9600 & 115200 Kbits/Sec)			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		Interface	Result		
			Pass	Fail	N/A
PCI 10/100 LAN Mini PCI Card (Model:PER-C10L)		LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)		WLAN			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		
COM1			X		

COM2	X		
COM3	X		
COM4	X		
COM5			X
COM6			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-Red Hat 9.0 or [X] Fedora Core 4		X			
Windows Vista TM Ultimate English Version				X	
Windows Vista TM Ultimate x64 Edition English Version				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 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4				X	
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4				X	
Windows Server 2000 English Version				X	
Windows Server 2003 English Version / Standard Edition 5.2.3790				X	
Windows Server 2003 English Version /Standard x64 Edition				X	
Windows 98SE English Version V4.10.2222A				X	
DOS 6.22 English Version				X	
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Linux-Fedora 9 / Kernel- 2.6.25-14-FC9	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN Driver	Default Driver	X		
	Audio Driver	Default Driver	X		
Windows Vista TM Ultimate English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Vista TM Ultimate x64 Edition English Version	Chipset Software				X
	Graphics Media				X

	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 3	Chipset Software	Intel(R) Chipset Device Software 9.0.0.1008	X		
	Graphics Media	Mobile Intel(R) 945 Express Chipset Family 6.14.10.4926(2/15/2008)	X		
	LAN Driver	Intel(R)8255xER PCI Adapter 1.0.0.1(5/27/1999)	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.6240(4/25/2007)	X		
	Touch Driver	PenMount USB Mouse 2.1.0.0(5/13/2008)	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2000 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2003 English Version Standard x64 Edition	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 98SE English Version V4.10.2222A	Chipset Software				X
	Graphics Media				X
	LAN Driver				X

	Audio Driver			X
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7. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test(On Board Memory)			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 (On /Off)	X		
CMOS Backup / Clear CMOS Test	X		
Boot ROM Test (RPL/PXE)			X
Supervisor / User Password Test	X		
CRT / LCD 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 AWDFLASH Program Test	X		

8. Performance Test

Platform Information

CPU Board	PFM-945C A1.0
Carrier Board	N/A
BIOS	PFM-945C BIOS Rev 0.5(2009/02/26)
Operating System	English Windows XP Professional Service Pack 3 V2002
CPU	Intel(R) Atom(TM) CPU N270 1.6GHz
Memory	On Board Hynix DDRII 1GB(hynix HY5PS1G1631CFP-Y5)
SATA HDD	Seagate ST3160815AS 160GB
Primary IDE Master	N/A
Primary IDE Slave	N/A

CRT	LG L1753T 17" LCD Panel
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
	N/A
Chipset Software	Intel(R) Chipset Device Software 9.0.0.1008
Graphics Media	Mobile Intel(R) 945 Express Chipset Family 6.14.10.4926(2/15/2008)
LAN Driver	Intel(R)8255xER PCI Adapter 1.0.0.1(5/27/1999)
Audio Driver	Realtek AC'97 Audio 5.10.0.6240(4/25/2007)
Touchscreen Driver	N/A
Power Supply	COOLERMASTER RS-390-PMSR-A3

Test result:

Testing Software	Result	Unit
PCMark2002		
CPU	2653	
Memory	6259	
HDD	1517	
Final Reality V1.01—BenchMark Test		
2D image	18.96	
3D	3.95	
Bus transfer	34.52	
Overall	13.04	Reality marks
3Dmark2001		
3Dmark2001SE Build 330_Benchmark mode	2824	

Test Result:

Testing Software	Result	Unit
PCMark05		
PCMark	1594	PCMarks
CPU	1484	
Memory	2391	
Graphics	467	
HDD	5421	
3Dmark2003 v360		
3Dmark Score	704	

CPU Score	24.7	
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**Remark: Please uses below two performance software to test main board if the chipset is new enough.
(ex. Intel Core 2 Duo CPU)**