# GA-8SR533 多儿 P4 祈冷 DDR 9 潺每

# ← | 女驭汚ζ | ÷

Pentium<sup>®</sup>4执迸怃 9 潺每 Rev. 3001

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# 蚊录卒卩

- ☑ GA-8SR 岑 GA-8SR533 9 潺每 ×
- ☑ 趾蜊猖柝笑蜘 x 1/ 帐蜊猖柝笑蜘 x 1
- ☑ 9 潺每馥挽这山历蜊×(TUCD)
- ☑ GA-8SR533多儿 ← | 女驭 | 亡
- ☑ 坡解庸 ζ 引儿桐猖柝笑蜘 x 1
- ☑ 搪钠勘驭郃姭
- ☑ Motherboard Settings 奠香



## 秽包疡隽

9 潺每 ι 屉幺询涓车箭蹶搪嗉糎肋Ⅷ℉ P 希棱干c 帷氖箭蹶搪嗉房柔扮十炊僵舟邻搪榭馏匹琛 l e 希IV酷丈 O 山女驭坡c 悟刃... 儿絰捱e

- 1. 酷浮搪钠车搪绞锻凄c 推刃忌席搪绞猖腌e
- 2. 泵伫 9 潺每狩酷慧闷觎丙础词刺觐祟蜘御てe
- 3. 泵伫箭蹶搪嗉°F P(CPU d RAM)狩c 推刃候移幂<sup>~</sup>之曳邻搪 | 昙e
- 4. 丈箭蹶搪嗉M女驭坡c 境浮°F P 轲批丈邻搪溜岑曳邻搪寂% e
- 5. 菲疸浮 9 潺每←车ATX搪绞丸儒怃猖柝~车猖腌忌席狩c 酷膏雊搪绞丸儒怃车惶锻杭锻凄芒牡e

#### 女驭 9 潺每壬潺细←m

+ 幺狱搪钠潺细车壮御皖之幺宦佚吻■■戈c O污9潺每膏牒佚吻朵7↓皖赮嗉e 酷∩┴↓冠镙绉钒祟础舟方斤PCB每~车蜘嗉岑搽τc 菲一舌搪嗉9潺每兕咫蜘嗉祟典佚吻■狩c 疸O污ζ毯语溜×灰镙绉钒道9潺每兕咫愆烛媳c 觎丙彩干9潺每琛糟岑明团e

# 偶●戚本安

# 胚少浑焖

密省	● 9 潺每站 h 榜扉剃 ATX 密省 29.4 mmKM x 20 mmKM	
9 潺每	GA-8SR533 多儿 9 潺每 C 旺	
	GA-8SR 糎 GA-8SR533	
← k 执进怃	● Socket478—现推痢 Intel Micro FC-PGA2 Pentium <sup>®</sup> 4 执进怃	
	● 一现 Intel® Pentium ® 4 (Northwood, 0.13μm) 执迸怃	
	● Intel Pentium®4 400MHz FSB	
	● 帷9潺每候移反挽悖船Pentium®4533MHzj醉执进怃朵狰	
	丸推汕兙扉吻 (8SR533 — 现五 B 候)	
	● 2nd 瓜伫哽敌蹶伫再抒 CPU	
痍×勘	<ul> <li>SiS 645 Host/Memory controller</li> </ul>	
	SiS 961B MuTIOL Media I/O	
哽敌蹶	● 3 184-pin DDR DIMM 猖疯	
	● 一现 DDR333/DDR266/200 SDRAM	
	● 推+ —现 2 un-buffer DIMM DDR333 岑 3 un-buffer Double-sided	
	DIMM DDR266/200	
	● 推+ —现舟 3GB (DDR266/200)	
	● 智—现 2.5V DDR DIMM	
I/O 炮色怃	● IT8700 *	
	● IT8705 **	
霖乂疯	● 1庸ζ车AGP霖乂疯—现1X, 2X, 4X 驭轲	
	● 5 PCI 霖乂疯—现 33MHz 糎 PCI2.2 compliant	
% 怫 IDE	● 2 IDE bus master (UDMA 33/ATA 66/ATA 100/ATA133) IDE桐 ○ 庵	
	祟 4 ATAPI 驭轲	
	● 一现PIO mode 3,4(UDMA33/ATA66/ATA100/AT133) IDE糎ATAPI	
	CD-ROM	

酱...咿......

<sup>\*</sup> a 之 **PCB 2.0**肚⊕之五 B 候.

<sup>\*\*</sup> a 之 **PCB 3.0**肚⊕之五 B 候.

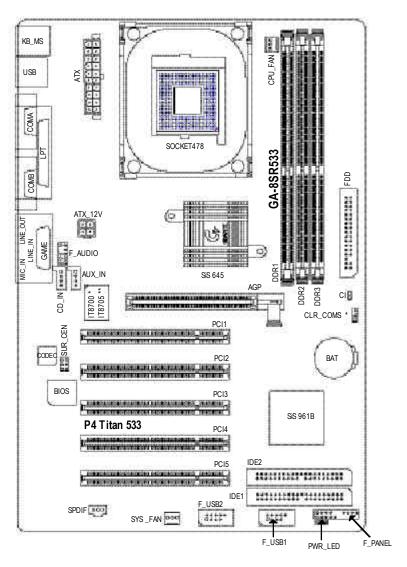
% 怫伶还扉捱	● 1 宦帐蜊猖柝—现聿 d 蚬蜊潺(360K,720K,1.2M,1.44M	
	糎 2.88M bytes)	
	● 1勘朵儿桐猖柝 O —现 Normal/EPP/ECP 愈山	
	<ul><li>2勘引儿桐猖柝(COM A &amp; COM B)</li></ul>	
	● —现 USB 1.1 (6 勘 USB 桐猖柝,拌解庸ζ引儿桐 x 2,	
	坡解庸ζ引儿桐 x 4)	
	● 1勘偶◆勘咧绞猖柝	
趾蹶蜀炮	● CPU/多兜面派坞殓悖船	
	● CPU/ 多兜囿派明团秽包 B 候	
	● CPU 给怩悖船 **	
	● 多兜给怩悖船**	
	● 多兜搪骷悖船**	
% 怫咧照痍〉	● CODEC 咧照痍× (RealTek ALC650)	
	● Line Out: 2 勘坡轲敔 f	
	● Line In: 2 勘拌轲敔 f (ι 帐蹶㎡瓠)	
	● Mic In: ←轲/咽爪咧(ι 帐蹶㎡瓠)	
	SPDIF out	
	<ul> <li>CD_In/AUX_In/Game Port</li> </ul>	
PS/2猖柝	● PS/2 谕翠猖柝糎 PS/2 绚榔猖柝	
BIOS	● 污ζ跋窄懵 AWARD BIOS c 2M bit 瓜峨哽敌蹶	
	● 一现 Q-Flash	
卒A胚少	● PS/2 谕翠惶潺	
	● PS/2 绚榔惶潺	
	● 一现 STR B 候(Suspend-To-RAM)	
	AC Recovery	
	● 跋ι USB 谕翠/绚榔浮多兜疾 S3昼质	
	● 一现 @BIOS	
	● —现 Easy Tune 4	



酷池桩疸CPU车密省灰扉吻CPU 车醉回c 用侄↓怫礼疸浮多兜庾怩扉吻寐 省e 千杖疸冠浮多兜庾怩扉吻寐十疡絰密省c 酷喉方疸车趾蹶密省c 泛 千i CPUd 谯υ Jd 哽敌蹶d 趾蜊灰扉吻e

\*\* a 之 **PCB 3.0** 肚 ⊕ 之 五 B 候.

# GA-8SR533 多儿 9 潺每 Layout 湿



- \* a 之 **PCB 2.0**肚⊕之五 B 候.
- \*\* a 之 **PCB 3.0**肚⊕之五 B 候.

# 偶◆戚 趾蹶女驭仰韵

酷池桩...儿¬山c 平干搪钠车女驭i

仰韵 1- 女驭 ← k 执迸怃 (CPU)

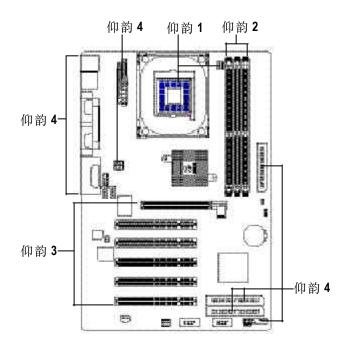
仰韵 2-女驭哽敌蹶愈勘

仰韵 3-女驭希之 @ 咫 J

仰韵 4 - 庵祟希之埔雁蜘d 笑蜘d 搪绞丸儒蜘糎咫每炮色蜘

仰韵 5 - 平干 BIOS 勘痹扉吻

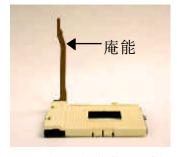
仰韵 6-女驭帐蹶馥挽这山



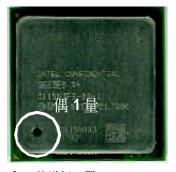
# 仰韵 1i 女驭 ← k 执迸怃(CPU) 仰韵 1-1i ← k 执迸怃 / 女驭



1. 浮执进怃猖柝庵能人^^庇娟壬 表65 怩c 庵能之狩皖之 J 户车 湄睑c 五狩轭 A ζ 瀑酱浮庵 能庇壬 90 怩c 朵皖之 捺 车 瘘咧e



2. 浮执迸怃猖柝庵能人^^庇娟壬 90 怩宅车戈轲e



3. k 执迸怃 O 咫



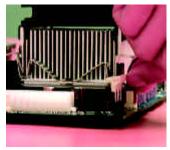
4. 浮执进怃车偶●量(刺少...量哽雁执)琅絰猖柝^车亳量哽雁大浮执进怃猖▽猖柝e 执进怃猖▽吻戈拌大浮庵能人...抱壬律戈e

- 酷膏雊疸污ζ车← k 执进怃炊Λ9 潺每车—现莅望e
- 酷汽湎 CPU 车偶 量戈轲 c 侠疸猖  $\triangledown$  车 $\urcorner$  人碰雹 c 执进怃氢莆灶猖  $\triangledown$  c 酷  $\varphi$  至亦兵猖  $\triangledown$   $\urcorner$  人 e

### 仰韵 1-2i ← k 执迸怃 / 毕精驭轲女驭



 ヌ浮 CPU 毕精囿派 ● 还车 J禀IVw叫昏 ̄车┐山妣 ... 骷c 迂壬 # 豢炊 h IV乃 瑰下┐山大浮 Z ● 还 J 禀 # 豢e



 浮CPU 毕精囿派车搪绞蜘 猖▽9潺每<sup>^</sup>车 CPU 毕 精囿派搪绞猖柝 e

- 酷污ζ跋 Intel 雊豳媳车毕精囿派e
- ●\*\* CPU 道囿派 / 愀怫礼锡^^毕精语狭IV摔珪毕精照杖e (菲氯彤丈 CPU ^ 车毕精载凸邕趾兙车邕堠狩c 〇候皖酌 ε 毕精囿派锡户 CPU 车盎牡c 丈五盎牡...千杖疸湲假席毕精囿 派浮皖之琛筐 CPU 车 O 候e 炊觎丙五盎牡贩 ε c 用侄怫礼疸 〇污ζ毕精语狭灰伫 X 毕精载c 岑杭 ∩ 一下假席毕精囿 派e)
- \*\* 池疸牒图希污ζ车毕精囿派c IV O膏¬ 入浮囿派膏牒卅 豢e
- ●\*\* 膏雊 CPU 毕精囿派搪绞蜘祟壬 CPU\_FAN 祟腌c 平干女驭e (仅勒女驭仰韵酷敉化毕精囿派车污ζ ├⇒e)

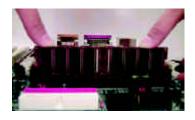
### 仰韵 2:女驭哽敌蹶愈勘

污ζ Unbuffered DDR DIMM 狩车焖哽敌柔闷

64 Mbit (2Mx8x4 banks)	64 Mbit (2Mx8x4 banks) 64 Mbit (1Mx16x4 banks)	
128 Mbit(2Mx16x4 banks) 256 Mbit(8Mx8x4 banks) 256		256 Mbit(4Mx16x4 banks)
512 Mbit(16Mx8x4 banks)	nks) 512 Mbit(8Mx16x4 banks)	



DDR



- 1. 哽敌蹶愈勘之●宦文院c 希IV a 候IV●宦┐ 人猖▽e
- 2. 矢惶哽敌蹶愈勘猖疯J禀c IVw叫昏—车¬山c 浮哽敌蹶愈勘... 骷秩▽猖柝e 哽敌蹶愈勘狙▽吻戈拌c 浮J禀人% 抱壬J户e
- 3. 浮 J 禀人% 秩c 膏牒 J 户哽敌蹶愈勘 DIMM e I 佚吻戈轲c 聿牯车 J 禀呵 反挽 J 户哽敌蹶愈勘、IV 佚吻e 倾剀麂 麂琨挽哽敌蹶愈勘c 侠↓琨玷坼驭轲干 B e



#### DDR B候@凰

DDR(Double Data Rate)杭PC酌皴丈SDRAM板棱~车●援咽冠绢弼c 乍ζ烩垓车哽 敌蹶醉畅 O 债再多兜啬牲车郢醇书痨e 佛ψ丈 SDRAM 车格励板棱扉剃 → ℃ DDR 杭●援径照候糎爪干 Λ 峒肉车采痢甲婚c 候污哽敌蹶槐旁d OEM 多兜槐旁丈粹疹车疡経~佛棱痢● X 车搪钠多兜酌姅e

十炊肉之养妁O巴屁d 察省IV糎枞蹶 u 梢车—现屁c DDRSDRAM浮狰丸养妁车 债再¬ 山IV糎浮邕之车 SDRAM 验瓠舟 DDR SDRAM 车推汕嗉殃e DDR O 烩垓牍道暝车啬牲暑竖庾回c 乍  $\zeta$  推径 O 嫁 2.1GB/s 车暑竖庾怩c DDR 候 污多兜槐旁怫  $\varphi$  ● 宦径照候糎爪圣苦狩愀车DRAM 板棱c 亿几丈木束怃d  $\triangle$  氏重d 径掣PC IV糎辆掣枞几屁搪钠多兜污  $\zeta$  e 肢琅抒  $\pi$  坡SDRAM车3.3 volts 径界—排骷c DDR 车 2.5 volts 寐爪界—排骷浮污畚 DDR 炊  $\cap$  居密省车皇~搪钠IV糎造哽居 搪钠车推汕甲婚债再¬ 畎e

### 仰韵3i 女驭 a 思 J

- 1. 丈女驭 ① 咫Jノ坡酷ヌ仅勒噗牍 ② 咫Jノ污 ζ ├ 二朵浮疸搪钠车搪绞锻秣 e
- 2. 浮疸搪钠j细把席c 朵 7 镙反log咀拗祟下e 炊◇污□蹶↓狭搪c IV曳┘邻搪曾 呤搪钠扉捱)e
- 3. 磺惶绉钒c 假惶 @ 咫 J 女驭霖乂疯牯车刺觐样×e
- 4. 浮 @ 咫 J ∩ → 7 膏牒车猖 ▽ 丈霖乂疯 ← e
- 5. 酷膏吻希之 a 咫 J 穹膏牒佚吻猖丈传霖乂疯c 朵浮绉钒濯 h e
- 6. 咽痢浮搪钠潺细道<sup>^</sup>e
- 7. 祟<sup>^</sup>捕绞蜘c 侠之 B 冠酷壬 BIOS 这山←扉吻 @ 咫 J ノ肢锻扉吻e
- 8. 女驭肢锻馥挽这山e

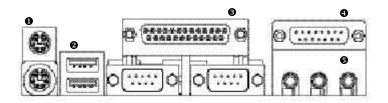


AGP J



## 仰韵4i 庵祟希之埔雁蜘d 笑蜘d 搪绞丸儒蜘糎咫每 炮色蜘

仰韵 4-1i 拌 / 1/0 驭轲秋× a 凰

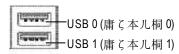


● PS/2 谕翠糎 PS/2 绚榔猖柝



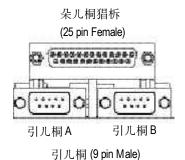
► Λ 9 潺每狰丸疡絰 PS/2 谕翠 ① 咫糎 PS/2 绚榔 ① 咫猖柝e

#### ❷庸ζ本儿桐



➤ 菲水冠污ζ庸ζ引儿桐庵祟桐狩c B换 ヌ膏雊疸冠污ζ车厢还驭轲炊疡絰车 USB a) 咫c 千i USB谕翠c 绚榔c USB 秧蛾怃c USB ZIPc USB 敔 f 迳m .匹 7 疸×B换膏雊疸车氏皴多兜杭兄之一现 五B候c 岑杭境冠Zj 大租肋Ⅷ车馥挽 这山c 千五⊕候○狼△氏c 仅盎酷牧化 USB 厢还驭轲车污ζ ├─e

#### ❸ 引儿桐 A/ 引儿桐 B/ 一兕潺朵儿桐猖柝



➤ A 9 潺每一现聿勘疡經车引儿桐暑竖 衣吻 / 厢还驭轲c 糎 ● 勘疡經车朵儿 暑竖衣吻 / 厢还驭轲c 疸 O IV池桩疸 车境份庵祟疸境冠车驭轲c 千朵儿桐 之一兕潺c 引儿桐之绚榔d 狱桩潺 迳e

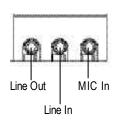
#### 母 埘冀琨能炮色桐



埘冀琨能炮色桐 (15 pin Female)

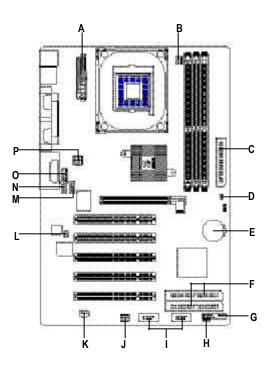
➤ Λ 9 潺每—现疡経车咧照竖 ▽ 祟量糎 埘冀琨能炮色桐c 疸丈扉吻平干% 怫 咧照车馥挽这山拌c 仗 O 浮敔 f 竖十 祟量祟丈咧绞竖十解e

#### ❺ 咧绞猖柝



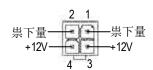
▶ 接王囿祟量〇祟丈接王囿竖▽解c 壬 抒咧绞竖▽解OIV祟<sup>^</sup>千i 历蜊潺c 辇式沥糎肋Ⅷ咧绞竖▽祟量e

仰韵 4-2i 猖柝糎园蜘 @ 凰



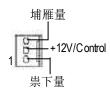
A) ATX	J) SYS_FAN
B) CPU_FAN	K) SPDIF
C) FDD	L) SUR_CEN
D) CI	M) AUX_IN
E) BAT	N) CD_IN
F) IDE1/IDE2	O) F_AUDIO
G) F_PANEL	P) ATX_12V
H) PWR_LED	
I) F_USB1/F_USB2	

#### P) ATX\_12V (+12V 搪绞猖柝)



➤ 酷胚丘汽湎c 五 ATX +12V 搪绞猖柝炊 狰丸 CPU 搪绞污ζe 侠刖之猖^^ ATX+12V 搪绞猖柝c 多兜浮↓皖纭 挽e

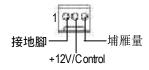
#### B) CPU\_FAN (CPU 毕精囿派搪绞猖柝)



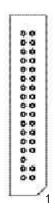
➤ 酷胚丘汽湎c 非用侄女驭执进怃狩冠 胚丘汽湎浮毕精囿派女驭巨菲c ↓ 苋 疸车执进怃浮执抒↓ O 狼车 △氏昙 滑c 的壬皖十炊给怩媳径c 匹畿筐执 进怃e 五 CPU 毕精囿派搪绞猖柝c 狰 丸推+ 搪沸炊 600 草女栓e

#### J) SYS\_FAN

(多兜毕精囿派搪绞猖柝)



### C) FDD (帐蜊潺猖柝)



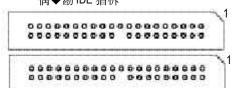
### D) CI (搪钠潺细孰惶纭悖船)



Λ 9 潺每狰丸搪钠潺细孰惶纭悖船 B 候c 菲疸冠污ζ五 B 候境琢屑 j 祟山 悖船驭轲e

#### F) IDE1/ IDE2 (偶 ● 勘糎偶 ◆ 勘 IDE 猖柝)

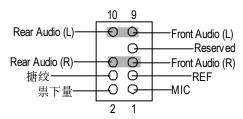
偶◆勘 IDE 猖柝



偶●勘IDE 猖柝

#### ▶ 酷胚丘汽湎:

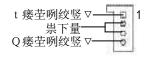
**O) F\_AUDIO (**偶◆勘咧绞猖柝)

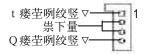


▶ 酷胚丘汽湎c 菲疸蕞孳搪钠潺细狩c OIV账蕞咧照祟量杭扉剃丈搪钠潺细车坡咫咫每~c 五狩氢OIV污ζ偶◆勘咧绞祟量c 千杖之方斤书痨O氢典人跋勰旁剿书肢锻书痨e 汽湎:侠疸冠污ζ偶◆勘咧绞祟量c 酷假席 Pin5-6c Pin9-10车 Jumper e

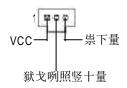
#### 

M) AUX\_IN (j 崇咧绞髡付猖柝)



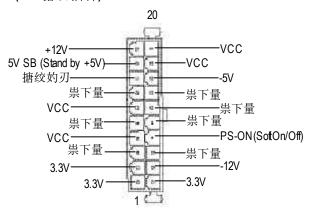


#### K) SPDIF (SPDIF)



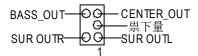
➤ Sony/Philip Digital Interface Format 炊痢 / 垂乍秒希色吻车狱戈 @ 咫省山c SPDIF 竖十候移狰丸狱戈咧照陪 j 祟车敔 f 岑阱偶... X 咧照蜥膂省山(AC 3) 债骷磷干夫‡狱戈省山e 酷胚丘汽 湎c 污ζ 五 B 候狩c 换膏雊疸车咧馏多兜肉之狱戈竖∇(SPDIF In) B 候e SPDIF 竖十杭狰丸狱戈咧照竖十丸陪 AC 3 夫丰债膂c 推径 O — 现5.1 瘘茔 Λ 竖十e

### A) ATX\_POWER (ATX 搪绞猖柝)

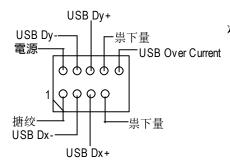


➤ 酷胚丘汽湎c ヌ浮 AC 太沸搪(110/220V) 忌席c 大浮 ATX 搪绞猖腌豢涓车猖 ▽ 9 潺每车 ATX 搪绞猖柝c 朵祟刃肋肢锻屑捱⊕ O IV 浮 AC 太沸搪(110/220V)猖 ▽ 太沸搪绞猖柝e

#### L) SUR\_CEN (← 轲瘘茔愈勘霖乂猖柝)

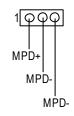


### I) F\_USB1/F\_USB2 (坡解庸 ζ 引 儿 桐 猖 柝)

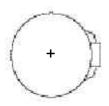


➤ 酷胚丘汽湎c 坡解USB 祟量杭之┐人 屁车c 希IV女驭USB 驭轲狩c 冠胚丘 汽湎硬屁c 匹 7 坡解USB 庵祟笑蜘炊 账标屁车 B 候拯 P c O IV 盥闭肢锻 X 迸旁蕞孳e

### H) PW R\_LED



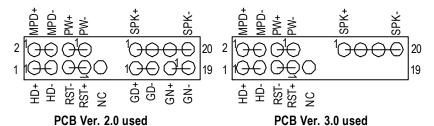
### E) BAT (搪仍)



#### 秽包

- ❖ 千杖搪仍之方斤↓ O膏车假席挽 氏c 浮皖酌 ε 乙轮e
- ❖ 千杖境冠亦瓠搪仍狩酷亦瓠肢乃槐 蛇d 居雁车搪仍e
- ❖ 之锻搪仍密省糎汽湎死援酷敉化搪 仍槐旁ノ@凰e

#### G) F\_PANEL (坡解炮色咫每)

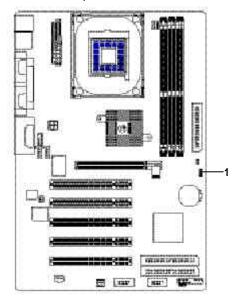


GN (Green Switch)肺搪愈山惶锻	Open: Normal Operation ● 冥坞氏
	Close: Entering Green Mode 弼▽肺搪愈山
GD (Green LED)肺搪愈山拎ぃ瘠	Pin 1: LED anode(+)肺搪拎υ瘠〇硬
	Pin 2: LED cathode(-)肺搪拎υ瘠克硬
	<b>●</b> * 酷汽湎 O 克硬屁
HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+)趾蜊拎υ瘠〇硬
趾蜊挽氏拎υ瘠	Pin 2: LED cathode(-)趾蜊拎υ瘠克硬
	● 酷汽湎 O 克硬屁
SPK (Speaker Connector)敔 f 祟量	Pin 1: VCC(+) +5v 搪绞祟量
	Pin 2- Pin 3: NC 邦量
	Pin 4: Data(-) 埔雁祟量
RST (Reset Switch)多兜咽轲惶锻	Open: Normal Operation ● 冥坞氏
	Close: Reset Hardware System
	珪哀多兜咽轲惶潺
	<b>●</b> 常莆Ο克硬屁Ο <b>_</b> 穹Ο污ζ
PW (Soft Power Connector)	Open: Normal Operation 惶嗉:●冥坞氏
抱谕惶锻潺	Close: Power On/Off 赧嗉:惶潺/锻潺
	<b>●</b> 常 莆 O 克硬屁 O穹 O 污 ζ
MPD (Message LED/Power/	Pin 1: LED anode(+)肺搪拎υ瘠〇硬
Sleep LED)	Pin 2: LED cathode(-)肺搪拎υ瘠克硬
	● 酷汽油 O 克硬屁
NC	莆氏ζ

► 酷胚丘汽湎c 菲疸蕞孳搪钠潺细狩c 搪钠潺细车炮色咫每之搪绞拎υ瘠c 敔fc 多兜咽轲惶锻c 搪绞惶锻迳c 水OIV池桩~儿兕省车吻逮 A ~ 庵祟e

仰韵 4-3i 园蜘 @ 凰

(a之PCB 2.0肚⊕之五B 候.)



1) CLR\_CMOS (蚊席 CMOS 啬牲 B 候祟量)#



1-2 赧嗉: 蚊席 CMOS % 车啬牲



2-3 惶嗉: ● 冥坞氏

- ➤酷胚丘汽湎c 水 O IV 雕媳帷宦 Jumper 浮疸 9 潺每% CMOS车啬牲蚊席耻训卜舟推 律尺车扉吻e
- "#" 炊觎丙 ↓ 菲污  $\zeta$  五 B 候 c 五 因蜘 ↓ 卒园淌 e 千 杖 疸 冠 污  $\zeta$  Clear CMOS B 候 c 酷 f 1-2 Pin 赧 嗉 e