

### 3 . Power Consumption / Connector/ System Inteegration Application Test

#### Platform Information:

PCB Model & Version	GENE-6310B Rev.B1.0
CPU Type & FSB	Onboard VIA C3 Eden EPGA Mobile CPU 667MHz(133x5.0)
Memory Type	HITACHI HB52F328DC-75B / PC133 / 256MB [ SO-200107 ]
DOC Type	N/A
Compact Flash Type	Apacer AP-CF512B-16X / 512MB [ CF-200202 ]
Power Supply	Emacs SP2-4300F / 300W
VGA Card ( Chipset )	S3 Graphics Twister

#### 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 (Typical Loading):

##### Test Software (DOS Mode):

Test Software	QAPLus/Fe 5.6 ( Run QAPLusfe.exe/ Memory module test programming )
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##### Test Result:

Mode Type	CPU TYPE			Note
	PIII 1.4G 133 FSB		VIA C3 667A MHz for ATX	
Normal Mode(+5V)	2.4		2.5	
Suspend Mode(+5V)	1.4		1.5	
Normal Mode(+12V)	0		0	
Suspend Mode(+12V)	0		0	
Normal Mode(+3.3V)	N/A		N/A	
Suspend Mode(+3.3V)	N/A		N/A	

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

##### Test Point:

- 1 Play VCD 5 Minutes

**B-1 ATX Connector [Male] ATX Power Supply : DEC DP-ATX725B / 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	4.75 V	4.7 V	4.7 V	✓		✓		
	5.25 V	5.2 V	5.2 V	✓		✓		
3.3V	3.135V	V	V	N/A		N/A		
	3.465V	V	V	N/A		N/A		
12 V	11.4 V	11.4 V	11.4 V	✓		✓		
	12.6 V	12.5 V	12.5 V	✓		✓		

### B-2 AT Connector [Male] AT Power Supply : Emacs SP2-4300F / 300W [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	5.0 V	5.0 V	✓		✓		
12 V	12 V	11.9 V	11.9 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 5 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 Test: 5V only operation

[ Use Big / Small 4P Power Connector ]

[ ] No Support.

Test Item	Result		Note
	Yes	No	
5 V	✓		4.9V
12 V	N/A		

### E. System Integeration Application Test

#### Test Points:

- 1.On Board I/O Function is embedded on PCB ; Adapter I/O Function is external device.
- 2.Pluging in all of the onboard 、 riser card and backplane slots to test the system integration application.
- 3.Under Point 1, 2 condition to play 6 MediaPlayer tasks and test "Power Consumption" of syatem.

#### Platform Information:

PCB Model & Version	GENE-6310B Rev.B1.0
CPU Type & FSB	Onboard VIA C3 Eden EPGA Mobile CPU 667MHz(133x5.0)
Memory Type	SAMSUNG K4S560832B-TC75 / PC133 / 256MB [ SO-200108 ]
O.S.	Windows 98SE 4.10.222A
Primary IDE Master	Maxtor 4G160J8 / ATA133 / 160GB [ ID-200206 ]
Primary IDE Slave	BENQ 652A-674 / 52X [ CD-200203 ]
Secondary IDE Master	Apacer AP-CF512B-16X / 512MB [ CF-200202 ]
Secondary IDE Slave	N/A
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	S3 Graphics Twister / 4.13.01.3049
LAN Card & Driver Version	Realtek RTL8139/810X Family PCI Fast Ethernet NIC / 4.10.2222
Audio Driver & Driver Version	VIA AC'97 Audio Controller (WDM) / 5.10.0.3731

**E-1. System integration application Test (Burn-In 8 Hrs):**

On Board I/O Function	Installation		Function		Multi Test		Note	
	Pass	Fail	Pass	Fail	Pass	Fail		
Primary IDE Master	✓		✓		✓		[ ID-200206 ]	
Primary IDE Slave	✓		✓		✓		[ CD-200203 ]	
Secondary IDE Master	✓		✓		✓		[ CF-200202 ]	
COM1	✓		✓		✓		Logitech Serial Mouse	
COM2	✓		✓		✓		[ MD-001 ]	
COM3	✓		✓		✓		RS232 Loopback	
COM4	✓		✓		✓		RS232 Loopback	
Keyboard/Mouse	✓		✓		✓		Keyboard / PS2 Mouse	
TV	✓		✓		✓		TV	
LAN	✓		✓		✓		LAN	
LPT	✓		✓		✓		ZIP 100	
Audio	✓		✓		✓		Audio	
USB1	✓		✓		✓		[ CD-2002003 ]	
USB2	✓		✓		✓		[ HB-009 ]	
USB2(1)	✓		✓		✓		USB FDD	
USB2(2)	✓		✓		✓		USB HDD	
USB2(3)	✓		✓		✓		[ ZIP-002 ]	
USB2(4)	✓		✓		✓		[ MS-2002008 ]	
USB3	✓		✓		✓		Photo Smart P1000	
USB4	✓		✓		✓		[IR-200200]	
Floppy	✓		✓		✓		1.44 FDD	
Off board Peripheral/Adapter I/O Function	Interface	Installation		Function		Multi Test		Note
		Pass	Fail	Pass	Fail	Pass	Fail	
PCM-3430	PCI-104	✓		✓		✓		

**E-2. Power Consumption Test:****Test Result:**

Mode Type	CPU TYPE			Current
	VIA C3 667A MHz			
Normal Mode(+5V)	2.3			Amp/Max
Suspend Mode(+5V)	2.0			Amp/Max
Normal Mode(+12V)	N/A			Amp/Max
Suspend Mode(+12V)	N/A			Amp/Max
Normal Mode(+3.3V)	N/A			Amp/Max
Suspend Mode(+3.3V)	N/A			Amp/Max

# Product Certification Report

Report No : 03E010297

Product Model	<b>GENE-6310</b>
Product description	AIO SubCompact Board.Erza 1GHz CPU.W/LAN,Audio,TV-out,LCD,LVDS,CF,4COMs.Rev.B0.1
Test reason	<input type="checkbox"/> New product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS :  <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS :  <input checked="" type="checkbox"/> Revision change <input checked="" type="checkbox"/> PCB : GENE-6310 Rev.B0.1 <input checked="" type="checkbox"/> BIOS : GENE-6310 BIOS Rev B1.1 (09/04/2003) <input checked="" type="checkbox"/> Component : Power Consumption test[ATRF]

*2003-12-08*

*Wenyuan Yang*

*Batty Ko*

Issue date

Manager

Test Engineer

Test result for certification

<b>Margin Test – Power Consumption –VIA C3 1.0A GHz, SODIMM 512MB</b>	<b>Result</b>
Electrical characteristics – Normal Mode(+5V) [AT Power Supply]	4.81A
Electrical characteristics – Suspend Mode(+5V) [AT Power Supply]	2.45A
Electrical characteristics – Normal Mode(+5V) [ATX Power Supply]	4.50A
Electrical characteristics – Suspend Mode(+5V) [ATX Power Supply]	2.26A