

Product Certification Report

Release No : 05E090099

Product Model	PFM-532I
Product Description	STPC CONSUMER-II PC/104 Board
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PFM-532I Rev.A0.2 <input checked="" type="checkbox"/> BIOS : PFM- 532I BIOS Rev.0.5(08/29/2005) <input type="checkbox"/> Chipset : <input type="checkbox"/> CPU Type : <input type="checkbox"/> North Bridge : <input type="checkbox"/> VGA Chipset : <input type="checkbox"/> Ethernet Chipset : <input type="checkbox"/> I/O Chipset : <input type="checkbox"/> Remark :

2005/11/16

Wenyuan Yang

Andrew Ku

Issue date

Manager

Test Engineer

Test Result for Certification

I/O Peripheral Function Test – I/O Function		Result
Floppy Connector / Driver A:		Pass
Primary IDE Master		Pass
Primary IDE Slave		Pass
Compact Flash - Type I		Pass
Compact Flash - Type II		Pass
DOC (Disk On Chip)		Pass
DOM (Disk On Module) - 44 Pin		Pass
COM 1		Pass
COM 2-232		Pass
COM 2-422		Pass
COM 2-485		Pass
COM 2-Ring /+5V /+12V		Pass
Clear CMOS		Pass
PS/2 Mouse & Keyboard (Internal)		Pass
LPT 1		Pass
SIR / 115.2 Kbps		Pass
VGA Display		Pass
DIO Connector		Pass
PC/104		Pass
PCI-104		Pass
LCD / TFT		Pass
Internal KB & Mouse		Pass
Watchdog Software Control		Pass
I/O Peripheral Function Test –Front Panel and Other connector		Result
IDE LED		Pass
On Board Buzzer		Pass
Power LED		Pass
Internal K/B Connector		Pass
I/O Peripheral Function Test – Power Connector & Function		Result
Mini 4P Power Connector		Pass
I/O Peripheral Function Test – LAN Connector & Function		Result
LAN 10/100 Ethernet		Pass
Power Consumption Test (Run Speed 200 in DOS Mode)		
	AT Power: LEMACS / SP2-4300F /250W	
	CPU: STPC-DX2 113MHz	
Normal Mode (+5V)	0.90	A
Suspend Mode (+5V)	0.60	A
5VSB in Power Off Mode (just for ATX)	-----	A
5VSB in Power On Mode (just for ATX)	-----	A
Normal Mode (+12V)		A
Suspend Mode (+12V)		A
Normal Mode (+3.3V) (just for ATX)	-----	A
Suspend Mode (+3.3V) (just for ATX)	-----	A
Normal Mode (-12V)		A
Suspend Mode (-12V)		A
Normal Mode (-5V)		A
Suspend Mode (-5V)		A

Power Connector Test (110V/220V)		Voltage Range		Result
AT Connector Power On/Off for 10 times in DOS				Pass
5V Only Power On/Off for 10 times in DOS				Pass
Timer Accuracy Test				
System Clock & RTC Clock Test				
Test Method		Margin for error		Result
System Clock in Power On Mode		+-1 second during 24 hours		Pass
RTC Clock in Power On Mode		+-1 second during 24 hours		Pass
RTC Clock in Power Off Mode		+-1 second during 24 hours		Pass
Watchdog Timer Test				Result
Time-out Interval		10 sec		Pass
		60 sec		Pass
		255 sec		Pass
Network HUB / LAN Connection Test				Result
LAN Location	LAN Speed	HUB Type	HUB Speed	Result
LAN	10/100 Mbps	HP J4095A 24 Ports	100 Mbps	Pass
		D-Link DGS-1008T	1Gbps	Pass
		Intel InBusiness 8 Ports	100 Mbps	Pass
		LEMEL LM-S5 5 Ports	100 Mbps	Pass
		Accton Desktop-3005	100 Mbps	Pass
		SVEC FD916H	10 Mbps	Pass
Hardware Compatibility				
CPU Compatible Test				
Type	Speed	FSB	Run HCT Version	Result
STPC-DX2 113MHz			9.5	Pass
Memory Compatibility Test				
Brand	Chipset	Frequency	Size	Result
HYNIX	HY57V6432200DTP-6	100	32MB	Pass
On Board LCD Function Test				
TFT LCD	Type	Voltage	Result	
TFT	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit	5V	Pass	
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit	3.3V	Pass	
HDD Compatible Test				
Model				Result
Hitachi / HDS722525VLAT80 / 250GB / ATA-100				Pass
IBM / DTLA-307045 / 46.1GB / ATA-100				Pass
FUJITSU / MPE 3136AH / 13.6GB / ATA-66				Pass
Maxtor / 4G160J8 / 160GB / ATA-133				Pass
Quantum / Fireball Plug AS / 30GB / ATA-100				Pass
Seagate / ST310210A / 10.2GB / ATA-66				Pass
Western / WD400BB-75DEA0 / 40GB / ATA-100				Pass
CD/DVD-ROM Compatibility Test				
Model				Result
Acer DVP1640A / 16X / DVD-ROM				Pass
Creative DVD1240E / 12X / DVD-ROM				Pass
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM				Pass
Pioneer / DVD-121 / 16X / DVD-ROM				Pass
PHILIPS CDD5301 / PBC03210G / 32X10X40 / 12X DVD / CD-RW / DVD-ROM				Pass
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X				Pass
NEC / ND-2500A / DVD R/RW / +R8X-R8X				Pass
TEAC / CD-540E / 40X / CD-ROM				Pass

IDE Cable Function test			
IDE Model			Result
44 Pin Cable ATA33			Pass
Floppy Disk Controller Function Test			
Copy and compare file between C: and A / B:			Pass
Peripheral Compatibility-Storage Device			
Model	Interface		Result
IOmega zip 100 parallel port	Parallel		Pass
IOmega zip 100MB Internal ATAPI Drive	IDE		Pass
DOC2000 M-System / MD2200-D16			Pass
PQI FC512 512MB	Type-I CF Card		Pass
HITACHI / HMS360402D5CF00	Type- II CF Card		Pass
Digital I/O Connector Test			Result
Input Address: (800)			Pass
Output Address: (802)			Pass
VCC: ()			Pass
DIO Function Test			Pass
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules			
Interface	Model		Result
PC/104	AAEON PCM-5600	Modem Module	Pass
	AAEON PCM-3115B	PCMCIA Module	Pass
PCI-04	AAEON PCM-3730	Intel 82559 LAN Module	Pass
COM Port Send / Receive Test			Result
Use software program: COMTEST.exe			Pass
Use software program: LL5.exe			Pass
Disk On Module [DOM] Compatibility Test			
Model	Interface		Result
DOM-064-426P Rev: A2A11	IDE 44 Pin		Pass
COM/LPT Ports & RS-232/422/485 Function Test			Result
RS-422 for COM2			Pass
RS-485 for COM2			Pass
COM1			Pass
COM2			Pass
LPT1			Pass
O.S. Compatibility Test			
Installation Operation System Compatible Test			Result
Linux-RedHat 9.0 / Kernel 2.4.20-8			Pass
Windows 98 SE 4.10.2222A			Pass
DOS 6.22			Pass
Utility and Driver Test			
OS	Drivers Version		Result
Linux-RedHat 9.0 / Kernel 2.4.20-8	VGA	Default	Pass
	LAN	Default	Pass
Windows 98 SE 4.10.2222A	VGA	Silicon MoTION LynxEM Ver..4.13.01.0090	Pass
	LAN	Realtek RTL8139/810x Ver. 4.10.2222	Pass
DOS 6.22			Pass
BIOS Function Test			Result
Standard CMOS Setup Test			Pass
Boot Sequence Test			Pass
Power Management Test			Pass
APM Power Management Test			Pass
CMOS Backup / Clear CMOS Test			Pass
Boot ROM Test (PXE)			Pass
Supervisor / User Password Test			Pass
CRT / LCD / TV Function Test			Pass

Swap Floppy Drive & Boot up Floppy Seek Function Test			Pass
COM Address / IRQ Test			Pass
LPT Address / IRQ Test			Pass
BIOS AWDFLASH Program Test			Pass
Touch Screen LCD for Serial Ports Test			Result
	Address	IRQ	
COM1	3F8	IRQ4	Pass
COM2	2F8	IRQ3	Pass
System Integrated Application Test			Result
A. System Integrated Application Test (Burn-In 8 Hrs):			Pass