

3 . Power Consumption / Connector Test

Platform Information:

PCB Model & Version	SBC-860 Rev.A1.0 BIOS Rev.0.4 (01/07/2003)
CPU Type & FSB	Pentium(R) 4 2.40GHz / 133 * 8.0
Memory Type	Kingston SAMSUNG K4H560838C-TCB0 / DDR266 / 256MB
Compact Flash	PQI FC256 / 256MB / Type I
Power Supply	SHARK TECHNOLOGY / SPC5110-250ATX2 / 250W
VGA Card (Chipset)	Intel [R] 82845 Graphics Controller / Driver Ver. 4.13.01.3317

Operating System Environment :

DOS 6.22	Config.sys	Device=c:\dos\setup.exe Device=c:\dos\power.exe dos=high files=30
	Autoexec.bat	c:\dos\smartdrv.exe/x @ echo off path c:\dos set temp=c:\dos

A. Power Consumption Test :

Test Software (DOS Mode):

Test Software	Speed200.exe
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Test Result: Power Supply : Seventeam ST-250BLV

Mode Type	CPU TYPE			Note
	P4 2.8 GHz 533 FSB	P4 2.53 GHz 533 FSB	P4 2.0 GHz 400 FSB	
Normal Mode(+5V)	1.82 A	1.82 A	1.77 A	
Suspend Mode(+5V)	1.73 A	1.78 A	1.73 A	
Normal Mode(+12V)	0.20 A	0.20 A	0.20 A	
Suspend Mode(+12V)	0.08 A	0.07 A	0.07 A	
Normal Mode(CPU/ +12V)	7.39 A	7.39 A	5.32 A	
Suspend Mode(CPU/ +12V)	2.43 A	2.93 A	1.94 A	
Normal Mode(+3.3V)	1.26 A	1.25 A	1.25 A	
Suspend Mode(+3.3V)	1.24 A	1.24 A	1.24 A	

B. Power Margin Test: Play VCD in Win 98 O.S.

Test Point:

1. Play VCD 10 Minutes.

B-1 ATX Connector [Male] ATX Power Supply : Seventeam ST-300BLV 300W [Female] { } No Support.

Voltage	Actual Voltage		Result				Note
	110 V	220 V	110V		220V		
			Pass	Fail	Pass	Fail	
5 V	5.15 V	5.12 V	✓		✓		
3.3V	3.40 V	3.38 V	✓		✓		
12 V	11.88 V	11.95 V	✓		✓		

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B-2 AT Connector [Male] AT Power Supply : Seventeam ST-250AF / 250W [Female]
 [✓] No Support.

Voltage	Low/High Voltage 110 V / 220 V	Actual Voltage		Result				Note
		110 V	220 V	110V		220V		
				Pass	Fail	Pass	Fail	
5 V	5 V	V	V					
12 V	12 V	V	V					

C. Power Connector Test : AT Power To ATX Motherboard

[✓] No Support.

Test Point:

- 1.O.S. : Play VCD in Win 98 O.S.
- 2.Play VCD 10 Minutes.

Note:

1. AT Power Supply : Seventeam ST-250 AF/250W (Female) .
2. Use transform cable : The cable is a AT connector (Male) transform into a ATX connector (Female)

Voltage	Low/High Voltage 110 V / 220 V	Actual Voltage		Result				Note
		110 V	220 V	110V		220V		
				Pass	Fail	Pass	Fail	
5 V	5 V	V	V					
12 V	12 V	V	V					

D. Power Support Test: 5V only operation

[Use Big / Small 4P Power Connector]

[✓] No Support.

Test Item	Result		Note
	Yes	No	
5 V			
12 V			

E. Full loading Power Consumption Test :

Mode Type	CPU TYPE	Current
	P4 2.53G 533 FSB	
Normal Mode(+5V)	5.37	Amp/Max
Normal Mode(+12V)	7.08	Amp/Max
Normal Mode(+3.3V)	1.42	Amp/Max