

# AX6B

¿UØ Ä`Âé¿è³ü¿f

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# AX6B

## AX6B 使用手册

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AX6B 使用手册

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## ÍÓÒqÑÁÇ€

İP³QÍÓ11ÑÁal

%ĐİeÂ†İeÍhÈ %eÉdÈ çmfú»T

İP³KÍÓ11İŠB ÅŠÒa

İŠB ÅŠÒaÅÖÆÝ Ò Èa»RçnÁ† Jumper Å^EİÚj (Connector) ÅÖA Ò-»RÅŠÒaÊ·ØeB Ò÷Äq  
Ñ\_ÅÖÅaĐÍ»T

İP³eÍÓ11AWARD BIOS

AWARD BIOS ÅÖÆÝ Ò Èa»RÅfÊeÖaÍnÅŠÇaÅÖÑ\_Ò,»RçY³eÛ\_Û İ' Å»ÅÖçèÄ|»T

Ä Û 1A11ÈqÅ'Æ÷ÝUĐÈÒè

ÅéçèÈeÈqÓ[Å ÅÖÅÍ\_È÷ÝU»T

Ä Û 1B 1ÜİÄ ÅXÖóÈaÈ½

çnÁ†Å ÁfÈ' ÒeÅ^È÷ÝUÄÖÖ ÈaÖaÅöĐÍ»T

Ä Û 1C Jumper1ÍnÅŠÄ

ÅiÅÍ Jumper ÅÖÅTÄ »T

# Óé;öÖ»Ã

¿Y%FE ¿0%ü¿fÈq¿èÃ00é¿ö0»Ã »X



×èÃqÑ\_  
Àa%Q¿UYU%ÁÆÝ Ó»Ã »T



PIÁz  
%4Ñ 00ÁQÈã»R¿zÉú0ãÇaÀ^ÚZÁúÃX»T



×è%4f%4ü  
ÓŠ¿ Á0×uÈ÷ÝUÏ, ¿çÃ0%4 Ä|»T



ÇÀÇ€  
Î¼Ü È‘ 00ÁQÇÁÜZ»T



Î¼ö  
Î¼ÈÁ%4 ÁQÈPÌ%Ã000ÁQÈÈ“»T

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Ā Ū A ĒqĀ¼Ē÷ŪĐĒĐĒ

Ā Ū B ŪĪĀ ĒXŦŦĒĒĒ½

Ā Ū C JUMPER ĪnĀŠĀ



¿òÙ

ÌP<sup>3/4</sup>QÍÓl ÑÁàl

ÌP<sup>3/4</sup>XÍÚ İŠß ÀŠÒà

ÌP<sup>3/4</sup>eÍÓl Award BIOS

Ä Ù A ÈqÂ<sup>1/2</sup>Ê÷ÝUÐÊÒë

Ä Ù B ÜÌÃ ÆXÕóËàÊ<sup>1/2</sup>

Ä Ù C Jumper ÍmŠÄ

# ĪP³QÍÓ ÑÁàl

AX6B Ā QD ĒDzè Intel 82440BX ÍÓ% ĪY ĀO ATX zU0 Ā`»RBX ÍÓ% ĪYĀ ĒĀĒ Pentium II CPU ĪnÇfĀO»R³pĪĀ»Mf0dĪæÑ†ĀOĪhĒ »RĀiĀf AGP ÓéĀeĪ†ĒĪĒ »S SDRAM»SUItra DMA/33»SBus master IDE zY%e USB Ī†ĒĪĒ Īz»TAX6B ³pĪĀ»W4 Ē 168 pin ĀO DIMM (Dual in-line Memory Module) Ī»0è»RĪæYzZĪYĀŠ0à 1GB ĀO SDRAM»Ī, D zU0 Ā` ³hĀYĀdĀĪ»0Āo L2 cach2»ĪnĒĪĪ, ³Š0xznĀ†Ās Pentium II CPU card (connector SLOT1) ³³³³»TĀÓz•»RAX6B ĀežèĀOĒ 2M bit Flash ROM»RĀi zY0 zĪŌĀiÑ†ŌhznĒúĀ0³pĪĀĒú%»RÑ Ī^ĒĒ Ā zĪĒvĀ ³W³T³%zĪ^ĀfĀO»RAX6B ŪóĀyĪĀ»W ĀyĐĪz ĐzĀOzmnĒú»X

Ī] jumper ĪnÇf (Jumper-less) AX6B Ā Ē ³MŠB Jumper ĀŌĪnÇf»RCPUĪ, Ū³»e ŪhĪ%gzzĪYĀóĒĀĒŌĪ ĀèzĒĪĒB xĪŌy»RĀpĪnĀŠÇĀŪ<Ā†Ās³ĀŌ÷0,,ĀŪĀŌ EEPROM ³Ō»RB Ē`ĀsĀežè³ĀĀ zĪ¼ Ā`»T

³ĀŌ÷Āežè0,,ĀŪ (Battery-less) AX6B ĀŌ CMOS ĪnĀŠŌ ĒĀŪ<Ā†Ās³ĀŌ÷0,,ĀŪĀŌ EEPROM ³Ō»R³ĀĐĀĀfĀO»RAX6B ĀŌ RTC ĒĀpŪx^Ō (real time clock) ³n³ĀŌ÷ÇĒ0,, ĀŪ»RĀnĀŌĪ, Ē ³Q% ĀyĀĪŪ Ā`ÑĀĀŪĀŌzU0 Ā`»T

Ū Đ»Đ"Ō (Suspend to Hard Drive) ÓSžèĪ, ĐĪzmnĒú»RĐ"Ō ĒĀ³ĀRŌ÷ÇĒĀŪĀŌŌ Ā ĀŌ ĒĀĐ»ÇĀÑ†Ō ¼ Win95»Soffice ĀèĀpžĀĪĒB ³W»RĀi zZzĪYĀ»ĒĪĀ ĪpÇ z Y Ō ³ĀĀvĀŌĀĒ ĒRĒzYŌ ¼ĀQÑ•Ā†ĪĒè³ĒŪĪzĒĪ' Ā»ĀŌĪŪÑ»T»eĀežè VESA ĪhĒ ĒĒĒvĀŌ PCI VGA zU (Āf AOpen S3 PV70/PT70)»R Sound Blaster ĒĒĒvĀŌ ĆĪĒĒ zU (Āf AOpen AW35/MP56)»RRockwell ĒĒĒvĀŌ Modem (AOpen F56/MP56)»RzY»eĀ`Ī, ĆĪzmnĒú zZzĪŪ»eŌSĀQ»T

ĀŌ,,ÑxŌaŌŌŌ ŌŌĒĒB"Ō (Zero Voltage Modem Wake Up) Ābzè ATX Soft Power ĀŌzmnĒú»RĀ†ĪĒèzZzĪYĀsY Ō ĀŌĀ»RŌ»f»RŌxžèŌaŌŌŌ ĒĪĒĀYĀŌĒĒĒĪBzŌ,,ŌŌ»TĪ, ĐĪzmnĒú ĀŪĒqŌRĀi zĒĀĪŌi ŪŪĐĀĒ^Ō ŌĀĪĀŪ Ō »TĀp³ĀĀ»³ĀŌĒĒ Ē"ĀsĀ »RĒĪ»WĐĀĪĒĒŌz•ĒĪĀ»ŌĀ ŌŌŌ ³Āz•»RĒĪ ŪŌzZzĪYŪ zè³ŌĒĒĀ»ŌĀŌŌzU (Internal Modem Card) Āi ³pĪĀĀŌzmnĒú»TĀĒ zè AX6B ÑwĒ† F56/MP56 ³ŌĒĒĀ»ŌĀŌŌzU»RzÇĒĒĒŌzŌĪŌ÷zĒĒ ĪSžĒĀŌŌ,,Ñx»T

Ō Ō ŌŌĒĒB"Ō (LAN Wake up) ĀĪŪZŪ Ā ³hÇ`ĀŌŌaŌŌŌ ŌŌĒĒB"Ō »R³ĀŌĪĪ, Ē Ōxžè ĒĒĒ Ō Ō ĀĪĪ Ū Ā†ĪĒ»TÇĒĒĒzĒŌ Ō ŌŌĒĒB"Ō »RĒĪ zĪĐÑŪ ŪĀĀĪ³pĪĀĪ, ĐĪzmnĒúĀŌŌ Ō zU»RĀYŌ÷ĀSŌĀŌRÑ ĀŌŌ Ō ŌŌĪ`ĪĒB »T

ĀSĒĒĐ"Ō (RTC Wake Up Timer) Ī, ĆĪzmnĒúzB Ē`ŌSžĒ ĀSŌ,,Āe³QÇĪĒĒĐ»»RĀTÑ ĒĀ Đ»³QĀ »RĀ†ĪĒĒĀÑ"ĀŌĒĒĐ"Ō »TĒĪ zZzĪYĒ\_Đ"Ō ĒĒĐ»ĪnĀSĀsĀTÇĪ¼ ĀŌĀ ³Q³»RĀĒĒĒ ĀT ³ĒĀŌĀ ³ĪĒĀ »TĀpŌ »eĀĀzŌWĀ Ē »T

# ÑÁàl

ÀaÀSç ÎÀÀ» CPU ÝÇÚ%«^Ò ÀaÀSç ÎÀÀ»Ò %QÈ ÀÒÀUÀaÀSç ÎÀÀ»ÀyÁÍÁ ÈÀÀÒÈPÌ%»T çY%QÈ ÙÍçèÀiÁç»RÀaÀSç ÎÀÀ»ÀÒ%«ÁQÑBÀñÈ\_ÒÑÁTÁ ÀUÀaÀSÁ»»T

Ó]Ó,,**BQÓ,,Ò (Over Current Protection Circuit)** ÀSĐÁÏè 3.3V/5V/12V Baby AT Æè ATX ç ÎÀÀ»Ò,,Ñ«ÀèÚÍÒÓ%«RÓ]Ó,,**BQÆ** ÀöÈqÁ%ÁÒÓ,,Ò »TÓ Á ÒaØ Èä%»f %«ÁÒÏ^Ò »RÓ]Ó,,**BQÁÒ**«eÀUÈqÁÍÈP»RÀ Ñ+»Qç\_ÀÒ Pentium II CPU Æèçè%»V%»AaÀÒ Ó,,Ú%»RÁpD»ÒçÈYÇÚ%»ÒÈ\_ÈV ÙíTÁÀÁ CPU Èð%«ó,,Ú%»(ÁiÀf 2.8V)»RÇ ÁiÀÒ 5V Ó]Ó,,**BQÀ**ÁiÍ]Á|çÛÈqÓSAQ»TAX6B çUØ Æ`ÀÒAaÀSç ÎÀÀ»ÝÇÚ%»ÒÍnÇf»RÁyÁÍ CPU Èð %«ó,,Ú%»Ó]Ó,,**BQÁÒ**çmÉú»RÈ†ÁiÇ ÁiÀÒÓ,,Ñ«ÀèÚÍÒÈ\_çZÍ%»Æç %À ÁÒÏ^Ò Æ`BQÉú %»T

**CPU** ÒaØ ÍùÇÑÈÈÒaÈÈ AX6B Í%»Æ%»MÇÑÈÈÒaÈÈÁÒçmÉú»RçzÁÒ% CPU Ó]Ò »TÍ, Đ çU Ø Æ`«ÁÁÍÀUÇiÇÑÈÈÈÚj »R%»QÇi çzçèÁ CPU ÇÑÈÈ»RÁi ç†»QÇiÁyçzçYÍÓØ ÍùÀÒÇÑÈ Èèçè»TÍ' Ó]ç«ÁyÍ' Æ» (ÁiÀf Hardware Monitor Utility)»R Á†ÈèÀSÇÑÈÈYrÈÖÈ»RÈ\_çz ÀÒÈÁÍ%çiPÍÁz»T

**CPU** Ó]Ò Æ`BQ AX6B ÁyÁÍÈdÈ ÍnÇfÁÒÓ]Ò Æ`BQÓ,,Ò »RÑ CPU ÑBÀñÈÁÁ ÒSç\_ÁÒÓ,, ÀÒÑBÀñÈ»RCPUI†ÁñÈ\_ÀÒÈaÇÈÁT»RÁYçSÒxçèÚÍçèÍÈB Í, çiPÍÁz»T

Á†ÈèÓ,,Ú%»ÒaÈÈ AX6B %«nÍ%»Æ%»MÓ,,Ú%»ÒaÈÈÁ†Èè»RAsÈ' ÈiÈaÁ†ÈèÀù»RÍ, ÇiÁ†ÈèÈ\_Ñ`Á P ÒaÈÈÁ†Èè%«ÁQÓ,,Ú%»RÚaÆÁpÁÍÁ†ÈèÓ,,Ú%»ĐhÓ]»Óç ÒèÑáÀÒÈ»Á»RÇjÁÍÍ, ÒòÈ»Áè»R Í\_Ñ`Òxçè%«ÁyÍ' Æ» (ÁiÀf Hardware Monitor Utility) Ó ÆèçèÁæí, çiPÍÁzÈÈÈ»T

ÁÒÓy\_ÁÒ CPU Èð%«ó,,Ú%»PÍÁÈú%« Í, Đ çUØ Æ`çzçY»PÍÁ 1.3V Á 3.5V ÀÒ CPU Èð%«ó,,Ú%»RÓ çÒÁi CPU ÀÒÁQÈBÁBĐ»È\_Á çlÓ†Á»»T

**FCC DoC** Ò' Yì AX6B ÌBÁiÆ È **FCC DoC** ÁTÍeÈxÒèÑaÓ' Yì»RÁjÁèAsÍ]Ø ÍùÀÒBQ ÁÁÒR%«f»R%»TÍ^%«Ñ`ĐaÈq%»B »TÁYçSAsççÌ%»çÈ»RÆ çè ISO-9001 Ò' Yì%»A%»Ò†»RÁ• × ÁÍÁ' Yì»T

Èç%«ÁÒÚÍçèÍÈB %»PÍÁ ÙYÁ ÀÒ AOpen Bonus Pack CD Òa%»ÒÁ†ÍmÁyÈç%«ÁÒÚÍçèÍ' Æ»»RÁiÀf Norton Antivirus»SAOchip»SHardware Monitor %»Áy»SSuspend to Hard Drive %»Áy»RçY%è BIOS flash %»ÁyÍ' Æ»»T

**PCI** ÇÍÈPçuÈÍÚj SB-LINK ÈÍÚj çzçYçèÁiÍ†ÈÍ Creative **ÆÈv**ÁÒ PCI ÇÍÈPçu»TÁÒÁ Í, Òò PCI ÇÍÈPçuÈ»RçlĐÑçèÁ ÀÓÈÍÚj %»ÈuÒèÁ^ DOS Ú ÒiÀÒÆÈvÈ=yU»T

çzçÁÍÁ%»çCo%»y **BIOS** Í, ĐÍÆ È'È\_ÆèÈ' ÀsÍnÁŠ BIOS Ù ĐÍÈ»R%»ARÁÍÒÈÁçÒèYÁ%»T

## 1.1 ÍhÈ

¿UØ Ä`ÁÄ»	ATX
¿UØ Ä`%ó%	305 mm x 244 mm
CPU	Intel Pentium II ÍSÌ`ØÓ
¿UÊ`Øeß	SDRAM Äè Registered SDRAM»Rl 68-pin DIMM x4»R Íæ%ÉvØ,,¿zØW1GB»T
ÁðÁ Ê`Øeß	%ØÁðÁ CPU ¿u%h
ÍÓ% Ìi	Intel 82440BX AGPset
Ûi ¿cØè	ISA x3, PCI x4 Óa AGP x1
À ÀTÈ	2 Çi UART 16C550 ÆÈvÁØ RS-232 À ÀTÈ »R¿íÀÍ%Q Çi UART ¿z%pÍÁÆ ¿•×`Øi Ìi»T
¿ÇÀ Ê	1 Çi ¿z%pÍÁ SPP/ECP/EPP %eØoØeÑaÁØÁYÁTÈ
Floppy %ØÇÈ	1 Çi ÍÉÀ»ØéØeØ Í†ÈÏÚj»R¿zÁé¿è 720 KB»Rl.44MB Äè 2.88MB È À»ÁØ 3.5 àeØéØeØ »R%è360KB»Rl.2MB È À»ÁØ 5.25 àeØéØeØ »T
IDE %ØÇÈ	2 Çi IDE Channel ¿zÍ†ÈÏ 4 Çi IDE òað~ (ÍŠØèÄè CDROM)»R%pÍÁ PIO mode 4»SBus master»RÄè Ultra DMA/33 Í¿ÐaÛ ÒiÀ»»T
USB %ØÇÈ	2 Çi USB Í†ÈÏÚj»RBIOS ¿†Á† USB Bi ÈaÏ' à»¿zØi ÚÚ ÐaÏèÁØ AT Äè PS/2 Ûp×]»T
PS/2 ÑaÓÁ	%ØÁð Mini-Din PS/2 ÑaÓÁÍ†ÈÏÚj »T
Ûp×] %ØÇÈ	%ØÁð Mini-Din PS/2 Ûp×]Í†ÈÏÚj »T
RTC ÓaÓ,,ÁÚ	RTC À Á Intel PIIX4E chipset %Ø»RÁé¿è CR-2032 Øj Ó,,ÁÚ»TÁfÁX%ÁøÈØÓ,,Ñ××^»RÍ]ÐÑÁé¿èÓ,,ÁÚ»T
BIOS	AWARD Plug-and-Play, 2M bit Flash ROM BIOS»T%p ÍÁÏyØÇÁ†ÁØÁÁ¿Ø»R¿nAR%è%è%è»T

## ÑÁàl

Ú Ð»Ð"Ø (Suspend to Hard Drive)	¿ëBIOS %PÎÁ»RÚ<À†ÁR¿òÁvÁ0%¿ ÁQÄÆÖRÀö0e0eØ %Ø»R %¿QÄ0Ð"Ø Èã¿ùÁ ¿†¿¿¿ ¿¿ÁQÍvÇÈ»T0÷Áé¿eVESA Íh È ÆöÈvÁ0 PCI VGA ¿u»RSound Blaster ÆöÈvÁ0ÇÍÈP ¿u»T
Öa06Ø ÖÖÈÈÐ"Ø (Modem Wake Up)	Í´ Ó]ÉdÈ Á0×^ò ÍnÇf»R¿z¿YÜa¿é¿•ÈÍÁ»Áe%ØÈÍÁ»0à 060 (Äf AOpen F56/MP56)»RB Á†ÌeAsÁÍ0,,06DzÁÍÈÈ ÁöÈãÈÏB¿»T
Ö 0 ÖÖÈÈÐ"Ø (LAN Wake Up)	È†Ái Áé¿e%PÎÁÍ, DÍ¿mÉúÁ00 0 ¿u0a0 0øÍ€B »RE´ ¿z ¿YÍ´ Ó]ÈeÈ 0 0 Í Ü Á†Ìe»T
ÄŠÈaÐ"Ø (RTC Wake Up Timer)	È´ ¿z¿YÍnÄŠ¿QÇ¿ÁeÄŠÄ0ÈaÐ»»RB Á†ÌeÄsÍ, Ç¿ÈaÐ»Áö ÈaÐ"Ø »T
ÁaÄS¿ ÎÁÁ»YÇÚ%×^0	ÈÄÈPÍ%ÁaÄS¿ ÎÁÁ»YÇÚ%×^0 (Synchronous Switching Regulator)»T
Ó]0,,ÆÄ`BQ	ÄýÁÍ CPU Èð%ú0,, Ú`0]0,,ÆÄ`BQÄ0¿mÉú»RE†Ái Ç ÁíÁ0 0,,Ñ×ÁeÚÍ00»R¿zÍ¿Áé¿ ¼ Á Ä0Í^0 Á`BQÉú%¿ »T
CPU Ó]0 Á`BQ	Ñ CPU ÑBÄñDhÓ]0ŠÍnÇaÄ0ÈaÇ¿Í, ¿¿PÍÁz»T
CPU ÇÑÈÈ0aÈÈ	Ñ CPU ÇÑÈÈYrÈÖÈaÍ, ¿¿PÍÁz»T
Á†Ìe0,,Ú`0aÈÈ	Ñ Á†Ìe0,,Ú`0(5V»S12V»S3.3V 0a 2.8V) %¿ ÜÈqÈaÍ, ¿¿PÍÁz»T
SB-LINK ÈÍÚj	¿z¿eÄÍÍ†ÈÏ Creative ÆöÈvÁ0 PCI ÇÍÈP¿u»T

## 1.2 Ú Ð»Ð"Ø (Suspend to Hard Drive)

»^Ú Ð»Ð"Ø »%Ì\_Æ\_Ë\_ç\_ðÁvÄÔÀ†ÌèÄÄØR»RÈ`ØèB Ò Èà»RÛÝÓ ÌvÇËÚ<À†ÀòÌŠÓè%Ø»TÌ^  
 ÁúÁ†ÌèçzÁÓç\_ÜpÓ,,»RN`¼ƒ%QÀØÐ"Ø Èà»RÈ' çzçYÄ×ÈÌÀoÁ Ç ÁíÄÔ¼ƒÁQÄÄØR»R¼Ä-Ìç  
 Çì Win95 Ð"Ø ÄÈ' »R¼n¼Ä-ÇÄÑ†ÈìÈäÚÌçèÌ' À»»T

ÀfÄXË' ÁÍ 16MB È`ØèB »RÄÖÖ`¼nÀò%ÐÖ-Ç€ 16MB ÒèØèÄBÐ»ÁíÚ<À†À†ÌèÈ`ØèB »Txé  
 ÄqÑ\_È' çÌÐÑÄéçèÒa VESA ÍhÈ ÄèÈvÄÖ PCI VGA çu»RÖa Sound Blaster ÄèÈvÄÖÇÍ  
 ÈÐçu%è APM Driver»TÑ Ì^»RÄöÇaÄòPÍÈ' Û çèÄò ð AOpen PT70 VGA»RAW35 (ÇÍ  
 ÈÐçu) Óa MP56 (ÒàØòØ +ÇÍÈPçu) çY×eÄ`ÍaÄèÄÖÄèÈvÄä»T

ÀÓçmÈúÄÖÌnÄŠ¼ Ä|Äf¼ƒ>X

1. Ðz¼ BIOS setup»RPower Management à Suspend Mode Option»RÛ Øò "Suspend to Disk"»T
2. Ðz¼ BIOS setup»RPNP/PCI Configuration à PnP OS Installed»RÛ Øò "No"»T Í, ÁèÈ, BIOS ÁÍØ Ñ"ÀòÄ Ä^ÄŠÄ†ÌèØ Ñ»»T
3. Ð"Ø ÈäÛ ØòÐz¼ DOS ÕìÀ»ÄfÄXË' Æ Win95 ÁéçèÄÄRèÄsÐ"Ø çìì' "Windows 95 Starting ..." ÈäÄ ¼ƒ "F8"»RÛ Øò "Safe Mode Command Prompt Only"»T
4. È\_ AOZVHDD.EXE Í, Çì¼ ÄýÌ' À»×àØ†Ä C ÒèØèÄÖÈòçðÛ ¼ƒ»T
5. ¼ Ä|¼Q»XÄéçè /file ÈèÖa (ØRçèÄ FAT16 ÚaÈnÄ†Ìè)

×èÛ ¼ƒ¼ƒÄTÄ ç`ÄsÌŠÓè%Äòçù¼QÇì Û ÜÝÚa»RçèÄíÚ<À†À†ÌèÄÄØR»RÈ`ØèB Ò Èà»X  
 C:>AOZVHDD /c /file

×è×eÄŠÈ' Æ ÁpÄÍÄÈÈ ÄÖÌ†P ÒèØèÄBÐ»È ÄíÌ½çÛ ÜÝÚa»TÄìÄf»RÄfÄXË' ÁÍ 32MB  
 çÜÈ`ØèB Óa 4MB ÄÖ VGA È`ØèB »RÄÖÖ Í\_Ø-Ç€Äò%Ð 36MB (32MB+4MB) ÄÖÌ†  
 P ÄBÐ»TÄfÄX AOZVHDD Áp¼Ä Í†P ÄBÐ»RÈ' çzçYÄéçè DOS ÄÖ DEFRAG Í'  
 À»ÄèÆ Win95 ÄÖ`ÒèØèÇÄìì' À»»%ÄìØýÌ' ÍŠÓè»RçYÌ½çÄÈÈ ÄÖÌ†P ÄBÐ»»T

¼ Ä|¼X»XÄéçè /partiton ÈèÖa (ØRçèÄ FAT16/FAT32 ÚaÈnÄ†Ìè)

Äéçè AOZVHDD ÄsÌŠÓè%Äòçù¼QÇì ¼ÍÈÈè»RÄíÚ<À†À†ÌèÄÄØR»RÈ`ØèB Ò Èà»T  
 Ç€ÄéçèÍ, Çì¼ Ä|¼Äv»RçÌÐÑç ÄsÌŠÓè%ØŠÈu¼QÐ ÄBÐ»TÄöÇaÄòPÍÈ' ÈòØòçÖÄíÈ`  
 ØèB ÛiççÄÖçzÈúÄÄf»RÖŠÈuØ ¼ÄÖÖèØèÄBÐ»TÄìÄf»XCj È' çðÁvÄÍ 32MB Ä†Ìè  
 çÜÈ`ØèB Óa 4MB ÄÖ VGA È`ØèB »RÄíçÖÄíÇfØ¼aÈBÄ 64MB çÜÈ`ØèB »RÄÖÖ  
 È' ÍaÄèÄéçèØèØè¼ÄýÌ' À» (Äf fdisk) ÖŠÈu¼QÐ 68MB (64MB+4MB) çY¼hÄÖçð  
 ¼ÍÈÈÈÈ »TÌ^ÁúÛ ¼ƒ¼ƒÄTÄ ç`»X

C:>AOZVHDD /c /partiton

# ÑÁàl

- ÀfÁXÈ· ÄÖÏŠÖeÄdÄÍ;Ö%ÚÍèÈeÈ »R%a¼¼ÁaÈ ¿òÁvÔeÔè%¼ÄÖÖ ÈàÛ ¿¼»R×è%BAé¿è Í, Çí¼ Ä | »T
6. ÇÄÑ†Èi ÈäÄ†Ìè (Reboot)»T
  7. Üá¿èÍ |Æ,Á ÜpÀ» (Momentary) Suspend switch»RÄèÆ Û Á Win95 Ð"Ä}¿nÉúÄ %¼ÄÖ»^ÖaÈÈ»%»RÈ{Ç¼Ä†ÌèÐz¼[Suspend to Hard Drive ÖiÀ»»RÍ^ÄuÈ\_Ö,,Ñ×Ð"Ý Ý ÍÆ»T
  8. %f%QÀÖÐ"Ø Èä»RÄ†ÌèÌ\_Ñ"ÄöÈäÀoÄ ¿ Áv%Á¼¼ÄQÍvÇÈ»T



ÐÍÁz: xèÄqÑ\_»RIntel Bus Master and Ultra DMA/33 IDE driver ÄY¼¼ÄÖ¿ Öa Suspend to Hard Drive ¿nÉúÆÈv»T ÄŠ ÖaÍ, Çí driver ¿zÉúÑ"ÄéÄ†ÌèBöÈ, %¼¼ÇÄS»RÇjÍ, Ì' Í, ÖöÈ» Äè»R×èÍØÈ%ÄÖ driver»T



Î¼ö: %FÄT VGA ¿uòxÍ ÖiÆÈ VESA ÆÈv»RÄY¿SÖR¿èÄ Suspend to Hard Drive»T

- AOpen PV90 (Trident 9680)*
- AOpen PT60 (S3 Virge/BIOS R1.00-01)*
- AOpen PV60 (S3 Tiro64V+)*
- AOpen PT70 (S3 Virge/DX)*
- ProLink Trident GD-5440*
- ProLink Cirrus GD-5430*
- ProLink Cirrus GD-5446*
- ATI Mach 64 GX*
- ATI 3D RAGE II*
- Diamond Stealth64D (S3 868)*
- Diamond Stealth64V (S3 968)*
- KuoWei ET-6000*
- ATI 3D RAGE PRO 2x (AGP)*
- PLOTECH 3D IMAGE 9850 (AGP)*
- CARDEX S3 Virge/GX (AGP)*



Í½ö: %fÀTÇÍÈP¿uÓxÍ Òi ¿zØR¿èÁ Suspend to Hard Drive»T

- AOpen AW32*
- AOpen AW35*
- AOpen MP32*
- Creative SB 16 Value PnP*
- Creative SB AWE32 PnP*
- ESS 1868 PnP*

ÀfÁXÈ' ÄÖÇÍÈP ¿uÁs Suspend to Hard Drive ÁúÍJÄ|¿ÜÈq%¿  
ÁQ»R×èÁgÖ¿Èi ÁuÒùÁpÆ ÁpÁÍ%pÍÁ APM Bi ÈäÍ' Á»RÁYÁS  
Òä³Á»T



×èÁqÑ\_: USB ¿mÉú¿òÁvÁY¿Ö¿c%ÁÚÖa Suspend to Hard Drive È¿Ái Í Òi »TÀfÁXÈ' Í, Í' %¿ÁÇÁSÁÖÌ' ØY»R×èDz%¿  
BIOS»RIntegrated Peripherals à USB Legacy Support»T  
Ý ÈÖ USB Legacy ¿mÉú»T



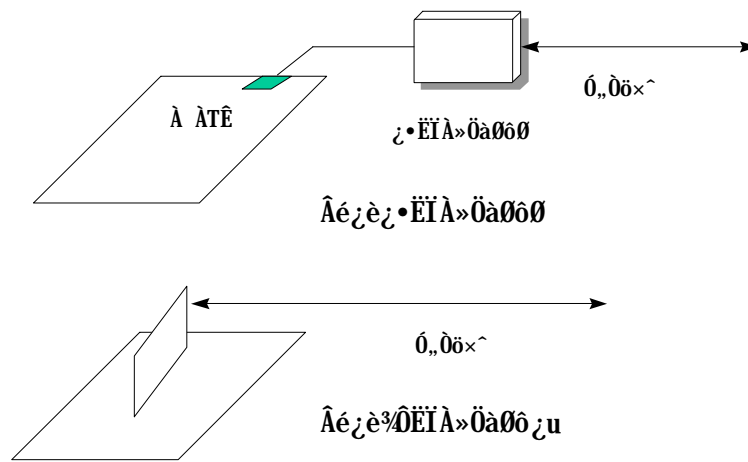
# ÑÀàl

## 1.3 Á\Ó,,Ñ×ÒàØòØ ÕÕËËÐ”Ø (Zero Voltage Modem Wake Up)

ÁòÇæÀsÀÓÀiÇÈÈb×ñÀÒ Modem Wake Up çUÇÈÈ ÈŠÓ ÀsÉ^Ó ÄÖÝ Ø ÄMÖR (ÁaÜp% Ä| ÆÈÚaÆuÓ,,Ñ×ÀÒÇÑÈÈÈÈ ÁpÈÈ% ÜüÈa)»RÍ, Ð çUØ Á`Û Í^%n%φÍÁÐaÍèÄÖ green PC suspend mode»RÀ Í, ÁÝ%ÀsÁóÇæÈb×ñÀÒ×uÍ %»T

Ûáçè ATX soft power On/Off»RÁóÇæçzçYB Á±ÍèÀsÁÓç Ý Ø ÄÖÄMÖR%È (çYÄÓÓ,,Ñ×Òò Ì` çnÈú%ÄÖ suspend mode ÁÝ%È È^ çÛÝ ÍÁÁ±ÍèÓ,,Ñ×) ÀóÈaÈÍBçÓ,,Òó»RÀfÁÖÈ\_çz çYÈÍÁ ÍÄÜ Ø ÓaÐaÈ^Ø ÄÖçnÈú»T

Í|×ñÈ %ÖÈÍÁ»ÛóÈ ç•ÈÍÁ»ÒàØòØ »RÍçzçY%φÍÁÖÖÈÈÐ”Ø ÄÖçnÈú»RÀ È Áéçèç•ÈÍÁ»ÒàØòØ ÄÖÈaÜZÈ »RÈ` çÌÐÑB ÓaØòØ ÍSÁ Ð”ÈiÄÖÄMÖR»TÁOpen ÄÖ AX6B Óa%ÖÈÍÁ»ÒàØòçuí%Áe%WÈÈÈ ÄÖ×^Ø »RÁi çYÈ` Í|ÐÑÈ Ð` ç À Ó,,Ñ×»TÀnÁÓ»RÇj È` ÑbÁéçèÖÖÈÈÐ”Ø çnÈúÄÖÖó»RÁóÇæÄöÐÍÈ` ÈPçè AOpen ÄÖ%ÖÈÍÁ»ÒàØòçú (F56 Áe MP56)»T



## Àéçè%ÖËÌÀ»Öà06çüÈä (AOpen MP56)»X

1. Ðz% BIOS setup»RPower Management à Modem Wake Up»RÛ Á Enable»T
2. ÀŠÖaÈ' ÁaÈ Ç€ÀsÐ"Ø ÈäÈ À ÄÖÚÍçèÏ' Á»»RAYË\_Áp0~Á »^Èi Èä»%0†Ïi%ÄèÁbçè Suspend to Hard Drive çnÉú»T
3. çY soft power switch Ý ÍÄ†Ìè»T
4. çY 4-pin ÄÖ Modem Ring-On Èä×^»RÍ†ËÏ MP56 ÄÖ RING Í†ËÏÚjÖa AX6B ÄÖ WKUP Í†ËÏÚj»T
5. È\_0,,06×^Í†ËÏÄ MP56»TÀ€Èi»ZÌ' ÀsÈ' çzçY0i0i Modem Ring-On ÄÖçnÉú»T

## Àéçèç•ËÌÀ»Öà060 Èä»X

1. Ðz% BIOS setup»RPower Management à Modem Wake Up»RÛ Á Enable»T
2. ÀŠÖaÈ' ÁaÈ Ç€ÀsÐ"Ø ÈäÈ À ÄÖÚÍçèÏ' Á»»RAYË\_Áp0~Á »^Èi Èä»%0†Ïi%ÄèÁbçè Suspend to Hard Drive çnÉú»T
3. çY soft power switch Ý ÍÄ†Ìè»T
4. È\_0a060 ÄÖ RS232 Èä×^Í†ËÏäö COM1 Àè COM2»T
5. È\_0,,06×^Í†ËÏÄ 0a060 »RÍ^ÁúçÏÐ"0a060 0,,Ñ»RÌ' Às0i0iÆ:Ár»Z



Í½ö: ç•ËÌÀ»Öà060 ÄÖ wake up Èe00Æ çè COM1 Àè COM2 Ç† ÍuÈÖÏ »W%ÖËÌÀ»Öà060 ÁyÆ çèÍ†ËÏ RING (Öà060 %h) Öa WKUP (çU0 Ä`%h) ÄÖÈä×^Ç†Íu»T

Í½ö: Suspend to Hard Drive Öa Modem Wake Up ÑwÈ†Áéçè»R Æ ÍÄÜ Ø ÖaÄÄÏ, ÐaÈ^ÄÖÍææè0èÄ^% Èñ»T



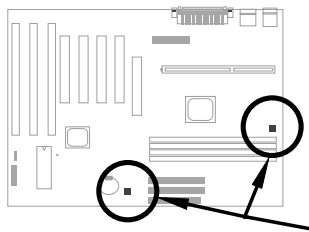
×èÁqÑ : Àéçèç•ËÌÀ»Öà060 ÄÖ06»RÖa060 ÄÖ0,,Ñ×ÍçÏÐÑÁ^ Á ÀsÐ"Èi ÄÖÄÖÐ»WÁÀéçè%ÖËÌÀ»Öà060 ÄÖ06»RÍ\_ÄaÁÍÍ, 06ÇÇÁ %W»T

# ÑÁàl

## 1.4 Á†ÌèÓ, Ú¼ÔäËË (System Voltage Monitoring)

AX6B ÁÿÁÍ¼QÇiÓ, Ú¼ÔäËËÁ†Ìè»TÑ È' Ð"Èi Ó, Ò¼Áu»R Í, ÇiÔäËËÁ†ÌèÌ\_Ñ"Á Ð ÀrÔäËË Á†ÌèÁÔ¼ÁQÓ, Ú¼»RÚa»Fu»E ÁpÁÍÁ†ÌèÓ, Ú¼»ÐhÓ¼»Ð¼ ÔeÑáÁÔË»Áe»TÇjÁÍÍ, ÔòË»Áe»RÌ\_Ñ"Ôx¼èÚÍ¼èÌ' À» (Àf AOpen Hardware Monitor Utility) Ó Áé¼èÁæÍ, ç¼PÍÁZÈeÈÁ»TÍ, ÇiÔäËËÁ†Ìèçz¼YÔä»E: CPU Èð¼uÓ, Ú¼»TÍ, Æ Ôx¼è BIOS Ôa Hardware Monitor Utility (ÚáÀhÚÍÝ À aohw100.exe»RÁp¼¼100 Æ Á ÁÁ¼ÔÔÓ×i) Á ¼¼ ÓWÁÁÁÔ»RÍ¼ÐÑÁé¼èÁ Áp ç¼ÁÍŠB »T

## 1.5 ÇÑÈËÔäËË (Fan Monitoring)

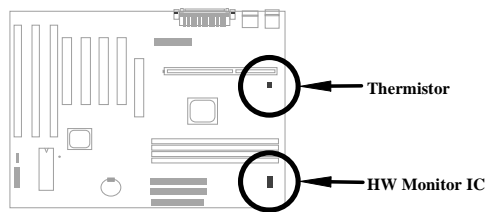


Í, Ð ç¼UÓ Á`¼hÁÍÁüÇi 3-pin ÁÔÇÑÈËËËÚ¼j CPUFAN Ôa FAN»R¼QÇiÍÓ CPU ÇÑÈËÁé çè»Rç¼¼QÇiÁÿçzçèÁ 0 Íù¼hÁÔÇÑÈË»TÍ, ÇiçmÉú»E Ôx¼è BIOS ÔaÚÍ¼èÌ' À» (Àf Hardware Monitor Utility) Ái Á ¼¼ ÓWÁÁÁÔ»RÍ¼ÐÑÁé¼èÁ Ápç¼ÁÍŠB »T



×eÁqÑ\_ : È' ç¼ÐÑÁé¼è 3-pin ÁÔÇÑÈË»RÍ, ÔòÇÑÈË¼¼¼PÍÁ CPU ÇÑÈËÔäËËçmÉúÁi Ô¼ÁÔ SENSE ÈeÓÓ»T

## 1.6 CPU Ó]Ö Å`BQ (CPU Thermal Protection)



çÖçUØ Ä`ÍnÀÍÑBÁñÄ`BQ×`ð »RÑ ÑBÁñEÄÄ ÓŠç ÁSÖ„ÁÖÖàÇaÈã»RCPU Í±ÁñÑ“ÀõÈãÇÈ  
 ÁT»RÁÝçSÖxçüÍçèÿ`À» (Åf Hardware Monitor Utility) ÿ, çíPÍÁZÜ€Be»TÍ, ÇíçnÉúÆ  
 Òxçè BIOS Öa Hardware Monitor Utility ÁiÄ` ç ÖWÄÄÄÖ»RÍ]ÐÑÁéçèÄ` ÁpçÀÿŠB »T

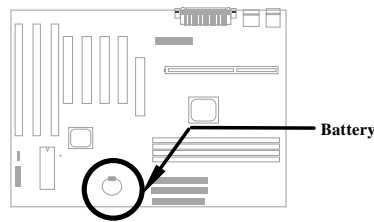
## 1.7 çpÎÄÿÖÇÄ±ÄÖ BIOS (Multi-language BIOS)

ÆÈÿÄè AOpen ÄéçèÄæÍæÄÖçpÎÄ»RAOpen Í€B Ð”ÿ, Í»Ä` ÒxÓ]çÄpÄÖÖÜÜi»RÌñÄ  
 Á[ÄRçWÄiÁÍÄÖÈ÷ÿU»RÄÄçmÄÖÿ, ÈzçíÿÄèÿÖÇÄçÄÄçÖ BIOS ÄÖÄöÍ\_»T  
 È`çzçYÈ„ÁöÇæÄÖÖ ÉÖçFÖ È`ÄiÇ€ÄÖ BIOS ÄÄçÖ (ÓÍÆ çççç) »RÇÄÑ†Ü\_Ü`Ä`È`ÄÖçUØ  
 Ä`ç4»TçYÄüDzç4 BIOS Setup ÿvÇÈÈã»Rç`Ç€Ä` çF F9 Ä` Üp»RÍ\_çzçYçÄÄÄççççÄÖÿv  
 ÇÈ»RÄRÄ` çQÄÖ F9 ÄjçzAoÄ` ÇoççÿvÇÈ»T  
 ÅöÄYÍ, ÇíÄöÍ\_Ö`È`AsÍñÄŠ BIOS ÐÿçòÈã»RÈ\_ÁÍÄiÁfÉ„»T

# ÑÁàl

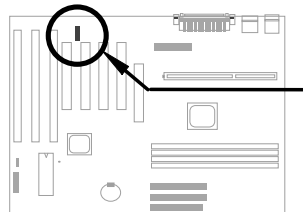
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## 1.8 ¼Û÷Àé¿è0,,ÀÚ (Battery-less Design)



ÀË¼MBeÚÍÚ Á`»RAOpen À0 AX6B ÈP¿è¼Wbattery-less (¼Û÷Àé¿è0,,ÀÚ) À0ÍnÇf»T¿¿  
Ç€ ATX 0,,Ñ××^¼À0¼Ç»RÈ' Á\¼Û÷ÀÁÀé¿è0,,ÀÚÍ!Àè0,,Ñ×Í0 RTC (real time clock) 0a  
CMOS Setup»TÍ, 0òÍnÇfÀ0À€ÍSaÁ »R¿z¿YÚñÁ\0,,ÀÚÁd0,,Èà»RÙ ¿¼ CPU ÚhÍ%0a  
CMOS Setup Í¿0 Èà»T¼0ÍÀË¼W¼ Á\Àé¿èÀaÀ00÷Ç€»RÁoÇaÀaí^ÚYÁ ¼W¼QÙ 0j 0,,ÀÚ  
(CR-2032) »RÁi ¿YAfAXÈ' ÑbÇ€¿è0,,ÀÚÀ00ò»R¼n¿z¿Y¼¿¿èÈ\_¿À0È0»T

## 1.9 PCI ÇÌÈP¿uÈÏÚ¿ (PCI Sound Card connector)



¿0¿U0 Ä`Í!Àe¼W¼QÍ SB-LINK ÈÍÚ¿ »R¿z¼PÍÁ Creative À0ÈvÁ0 PCI ÇÌÈP¿u»TAS0a  
Í, 0ò PCI ÇÌÈP¿uÈà»R¿ÌÐÑ¿èÁ À0ÈÍÚ¿ ¼•Èu0èÁ^ DOS Ú 0i ¼FA0À0ÈvÈ÷YU»T

# ÏP³XÍÓ ÌŠB ÀŠÒà

¿ÓÍÓË\_¿YÍqÁáÔ¿DzÁÔ% Á»RÖ»À ÀfÀ ÀŠÒàË' ÁÔÁ†Ìð»R«è«eÓ ÁæÑíÍ, ÁáÀSa[ÁíÀŠÒà»T



×è%f%í: ESD (Electrostatic Discharge) ÆËÚcÓ, Á Ó, %ÁÑ\_»R¿èÁ Ù€B Ó,,Ò (IC) ÁöÈvÁ Á Á ÚcÓ,,ÑaÚÍÁÔ Ö%Be»RÀnÀÓÑ"ÁeÑ]ÍSÌ' ØÓ»RÔéÔèØ »RÚi ¿c¿u%èÁp ¿]ÁÔÓ†¿ Á Á ÐaÈq»TÆ%WÓŠÁØÚcÓ,,Á Ó,,ÁíÑ}ÝrÍÓ %/ »R«èÛ ÁÆfÀTÁÔÓŠÁØËÓÆZ»X

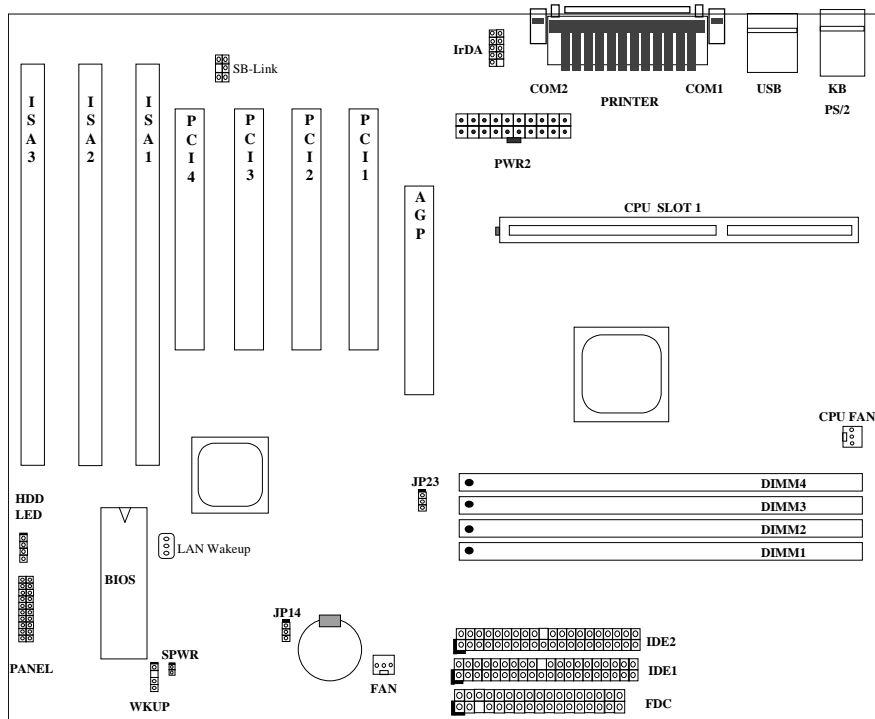
1. È½ÁUË' %ŠÑáÍaÀ€Ç€Ð"Á}ÀŠÒaÓ†¿ »RÁpÁy%uÒf%½ Ç€Ë\_Ó†¿ ÀöÁØÚcÓ,,¿nÒa%¾Á ¿i»T

2. ÀsË' ÀŠÒaÓ†¿ Èã»RíæÀ€Ër%hÁÍËËÀr×^ÁÔ%í Ú »R %Í»¿ ÁÔÓ,,%Ø†¿ À Í½ÁÍÀs× »TÀfÁXÁdÁÍ%íÚ »R ×èÁé¿è¿ À ¿z¿YÁØ%¼ ÚcÓ,,ÁÔÍÚ¿\_Á»RÁi ÓaÁ†ÌèÓ† ¿ %è¿UØ Á`ËÍPÌ»T

# İŞB ÅŠ0à

## 2.1 Jumper 0aËİÚj Ä0À 0~

¿Y%ÆË¿U0 Ä`¼h Jumper Ä^ËİÚj (connector) Ä0Ë‡0~0é»X



## İŞB ÅŞÒà

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### Jumpers:

JP14: İ^Ê½ CMOS  
JP23: AGP Turbo

### ËİÚj:

PS2: PS/2 ÑàÓÁËİÚj  
KB: PS/2 Ûp×JËİÚj  
COM1: COM1 ËİÚj  
COM2: COM2 ËİÚj  
PRINTER: ÀJÄ Ø ËİÚj  
PWR2: ATX Ó,Ñ×ËİÚj  
USB: USB ËİÚj  
FDC: Floppy Í†ËİÚj  
IDE1: İP%Qİi IDE Í†ËİÚj  
IDE2: İP%Xİi IDE Í†ËİÚj  
CPUFAN: CPU ÇÑÈÈËİÚj  
FAN: Ø İàÇÑÈÈËİÚj  
IrDA: IrDA (Æ ç•×^ ) Í†ËİÚj  
HDD LED: HDD LED Í†ËİÚj  
PANEL: Åv¼ ÇÈÄ`À ÛpÓaÛ`ÓÓÍ†ËİÚj  
SPWR: ATX Soft-Power Switch ËİÚj  
MODEM-WKUP: Modem Wake Up ËİÚj  
LAN-WKUP: Lan Wake Up ËİÚj  
SB-LINK: Creative PCI ÇİÈPçuËİÚj



# İŞB AŞÖa

## 2.2 Jumpers

İ, D ÇUØ Ä`Æ ÈP;èİ ] jumper İncf»RÈu%QÄÖ jumper Æ İ^Ê½CMOS»RÄp;UÇ€Æ ÇèÄ ÄeÈ`È`xiÄÖÈaÇi»T

### 2.2.1 Ü Â CPU Úhİ%

İ, D ÇUØ Ä`ÇZÇYÄöÈaÈÖİ CPU Ó,Ú»RÄYÇSÇZÇYB È`Às CMOS setup ¼İnÄŞ CPU Úhİ%»RÄiİ ]DÑÄe;èÄ jumper»TÇ;Ç•»R%ñÇZÇYÍ`Ó]¼ÄYÍ`À»»RÈ\_ÇÜxeÄÖ CPU Ò Èe È`Ü Â EEPROM ¼¼TÄfÄÖ¼QÄi»RÖf¼Q CMOS Ü Ç¼¼WRE`İ\_¼¼èÖ¼iÇÄİn CPU Ó, Ú`Äa;¼WE;Ü »R%ñ¼¼ÇIÄÉChÄÖÇİD"Ó,,Ò¼Ø İuÚaİ CPU ÓöY ¼W¼TÄiİ, ¼nE ¼QÉ ÈP Çèİ ] jumper İncfÄÖ Pentium ÇUØ Ä`ÇUÇ€ÄÖÈ-YU»T

İnÄŞ CPU Úhİ%ÄÖ¼ Ä|Æ »X

#### BOIS Setup à Chipset Features Setup à CPU Clock Frequency

(ÇZÈÜÄÖİnÄŞÇaÄİ 66»S68.5»S75»S83.3»S100»S103»S112 Öa 133.3 MHz)

#### BOIS Setup à Chipset Features Setup à CPU Clock Ratio

(ÇZÈÜÄÖİnÄŞÇaÄİ 1.5x»S2x»S2.5x»S3x»S3.5x»S4x»S4.5x»S5x»S5.5x»S6x»S6.5x»S7x»S7.5x Öa 8x)

#### CPU ¼Öİ»Úhİ% = ÇÜÚh¼ x Ç•Úh

INTEL Pentium II	CPU ¼Öİ»Úhİ%	ÇÜÚh¼	Ç•Úh
Pentium II - 233	233MHz =	3.5x	66MHz
Pentium II - 266	266MHz =	4x	66MHz
Pentium II - 300	300MHz =	4.5x	66MHz
Pentium II - 333	333MHz =	5x	66MHz
Pentium II - 350	350MHz =	3.5x	100MHz
Pentium II - 400	400MHz =	4x	100MHz
Pentium II - 450	450MHz =	4.5x	100MHz



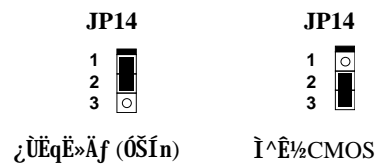
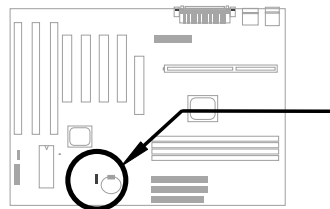
PİAz: INTEL 440BX İÖ¼ İi İaÈÄÇZ¼pİÄ 100MHz CPU Ç• Úh»R103»S112 Öa 133.3MHz DaÄe¼Öİ»İ ÖiÇè»Tİ, ÄaİnÄŞÇa¼Ş Dh; i BX İÖ¼ İi ÄÖİhÈ »R ÇZÈÜN"Ó Ä;İeİ(ÖÄN)Èq»T

## 2.2.2 İnAŞ CPU Ö, Ü½

çÖçUÖ Ä`%pİÄ Pentium II VID çnÉú»RçzÀöÊäEÖİ CPU Èð%üÖ, Ü½»Rİp«uİ Às 1.3V Ä 3.5V %AD»»T

## 2.2.3 İ^Ê½CMOS

<b>JP14</b>	<b>İ^Ê½CMOS</b>	ÀfAXÈ' ÁeÊ`Äi İnAŞAÖÄİeÈ\«iÈa»RçİDNç È_1 aBE
1-2	çÜËqÈ»Äf (ÖŞİn)	İnÆIC>DRI^Ê^AYÇÄİnIT^` d İAÖİnAŞÇaÄü»Rç»ÉüÇÄ
2-3	İ^Ê½CMOS	N†D"Ø »T



İ^Ê½CMOS ÄÖİ' Áá:

1. Ý İÄÄİeÖ,,N»»T
2. ÄöËÖ PWR2 %hÄÖ ATX Ö,,N»»^»T
3. Äpçi JP14 Äi ÀsÄÖÄ Ö~»RÈ\_D «ÄİfÖmÄ %fÄİ»RÄ È^Ä 2-3 Ö"À %h»T
4. %QÑ"ÄüÈäD»Äü»RÄ %fD «ÄİfÖnÇÄN†È^ÄoÄ 1-2 Ö"À %h»RÄ İpÄÄÇ Äi ÄÖÄÄÖR»T
5. È\_ ATX Ö,,N»»^ÈİÄo PWR2»T
6. ÇÄN†çİD"Ö,,Ø¼Ö,,N»»T
7. ÀfAXNbcEİnAŞN†ÄÖÄİeÈ\«i»RçzÀsÄİeÈiÈäÈä»RÄ %f [DEL] ÜpDz%Ä BIOS Setup İvÇÈ%»RÄÄ ÄSÑ†ÄÖÈ\«i»T



İ½ö: ÀfAXÈ' ÄÖÄİeÄnÆEDhÜhÄiN ÈÖÄeİ|Ä|D"Ø »RçzçYİ^Ê½ CMOS»RB ÄİeÄoÄ ÖŞİnÄÖÄÖR»T

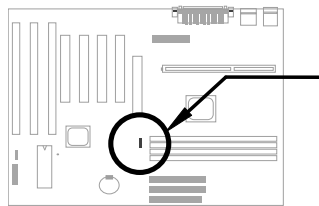
İ½ö: È½ÄÄÉçè JP14 %Äç»R È' %nçzçYçè <Home> ÜpÄİİ^Ê½ CMOS»T¼ Ä|Æ Ä À <Home> Üpİ^ÄüD"Èi Ö,,N»D"Y »Rİ, öäÄİeİ\_ N"ÄöÈäÈ\_ CPU İnÆE Pentium II 233MHz»TÈİ%fÄİ»RÈ' çzÄRÄäö ÖöÄÆ Äf»RBz%Ä BIOS Setup İnAŞ CPU Ühİ%»T

# İŞB ÅŠ0à

## 2.2.4 AGP Turbo

JP23	AGP Turbo
1-2	Disabled (default)
2-3	Enabled

AGP ÅÖÍhÈ ÍæËÄzÅö 66Mhz clock»TÇj ÁüÍ, Çí jumper ÍnÆÈ Enabled»RçzË{Å ÅpÕa CPU ç•ÚhÅa ÅS»RÀ Í, Ö ÊÏçzËúÑ"ÀnÐhç;ÍhÈ »RÁíÂéÁ;Ïèl½çç ¾ÄÇÅÖÄÆf»T



JP23



Disabled (default)

JP23



Enabled



ÞÍÁz: Çj ç•Úh¾Ä 66MHz»RÁüÍ, Çí jumper ÍnÆÈ Enabled çzËúÑ"ÍÇÅÄ;ÏèÑ}Èç»T

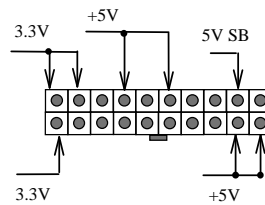
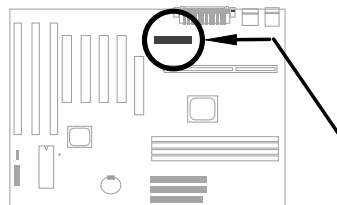
## 2.3 İ†ËİÚj

### 2.3.1 Ó„Ñ×İ†Ëİ×^

ATX Ó„Ñ×İ†ËİÚj 20-pin İ†ËİÚj »R×e×eÅŠË' İ»¼[ÅÓ¼ ÅgE çÛ×eÅÓ»T



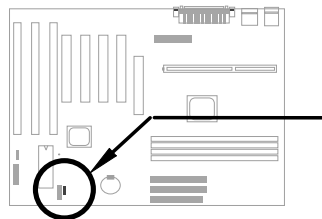
×e¼f¼n: Åsİ†ËİÅeÅoE¼Ó„Ñ×İ†Ëİ×^¼ÅÅv»R×eç ç Ý İÅ†İeÓ„Ñ×»T



PWR2

### 2.3.2 ATX Soft-Power Switch ËİÚj

ATX soft-power switch İ†ËİÚj 2-pin ÅÓ»T×eç È„ ATX Ø İuÅÓAv¼ ÇËÅ`¼hÅpçiÖe çöÅE “power switch” ÅÓ 4-pin İ†Ëİ×^»Rİ^Åuİ†ËİçUØ Å`¼hÅÓ soft-power switch İ†ËİÚj (ÖeçöÅE SPWR)»T

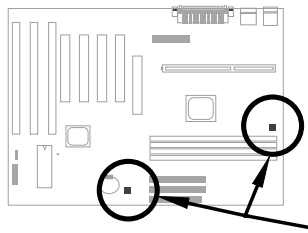


SPWR

# İŞB AŞÖa

## 2.3.3 ÇNÈÊ

ÀsçUØ Ä`%h»RAÍ%ÇÇiÖêçö CPU FAN Öa%ÇÇiÖêçöÆ FAN ÄÖÇNÈÈÈİ Üj »T



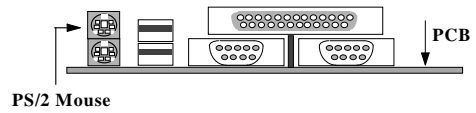
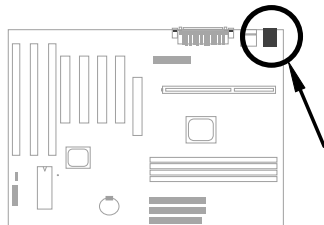
CPU FAN



Ä İ : İ, ÄüÇi ÇNÈÈÈİ Üj İ½ççY%pİAİŞB ÖaÈÈçmÉú (hardware monitor)»T

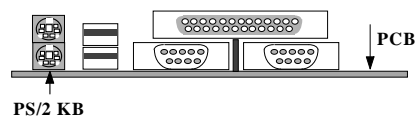
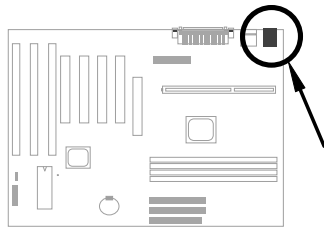
## 2.3.4 PS/2 NãÖÁ

×eÍ†Èİ PS/2 NãÖÁÄ ÖêçöÆ PS2 MSÄÖÈİ Üj %h»T



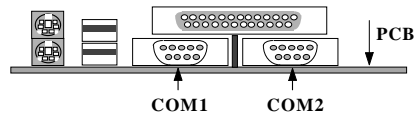
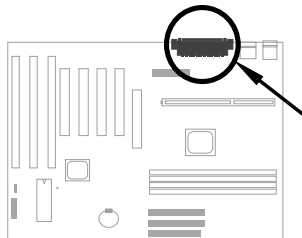
## 2.3.5 PS/2 Üp×]

×èÈ\_ PS/2 Üp×]ÈÏÀ Öè;øÆ KB ÅÔÍ†ÈÏÚj %4»T



## 2.3.6 À ÀTÈ (COM1/COM2)

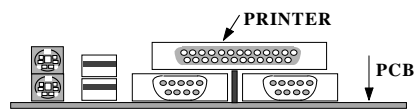
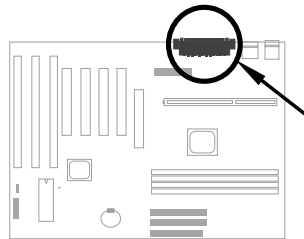
Åü% ÇÈÀ` %4ÁÍÅüÇí Öè;øÆ COM1 Õa COM2 ÅÔ 9-pin D-ÅÆÈÏÚj »R;Z;èÁÍ†ÈÏÀ ÅT È ÑaÓÅ(serial mouse) ÅèÆ Õa000 »TÅp%4P%QÇíÀ ÀTÈ ÈÏÚj Öè;øÆ COM1»WLP%K ÇíÅyÖè;øÆ COM2»T



# İŞB ÅŠÒà

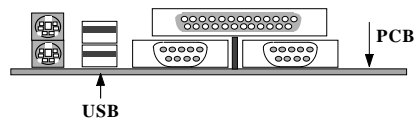
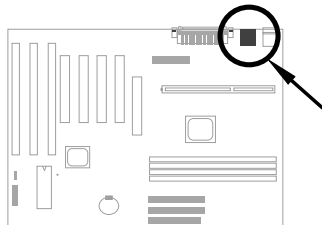
## 2.3.7 À]Ä Ø

¿UØ Ä`Äü% ÇÈÄ`%hÄÍ%QÇiÖë¿öÆE PRINTER ÄÖ 25-pin D-ÄÆÏÜj »R¿eÄiÄŠÏ»ÄÝÁTÀ»Ä] Ä Ø »T



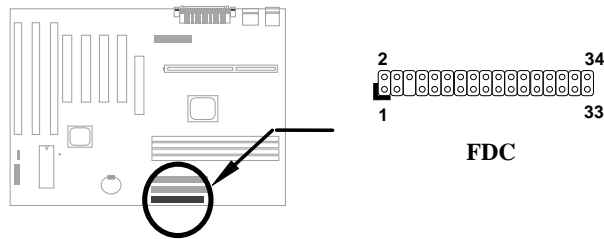
## 2.3.8 USB ÖàÖ~

Ë`¿zË\_ USB ÖàÖ~Í†ËÏÄ USB ËÏÜj »RÍ, Ð ¿UØ Ä`%hÄÍÄüÇi USB ËÏÜj »RÖë¿öÆE USB»T



### 2.3.9 İ€ŒêØ

Às¿UØ Ä`%Aİı%QÇiŒe¿öÆ FDC ÄŒ 34-pin İİÚ¿»R¿z¿eÄıİ†İİÄü¿<İ€ŒêØ »T

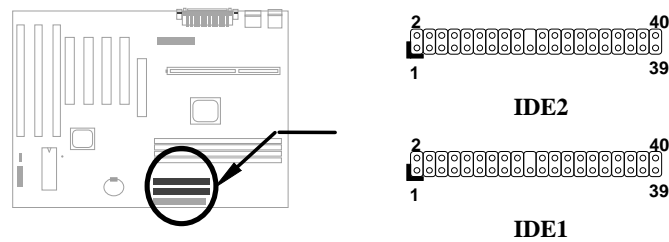


### 2.3.10 IDE İŞŒêØ Őa CDROM

Às¿UØ Ä`%Aİı%QÇiŒe¿öÆ IDE1 Ä^ IDE2 ÄŒ 40-pin ÈaÈŠ»R¿z%ŒÁ İ†İİÄüÇi IDE ŐaŒ~»RİæAy¿zİ†İİ¿“Çi IDE ŐaŒ~»R%ŒÉ IDE1 %dŒŒe¿Uİ„ŒU (primary channel)»R IDE2 %dŒŒeÄŒŒİ„ŒU (secondary channel)»T

İ†İİÄ ¿ %Œİ„ŒUÄŒŒİP%Œ¿<ŒaŒ~¿İĐNİnÆ master mode»WİP%Œ¿<ŒaŒ~¿İĐNİnÆ slave mode»T¿ %ŒÇiŒaŒ~Ä»¿zÆİŠŒêØ Äe¿ ŒêØ »T

×eÈ\_È İP%Œ¿<ŒaŒ~İnÆ master mode ÄYÈİÄ IDE1»RİP%Œ¿<ŒaŒ~İnÆ slave mode ÄaŒaÈİÄ IDE1»TÄfÄXÈ ÄİİP%e¿<%eİP¿“¿<»R×eÄaÄÈİÄÄ IDE2 ÄŒ master %e slave mode»T



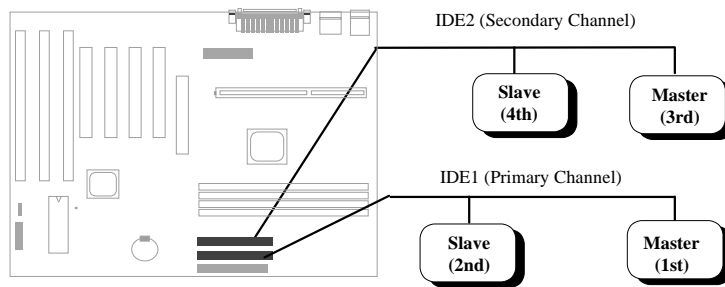


## İŞB ÅŠÒà



×e%ƒ%ü: IDE İhÈ ÅðPİÈà×^İaÄ ¾¼zDhÓ] 46 ¾¼¾  
(18ÇoÅe)»R;YÅ\Ò ÈàĐaÜ ¾¼Ä”»T

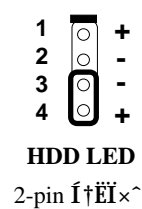
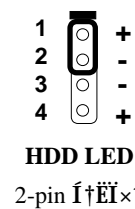
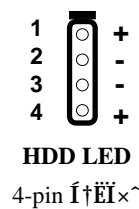
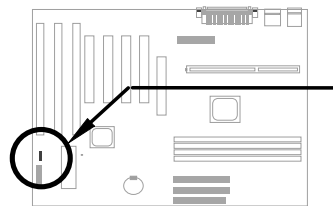
×e%ƒ%ü: ÅÈÓWÄ İaÄèÅÖAYÖÖÁ•× »RÈà×^İaÖNÖ÷ÄÖ  
ÒaÖ-İaÄ€İnÄÄ master mode»RÄYÄaÑi ¾¼FÖèÅðPİÄÖDD  
ÄaÄŠÖaÑ†ÖaÖ~»T



### 2.3.11 İŞÖê LED Å çöÜ`

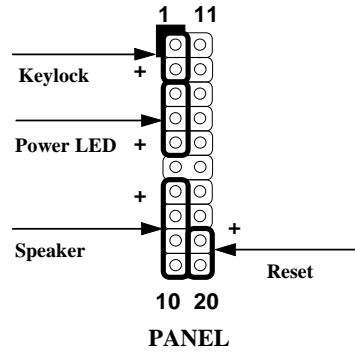
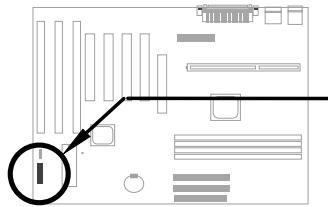
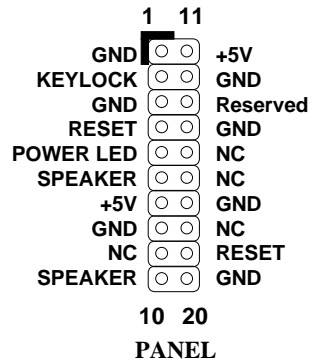
İŞÖê LED Å çöÜ` ÖeçöÄÄ HDD LED»Rİ, Çi ÈaÈŠçz  
ØRçèÄ ÅfÖo¾¼AaÄÖÖ İü»RÄfAXÄi ÅŠÖaÄÖÖ İüAv¾¼ ÇÈ  
Ä`Ä Äİ 4-pin İ†Èİ×^»R×eÄ×Èİİ»¾¼»TÄfAXç`Ä 2-pin  
ÄÖİ†Èİ×^»RçzçYÜ ØöÄŠİ» 1-2 Äè 3-4»RÄ ×eÄqÑ\_Ñç  
Ää»T

Pin	Description
1	HDD LED
2	GND
3	GND
4	HDD LED

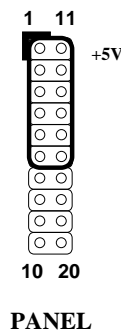


2.3.12 Åv¼ ÇËÀ`ËÏÚj

Åv¼ ÇËÀ`ËÏÚj ÅË 20-pin Èà ÈŞ »R Öè çö ÅÅ  
**PANEL**»TÀÓËà`ËÏÚj çZÍ†ËÏÓ,,Ñ× (power) LED  
 Å çöÛ»RÜp×]Û (keylock)»RÇÄÑ†D”Ø (reset) Å  
 D†»RÏüç’ (speaker) Íç»TË’ çZçYÅæç|ÓéÅiÅŞÖà»T  
 ÅÍÅáØ ÍùÆ Åéçè 5-pin Í†ËÏ×`ÅiÍ†ËÏÜp×]Û Öa  
 Ó,,Ñ× LED Å çöÛ»RnÆËÍ, ÅüIiÈaÈŞÆ ÅöØWÅÓ»R  
 Åi çYÅéçè¼n¼Ñ“ÅÍË÷ÝU»T



ÅfÅXØ ÍùÅvÇËÀ` ç`Ä 12-pin1ÅÖÍ†ËÏ  
 ×`»RË’ çZçYÅæç|ÓéÅÓ¼ Å»ÅiÅŞÖà»R×é×e  
 ÅŞÍ†ËÏ×`ÅÖÆ ×`Æ Í†ËÏÅ 1+5V1ÅÖÅ  
 Ö-»T



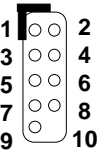
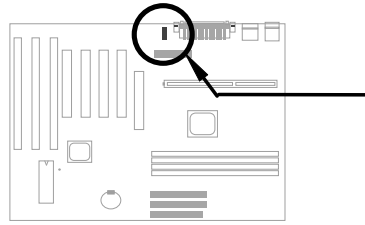
# İŞB ÅŞ0a

## 2.3.13 Å ç•x^ĐáÙ Ê (IrDA)

çÖçUØ Ä`ÄÖİb%KÄ ÅTÊ (serial port 2) çz%đİÄ IrDA Å ç•x^Öiİi»TÄi Üñ IrDA (Infrared Data Association) Ç çÖÆ çë HP»SCompaq»SİBM İçÛfÄi ÄÄçüÄÖ%QÇi İiÜİ»RçëAi ÈÜÖ†ÖSçëE ç•x^Đáx^ò ÈaÄÖÄöİ\_ÖaÜİçè»TÄüÄi İEP ÄİÖ†Ei çI%Ä »R IrDA Ä`İ%ÄSÄeÄÄE ç•x^ĐáÙ ÄÖÖeÑa»Tç^Ç€È' ÄÖÖ,,Ö%ÄyİaE ç•x^ĐáÙ çnÉú»RçS İBÄi IrDA İnÄS»Rİ\_ÉúÈ Äs%QÄŞĐkÜ %Ö»R%Ö÷Ç€İ†Eİx^%Æİ†Eİ»RÄj çzÄöÈaÖa İÄÈ`ÄĐ,,Ö%ÄeÇi %WÖaÄ Äfİ' (PDA) Åö%Æİ†x^»SDaÖÖÜaÈnÖ ÈaÄeÈ\_%çç ÊvÄ %đ İÄ IrDA ÄÖÄJÄ Ø ÄTÄj»TçÖçUØ Ä`çz%đİÄ HPSİR (115Kbps, 1 meter)»SASK-IR (56Kbps) Öa Fast IR (4Mbps, 2 meters) İçİhÈ »T

ÅŞ0aÈa»R»eÈ IrDA Å ç•x^ÖiİiÄŞİ»Ä çUØ Ä`%hÖeÄİ IrDA ÄÖÈaÈS»TÄŞ0a%ÄÄ»RÈ' Üóçİ Ö÷Đ"Èi İSZ d1dv†^f%ÖÄÖE ç•x^çnÉú»R% çz çÛÈq%ÄÁQ»T

Pin	Description
1	+5V
3	FİRRX (FAST IR)
4	CİRRX
5	İRRX (STANDARD IR)
6	5VSB
7	GND
9	İRTX (STANDARD IR)

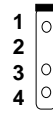
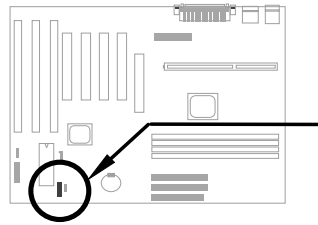


IrDA

## 2.3.14 Modem Wake-up Ėİ Új

çÖçUŞ Ä`%hÄyÄÍÉdÈ ×^ò Ínçf»Rçz%pİÄÖa060 00ĖĖD"0  
 (Modem Ring-On) çnĖú»R%ÖĖİÄ» (AOpen MP56) Äèç•Ėİ  
 À»Öa060 Á»çz0Rçè»TçèÄ Äèçè%ÖĖİÄ»Öa060çuÄ00ö»RçÇĖä  
 %Ä0=ĖİĐ`0„Ñ»RÄi çYÄ0Çæ% 0 ÄoPİĖ' Äèçè»TÇjĖ' ĖPçèÄ0  
 Æ AOpen MP56»RÄy×èÄèçè 4-pin Í†Ėİ×`»Rİ†Ėİ MP56 Ä0  
**RING Ėİ Új ÖaçUŞ Ä`%hÄ0 WKUP Ėİ Új »T**

Pin	Description
1	+5V SB
2	NC
3	RING
4	GND

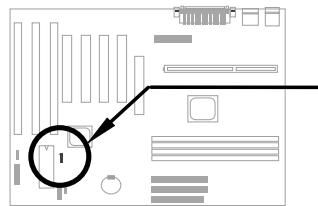


MODEM-WKUP

## 2.3.15 LAN Wake-up Ėİ Új

çÖçUŞ Ä`ÄyÄÍ LAN-WKUP Ėİ Új »R ÇĖÄèçè LAN Wake-up  
 çnĖú»RçİDNÑwĖİ†%pİÄÄ0çnĖúÄ00 0 çu0a0 0öİĖB »T

Pin	Description
1	+5V SB
2	GND
3	LID



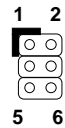
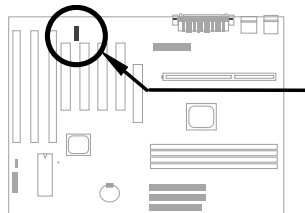
LAN-WKUP

# İŞB ÅŠ0à

## 2.3.16 SB-LINK

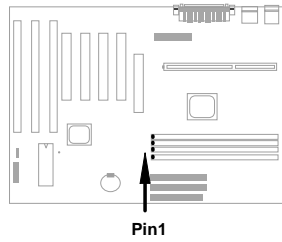
**SB-LINK** çzçèÁíÍ†ËÏ Creative ÅÈvÄÖ PCI ÇËËç«T ÇjË' ÅŠ0à%ÄÄ, ÔoÇËËç«RÎ\_çÏÄÑÁéçèÁ Í, ÇiËËËj »RçY Å\Ås DOS Ú Ôi%çËËË ÅÈv»T

Pin	Description
1	GNT#
2	GND
3	NC
4	REQ#
5	GND
6	SIRQ#



**SB-LINK**

## 2.4 ÅŠ0à;UE`0eB



İ, D çU0 Å`ÁÍ 4 È DIMM (Dual-in-line Memory Module) İ»0ë»RçzçY³pİÄ SDRAM (Synchronous DRAM) ç Registered SDRAM»R İaÄÈvD,,çz0W Å 1GB. Å çÄqÑ\_»RSDRAM Å^ Registered SDRAM Æ çÉúİgİ»Ä0»RÈ' ç`ÉúÅŠ0aAaçQ0ö DRAM»T



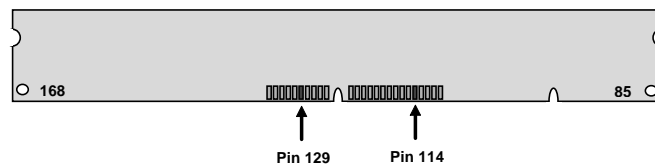
çeçfçai: ç0çU0 Å`ÄYç³pİÄ EDO DRAM»T

DIMM 0iİiçzçëçYçfi0oç Å»Èeçİ»X

- I. çççç: İ ÇÈÆ 1Mx64 (8MB)»S2Mx64 (16MB)»S4Mx64 (32MB)»S8Mx64 (64MB)»S16Mx64 (128MB)»WİÜ ÇÈÆ 1Mx64x2 (16MB)»S2Mx64x2 (32MB)»S4Mx64x2 (64MB)»S8Mx64x2 (128MB)»T



İçö: ÄÍÇiç Ä|çzçYÜaÆÈ' Ä0 DIMM Æ İ ÇÈÜ6Æ Ü ÇÈ -- ÆÆ-DIMM çÄÇÈÄ0 pin 114 0a pin 129»RÄfÄXÄÍ È±0-0,,0 »RÍ, È DIMM çZÉúI\_Æ Ü ÇÈÄ0»WÄpÄyI\_Æ İ ÇÈÄ0»TçÈÈÑiçÇÈÄ00è0è»T



çÄqÑ\_: ÇÈÖWÄ 1GB Ä0È`0eB ÈvD,,»RÍ\_çİDÑÜ çè 64M bit Ä0 Registered SDRAM»T

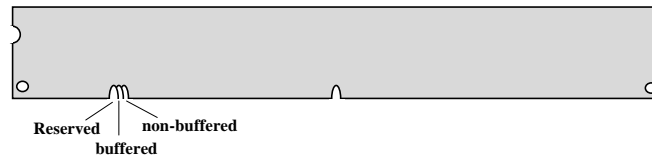
## İŞB ÅŞ0à

II. İtÅn: %QÉ Æ ÖèçöÀf -12 İ, ÖòÅÅ»»RÍ, Å çòÀ†Å İ†Ån (clock cycle time) Æ 12n»Rİ çYÅÓ SDRAM İæ%ÅÖ clock Æ 83MHz»TÜóÀİ ç†%QÖòÖèçöÆ ÀfÅa -67 İ, ÖòÅÅ»»RÀ çòÅaÅSÒ ÈàDàÜ İæàðçZÅ 67MHz»T



×è%ç%â: ÅĴ Åá -10 ÅÖ SDRAM çZÉúÅs 100 MHz CPU ç•Üh%çÜóçZçYÓSAQ»RA Æ Æ%WÇÅSÅãİöÑb»R ÅóÇæÜó Æ ÅóDÍ È' Ü çèİBÀi PC 100 İhÈ ÅÖ SDRAM»T

III. Buffered 0a non-buffered: çÖçU0 Å`%pİÅ non-buffered DIMM»TÈ' çZçYÅa06 DIMM %hÇÈÈæ%ÅÖÅ 0~»RÅíÅaÅ` non-buffered DIMM 0a buffered DIMM»T×èÈè Ñí%çÖéÅi çö»X



çèÅ Èæ%wÅÖÅ 0~%Åa»Rç`Åí non-buffered DIMM çZçYİ»%ççU0 Å`%hÅÖ DIMM İ»Öè»TÜ İ^çòÅvçÅÇÈ%hÆ-Å ÅÖ DIMM İ½SòxÆ non-buffered ÅÖ%W»RÅóÇæ%ÅÅö DÍÈ' ÀsÜ ÜàÈaİæÆÜóÆ 0 ÅÈÈòÜè-İ^Ñ»»T

IV. 2-clock 0a 4-clock signals: Ü İ^ 2-clock Å^ 4-clock ÅÖ DIMM İ½çZçYçèÀsÍ, D çU0 Å`%h»RÀ Æ%WÇÅSÅãİöÑb»RÅóÇæ%ÅÅöDÍÈ' İæÆÈéçè 4-clock ÅÖ SDRAM»T



İ½çö: ÇÈÜaBiÈ' ÅÖ SDRAM Æ 2-clock ÜóÆ 4-clock ÅÖ»RçZçYÆ-Æ= pin 79 0a pin 163»RÀfÅXÅİÈ†0-0, 0 İ\_ Üí0iÆ 4-clock»WÁpÁYÅ\Æ 2-clock ÅÖ»T

V. ÅaÅ %0: %pİÅÖèÑaÅÖ 64 bit wide (İ] parity) 0a 72 bit wide (ÅÍ parity) ÅÖ DIMM»T

BIOS çZÀòÈaÈÖİ È`0èB ÅÖÈvD, %èÅÅ»»R%çç-Åéçè Jumper İnÅS»Tİæ%ÅÖÈ`0èB Èv D,,Æ 1GB»T

Total Memory Size = Size of DIMM1 + Size of DIMM2 + Size of DIMM3 + Size of DIMM4

## İŞB ÅŠÒà

¿Y%ŒÅT¿i ÅopÍÅé¿èÄÖ DRAM İiÀi»X

DIMM Data chip	ÅTÇË bit Öà¿ò	Í Ü ÇË	Chip Öà ¿ò	DIMM %Œ %Œ	Æ ÅpÅòÞÍ
1M by 16	1Mx64	x1	4	8MB	Yes
1M by 16	1Mx64	x2	8	16MB	Yes
2M by 8	2Mx64	x1	8	16MB	Yes
2M by 8	2Mx64	x2	16	32MB	Yes

DIMM Data chip	ÅTÇË bit Öà ¿ò	Í Ü ÇË	Chip Öà ¿ò	DIMM %Œ %Œ	Æ ÅpÅòÞÍ
2M by 32	2Mx64	x1	2	16MB	Yes, but not tested.
2M by 32	2Mx64	x2	4	32MB	Yes, but not tested.
4M by 16	4Mx64	x1	4	32MB	Yes, but not tested.
4M by 16	4Mx64	x2	8	64MB	Yes, but not tested.
8M by 8	8Mx64	x1	8	64MB	Yes, but not tested.
8M by 8	8Mx64	x2	16	128MB	Yes, but not tested.

¿Y%ŒÅT¿i %ŒÅopÍÅé¿èÄÖ DRAM İiÀi»X

DIMM Data chip	ÅTÇË bit Öà ¿ò	Í Ü ÇË	Chip Öà ¿ò	DIMM %Œ %Œ	Æ ÅpÅòÞÍ
4M by 4	4Mx64	x1	16	32MB	No
4M by 4	4Mx64	x2	32	64MB	No
16M by 4	16Mx64	x1	16	128MB	No



## İŞB ÅŠ0à

Ås 100MHz ÅèçY%hÄ0ç•Úh%ç»RÇÈÈ, Å ò Å€Ä0ÈÈÈÚ0aYÇÅŠÅ»RÄoÇaÄoDÍÈ' ÍaÀÈÙ çè  
PC 100 SDRAM»RçY%ÈÈ çòÅv AOpen Í òi0]Ä0 PC 100 SDRAM»T

¼¼f	Ö±Èí	ÅÄ0	Í Û ÇÈ	Chip Öaò
16M	Micron	MT48LC2M8A1-08	x1	8
16M	TI	TMX626812BDGE-10A	x1	8
16M	Hyundai	HY57V168010CTC-10	x1	8
32M	Micron	MT48LC2M8A1-08	x2	16
32M	Hyndai	HY57V168010CTC-10	x1	16
32M	NEC	D4516821AG5-A10-7JF	x1	16
32M	SEC	KM48S2020CT-GH	x1	16
128M	Simens	HYS72V16220GU	x2	18

çÖçU0 Ä`È çY parity check ¼ Å»ÈÖÍ È`0èB Û 0»TE' çÌDÑÁéçè 72 bit DIMM (64 bit  
data + 8 bit parity) Åí¼ÍÄ parity check»RBIOS çzÄöÈaÈÖÄ0 72 bit parity DIMM»R  
¼Ä0-İŞB ÍnÄŠ»T

# ÎP¾eÍÓ Award BIOS

¿ÓÍÓË\_Ö»Ã ÀfÀ ÍnÃSÃ†ÌèËèÖa»RE‘ ¿z¿YÃé¿è AOFIash Í, Çi¼¿ÃýÍ’ À»ÃíÁ Ñ†¿UØ Ã`  
ÃÖ BIOS»T

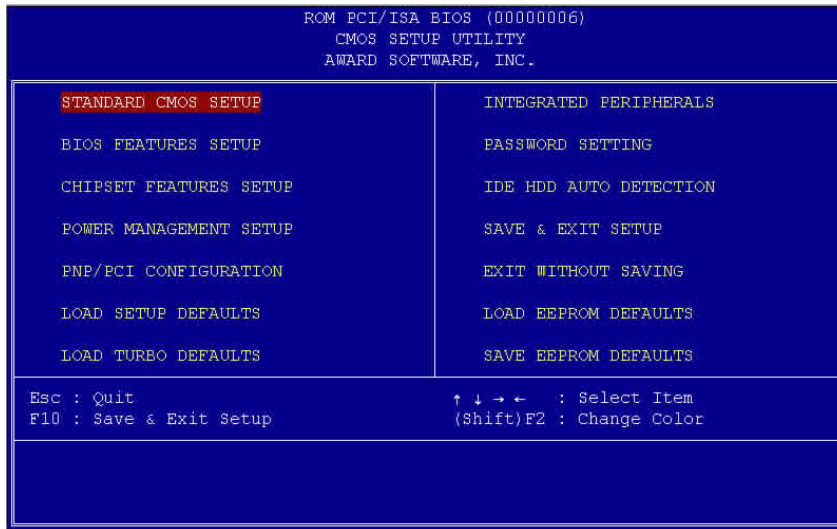


ÇÁÇ€: ÀnÆÊ BIOS codeÑ“ÚYÍöÃ†ÌèÍ€ÍŠB ÆÖÍnÇfÇnÃ  
ÃíÁ Đz»RÃì ¿Y¿i ÍwËäÃÖ BIOS ÃÃ¿Ö¿zÉúÑ“Öa¿ÓÍÓ%ĐÌè  
ÃÖ%ÔËv (ÉdÁ`Æ Chipset SetupËèÖa) ÀÍÃaË†ÌÁ»T

# AWARD BIOS

## 3.1 Ɖz¼ BIOS Setup ŸUÙ Í

BIOS Setup Ɖz¼ Flash ROM 128 byte CMOS RAM BIOS Setup Ɖz¼ POST (ÁóÁóÍ 0i) Ɖz¼ DEL Á Úp»RÁ\ŸzDz¼ AWARD BIOS Setup Ɖz¼UÙ Í »T



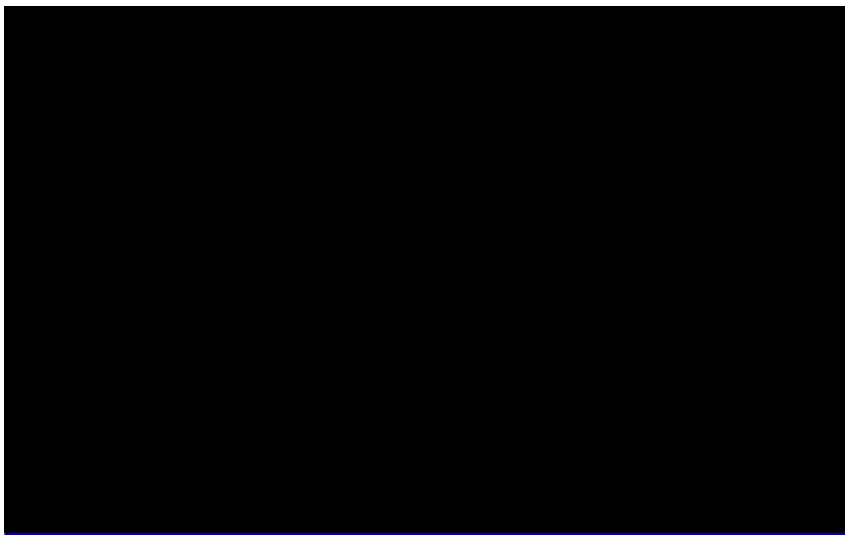
Í½öKIÙ 0ö "Load Setup Defaults" Ÿz0 ¼Á†İe0Š Ÿ ÍnÁSÁ0Eë0aÇa»WÁiÙ 0ö "Load Turbo Defaults" Áy,zÁe;e0 ÁðÁ0Eë0aÇa»RÁ ŸİĐÑE 0 ÙÍÍ Á0Á†İe İiÁi»T

AsİvÇE¼¼ ÁÍ¼QÁ Ÿ`À »RÁzDUË`ÀfÀ È\_ÁXŸ Èeİ0Á Ù Đİ¼h»RÁfÀ Á Á ÍnÁS»RŸY¼e ÁfÀ È,,¼QÇiİvÇEİ0Á Ÿ†¼QÇiİvÇE»TAb;è¼ ÁgÚp»RzÈ\_ÁXŸ Èeİ0Á È ÇnÁ Á0Ù Đİ¼h»W [SHIFT] [F2] ŸzÁ BøÜYÓ Á0BŸŸöÁuË»V [ ] ŸzÜ Đ"ÍnÁSİvÇE»V[F10] ŸzAsÜ Đ"ÁvÁ†Úa»T Í¼¼ÇE¼¼QÁ Ɖ Ó ÁiÙ Á ĐÍŸðÁ0Ùİ¼¼»T

Ù Á ¼QÇiĐİŸðÁu»RŸzŸYÁ ¼ [ ] ÁiÙ Á ÁeDz¼¼¼¼QöyÙ Í »T

### 3.2 Standard CMOS Setup

Ù Øö "Standard CMOS Setup" ÍnÁŠİvÇË»RçzçYÙ ØöÁİİeÄÖË çÖÍnÁŠ»RÀfÙ %f%  
ÎÛ»SËEäD»%eÖeÖeØ ÁÆÖRÄÖÍnÁŠÇa»TÁeçèÄæzÁbçè% ÀgÛpË\_çççiËeÏØÄ È ÇnÁ ÄÖÙ  
Đİ%h»RÄRÄeçè [ ] Äe [ ] Á ÛpÍnÁŠÙ ĐİÄÖËeÖaÇa»T



#### Standard CMOS à Date

ÀfÄXË' ÑbÇ€ÍnÁŠ% ÎÛ»RçzçYÁbçè% ÀgÛpË\_çççiËeÏØÄ Date ÈeÖaÍs»RÄRÄ %f [ ]  
Äe [ ] ÍnÁŠçòAvÄÖ% ÎÛ»T% ÎÛÄÖËeÖaË À»ÆË% »S% Á^À»T

#### Standard CMOS à Time

ÀfÄXË' ÑbÇ€ÍnÁŠËEäD»RçzçYÁbçè% ÀgÛpË\_çççiËeÏØÄ TIME ÈeÖaÍs»RÄRÄ %f [ ]  
Äe [PGDN] ÍnÁŠçòAvÄÖËEäD»TEäD»ÄÖËeÖaË À»ÆË»S%ÜÁ^E »R/E çY 24 %fËa% Á»Ä  
çò»T%QçÖÍnÁŠÄ€EäD»Á^% ÎÛ»RÄTÄÖÇÄÑ+D"Ø Á\%Ä÷ÄRÇÄÑ+ÍnÁŠ»T

# AWARD BIOS

Standard CMOS à Primary Master à Type  
 Standard CMOS à Primary Slave à Type  
 Standard CMOS à Secondary Master à Type  
 Standard CMOS à Secondary Slave à Type

<b>Type</b>	ÀÓÙ ðĭ çz ĪnĀŠĀ†ĪēĀi ¼pĪĀĀŌ IDE ĪŠŌēĒēŌà»RĀi ĀfĒvĐ.,
Auto	(Size)»SŌēĀhŌà(Cylinder)»SŌēŪj Ūà(Head)»SŌŠŌāŪ% (pre-
User	compensation) ĀŌĒpĀ} Cylinder Çā»SŌēŪj ç ĒĀĒé (Landing
None	Zone) ĀŌ Cylinder Çā»SŌēĒĒŌà (Sector) Īç»TN Ē' Ē' ĒēŌàÇā
1	ĪnĒĒ Auto Ēā»RBIOS N"ĀsĀ†ĪēĒ Ā Đ"Ō ĀŏĀŏĪ Ōi (POST)
2	Ēā»RĀŏĒāĒŌĪ ĪŠŌi ŌēŌēŌ ĀŌ Type»RĀŸĀs Standard BIOS
...	Setup ¼¼ByççiĀi»TCjĒŌĪ ¼¼Ā ĪŠŌēĀŌ Type ĀēNbĀŏĀ ĪnĀŠ
45	ĒēŌàÇā»R×ēĪnĒĒ User»TĀfĀXĀ†ĪēĀŸçŌĒ†ĪāĪŠĀ»ŌēŌēŌ »R×ē
	Ē_ Type ĪnĒĒ None»T
	IDE CDROM Ī¼ĒĒ ĀŏĒāĒŌĪ ĀŌ»T



Ī¼çç: Ē' çz Āb çè çU Īv ÇĒĀŌ "IDE HDD Auto  
 Detection" Ū ðĪĀiĀŏĒāĒŌĪ ĀiĀŠŌāĀŌ IDE ĪŠŌēĪh  
 Ē »T

Standard CMOS à Primary Master à Mode  
 Standard CMOS à Primary Slave à Mode  
 Standard CMOS à Secondary Master à Mode  
 Standard CMOS à Secondary Slave à Mode

<b>Mode</b>	Āéçè Logical Block Address (LBA) ŌiĀ»ĐāĒvŌ Ēāçz¼pĪĀĐh
Auto	Ōj 528MB ĀŌĪŠŌē»TçŏĀvçĀĪ ¼¼ĀŌ IDE ĪŠŌē¼¼ĀŸĀŸĪĀ LBA
Normal	ĐāĒvŌiĀ»»RĀpŪ<Ā†ĒvĐ.,Ā»ĐhŌj 528MB»TĀfĀXĀéçèĀŌĪŠŌē¼¼
LBA	ĪbĒ Ā»¼¼ĒĒ LBA On»RĪ_¼¼Ēççè LBA Off ĀŌ¼¼ Ā»ĀiĒiĒā»T
Large	

# AWARD BIOS

## Standard CMOS à Drive A Standard CMOS à Drive B

<b>Drive A</b>
None
360KB 5.25"
1.2MB 5.25"
720KB 3.5"
1.44MB 3.5"
2.88MB 3.5"

Í, Çí Û ÐĬ çz çè Āi Û Øö Ī € Ò è Ā Ō Ÿ Ā Æ R × è Ī Ø È à % Ā ġ Ū Þ Ā ö Drive A Ā è  
Drive B Ī S » R Ā [ ] Ā è [ ] Û Ø ö Ā Ī € Ā » Ø è Ø Æ Ī B Ā Ō È è ō Ā ĵ  
çz » R Ā Þ Ī n Ā Š Ç Ā Ā f ç Ā » T

## Standard CMOS à Video

<b>Video</b>
EGA/VGA
CGA40
CGA80
Mono

Ā Ō Û ÐĬ çz Ī n Ā Š Ā Ī Ā è ç è Ā Ō B ý ç ö ç u Ā Æ Ō R » R È è Ō à Ō Š Ī n Ç Ā Æ  
VGA/EGA » T ç è Ā ç ð Ā v Ā Ō Ç Ī % Ÿ Ō , Ø Ā Æ Ē Ā Ā Ō Ī h È Æ VGA » R Ā Ī  
ç Y Ī , Ç í Û ÐĬ Ī Ī ç X Ā d Ā Ī % È Ō ç è Ī S » T

## Standard CMOS à Halt On

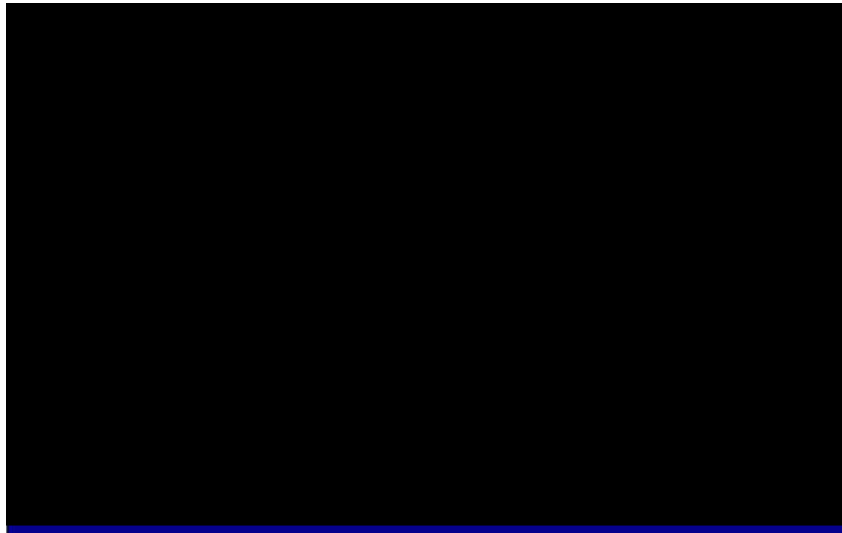
<b>Halt On</b>
No Errors
All Errors
All, But Keyboard
All, But Diskette
All, But Disk/Key

Ā Ō Û ÐĬ çz È È Ā Ā ÷ Ī è È Ā Ā ö Ā ö Ī Ø Ī (POST) È Ā » R Ā f È Ō Ī Ā Û Ō •  
Æ Ā Þ Ç È È % Ō S Ā Q » T È è Ō à Ō Š Ī n Ç Ā Æ Ā All Errors » R Ā ç ö Ā ÷ Ī è ç Ç È È Ō  
Ī Ā Û Ō • Ā Æ Ā f » R Ā ĵ Ñ " È È % Ō S Ā Q » T

# AWARD BIOS

## 3.3 BIOS Features Setup

ÀfÄXÄs¿UÙ Í %4Ù 0ö "BIOS Features Setup" ÐÍ¿ò»RÁjÑ"ÄsÜÝÓ %hBý¿òÀf%4ÍvÇË»X



### BIOS Features à Virus Warning

<b>Virus Warning</b>	ÀOÙ ÐÍ¿z¿nÄŠÓ,,0%ÉwÆ.Ä0Ä%¿mÉú»RÄ`BQÍŠÖeÄÖÐ"Ø ÊeÆ, (Boot Sector) %¿%ÄÍeÄ (Partition Table) %4Ä ÉwÆ.ÄZEq»TÄfË_ÊeÖa¿nÆ
Enabled	Enable»RÄ ¿öÓ,,0%ÄsÐ"Ø Ó¿Í' %3»RÄfÄÍÒ ÈaÖx%4ÍŠÖeÐ"Ø ÊeÆ,»R
Disabled	Ä†¿eÄjÑ"ÊË% ÓSÁQ»RÄÝÑ"ÄsÜÝÓ %h¿i¿ ¿Y%4ÄÖÐÍÄZeÖÖ»TÄÓËä»R
	xê¿eË»Æ.¿' Ä»Äp¿iÊ¿YUÄiÄs»T

**! WARNING !**  
Disk Boot Sector is to be modified  
Type "Y" to accept write, or "N" to abort write  
Award Software, Inc.

# AWARD BIOS

## BIOS Features à External Cache

<b>External Cache</b>	ÀÓÙ ÆÏçzÍnÁŠÀ†ÈèÀéçèÏP%KDçÁðÀ È`Øèß (çðÁvÆPBRAM
Enabled	ÁðÀ È`Øèß )»RçYçlÁðÓ,,ð%ÁÔÈ À ÈPÌ%TÀ È ÍnÁŠÑ"Í ÔTÁ†Èè
Disabled	ÀÔÍ†Án»RÁiçYÁoPÍÈ' È_ÈèÖàÍnÆ Enable»RÈ'ÁUÁ†ÈèÍ, çç%4XÇ

## BIOS Features à CPU L2 Cache ECC Checking

<b>CPU L2 Cache ECC Checking</b>	Í, ÇíÐÏçðçzß È' ÍnÁŠÆ ÁpÈi çè L2 Cache ECC Checking»T
Enabled	
Disabled	

## BIOS Features à Quick Power On Self Test

<b>Quick Power on Self test</b>	ÀÓÐÏçðçzÍnÁŠÀ†Èèð Ó]Æj ÁáÍ Òi ÐÏçð»RçYçl ÁðÀóÁóÍ Òi (POST) ÀÔÍ' Áá»TÈèÖaÓŠÍnÇaÆ Enable»T
Enable	
Disabled	

## BIOS Features à Boot Sequence

<b>Boot Sequence</b>	ÀÓÙ ÆÏçzÁ ÁŠÀ†ÈèD"Ø ÈäÄÖNçÍ^ÐÐÁá»TÍŠÔèÄÖYèÁ`xi (ID) Àj %fÁi çö»X
A,C,SCSI	C: Primary master
C,A,SCSI	D: Primary slave
C,CDROM,A	E: Secondary master
CDROM,C,A	F: Secondary slave
D,A,SCSI	LS: LS120
E,A,SCSI	Zip: IOMEGA ZIP Drive
F,A,SCSI	
SCSI,A,C	
SCSI,C,A	
C only	
LS/ZIP,C	

## BIOS Features à Swap Floppy Drive

<b>Swap Floppy Drive</b>	ÀÓÙ ÆÏçzçY%ÔTÁÍÈÀ»ÔèÔèØ ÀÓÀ Ò-»TÁi Àf»RÇj ÁÍÁüç<ÍÈÀ»Ôé ÔèØ (A»RB) »RÈ' çzçYÁ ÁŠÍP%Qç<ÆÈÔèÔèØ B»RÌP%Xç<ÆÈÔé ÔèØ A»T
Enabled	
Disabled	



# AWARD BIOS

## BIOS Features à Boot Up NumLock Status

<u><b>Boot Up NumLock Status</b></u>	ÀÓÙ ÐĬ ĵĵ ĬnĀŠŪp×]¼hĀ00āĀ...Ūpĵĵ ĀéĵēŌi Ā»»TĒ ĒēŌāÇāĬnĀĒ
On	Ōr»RĀ ĵŌĵzB ŌāĀ...Ūpĵĵ ĬSĀ ŌāĀ...Ū ¼ĀĀŌB»VĀfĀXĬnĀĒŌf»RĀý
Off	ĀsÐ"Ō ĀūÐāĒúĀéĵĵēĬŷŌēĒĒ ĵnĒú»TĒēŌāŌSĬnÇāĀĒŌn»T

## BIOS Features à Boot Up System Speed

<u><b>Boot Up System Speed</b></u>	Ē' ĵĵYŪ ŌōĀĬĬēĀŌĒ Ā ĬĬĀñĀĒ High Āē Low»TĒēŌāŌSĬnÇā
High	ĀĒ High»T
Low	

## BIOS Features à Typematic Rate Setting

<u><b>Typematic Rate Setting</b></u>	ÀÓÙ ÐĬ ĵĵ ĬnĀŠĀēĀ Ē Ūp×]Ōi ŪŪÇĀ×āŌgŪŌĀŌĵnĒú»TĒ ĀŌĒēŌā
Enabled	ĬnĀĒ Enabled»RĀĬĬēĀĵ ĵĵĒĬĀ Ūp×]Ōi ŪŪĬbÇĀ×āŌgŪŌĀŌĒā
Disabled	ĀŌ»T

## BIOS Features à Typematic Rate (Chars/Sec)

<u><b>Typematic Rate</b></u>	ÀÓÙ ÐĬ ĵĵ ĬnĀŠÇĀ×āŌgŪŌŪp×]ĀŌĬĬĀñ»RĒēŌāÇāĀĒ 6»S8»S10»S
6	12»S15»S20»S24»S30 Ĭĵ»TĀĬĬēŌSĬnÇāĀĒĀTĒ 30 ÇiĀ...Ō»T
8	
10	
12	
15	
20	
24	
30	

## BIOS Features à Typematic Delay (Msec)

<u><b>Typematic Delay</b></u>	ÀÓÙ ÐĬ ĵĵēĀĬĒĒ Ĭ Ūp×]ĬbÇĀ×āŌgŪŌĒ»RĀ...ŌBýĵŌĀSŪYŌ
250	¼ĀŌĒĒ»ĒĬ»RĀĬ 250»R250»R500»R750 Ā^ 1000 ms»TŌŠ
500	ĬnÇāĀĒ 250 ms »T
750	
1000	

# AWARD BIOS

## BIOS Features à Security Option

<b>Security Option</b>	ÀÓĐİ ç ò ç İ n Ā Š Ā ÷ Ì È Ē \ × i » R Ũ ñ Ā \ ç ] % \ ç ÷ Ö ÷ x È Û B % ‰ S Ā i Ø i Ā ò Ā é ç è È ' Ā Ó Ó , ò % » T
Setup	À f Ā X Ī n Ā Ē System » R Ā ç ò Ā T Ā Ò Ç Ā Ñ ÷ È i È Ā Ā ÷ Ì è È Ā » R Ī ' Ā " Ç Ē Ā Ū
System	% \ ç \ × i » T ç ÷ ç • » R D z % \ [ BIOS Setup Ī ' Ā » È Ā » R % ñ Ñ " Ç Ē Ā Ū % \ ç \ × i » T
	À f Ā X Ī n Ā Ē Setup » R D ñ " Ā s D z % \ [ BIOS Setup Ī ' Ā » È Ā » R Ç Ē Ā Ū
	% \ ç \ ç \ × i » T Ā f Ç Ē Ā È È \ × i ç m Ē ū » R × è Ū Ø ò ç Ū Ū Ī Ā Ò " Password Setting " Đ Ī ç ò » R % Ç Ē Ū % \ ç Ā Ò È Ā » R Ā % \ <Enter> Ū p Ā j ç z » T

## BIOS Features à PCI/VGA Palette Snoop

<b>PCI/VGA Palette Snoop</b>	À Ó Ū Đ Ī ç z Ç Ē Ā Ū PCI VGA ç u Ā Ò × i Ā ū × ] (Palette Snooping) Ī b
Enabled	Ā ÷ Ā È Ā Ā Ā Ā Š Ū c » R % Ā o Ū Ī ç Ā Ā Y Ò Ó ç Y Ū ñ Ā \ Ā × P » T Ā f Ā X È ' Ā s
Disabled	PCI Ū i ç c Ò è % h Ā Š Ī » Ā ū % Ā a Ò Ā × i Ā ū × ] Ā Ā " Ā Ó Ū i ç ç Ū ( Ā i Ā f » X MPEG ç u Ā è Ò % ō Ī È Ñ È Ō ç u ) » R ç z È Ū Đ Ī Ī n Ā Ē Enabled » R Ó Š Ā Ø Ū i ç ç Ū Ā × P » T

## BIOS Features à OS Select for DRAM > 64MB

<b>OS Select for DRAM &gt; 64MB</b>	À f Ā X È ' Ā é ç è OS/2 Ā Q Ñ • Ā ÷ Ì è » R Ā Y ç S È Ø è B È v Đ , Đ h Ó ]
OS/2	64MB » R ç z È È è Ō à Ç Ā Ī n Ā Ē OS/2 » R Ā p Ā y × è Ū Non-OS/2 » T
Non-OS/2	

## BIOS Features à Video BIOS Shadow

<b>Video BIOS Shadow</b>	Ā i Ū ñ VGA BIOS Shadow Ē È B y ç ö ç u Ā Ō BIOS Ò È Ā × ã Ò ÷
Enabled	Ā s DRAM È Ø è B % \ ç z ç Ī Ā ð Ā ÷ Ì è Ā Ō È Ā È p Ī % Ā n Ā Ē DRAM
Disabled	Ā Ō Ā ÷ Ā Ī ÷ Ā ñ % ROM Ū ó Ā ð » T È è Ō Ā Ī n Ā Š Ç Ā Ē Enabled » T

# AWARD BIOS

- BIOS Features à C800-CBFF Shadow
- BIOS Features à CC00-CFFF Shadow
- BIOS Features à D000-D3FF Shadow
- BIOS Features à D400-D7FF Shadow
- BIOS Features à D800-DBFF Shadow
- BIOS Features à DC00-DFFF Shadow

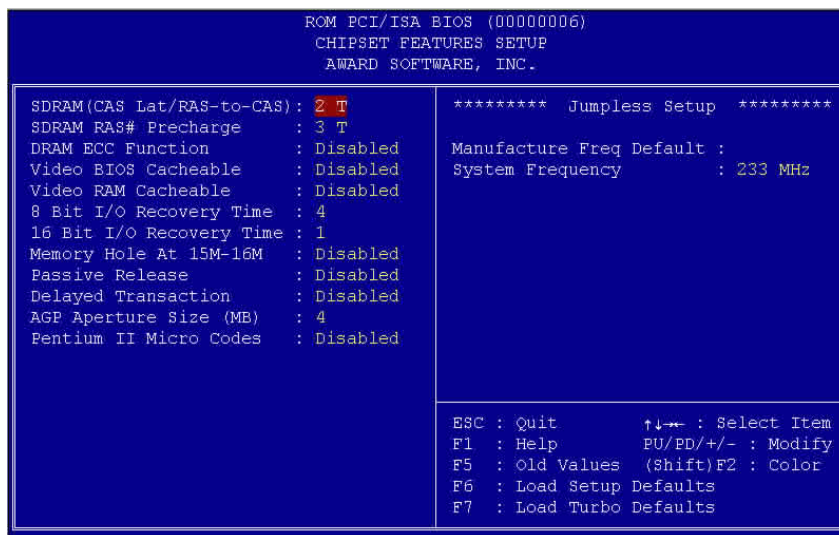
<p><b>C800-CBFF</b>  <b>Shadow</b>          Enabled          Disabled</p>	<p>Í, ÁáÀ Á"Æ Ê`Øeß Á`ÉuİÓÜi çc çuÂéçèÄÖ»TÀfÄXÜ Øö          Enabled»RÁİèÑ"È_Üi çc çuÄÖ ROM Code »àÖ†%Qç Ä çU          Ê`Øeß (DRAM) ÊéÈ %»RÁÓÁóÍ_ÖóÆ Shadow»RçzÓWÄ Ö          ÁðÄÖÍSİ' Í‡Áñ»T ÇjÈ' %Ä^Ñ»Üi çc çu ROM Code ÄÖÄ Á"Ö          Èà»RçzÈ_ÈëÖäÍ¼ÁnÆ Enabled»R¼ Ö ÉúÁ`Ýi Ó Æ^Ä ÄiÄÍÄÖ          ROM Code»RÄ È ð`È`Øeß »T</p>
---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



ÄqÑ\_: F000 Ä^ E000 À Á"Æ È^Ä Ä`ÉuİÓ BIOS  
 Code Ó Æ%Äçè»T

## 3.4 Chipset Features Setup

"Chipset Features Setup"  $\text{Æ}\text{z}\text{U}\text{Ø}$   $\text{Ä}\text{`}\text{Ä}\text{Ö}\text{I}\text{Ó}\text{¼}$   $\text{Ì}\text{ì}\text{Æ}\text{ó}\text{Ý}$   $\text{z}\text{m}\text{É}\text{ú}\text{I}\text{n}\text{Ä}\text{Š}\text{»}\text{R}\text{Í}$ ,  $\text{Ä}\text{á}\text{z}\text{m}\text{É}\text{ú}\text{I}$ ,  $\text{È}\text{q}\text{Ö}\text{a}\text{Ó}$ ,  $\text{ò}\text{½}$   
 $\text{Ä}\text{Ö}\text{È}$   $\text{Ä}$   $\text{È}\text{P}\text{É}\text{ú}\text{Ä}\text{Í}\text{Ý}$  »T



$\text{Ä}\text{q}\text{Ñ}$ :  $\text{Ä}\text{á}$   $\text{B}\text{ö}\text{z}$   $\text{Ä}$   $\text{Í}\text{n}\text{Ä}\text{Š}\text{Ä}\text{v}\text{»}\text{R}\text{×}\text{é}\text{×}\text{e}\text{Ä}\text{Š}\text{È}$   $\text{Æ}$   $\text{Ä}\text{p}\text{Ó}$   $\text{Í}$ ,  $\text{Ä}\text{á}$   
 $\text{Đ}\text{Í}\text{z}$   $\text{ò}\text{Ä}\text{Ö}\text{I}\text{n}\text{Ä}\text{Š}\text{Ä}\text{Ó}\text{z}$   $\text{Ü}\text{R}\text{Ö}\text{è}\text{»}\text{R}\text{Ä}\text{p}\text{Ä}\text{y}\text{¾}\text{Ä}\text{Ö}\text{R}\text{Ñ}$   $\text{Ä}\text{Ö}\text{I}\text{n}\text{Ä}\text{Š}\text{È}\text{¼}\text{Ä}\text{I}\text{Ä}\text{|}$   
 $\text{Í}\text{¼}\text{¾}\text{Ä}\text{I}\text{e}\text{Ä}\text{Ö}\text{È}$   $\text{Ä}$   $\text{Í}\text{¼}\text{Ä}\text{n}\text{»}\text{R}\text{¾}\text{e}\text{Ç}\text{a}\text{Ñ}\text{“}\text{Ö}\text{¾}\text{B}\text{e}\text{Ä}\text{¼}\text{I}\text{e}\text{Ä}\text{Ö}\text{Y}\text{Ç}\text{Ä}\text{Š}\text{Ä}\text{»}\text{T}$

# AWARD BIOS

## Chipset Features à SDRAM(CAS Lat/RAS-to-CAS)

<b>SDRAM(CAS Lat/RAS-to-CAS)</b>
2/2
3/3
Auto

ÀÓÙ ðĭ ĵ ĩ ñ Š SDRAM CAS Latency Ā^ RAS Ó CAS ĀÖĪ ĵ Ā=ĒāĐ»TĪ, Āā ĩ ñ Š Ç ĵ ĵ 0%e SDRAM ĀÖĒ Ā ĀĀĒP»R ÓŠ ĩ ñ ÇāĒĒ Auto»RĀ ĀXĀŠ ōā Āū»RSDRAM Ā Ī ¼/¼ ĒĒ ĀÖĒ» Āē»R×ēĀ ĒĒ 3/3»T



Ī ¼ ĵ KĪ Ç ĵ Ē ĀÓÙ ðĭ ĩ ñ ĒĒ Auto»RĀy BIOS Ē“ ĀōĒāĀā ŪpĒ' Āē ĵ ē ĀÖ SDRAM Ē Āp ¼ Ī Ā SPD»TĀ ĀXĒ»RĪ\_ Āā 00 SDRAM ¼ ĀÖ ōā 00 ĀĪ ĩ ñ Š Ī, Ç ĵ Ū ðĪ»WÇ ĵ ¼ Ē Ē»RĀy Ē“ ĩ ñ ĒĒ 3/3»TĀ ō Ī ĒĒ' ŌāĐ, Ū ĵ ē ¼ Ī Ā SPD ĀÖ SDRAM»RĪ, Ōā Ās ĩ ñ Š ¼ ĒĒ“ ¼ ō ¼ Ā\»T

## Chipset Features à SDRAM RAS# Precharge

<b>SDRAM RAS# Precharge</b>
2T
3T
Auto

ĵ ē ĀĪ ĩ ñ Š SDRAM RAS Ēē ŌŌĀŌ Precharge ĒāĐ» (ĵY clock Ç ĵ Ōā)»TPrecharge ĒĒ RAS BĀŌxĒāĀQĀvĀŌĪāĒēĒ Đ»»RŌŠ ĩ ñ ÇāĒĒ Auto»T

## Chipset Features à DRAM ECC Function

<b>DRAM ECC Function</b>
Auto
Disabled

ĵ ē ĀĪ ĒĒ ĵ ē ĀēĀ Ē Ē DRAM ECC ĵ ĩ Ēū»T

## Chipset Features à Video BIOS Cacheable

<b>Video BIOS Cacheable</b>
Enabled
Disabled

ÀÓÙ ðĭ ĵ ĵ B Ō%ŌĪ BIOS Ā×ĒĪĒ, ĀđĀ Ē` ŌēB ĒĒ Ēā»Rĵ Ī ĺ Ā ĺ Ī ē ĀÖĒ Ā Ī ĺ Ā ĩ»T

# AWARD BIOS

## Chipset Features à Video RAM Cacheable

<b>Video RAM Cacheable</b>	Í, Çi Û ĐĲzçèÀiÁðÂ Video RAM A000 ða B000»T
Enabled	
Disabled	

## Chipset Features à 8 Bit I/O Recovery Time

<b>8 Bit I/O Recovery Time</b>	ÀÍ%QÃað ÜÜÄÖ I/O ÎÓ% »RÀsÈ À ÁÓ%QÇi I/O Ącç`Àû»RÔ-Ç€%QÇi ĪpÇ ÈaĐ»R%ÉúÀRP•P È À %F%QÇi I/O Ącç`»Tçè Ā çðÁvÄÖ CPU Ā^ÎÓ% ĪiĪ%Æ_ I/O ÄÖİSĪ' ĪıĀñçlÁð»RÁé È, Ī, ĀaÜÜÄÄÖ İSA ĪnĪaÖ-Ç€çlÁðĪpÇ ÈaĐ»TAÖÛ ĐĲçzB È' Ā ĀSÑ İSA çuÆ 8-bit Èa»R/I/O Ącç`AoŪĪİÖÄıİèÄiÖ-Ç€ ĄÖĪpÇ ÈaĐ»TĀfĀXÈ' Ī, Ī' ĀiĀSÖaÄÖ 16-bit İSA çuĀİ%ÆEvÄÖÈ»Áè»RçzÖiİöĀİĀ I/O ĪpÇ ÈaĐ»TBIOS ÖSĪnÇaÆ 4 İSA clocks»TĀfĀXÈ_ÈèÖaÇaĪnÆ NA Èa»RİÓ% ĪiÑ"ĀoÈa Û %ç 3.5 ĄÖÄıİèÈaÈu»T
1	
2	
3	
4	
5	
6	
7	
8	
NA	

## Chipset Features à 16 Bit I/O Recovery Time

<b>16 Bit I/O Recovery Time</b>	ÄÖÛ ĐĲçzĪnĀŠ İSA çuÆ 16-bit Èa»R I/O Ącç`AoŪĪİÖÄıİè ÄiÖ-Ç€ĄÖĪpÇ ÈaĐ»TĀfĀXÈ' Ī, Ī' ĀiĀSÖaÄÖ 16-bit İSA çu Āİ%ÆEvÄÖÈ»Áè»RçzÖiİöĀİĀ I/O ĪpÇ ÈaĐ»TBIOS ÖS ĪnÇaÆ 1 İSA clocks»TĀfĀXÈ_ÈèÖaÇaĪnÆ NA Èa»RİÓ% ĪiÑ"ĀoÈa Û %ç 3.5 ĄÖÄıİèÈaÈu»T
1	
2	
3	
4	
NA	

## Chipset Features à Memory Hole At 15M-16M

<b>Memory Hole At 15M-16M</b>	ÄÖÛ ĐĲçzĀ`ÉuĀıÈ`Øèß ÈèÈ İÖĀ ĀSÄÖ İSA çuĀéçè»RçYŪñ Ā`È`Øèß Æð»P»TİÓ% ĪiçzÈ„ĀÓÈÈ ÈĪĀĀ×ÈĪçè İSA bus ĐaÛ ÖĲĪıĀÖÖ ÈaĀ^Øèxi»TĪ„Èq»RĀÓÈÈ Æ Ā`ÉuİÖ I/O çu Ö Æ`Āéçè»T
Enabled	
Disabled	

# AWARD BIOS

## Chipset Features à Passive Release

<b>Passive Release</b>	ÀÒÙ ÐĬçzB È' ÈÈÀ PIIx4 ÎÓ% Ĭi (Intel PCI Ø Èİ ISA) ÄÖ
Enabled	ÍbÈaĐaÖÖçmÉú»TÄÖçmÉúÆ ÍbÄéçeÀsÄ†İeÓ[Ä ISA çUDñÈa
Disabled	ÆÈ ½çÄİÜ »TÄfÄXÈ' ÄÖ ISA çuÄİ%ÆÈvÄÖÈ»Äe»RçzçYÖÜ

## Chipset Features à Delayed Transaction

<b>Delayed Transaction</b>	ÀÒÙ ÐĬçzB È' ÈÈÀ PIIx4 ÎÓ% Ĭi (Intel PCI to ISA
Enabled	bridge) ÄÖÄİÜ ç Ä çmÉú»TçeÄ PCIÄÖÖ ÈaĐaÜ Ñ"¼ ISA
Disabled	bus Äð»RÄfÄXÈ' ÄÖ ISA çuÑ"Äİ%ÆÈvÄÖÈ»Äe»RçzçYİnÄŠ

## Chipset Features à AGP Aperture Size (MB)

<b>AGP Aperture Size (MB)</b>	Í, ÇiĐĬçòçèÄíÄ^ÄŠ AGP Ø ÈaĐaÖÖÈeÈ ÄÖ%ç%ç»T
4	
8	
16	
32	
64	
128	
256	

## Chipset Features à Pentium II Micro Codes

<b>Pentium II Micro Codes</b>	ÄÖ microcode Æ çèÄíÇñç Û CPU ÄÖ bug»RÈ{ÈaÄoPÍÈ' Û
Enabled	Øö Enabled»T%ÄÖ]Çj È' ÄaÈ ÄİÖ ÈÄÄÖİ†Äñ»RçzçYÄi Ö' Û
Disabled	Øö Disabled»T

## Chipset Features à Manufacture Frequency Default

<b>Manufacture Frequency Default</b>	Í, ÇiĐĬçòçèÄíÈ' Û CPU ÄÖÈççÜhİ%TÑ Đ"Ø ÈaÄ
Depends on the CPU type	%f "Home" Ûp»RĬ_Ñ"ÄoİpÄ Ä Í, ÇiÜhİ%TÓŠİnÇaÆ 233

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## Chipset Features à System Frequency

<u>System Frequency</u>	ÀÓĐİ ç ò ç è Àİ İ n Ā Š CPU %Ōİ » Ú ħ İ % » R Ç j È ' Ñ b İ n Ā Ē Á ` Ä Ö Ç à » R ç z ç Y Ū "Manual" » R İ ^ Ā ū % Ū Á ` İ n Ā Š ç Y % f Ā Ō "CPU Clock Frequency " % è "CPU Clock Ratio " » T
233 Mhz	
266 Mhz	
300 Mhz	
333 Mhz	
350 Mhz	
400 Mhz	
450 Mhz	
Manual	

## Chipset Features à CPU Clock Frequency

<u>CPU Clock Frequency</u>	Í , Ç İ Û Đ Ĩ ç è Àİ İ n Ā Š ç • Ú ħ (bus clock) » R ç ò Á v ç Ä Ç È % ħ % Š Ā Ē Í „ Ā Ō Klamath CPU Í ½ Ē ç è 66.8 Mhz » T ç Y Ā ū Ñ † Ā Ō CPU İ n Ā Š % Ä   Í ¼ ¼ ¼ ¼ ¼ ¼ ¼ ¼ » R Ā İ ç Y × è È è 0 m È ' Ä Ō CPU Ō » Ā È è » T
66.8 Mhz	
68.5 Mhz	
75.0 Mhz	
83.3 Mhz	
100 Mhz	
103 Mhz	
112 Mhz	
133.3 Mhz	

## Chipset Features à CPU Clock Ratio

<u>CPU Clock Ratio</u>	Intel Pentium II Ā Ō % Ō Ĩ » (È ò % ū) Ō a ç • Í » (Bus) Ú ħ İ % Ä Y % ¼ ¼ ¼ ¼ Ā a » R Ĩ , Ç İ Û Đ Ĩ ç ç è Àİ İ Ā Š Core/Bus Ā Ō % Ā İ » T Ō Š İ n Ç à Ē 3.5x » T
1.5	
2.0	
2.5	
3.0	
3.5	
4.0	
4.5	
5.0	
5.5	
6.0	
6.5	
7.0	
7.5	
8.0	



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## 3.5 Power Management Setup

Power Management Setup ȳzB Ĕ' ĨnĀŠĀİİēĀŌĤōŌ.,Ōōİ' ĵmĔū»TĀfĀXĀS;UŪ Ĩ ȳȳŪ  
Ōö “Power Management Setup” ĐĪ ĵō»RĀjŊĒ“ĀsŪYŌ ȳhBȳ;ȳŌĀfȳŒĪvĲĒ»X

```

ROM PCI/ISA BIOS (00000006)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

Power Management      : Disabled
PM Control by APM    : Yes
Video Off After       : Standby

Doze Mode             : Disabled
Standby Mode         : Disabled
Suspend Mode         : Disabled
HDD Power Down       : Disabled
Modem Wake Up        : Disabled
Lan Wake Up          : Disabled
Suspend Mode Option  : PowerOn Suspend
VGA Active Monitor   : Enabled
Power Button Override: Enabled
RTC Wake Up Timer    : Disabled

** Break Event From Suspend **

IRQ 8 Clock Event    : Disabled

** Reload Global Timer Events **

IRQ[3-7,9-15],NMI   : Enabled
Primary IDE 0       : Disabled
Primary IDE 1       : Disabled
Secondary IDE 0     : Disabled
Secondary IDE 1     : Disabled
Floppy Disk         : Disabled
Serial Port         : Enabled
Parallel Port       : Disabled

ESC : Quit           ↑↓→← : Select Item
F1  : Help           PU/PD/+/- : Modify
F5  : Old Values     (Shift)F2 : Color
F6  : Load Setup Defaults
F7  : Load Turbo Defaults
    
```

### Power Management à Power Management

<b>Power Management</b>	AŌŪ ĐĪ ĵzB Ĕ' ĨnĀŠĀŌŌ.,Ōōİ' ĀŌĀfĐĪĔēŌĀ»TĀfĀXĲĒĒ Ĕ Ĥō
Max Saving	Ō.,Ōōİ' ĵmĔū»R×ēĔ_ĔēŌĀĲĀĨnĔĔ Disable»TĀfĀXĪn User
Mix Saving	Defined ĵzȳYĀŌĀ Ū ŌŌĤōŌ.,Ōōİ' ĀŌĔēŌĀĲĀ»T
User Define	
Disabled	

Mode	Doze	Standby	Suspend	HDD Power Down
Min Saving	1 hour	1 hour	1 hour	15 min
Max Saving	1 min	1 min	1 min	1 min

# AWARD BIOS

## Power Management à PM Controlled by APM

<b>PM Controlled by APM</b>	ÀfÄXÜ Øö "Max Saving"»RĪ_zzYB Â†İè%pĪĀĐzĐzÓ„Ñ×Ôø
Yes	Ī' (APM) çmÉú»Rç lĒ{Æó„,ÔøĪ' çmÉú»TĀi Āß»XĒĒ% CPU %Ō
No	Ī»ĒäÉüÓSAQ»T

## Power Management à Video Off After

<b>Video Off After</b>	ÀÓÙ ĐĪ çzĪnĀŠBçzö00Ñ"ÀsÀ ÔðÆó„,ÖiĀ»%fY ĪÆYŲÓ »T
N/A	
Doze	
Standby	
Suspend	

## Power Management à Doze Mode

<b>Doze Mode</b>	ÀÓÙ ĐĪ çzB Ē' ĪnĀŠĀ†İèĐz%[ŌèÉ%ŌiĀ»ĀŌĒäĐ»TÀsÀŌŌiĀ»
Disabled	%f»RCPU ĀŌÓSAQĒäÉüÑ" BøŌT»TçĒĀ Ā†İèÆ ĀsĪ„,Ō„ĀÆŌR
1 Min	%ß»RĀi çYĒŌĪ Ā ç Ā ĒäÁQĒä»RĪ'Ā" çüÁjĀ ĪpĀ çÜĒqĀÆŌR
2 Min	%f»TĀ†İèÆ ÜáçöŌäĪ IRQ ĒèŌŌĀiĒŌĪ Æ»Ēä»T
4 Min	
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

# AWARD BIOS

## Power Management à Standby Mode

<b>Standby Mode</b>	ÀÓÙ ÐĬçzB È' ÍnĀŠĀĤĬèDz%ĬĬĀ=ÖiÀ»ĀÖÈĀD»TÀsÀÓÖiÀ»
Disabled	%RÑ"Èi ÈĀ CPU ĀÓÓSAQÈĀÈuBoÔ»RĬŠÔeÖĀÈÈBĀĀ ÈĀÁQ»R
1 Min	ÛÝÓ Ý ÍĀĬççmÉú»TçĕĀ ĀĤĬèF ĀsÍ,,Ō,,ĀĤÖR%ç»RĀiçYEÖĬ
2 Min	Ā ç Ā ÈĀÁQÈĀ»RĬ'Ñ"çúAjĀ ĬpĀ ç ÛÈqĀĤÖR%ç»TĀĤĬèF ŪĀ
4 Min	çĕÖĀĬ IRQ ÈeÖÖĀiÈÖĬ Ā»ÈĀ»T
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

## Power Management à Suspend Mode

<b>Suspend Mode</b>	ÀÓÙ ÐĬçzB È' ÍnĀŠĀĤĬèDz%ÖĀÈÈÖiÀ»ĀÖÈĀD»TÖĀÈÈÖiÀ»
Disabled	ĀÖĬnĀŠĀĬ Power On Suspend Āè Suspend to Hard
1 Min	Drive ĬçÖiÀ»T
2 Min	
4 Min	
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

## Power Management à HDD Power Down

<b>HDD Power Down</b>	Ñ ĀĤĬèDz%Āó,,ĀĤÖRÈĀ»RĀÓÙ ÐĬçzB È' Ā ĀŠ IDE ĬŠÔeÈÈ
Disabled	% ÓSAQĀÖÈĀD»TçÖŪ ÐĬÖ-ÈĤĀiĀpçĀĬçĀ=ÖiÀ»Ā^ÖĀÈÈÖiÀ»
1 Min	ĀÖĬnĀŠçĀĀiĀŠ»T
.....	
15 Min	

# AWARD BIOS

## Power Management à Modem Wake Up

<b>Modem Wake Up</b>	Í ' Ó] AOpen ÄÖÉdÈ x^Ò ÍnÇf»RÍ, Ð çUØ Ä` çzçYÀöÈäEÖ Î Öa060 ÄÖÈe00»RÄYçz0xçè ATX Soft Power ÄöÈäD" Ø »RÍ, ÐÍ çnÉúÄUÈqØRÀi çèÄi Öi ÚÚDaÉ^Ø ÖaIÄÜ Ø »T ÖaDa Èè Green PC suspend mode ¼ÄaÄÖÆ »RÄ†ÈèçzçYÉ^ çÜ Ý Ø (ÄaÜp¼ Ä»Æ ÚaÄuÓ,,Ñ×ÄèÚÍØÖÄÇÑÈÈÆ ÄpÈÈ¼ ÖS Úú)»Tç•ÈIÄ»ÄèÖÈIÄ»Öa06çu ( AOpen MP56/F56) Í½çz çYpIÄ modem ring-on ÄÖçnÉú»R¼Ø]ÄoÇæÄoPÍÈ' ØÄçzÉú ÈÐçè MP56/F56»RÄnÆ MP56/F56 ÄÍÉdÈ ÄÖÖ,,Ò ÍnÇfçz çYÖaçUØ Ä` ÄÓÆ ÄÖÑwÈ†»RÑ Ä†ÈèÝ Ø Èa»R¼ØçÇA çèÝS ç•ÄÖÖ,,Ñ×»T
Enabled	
Disabled	

## Power Management à LAN Wake Up

<b>LAN Wake Up</b>	Í, Çi ÐÍ çòçèÄi ÍnÄŠÆ ÄpÈi çè LAN Wake Up çnÉú»T
Enabled	
Disabled	

## Power Management à Suspend Mode Option

<b>Suspend Modem Option</b>	çÖÄ†ÈÈI½Äè¼ÄT¾X0ò suspend ÖiÀ»RÄÈÈ' È À ÄöÓ,,ÖoI' çnÉú»TÑ Ä†ÈèÐz¼ Power On Suspend ÄöÓ,,ÖiÀ»Èa»R ÐaÈèÄÖ Green PC Ñ"BoÄÄÖaÈa¾¾ ÄÄÖR»RCPU ÈaÈuÈÈ¾ ÖSÜú»RÄi ÄÍÄÖÍnÍà¾nÍ½ ÍÆ»T¾Ø]Ä†ÈèÑ"Ä` Ä` Í,,Ö,,ÄÆ ÖR»RçYÄ\Öa060 »SÜp×]»SÄèÑaÖÄÈÖI Ä ÈÈäÈa»RçzçYÈÄ ¾Ä ÍpÄ çÜÈqÖiÀ»¾¾Tçç•»RÖäI IRQ ÄÖÆÈa¾nçzçYB Ä†ÈèÖaÈÈÖiÀ»Ä ÄoçÜÈqÖiÀ»»TSuspend to Disk çzçYÄs ÖaÈäÝ Ø Äv»RÈ Ä†ÈèÄÄÖR»RÈ ØeB Ä^ÜYÓ Ö%ÖÍÍçÜçÄ†As ÍŠÖe¾¾RÑ Ö,,Ñ×ÇÄÑ†Ð"Èi Èa»RÄ†ÈèI_Ñ"Ä AoÄ È' Ç ç ¼ ÄQÄÖÄÄÖR¾¾TÈ' çIÖ÷Äéçè AOZVHDD ¾çèI' Ä»ÄiÄ' Èu ÍŠÖeÄBD»»T
PowerOn Suspend	
Suspend to Disk	

## Power Management à VGA Active Monitor

<b>VGA Active Monitor</b>	ÄÖÜ ÐÍ çzÈÖI VGA Býçö00ÄsÄöÓ,,ÄÄÖRÈaÄÖÈaÄQ»T
Enabled	
Disabled	

# AWARD BIOS

## Power Management à Power Button Override

<b>Power Button Override</b>	Í, Æ ACPI %ÄÖÍhÈ %Á%Q»TÑ Ù 0ö Enabled Èä»RÁv% ÇÈ
Enabled	Ä` %hÄÖ soft power switch çzçYçèÁíÈÈÄ Ä†ìèÐ"Ø »SÖäÈÈ
Disabled	(Suspend) ÁeÝ Ø »TÀsÐ"Ø ÄÖÄÄÖR%Ä»RÇj Á %Ä switch»R çSÈäÐ»%DÄ 4 Æ »RÄ†ìÈÄ\Ñ"Ðz%Ä Suspend ÖiÄ»»WÇj Á %ÄÄÖÈäÐ»ÐhÓ] 4 Æ »R Ä†ìÈÄ\Ñ"Ý Ø »TÖŠÍnÄÖÄÄÖR%ÄÆ

**Disabled**»Rsoft power switch ç^ÉúçèÁíÐ"Ý Ø »RÄÄÄÍ Suspend»RÄì çY%ÄÄÄÄÍ 4 Æ ÐÜÄÖÇÇÄ »T

## Power Management à RTC Wake Up Timer

<b>RTC Wake Up Timer</b>	RTC WakeUp Timer çzçYB È` Ä ÄŠ%QÇiÉdÄŠÄÖ% ÎÜ/Èä
Enabled	Ð»»RÄ†ìÈÈÑ"ÀsÍ, ÇiÈäÐ»ÄöÈäÐ"Ø »TÍ, Çi % ÎÜ/ÈäÐ»Æ Às "
Disabled	WakeUp Date (of Month)" %è "WakeUp Time (hh:mm:ss)" Ù ÐÏ%QÄ ÄŠÄÖ»T

## Power Management à WakeUp Date (of Month)

<b>WakeUp Date (of Month)</b>	È†Äi "RTC WakeUp Timer" Ù ÐÏÄéçè»RçèÄi Ä ÄŠÄTÇi %
0	%ÄÖÄÖ%Q%è»TÄi Äf 15 Î ç Ä ÄTÇi % ÄÖÄÖ 15 ÖÖ»RÍnÆ 0
1	Äyç_Ä ÄT%Q%è»T
.....	
31	



×èÄqÑ: È ÄÖÐÏçòÍnÆ 0»RçzÄéÄ†ìÈÄT%èÀsÄa%Q ÇiÈäÐ» (çzçè WakeUp Time Ä ÄŠ) ÄöÈäÐ"Ø »T

## Power Management à WakeUp Time (hh:mm:ss)

<b>WakeUp Time (hh:mm:ss)</b>	È†Äi "RTC WakeUp Timer" Ù ÐÏÄéçè»RçèÄi Ä ÄŠÄöÈäÐ"Ø ÄÖÈäÐ»TÄpÈ Ä»ÆÈ hh:mm:ss»R×èÄqÑ_Äp%Q%ÄÈÄÖÄ çö% Ä»ÆÈ 1 Ä 24»T
hh:mm:ss	

# AWARD BIOS

## Power Management à IRQ 8 Clock Event

<b>IRQ 8 Clock Event</b>	À0Ù ÐĬ çĬ Ĭñ Ĭš Ĭť Ĭè Ĭš Ĭš0, ò Ĭ ì»%Œ»R0äĬ IRQ8 (RTC) Ä0
Enabled	Æ»Ĕ»TOS2 Ñ“0 IRQ8 (RTC) ÄĬĬŮ%ŒĬp»RÀĬXĬñ Ĭš ĬRQ8
Disabled	Ä0 çĬ ĬĚŮ»RÄš OS2 ÄQÑ•Äť Ĭè%Œ»R çĬ ĚŮĬ ĬĬ Ðz%Œ Ĭš Ĭñ Ĭš Ä€Ä0
	Æš0, ò Ĭ ì»%Œ»T

## Power Management à IRQ [3-7,9-15],NMI

<b>IRQ [3-7,9-15],NMI</b>	Äť Ĭè Ĭš Ĭš0, ò Ĭ ì»Ĕ»R çĬ z Ů ä ç è Ä0Ù ÐĬĚÖĬ IRQ Ĭ.,ò Ĭ ^NMI
Enabled	%ŒĬpÆ ÄpÄĬ ç Ĭ Æ»Ĕ»TE Ä0Ù ÐĬĬñ ĬĔ Enabled»RÄĬĔ.,Ĭ.,
Disabled	ò %ŒĚÖĬ Ä ç Ĭ Æ»Ĕ»RÄĬ Ñ“Ĭ ù Äť Ĭè»RÄĬB Äť ĬèÄ Äo ç Ů
	ĔqŮ Ĭ ì»»T

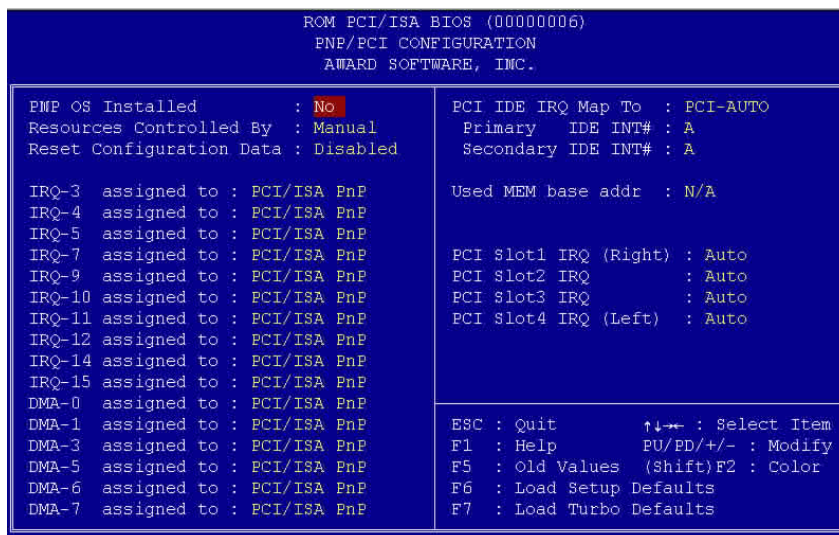
- Power Management à Primary IDE 0
- Power Management à Primary IDE 1
- Power Management à Secondary IDE 0
- Power Management à Secondary IDE 1
- Power Management à Floppy Disk
- Power Management à Serial Port
- Power Management à Parallel Port

<b>Primary IDE 0</b>	Ĭ., Ää Ů ÐĬ çĬ Ĭñ Ĭš Ĭš Äè Ä È Ĭñ Ĭ äĔÖĬ çĬ ĬĔŮ»TĬ Äť Ĭè Ĭš ĬDE Ĭñ
Enabled	Ĭ ä»Ĭ ĔÖèŒ»RÄĬ ĬTE »RÄ ä ĬTE Äš Ĭš0, ÄÄÖR%ŒÄÖÆ»ĔäĔ»Äè»T
Disabled	ÄĬ ĬXĬ, Ää Ĭñ Ĭ ä Ĭ bĔÖĬ Ä ÄĬ BÄ/ÖxÄè Ĭ/O Ðä Ů ÄÖĔÄ ÄQ»RĬ Ñ“
	È., ÖäĔĔÖĬ Ĭ ä Ä Äo ç ŮĔĔqŮ Ĭ ì»»T

# AWARD BIOS

## 3.6 PNP/PCI Configuration Setup

PNP/PCI Configuration Setup ızb È' İnaŞAİİè%Ä0 ISA Ä^ PCI İna»TÄfÄXÄsçU  
 Ü İ %Ä0 00 "PNP/PCI Configuration Setup" Dİçò»RÄjÑ"ÄsÜY0 %ÄByçòÄf%ÄİvÇÈ»X



### PNP/PCI Configuration à PnP OS Installed

<b>PnP OS Installed</b>
Yes
No

Í„Èq»RÄİİèÄsÈ À POST Èä»RÑ"È İBÄi ÜYİ»Äj çè(PnP)  
 Ä0İnaİ„Ä0 BIOS»TÄfÄXÈ' ÄéçèÄyÄİ PnP çmÈüÄ0ÄQÑ•Äİ  
 İè (Äf Windows 95)»R\_ççYÈ\_İ, ÇiÜ DİİnaÈYes»BIOS  
 İ\_Ñ"İnaŞÜYİ»Äj çèÄ0çmÈüÄi Èi Èäİna»RÄf VGA/IDE Äè  
 SCSI İçÜi çççu»T

### PNP/PCI Configuration à Resources Controlled By

<b>Resources Controlled by</b>
Auto
Manual

È Ä0Ü DİİnaÈ Manual»Rızb ÄéçèÄaÈ ISA Ä^ PCI İnaİ  
 %ÄÄ^ Ä ÄŞÄi 0-Ä0 IRQ Ä^ DAM»TÄfÄXİnaÈ Auto»Rİ\_Ñ"Èi  
 ÈäÄ0ÈäİnaŞççmÈü»T

# AWARD BIOS

## PNP/PCI Configuration à Reset Configuration Data

<b>Reset Configuration Data</b>	ÀfÀXE' ÀiÀŠòàÀÒ ISA çuAdÀÍ PnP çmÉú»RÍ_çÌðÑÀ ÅŠ IRQ ÓUÁi %pIÁçÀÀÒçmÉú»TÍ, ÁaÙ ÐÍçzB È' AæÁÁ ÅŠ IRQ ÍÓ
Enabled	Àe»RÍ_çÌðÑÀ ÅŠ IRQ»T
Disabled	ÀŠÑ†ÀÒ IRQ»T

- PNP/PCI Configuration à IRQ3 (COM2)
- PNP/PCI Configuration à IRQ4 (COM1)
- PNP/PCI Configuration à IRQ5 (Network/Sound or Others)
- PNP/PCI Configuration à IRQ7 (Printer or Others)
- PNP/PCI Configuration à IRQ9 (Video or Others)
- PNP/PCI Configuration à IRQ10 (SCSI or Others)
- PNP/PCI Configuration à IRQ11 (SCSI or Others)
- PNP/PCI Configuration à IRQ12 (PS/2 Mouse)
- PNP/PCI Configuration à IRQ14 (IDE1)
- PNP/PCI Configuration à IRQ15 (IDE2)

<b>IRQ 3</b>	ÀfÀXE' ÀiÀŠòàÀÒ ISA çuAdÀÍ PnP çmÉú»RÍ_çÌðÑÀ ÅŠ IRQ ÓUÁi %pIÁçÀÀÒçmÉú»TÍ, ÁaÙ ÐÍçzB È' AæÁÁ ÅŠ IRQ ÍÓ
Legacy ISA	Legacy ISA çuÁ^ PCI/ISA PnP çuÁéçè»TÑ È' Å ŠS%Q
PCI/ISA PnP	IRQ ÅE Legacy ISA Èä , À†ÌèÑ"Í,,ÅØ PnP BIOS È_ÁiÍn
	ÀÓIRQ À`ÉuÍÓ%ÀŠòàÀÒ ISA çuÁéçè»TÈèÒàÓŠÍnÇàÆE
	PCI/ISA PnP»RèÁqÑ_ÁÍÁá PCI çu (Ò ÚÚÁÆÀÒPCIçue½ç)
	ÅY%40-ÇÉÁéçè IRQ»RÍ_çÌðÑÀ `ÉuÍÓ ISA çuÁéçè»T

- PNP/PCI Configuration à DMA 0
- PNP/PCI Configuration à DMA 1
- PNP/PCI Configuration à DMA 3
- PNP/PCI Configuration à DMA 5
- PNP/PCI Configuration à DMA 6
- PNP/PCI Configuration à DMA 7

<b>DMA 0</b>	ÀfÀXE' ÀiÀŠòàÀÒ ISA çuAdÀÍ PnP çmÉú»RÍ_çÌðÑÀ ÅŠ DMA Í,, ÓUÁi %pIÁçÀÀÒçmÉú»TÍ, ÁaÙ ÐÍçzB È' AæÁÁ ÅŠ DMA Í,,ÓUÍÓ
Legacy ISA	Legacy ISA çuÁ^ PCI/ISA PnP çuÁéçè»TÑ È' Å ŠS%Q DMA Í,, ÓUÆE
PCI/ISA PnP	ÓUÆE Legacy ISA Èä»RÁ†ÌèÑ"Í,,ÅØ PnP BIOS È_ÁÓ DMA Í,,ÓU
	À`ÉuÍÓÀiÀŠòàÀÒ ISA çuÁéçè»TÈèÒàÓŠÍnÇàÆE PCI/ISA PnP»Rè
	ÁqÑ_ÁÍÁá PCI çuÅY%40-ÇÉÁéçè DMA Í,,ÓU»RÍ_çÌðÑÀ `ÉuÍÓ ISA çu
	Áéçè»T



# AWARD BIOS

## PNP/PCI Configuration à PCI IDE IRQ Map To

<b>PCI IDE IRQ Map To</b>	ÀÍ%QÀaò ÜÜÄÖ PCI IDE Üi çcçu%4#pIÄ PnP çmÉú»TÍ, Áá çuõ÷Ç€ÀŠòaÀsÁ ŠŠÄÖÜi çcÖë%#R%#ÉúB BIOS ÇÄÑ†Æ Ôt PnP 0 Ñ»TÄÓçmÉú%ÓInÉ' Û 06 PCI Í»ÖeÍÓ PCI IDE Üi çcçuÁéç»ÍInÁŠ Auto Ñ"ÀoÈÄÆ Ôt%ŠŠòaÄÖ PCI -IDE I Üi çcçu»T
ISA	
PCI-Slot1	
PCI-Slot2	
PCI-Slot3	
PCI-Slot4	
PCI-Auto	

## PNP/PCI Configuration à Primary IDE INT# PNP/PCI Configuration à Secondary IDE INT#

<b>Primary IDE INT#</b>	Í, ÄüÇíÜ ðÏçÌÐÑÊ‡ "PCI IDE IRQ Map To" ðÏçòÁéç»T È' çzçYÁ ŠŠ IDE %4pIÓ PCI IDE Üi çcçuÄÖ primary Ä^ secondary Í,,ÓUÁéç»TÄT%QÇí PCI Í»ÖeÍ%ÁÍç"Çí PCI %4 ÜpçzÍbÁ ŠŠ »TE' çÌÐÑç ÍnÁŠ "PCI IDE IRQ Map To" Äi ÁéçèÄÖÍ»Öë»RÄRÄaÄÓÄ ŠŠPCI%4pIÓÄi ÁŠòaÄÖÜi çcçuÁé çè»T
A	
B	
C	
D	

PCI Slot	Location 1 (pin A6)	Location 2 (pin B7)	Location 3 (pin A7)	Location 4 (pin B8)
Slot 1	INTA	INTB	INTC	INTD
Slot 2	INTB	INTC	INTD	INTA
Slot 3	INTC	INTD	INTA	INTB
Slot 4	INTD	INTA	INTB	INTC
Slot 5 (if any)	INTD	INTA	INTB	INTC

## PNP/PCI Configuration à Used MEM Base Addr

<b>Used MEM base addr</b>	ÀÓÜ ðÏçÌÐÑÊ‡Äi "Used MEM Length" ðÏçòÁéç»TÄfÄX È' Äi ÁŠòaÄÖ ISA çuÄdÄÍ PnP çmÉú»RÍ_çÌÐÑÄ ŠŠÈ`0eß ÈvÐ,,Äi %4pIÄçÄÄÖçmÉú»RÄi ÀÓÜ ðÏççzÄ ÁŠÍbÁ`ÉuÄÖÈ`0e B ÄBÐ»Ð"Ä}Ä Ä"»T
N/A	
C800	
CC00	
D000	
D400	
D800	
DC00	

# AWARD BIOS

## PNP/PCI Configuration à Used MEM Length

Used MEM Length	
8K	ÀfÄXÈ`ÁiÄŠòáÄÖ ISA çuÂdÄÍ PnP çmÉú»RÎ_çÌĐNÄ ÄŠÈ`
16K	ØeB ÈvĐ,,Ái%pIÄçÄÄÖçmÉú»TÄÖÙ ĐİçzÍnÄŠÁiÖ÷ÇÈÈ`ØeB
32K	ÈvĐ,,»RÄYÍ,,ÄØ PnP BIOS È_È`ØeB ÄBĐ»Ä`ÉuÍÓÁiÄŠòá
64K	ISA çuÂéçè»T

## PNP/PCI Configuration à PCI Slot1 IRQ (Right)

### PNP/PCI Configuration à PCI Slot2 IRQ

### PNP/PCI Configuration à PCI Slot3 IRQ

### PNP/PCI Configuration à PCI Slot4 IRQ (Left)

PCI Slot1 IRQ	
3	Í, ÇiĐİçòçzçYB È`çY%üÈäÄÖ% Ä»ÍnÄŠÄT%QĐ PCI Ä çl
4	çuÄÖ IRQ Çà»TÇj Û Øö Auto»RÄ†ÌeÎ_Ñ`ÀöÈä%ÄÆçzçèÄÖ
5	Çà»T
7	ÇjÄdÄÍÉdÁ`ÄÖÇ Àn»RÄòĐÍÈ`ÍæÄÄéçèÖŠÍnÇà Auto»T
9	
10	
11	
12	
14	
15	
Auto	

# AWARD BIOS

## 3.7 Load Setup Defaults

ÀÓÙ ðĭçzĕ, BIOS ROM %D %IæAiØRÄÖInÄŠÇâ»T%QÉ ÂéçèÄæ×éAbçèÀÓÙ ðĭØ %IÖŠ  
InÇâ»RĪ, ÄäÖŠInÇâÑ"Ö%BeÄiÄĪÄÖ Setup ðĭçð»RĒ!%WÖëÑäÄÖ CMOS InÄŠ»TÄfÄXĒ'  
ÄÖÄ†ĪèÄŠðàð ÈÄĒvð,ÄÖÈ`ØèB »RÄi Ūi çcöè%ñĪ»Ö»Ūi çççu»RÄóÇæÄoPĪÈ' ÂéçèÄÖðĪIn  
ÄŠ»T

ÀÓÙ ðĪÄY%Ä/Ä/Ä, È ĪæÄŠç ÄÖÄ†ĪèInÄŠ»RÄi çYÇjÄ†ĪèĪ, çç%ÄÇÄŠÄÖÄÄf»RĒ' ççççè  
%iĪÄÄÖ% Ä»Äs "BIOS Features Setup" Ä^ "Chipset Features Setup" Ū ðĪ%Ä»RĪInÄŠ  
Ø ÖTÄ^Ø YÇÄŠÄÖInÄŠ»T

## 3.8 Load Turbo Defaults

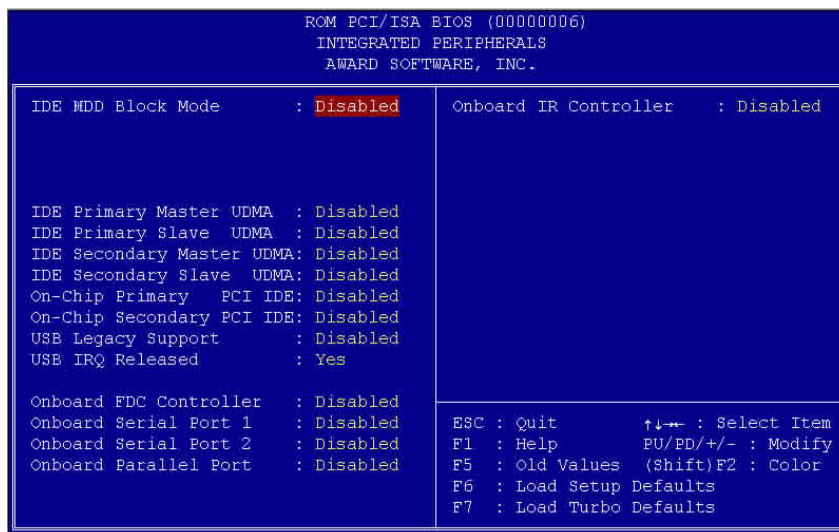
ÀÓÙ ðĭçzð %Ä†Ä BIOS ROM %D ÈÄĒPĪ%ÄÖÖŠInÇâ»TĪ, Ääð %ÄÄÖÖŠInÇâÑ"Ö%BeÄi  
ÄĪÄÖ Setup ðĭçð»RĒ!%WÖëÑäÄÖ CMOS InÄŠççYç»TÈÄĒPĪ%ÄÖInÄŠÇäÖ Ä†ĪèÄiÄççç  
Éú%ÄÈ ĪæÄèÄÖInÄŠÇâ»RÄfÄXĒ' ÄÖÈ`ØèB Èvð, %ÄÄÄ»R%ñÄdÄĪÄŠðàÄoÄyŪi çççu»RĪ\_çç  
çYÄi Ö' ÄÖðĪInÄŠ»T

È' %ñççççè%iĪÄÄÖ% Ä»Äs "BIOS Features Setup" Ä^ "Chipset Features Setup" Ū  
ðĪ%ÄInÄŠÈèÖäÇâ»B Ä†ĪèŪ È, Ä ÄÄÄÖÈ Ä ÈPĪ%FÄÄJÈ' Ççç ŪRÖèÄiÄĪÄÖÙ ðĪçnÉú»R  
ÄnÄÈÄĪ†ĪInÄŠÇâÄæĪÖ% ĪiÄ^ŪĪçè×uĪ %ÄÄÄ»RçççççÄÄÄ 3% Ä 10% ÄÖÈ Ä ÈPĪ%»T

# AWARD BIOS

## 3.9 Integrated Peripherals

ÀfÄXÀs;UÙ Í %¼Ù Øö “Integrated Peripherals” ÐĪ;ò»RÁjÑ“ÀsÜÝÓ %hBy;öÀf%Fİv ÇÈ»X



### Integrated Peripherals à IDE HDD Block Mode

<b>IDE HDD Block Mode</b>	ÀÓÐĪ;ò;ZÍnÄŠİŠÖe;YÀyÖeÈÉ%¼ À»ÐaÊvò Èa»RÁY;zÈ È¼ÄT
Enabled	ÇiÖeÖeÄÖ%¼ÜpİSİ' ÈaÐ»»T%¼İ»;ç ÄÖ IDE İŠÖeİ¼;z%¼pİÄÄÖ
Disabled	ÐĪ;çmÈu»RÈ¼¼WØ ÀÇÈÛ;çiÄÖİŠÖe;çzÈuÄdÄİİnc;fÄÖÖoÐaÙ Òi
	À»»T

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Integrated Peripherals à IDE Primary Master UDMA  
 Integrated Peripherals à IDE Primary Slave UDMA  
 Integrated Peripherals à IDE Secondary Master UDMA  
 Integrated Peripherals à IDE Secondary Slave UDMA

<b>IDE Primary Master UDMA</b>	ÀfÄXÄŠòÀs IDE Í†ËÏØÓ%hÄÖ IDE ÝŠòeÄÍ%pÍÄ UDMA Öi
Auto	À»R¿zË_ËeÖaÍnÆE Auto»R¿YËi Êa Ultra DMA/33 ÊÄÍ†Đa
Disabled	Û ÖiÀ»T

Integrated Peripherals à On-Chip Primary PCI IDE  
 Integrated Peripherals à On-Chip Secondary PCI IDE

<b>On-Chip Primary PCI IDE</b>	ÀÖÙ ĐĲ¿zÍnÄŠÄeÄ È Í†ËÏÄs primary IDE Í†ËÏØÓ%hÄÖ
Enabled	IDE ÍnÍa»T
Disabled	

Integrated Peripherals à USB Legacy Support

<b>USB Legacy Support</b>	ÀÖÙ ĐĲ¿zÍnÄŠÄeÄ È USB Ûp×]ÄÖBi ÊaÍ' À»TÀfÄXÑbÇE
Enabled	Äe¿è USB Ûp×]»R%AdÄÍØRÄi ÄÖBi ÊaÍ' À»R¿zË_ËeÖaÍn
Disabled	ÆE Enabled»TÄÖÛp×]Bi ÊaÍ' À»%ÖÄòÀs BIOS %Ö»R¿zÖi ÚÚ
	Đaİè Ûp×]Äc¿`»RÄY¿SÄsĐ"Ø È À POST Í' ÁaÊaËi Êa
	USB Ûp×]¿nËú»TËeÖaÖŠÍnÇaÆE Disabled»T



×e%f%ú: ×e%4Ç€AaÊaÄe¿è USB ÍnÍaÄ^ USB Đaİè  
 Ûp×]»TÀfÄXÄQÑ•Ä†İè%ŠÄŠòaUSBBi ÊaÍ' À»R×eÄ  
 È "USB Legacy Support" ¿nËú»T

Integrated Peripherals à USB IRQ Released

<b>USB IRQ Released</b>	USB ÍnÍaÄÖ INTD# Öa PCI slot4 ÆbÀa»TÀfÄXÄs slot4 %h
Yes	ÄŠòa PCI ¿u»RÄYÇ€Äe¿è INTD# È»R×eË_ËeÖaÍnÆEYes»R
No	ÄjÑ"Ä È USB ÍnÍaÄiÀ ¿eÄÖ INTD# (%4ÛpÀ Á)»T



×eÄqÑ\_:%QÉ ÄiÖ»RPCI VGA ¿u%4Ä¿èÄ PCI %4Ûp»R  
 È' ¿z¿YÄü PCI VGA ¿uÍ»Äs slot4»T

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## Integrated Peripherals à Onboard FDC Controller

<b>Onboard FDC Controller</b>	ÀÓÙ ðĭ çĭz ĭn ĀŠ ĭ €À» òé òé Ø Æ Ò ĭ m Ē ú» T Ā f Ā X Ē b Ā é ç è ç • Ē ĭ Ā » Ā Ò Ē Ē Ā ç u » R » é Ē ù Ò Ĩ ĭ ĩ n Ā Ē Disabled » T Ē Ē Ò Ā Ó Š ĩ n Ç Ā Ā Ē Enabled » R ĭ z b ò é ò é Ø ç ù Ē Ē q Ó Š Ā q » T Disabled
-------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Integrated Peripherals à Onboard Serial Port 1 Integrated Peripherals à Onboard Serial Port 2

<b>Onboard Serial Port 1</b>	ÀÓÙ ðĭ çĭz Ā Ā Š ĭ u Ø Ā` % h Ā Ò Ā Ā T ĭ ĩ ĩ Ē Ē Ē Ā Ā` Ā` % ĩ ĩ p » T Ó Š ĩ n Ç Ā Ā Ē Auto » T
Auto	
3F8/IRQ4	
2F8/IRQ3	
3E8/IRQ4	
2E8/IRQ3	
Disabled	



» é Ā q Ē : Ā f Ā X Ē Ā Ā Ā é ç è ò ò ç u » R » é » é Ā Š % ĩ ĩ p Ā Ā` Ē Ā Ā p ç Ā Ā Ó ĩ ĩ Ā Ā Ā % ĩ ĩ p » T

## Integrated Peripherals à Onboard Parallel Port

<b>Onboard Parallel Port</b>	ĭ , Ç ĭ ù ðĭ çĭz ç Ē Ē Ē Ā % Ò Ā ò ç Ç Ā Ē Ē Ē Ā Ā` Ē Ē Ā Ā` Ē Ē Ē Ē Ē p » T
3BC/IRQ7	
378/IRQ7	
278/IRQ5	
Disabled	

# AWARD BIOS

## Integrated Peripherals à Parallel Port Mode

<b>Parallel Port Mode</b>	ÀÓĐĪ ĸò ĸzB È· Á ĀŠĀYĀTĒ ĸYÀ Ôò00ÁQÖi À»Āi ĐáÚ Ò
SPP	Èà»TĒÈÒàÓŠĪnÇāÆ Normal, %nĪ_Æ SPP (Stand Parallel
EPP	Port) Öi À»RÆ IBM AT Ā^ PS/2 ÆÈvÖi À»Rĸz%ÓĪmĀYĀT
ECP	È ĀsÍ ĀgÖi À»%f ĸYĸÜĒqĪ†Āñ00ÁQ»TEPP (Enhanced
ECP + EPP	Parallel Port) Öi À»R%ÓĪmĀYĀTĒ ĀsÜ ĀgÖi À»%f ĸYĪa%Ī†
	Āñ00ÁQ»TECP (Extended Parallel Port) Öi À»R% ĪaĒĀĪ†
	ĀñÁ ĀðĀÖÜ ĀgĀYĀTĒ 00ÁQ»RÆ ĸY DMA Ā^ RLE (Run
	Length Encoded) Ú¼Īj Ā^0èÚ¼Īj Ā0¼ Ā»Āi ĐáÚ Ò Èà»T

## Integrated Peripherals à Onboard IR Controller

<b>Onboard IR Controller</b>	Èi ĸèĀèY ĪÆIR (Æ ĸ·×^) ÈÈĀ 00»T
Enable	
Disable	

## Integrated Peripherals à IR Address Selection

<b>IR Address Selection</b>	ĸèĀi Ū 00 IR ÈÈĀ 00Ā0Ā Á»T
2E0H	
2E8H	
2F8H	
3E0H	
3E8H	
3F8H	

## Integrated Peripherals à IR Mode

<b>IR Mode</b>	ĀÓÜ ĐĪĸzĸYĀ ĀŠÆ ĸ·×^ĐáÚ ĀÖÖi À»»T
ASKIR	
IrDA	

- IrDA - ĪnĀŠ serial port 2 Ā000ÁQÆĸÜĒqÖi À»»RĀÓÜ ĐĪ%nÆ ÈÈÒàÓŠĪnÇā»T
- ASKIR - ĀfĀXĀsÓ, Ò¼ĀÖ IrDA Ī†ĒĪ00%h%ŠĀŠÒa%WE ĸ·×^ĒĪĀ#0 (IrDA)»RĪ\_ĸz ĸYĀèĸèĀÓÜ ĐĪ»RĪ, ÔòĪnĀŠĸzĐáÈvĀ ĀTĒÈĒĀÓW19.2K ĀzĒd»T

# AWARD BIOS

## Integrated Peripherals à IR IRQ Select

IR IRQ Selection
IRQ3
IRQ4
IRQ10
IRQ11

ç è Á Ì Û Ø ö IR Ð á Û Ê Ä Ö IRQ»T



× è Ä q Ñ : Ç j È ' Á Í Á Š Ö ä Ö Ò Ò ç u » R × è × e Ö ' IRQ Ä d Á Í Æ  
× Þ Æ » T

## 3.10 Password Setting

È \ × i Í n Ā Š ç z Ū ñ Á \ ç j % \ ç Ö Ö × È Û B % » S Á í Ø i À ö Á é ç è È ' Ä Ö Ö , Ò % » T Ä f Á X Í n Ā Š Ä È \ × i » R Á ð ì è Ñ " Á s Á T Ä Ö Ø " Ø Ä è Ð z % \ BIOS % \ ç è Í ' Á » È ä » R ç i Ì ' % Q Ç í Í ½ ö Ì B Ö Ö » R Ç È Ä Ü È ' Û % \ ç Û × e Ä Ö È \ × i » T

Í n Ā Š È \ × i » X

1. Á s Í ½ ö Ì B Ö Ö » R Û Þ % \ Í æ y 8 Ç í Á . . % Ð Ä Ö È \ × i » R È ' Á ï Û Þ % \ Á Ö Á . . % Ð Ä s Û Ý Ó % \ ç ^ Ñ " ç i Ì ' Æ ä Ö Ö » T
2. Û Þ % \ È \ × i Á ú , × è Ä Enter Û Þ » T
3. È Ì Ý ö % d Ñ " ç i Ì ' Í ½ ö Ì B Ö Ö » R × è À R Û Þ % \ % Q Ä Ö È \ × i » R ç Y × e Ö ' È \ × i Ä Ö ç Û × e Ä ä » T Ä Enter Û Þ » R Á j Ñ " Á × È Í Á o Á ç Û Í v Ç È » T

Ä f Á X Ç È Ä È % \ Í n Ā Š Ä Ö È \ × i » R × è Á s ç i Ì ' Û % \ È \ × i Ä Ö Í ½ ö Ì B Ö Ö Á ú » R Á × È Í Á Enter Û Þ » R Í v Ç È % \ Í Ñ " ç i Ì ' % Q Ç í È e Á Á z Ð Ü È ' È \ × i % Š Í b Á È » T

## 3.11 IDE HDD Auto Detection

À Ö ç m É ú ç z ç Y À ö È ä È Ö Í IDE Í Š Ö e Ä Ö Á È Ö R » R Á Y È È Ö Í Á Ä Ö È e Ö ä Ç a Ð á Á "Standard CMOS Setup" Ä Ö "Hard Disk" Û Ð Í % » T Á Í Á á IDE Í Š Ö e ç z % Þ Í Á Á y Ì i Ä Ö È e Ö ä Í n Ā Š » R Ä f Á X È ' Á Ö Í Š Ö e % \ Ø R ç è Í , Á á À ö È ä È Ö Í Á Ä Ö È e Ö ä Ç a » R × e Û N % \ Ç È Ä e ç è ç Ä Ç a » R Á Y Ð z % \ "Standard CMOS Setup" Û Ð Í % \ Û Þ % \ ç Û × e Ä Ö È e Ö ä Ç a » T



## AWARD BIOS

### 3.12 Save & Exit Setup

ÀÓÙ ÐÏÑ "ÀsÈ' Ü Ð" Setup %<z>èÏ' à»Áv»RÀöÊáÚ<À†ÁiÀÍÃÖ CMOS Çà»T

### 3.13 Load EEPROM Default

Ê¼W"Load Setup Default" Ōa "Load Turbo Default" %Á<z>•»RÈ' %n<z>çÿYÈ\_Àö¼ÃŌÍnÃŠ ÇàÀ†¼ EEPROM %¼»RÁÝÁbçèÀÓÙ ÐÏÇÃÑ†Ō %¼»T

### 3.14 Save EEPROM Default

ÀÓÙ ÐÏ<z>È\_È' Àö¼ÃŌÍnÃŠÇàÀ†¼ EEPROM %¼»R¼ ÁúÇj CMOS Ō ÈàÙ <z>¼ÀeÈ' ÀeËŌ ÁfÀ Ç <z> ÍnÃŠÈà»R<z>Ûáçè¼hÇ' ÃŌ "Load EEPROM DEFAULT" ÇÃÑ†Ō %¼»T

### 3.15 Exit without Saving

Ü Ð" Setup %<z>èÏ' à»»RÀ %¼Ñ"Ú<À†Á Á ÓJÃÖ CMOS Çà»TÀfÄXÈ' Ç€Ú<À†Ñ†ÃŌÍnÃŠ Çà»R<è¼¼Ç€ÁéçèÀÓÙ ÐÏ»T

### 3.16 NCR SCSI BIOS and Drivers

NCR 53C810 SCSI BIOS %QŌáÈqŸ€ÀsÆÀaÃŌÁðÈ' È' Ÿeß ÍŌ¼ %¼»RÑ ÁÁÁ†Ìè BIOS Áéçè¼Ç€ÁéçèÀ' %¼ÃŌ NCR BIOS' È' çÏÐÑç ÀsÁ†Ìè¼¼RŠŌa¼¼ NCR 53C810 SCSI ÈÈÁ çu»T

ÁiÀÍÃŠŌaÁ Á†Ìè¼¼ÃŌ SCSI ÍnÍà»RÍ¼F Ō=Ç€Í€ß Bi Èáí' à»»TNCR SCSI BIOS çzÁ× ÈÍÀs DOS %¼»pÍÁ SCSI ÍŠÀ»ŌéŌéŸ »RWindows %è OS/2»T¼n<z>çÿYÁbçè NCR 53C810 SCSI ÈÈÁ çuÁiÁ ÁŌÍ€À»ŌéŌéŸ Bi Èáí' à»»RçY DOS È À»¼è SCO UNIX È À»ÁiÁéçèÍ€À»ŌéŌéŸ »IDOS È À»ÃŌBi Èáí' à»¼ÁÁ SCSI ÍnÍà»RÈ çzçÿçèÀs DOS»R Windows NT»Novell NetWare %è OS/2»TÁi SCO UNIX È À»ÃŌBi Èáí' à»¼ÁÁ SCSI ÍnÍà»RçzçèÁ SCO UNIX»TÍ, ÁáBi Èáí' à»¼ çèÀ×ÈÏ BIOS Ái %pÍÁÃŌÈÈÈÚŌÈÈÁ»T

## AWARD BIOS

Ç€ÂéçèBiÈäI' À»»RÈ' çÌDNĚ\_Í, ÂáÍ' À»ÀŠÓàĀ Ā†İeİŠĀ»ÔeÔeØ ¼¼»RĀYçSĚ ¼ÁçIĀ È' ĀŌĀ†İeİnĀSŪā¼¼»TĀöĀ ŌİİiĀSŌā¼ Ā|»R×eÆ=Í, ĀáBiÈäI' À»ĀiĀ ĀŌ README ŪāĒñ ¼¼»ĀŌŌ»Ā »T

### 3.17 BIOS Ū\_Ū ¼^Āý

çYĀŌĀŌçUØ Ā`Í¼Æ È\_ BIOS Ā Ās¼QŌŌŌŌÆ EPROM ĀŌĒ`ØeB ¼¼»Ī Ō=Ç€Ā Ī† BIOS ĀŌĒāÇİ»RçÌDNĚāçèĀ EPROM Ū\_Ū ØŌ»RĀi çY¼QĒ ĀéçèĀāĀYÍ|Ā|ĀŌĀ Ā Ī† BIOS»T ĀiĪ†¼Qç\_ĀŌçUØ Ā`¼ŠÍ¼ŌçĀ çè Flash ROM Āi Ū<Ā† BIOS»RĀpŪ`ŪZĀsĀ ĀéçèĀæç`Ç€ Í' Ō|¼^ĀýÍ' À»»RĀ\çZĀŌĀ Ā Ī†Ī†ĀĀĀŌ BIOS»RĀUĒq¼ Ā\»T

Ā Ī† BIOS ĀŌçŌĀŌsĀ Ī¼ĀēĪ†ĀŌçmĒū»RĀē¼pĪĀ¼QĀā¼ĀÇĒ¼hĪ†ĒŪçİiĀŌİŠB »TĒ' çZĀé çè BIOS Ū\_Ū Ī' À»ĀiĀ Ī† BIOS ĀŌĀĀçŌ»RÇ€Ā È, ĪāĪ†ĀŌ BIOS ŪāĒñŌaŪ\_Ū Ī' Ā»»R ×eÆ¼ŌūÈ' ĀŌŌxŌāĒī»ĪēĀā¼nççYBz¼ĀŌÇæĀŌŌ ĒŌ (<http://www.aopen.com.tw>) ¼Æ Ō (download)»TŪ\_Ū Āv×e×eĀŠĒ' ĀiĀ È, ĀŌ BIOS ŪāĒñÆ çŪ×eĀŌĀĀçŌ»R¼QĒ ĀiŌ»»R È' ççYĒĒ, ŪāĒñĀhŌŌĀiĀāŪp»TĀiĀf»Xçj ŪāĀhÆ AP5TR110.BIN»Ī\_ç\_Ā Ī, Æ AP5T çU Ø Ā`ĀŌ BIOS»RĀpĀĀçŌÆ 1.10»T

ĀŌ ÇæĀQ Ī¼Āē ¼WĀū Çi ¼^Āý Ī' À» »X CHECKSUM.EXE ¼ē AOpen Ū\_Ū Ī' À» AOFLASH.EXE»TĀéçè¼ Ā|×eĒēĀi çY¼ĀŌĀSā|»X

[CHECKSUM.EXE]

Í, Çi¼^ĀýÍ' À»ççYŪĒĒ' ×eŌ' ¼FŌ ĀŌ BIOS ŪāĒñ chechsum Æ ĀpçŪ×e»T

1. ×eĒ Ā CHECKSUM Biosfile.bin  
Biosfile.bin Ā ĀŌÆ BIOS ŪāĒñĀŌĀhŌŌ (Āf AP5TR110.BIN)»T
2. Ī' À»Ī"ĔýçŌ "Checksum is ssss"»T
3. ×e¼ Ō Ç ¼×ĀXĀs AOpen Ō ĒŌĀē BBS ¼hĀŌ checksum "sss"»RÆ=Æ=Æ ĀpçŪ×e»T ĀfĀX¼ççŪ×eĀŌŌŌ»R×e¼ĒĒ Ā Ū\_Ū ĀŌĒēĀĀQ»RĀYÇĀĪ†¼FŌ ¼QĀŌ»T

[AOFLASH.EXE]

È Ā CHECKSUM Ī]Ō•ĀŌ»RĀ\ççYĀéçè AOFLASH.EXE Āi Ū\_Ū Ī†ĀĀĀŌ BIOS ¼WŪT Ī, Çi Ū\_Ū Ī' À»Ī"ç ŪāĒñçUØ Ā`¼ Super/Ultra I/O IC ĀŌĀĀŌŌ»RçY×eĀ` BIOS ŪāĒñÆ çŪ×eĀŌ»T×eĀqŪ\_»XŪ\_Ū ĀŌĀĀĀŪ»RÇ BIOS È\_Ī"ĪbŪēŌmĒŌ»T

1. çè A ŌēŌēçY DOS Đ"Ø ¼ Đ"Ø »RĀYçS×e¼ĒĒ Ā ĀfŌŌĒ`ØeB ŌŌİ' Ī' À» (Āf HIMEM»S EMM386»SQEMM386, ...)»T
2. ×eĒ Ā AOFLASH Biosfile.bin

## AWARD BIOS

Biosfile.bin Å ÄÖÆ BIOS ÚãËñÄÖÀhÖó (Åf AP5TR110.BIN)»T

3. ÀsÒ %[Ñ†ÄÖ BIOS ÚãËñÄú»RÍ' À»Ñ"Ê÷Ê' Æ ÁpÇ€Ë\_ÜÜÄÄÄÖ BIOS À†Ä ÖéÖé%»R×é  
Ù Øó "Y" È\_ÄpÀ†Æ "BIOS.OLD"»T
4. Ú<À†ÜÜÄÄ BIOS ÁÓÌÄÄú»R×éÄ %f "Y" Ð"Ä}ÐzÄ Ù\_Ù »T
5. ÀsÙ\_Ù ÓjÍ' %»RÜYÓ Ñ"Byö%QÄ "FLASHING" ÄÖÈeÄÄ (Ù\_Ù %»RÄÖÈä%uÖf%½  
¿zÝ Ø »T
6. Às "FLASHING" ÈeÄÄÈ ¿½Äú»R×éÝ ÍÄÖ,,Ñ×ÄÝÇÄÑ†Ð"Ø »T
7. Ð"Ø ÄúÄ %f "DEL" ÚpÐz%Ä BIOS Setup ÍvÇÈ»T
8. ÇÄÑ†Ù ÄŠ "BIOS SETUP DEFAULT" Ù ÐÍ»RÈ\_Ä†ÌeÍnÄSÄsÍæÝÇÄSÄÖÄÄÖR»WÄè  
ÄæÈ' %n¿z¿Y×iØyÄÄÇ ¿ ÄÖÍnÄSÇa»T
9. Ù Øó "Save & Exit"»RÄ ÀÓÍ\_%¿¿m¿zÄÄÈi»Z



ÐÍ Äz: ×é %¿Ç€ Às Ù\_Ù ÓjÍ' % (Í\_Æ Ñ ÜYÓ %»Byö  
"FLASHING" Èä) Ý Ø »T ÀfÄXÄdÄÍ\_Ù ÄÓÄÄÍ\_Ý Ø »RÄ†  
ÌeÈ\_ÍjÄ|ÇÄÑ†ÈiÈä»RÈ' Í\_¿ÌÐÑÄ ÍÄ BIOS Flash ROM  
%ÄWT



Í½¿ö: È' %n¿z¿YÄæÍqÀaÖäÄÖÍ' Áá»R È\_ÜÜÄÄÄÖ BIOS  
"BIOS.OLD" ÖxÀo»T

# Ä Ü C Jumper ÍnÄŠÄ

## Ü Øö CPU ÚhÌ%

Í, Ð çUØ Ä`Æ ÈPçèÏ] jumper ÍnÇf»TÈù»QÄÖ jumper Æ Clear CMOS»RÍ, çzçYçèÄ Äë È`È\»iÄÖÈ»Äf»Æ»T

ÍnÄŠ CPU ÚhÌ%ÄÖ% Ä|Æ :

**BOIS Setup à Chipset Features Setup à CPU Clock Frequency**  
(çÉúÄÖÍnÄŠÇäÄÍ 66, 68.5, 75, 83.3, 100, 103, 112 Óa 133.3 MHz)

**BOIS Setup à Chipset Features Setup à CPU Clock Ratio**  
(çÉúÄÖÍnÄŠÇäÄÍ 1.5x, 2x, 2.5x, 3x, 3.5x, 4x, 4.5x, 5x, 5.5x, 6x, 6.5x, 7x, 7.5x, Óa 8x)

INTEL Pentium II	CPU »ÄÍ»ÚhÌ%	ÇÜÚh%	ç•Úh
Pentium II - 233	233MHz =	3.5x	66MHz
Pentium II - 266	266MHz =	4x	66MHz
Pentium II - 300	300MHz =	4.5x	66MHz
Pentium II - 333	333MHz =	5x	66MHz
Pentium II - 350	350MHz =	3.5x	100MHz
Pentium II - 400	400MHz =	4x	100MHz
Pentium II - 450	450MHz =	4.5x	100MHz



ÞÍÁz: INTEL 440BX ÍÓ% Ìi ÍæÄÄçz»pÍÄ 100MHz CPU ç• Úh»Ri03»S112 Óa 133.3MHz ÐäÄë»ÓÍ»Í Ói çè»TÍ, ÄäÍnÄŠÇä»Ä Ðhçi BX ÍÓ% Ìi ÄÖÍhÈ »R çÉúÑ“Ó Ä†ÌèÍ(ÄÄÄÑ)Èq»T

## Jumper ÍnÃŠÄ

---

### Ù Øö CPU Ó,,Ú½

¿ÛUØ Ä`%pÎÃ Pentium II VID ¿nÉú»R¿z¿YÀöÊäÊÖÎ CPU Èð%uÓ,,Ú½RÃp»uÍ Às 1.3V Ä 3.5V %ÁD»»T

### Clear CMOS

<b>JP14</b>	<b>Clear CMOS</b>
1-2	¿ÛÉqØøÁQ (ÓŠÍn)
2-3	Ï^Ê½CMOS



Ï½¿ö: ÀfÃXË' ÄÖÄ¿ÏÈÀnÆÉDhÚhÁíÑ EÖÄeÏ|Ä|D"Ø »R¿z¿YÏ^Ê½ CMOS»RB Ä¿ÏÈÀoÄ ÓŠÍnÄÖÄÆÖR»TÈ½%WÄé¿è JP14 %Á¿•»R È' %n ¿z¿YÀsD"Ø ÈÄÄ %f <Home> ÄiÏ^Ê½CMOS»T

### AGP Turbo

<b>JP23</b>	<b>AGP Turbo</b>
1-2	Disabled (ÓŠÍn)
2-3	Enabled

# Ä Ü A ÈqÂ¼Ë÷ÝUDÊÒë

**Q:** ÀfÀ Èé%Ú1BIOS1ÄÄzÖP

**A:** AOpen çUØ Ä`ÄÖ BIOS ÄÄzÖÑ“ByçöÀs POST (Power-On Self Test) İvÇËÄÖzÄ%h  
Ä%»T%QË ÄíÖ»»RË çY R D”Új »RÄvÇËË çUØ Ä`ÄÖÖ»RÄüÇËÄyË % İÜ»TÄiÄf»X

AP53/AX53 R3.80 Oct.22.1996

↖ BIOS revision

**Q:** 1ÄfÀ çë1PCB %hÈé%ÚzUØ Ä`ÄÖÄÖÖÖaÄÄzÖP

**A:** AOpen çUØ Ä`ÄÖÄÄzÖÖÖxiÑ“ÖëzöÀs PCB %h»RÄpË Ä»ËË REV:X.X»TÍ„ÈqË Às  
AOpen ÖëÖ.ÖazUØ Ä`ÄÖÖÄ Ä` »TÄiÄf»RAX6L REV:1.2»X



**Q:** %ËÖ Ë MMX»Y

**A:** MMX Ë Ñ+çQç Intel Pentium PP/MT (P55C) %ëPentium II CPUÄÖÍ Ä`ÄyÄ ç`  
(single line multiple instruction) ÄöÍ»RMMX %ÄÄ ç`ÄsÄyİTB ÜÍçè%hÉdÄ`ÄÍËP (Äf  
3D çüb Ö%ÖÍ»S3D ÇÍËP»SÍ ÈeÑ“PÍÖaÖ~)»TÄyİTB ÜÍçèİ`Ä`ÇjÄéçè MMX Ä`ç`Ë`  
çz%ÄËÄ İx%ÄQËËÉú»TÄò ð AOpen çUØ Ä`ÄÄÍÄö%ÖÜ Ö„Ñx%PİÄ P55C»RÄY%ÄÖ÷  
ÇËËËË %ÄÍÖ% Äí%PİÄ MMX CPU Äj çzÄéçèÄÖçQçnÉú»T

**Q:** Pentium II ÀsË Ä`ËËÉú%hÄÍÄy%ÄÄÖÄ İxP

**A:** ÄöÇaË Ñ+çQç ÄÖ CPU ÈÍÄíÈÍ%W% Ö »RçY%ÄÖÍ ÖiİİÄXİ`ÄéË`ÈİÄËËèÄi»T  
DRAM : 64MB EDO Äè SDRAM  
HDD : Quantum Fireball 1280AT  
VGA : Matrox Millennium VGA, 4MB, 1024x768 24bit, 85Hz.  
OS : Windows 95 4.00.950

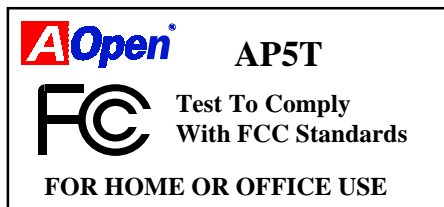
## ĚqĀ¹Ě÷YUĐĚÒě

CPU	MB	Chipset	Winstone97 Business	Winstone97 High-End
PP/MT-200	AP5T/AX5T	Intel 430TX	48.3	21.9
PP/MT-233	AP5T/AX5T	Intel 430TX	50.5	23.6
Pentium II 200	AX6F	Intel 440FX	45.3	24.1
Pentium II 233	AX6F	Intel 440FX	48.4	26.5
Pentium II 266	AX6F	Intel 440FX	50.8	28.2
Pentium II 266	AX6L	Intel 440LX	54.5	30.8

ĵěĵY%hĀĀĀ Ě ĀoĈæĵzĵYĪ, Ī' »RĀs Business Winstone97 ĀĀĪ Ōi ĪĪ ĀX%»R Klamath-233 % Ěp PP/MT-233 ĀYĀdĀĪĀy%ŌĚġĀ' »WĀ Ās High-End Winstone97 Ā, ĀĪŌ ŪĪĀĀĀ Ī' »TĪ, ĵzĚúĚ ĀnĀĚ Klamath ĚSŪZŌSŌüĀĀĒú% Ō ĀĚ»RŌRĀi ĵěĀiĚĪŌě ĀěĪSĪ' »T

### Q: %ĚŌ Ě FCC DoC (Declaration of Conformity)?

A: U, T1Ě %QŌŏNġĀŌMTTĪĪĤĚ Ō' YĪ ŌěNĀ»RNġŌěNĀĪĤĤSŪZĵ 10ġĪĪĵ ĚĀfĵUŌ Ā': Āsĵiĵě U, T1ŌěĪŌĪ9Ī, x, Ī ĚĀ»RĵĪĐNĪŌĚ%Ō ĪüĀŌŌĵŪ »RĀpĪ Ōi ĪĤxĵĚĪEHITWc1BF?DBTĵUŌ Ā' %ĀĪ, T1Ī Ōi %ĐĀĪĚMTTĪĪ ŌiĀ ĵĪĀĶ' »RĀfĀXĵUŌ Ā' Ī, ŌĪĪ, T1Ī Ōi»RĪĵĵĵĵ ĵU Ō Ā' ĀŌN^ZĪŪ ĚxĀUĚqĀT»RĀi ĵYĚ' ĵzĵYĵěĵ Ā Ā × ĀŌŌ ĪüĚĀĵĀ\Ě ĵěĚĀĀQĀŌŌ Īüĵ ĵz»TĀŌ đR' fvĚ1Nġ%QĵĵĵUŌ Ā' Ī' %SĪ, ŌĪĪ, T1Ī Ōi»R%ŌěĀĵĚĚĪ, T1ŌěĪŌŌĀĵŌ»X



### Q: %ĚŌ Ě Bus Master IDE (DMA mode)?

A: ĐĀĪěĀŌ PIO (Programmable I/O) IDE Ō÷ĈĚ CPU Ā ĀfĀĪY IDE ĵ Ī»ĀŌĚ Ā ĚĀ ĀQ»RĵnĀRĪĵĀ÷Ō Ě ĚĀĀQĀŌĀŌĀ»TĀĚĪ %Ō CPU ĀŌ%ĀQĈġŌü»RBus Master IDE ŌaŌ~ ĵzĀ×ĚĪĀġĀ Ě ĚěB Ō ĚĚ»R%ŌŌ÷ŌxĵěCPU»RĵzĵzĀě CPU ŌSĀQĀ^Ě ĚěB ŌĀ IDE ŌaŌ~ Đ»ĀŌŌ ĚĀĐĀĚvĀĀĚĀĐzĀ »T%ŌŌ] Bus Master IDE Ō÷ĈĚ Bus Master IDE BiĚĀĪ' Ā»Ā^ Bus Master IDE ĪSŌěĀĪ %ŌĪĀ% ĵzĵŪĚqĚĀĀQ»T

## ĚqĀ1/Ě÷YUĐĚ0ē

**Q: ĚĚ0 Ě Ultra DMA/33?**

A: Ī, Ě ĚQ0ēNġĀŌĪhĚ »RġōĀŌĀsĀ Ī× IDE ĪŠŌēĀŌĐĀŪ Ī»RĐĀĪē%Ā PIO Mode ĐĀĀēġē IDE ĚĚĀ ĀYŌŌ%Āh×ġ (Rising edge) ĀĪĐĀŪ Ō ĚĀ»RDMA/33 ĀyġzĀĀĚĀēġē%h×ġĀ^ Ěf×ġ(Falling edge) »RĀNĀŌŌ ĚēĐĀŪ Ī%Ě PIO Mode 4 Āē DMA Mode 2 ĀŌĀŪĈŪ»R (16.6MB/S x 2 = 33MB/S) »T

%Ā ĀTġi IDE PIO Ā^ DMA Mode%ĀĐĀŪ Ī»RĀN IDE ĐñĀĚĀĚ 16 bit»RĚĀTĀŌĐĀ Ū Ě 2 byte»T

Mode	Clock per 33MHz PCI	Clock count	Cycle time	Data Transfer rate
PIO mode 0	30ns	20	600ns	(1/600ns) x 2byte = 3.3MB/s
PIO mode 1	30ns	13	383ns	(1/383ns) x 2byte = 5.2MB/s
PIO mode 2	30ns	8	240ns	(1/240ns) x 2byte = 8.3MB/s
PIO mode 3	30ns	6	180ns	(1/180ns) x 2byte = 11.1MB/s
PIO mode 4	30ns	4	120ns	(1/120ns) x 2byte = 16.6MB/s
DMA mode 0	30ns	16	480ns	(1/480ns) x 2byte = 4.16MB/s
DMA mode 1	30ns	5	150ns	(1/150ns) x 2byte = 13.3MB/s
DMA mode 2	30ns	4	120ns	(1/120ns) x 2byte = 16.6MB/s
DMA/33	30ns	4	120ns	(1/120ns) x 2byte x2 = 33MB/s

**Q: ĚĚ0 Ě ACPI (Advanced Configuration & Power Interface) Ā^ OnNow»Y**

A: ACPI Ě 1997(PC97) ĀŌ%QŌēNġĀŌŌ„N×ŌŌĪ·ĪhĚ »RĀpġōĀŌĀsĀ Đz%QĀSŌxġēĀQŊ•Āġ Īē(OS)ĀĪŌqĀŌ„N×ĀĪ%ĀĪ·ŌġĐĀĪē Green PC BIOS»RĚŌWĀ ĀŌġōĀŌ Chipset Āē Ultra I/O ĪŌ%Ō·ĪĪĚēŊĀ%ĐĈĚ (Standard Register Interface) ĪŌĀQŊ•ĀġĪē (Āf Win98)»RĀYġz%ĀĀQŊ•ĀġĪēĪ ŪhY ĪĚĀĀ Īp%ĀĀĪŌ%Ō„N×%ĀġnĚŪ»RĪ, NĪĀĪ Ě ĀĪŪZ ŌĪŪYĪ»Āġġē PnP %Ā%ĐĈĚ (Register Interface)»T

ACPI ĪhĀSĀēġēĪĪĚ,Ā»Ō„N×Ā Ūp (Momentary Soft Power Switch) ĀĪĚĚĀ ġēŌ„N× ĀĚĪf%ĀĪĪ»RĀNĀŌġĪĐNĀs ATX Form Factor ĚġĀĪ Momentary Soft Power Switch ĀŌĀēġē%Ě%ĚŪŌ BýĀpĚBĀX»TACPI ĪĚĪ} %Ō%QĚ Ō„ŌĪēġēĀĚĀŌĪ»ġ ġzĚŪĚ ġēġĐŪĀ» Ō„Ō% (Notebook) ĀĪĀĪĀ ĀĪĀĪĀŌŌtNĪb "OnNow"»TĪ, ġnĚŪ%ŌĪMĀĚĀ%hĀŌĀ %h%QĀŌY Ō ĀvĀŌ%ĀŌĪvĈĚ»RĀĪ%ġēĀŪĀ ĚĀĐ»ĪġĀĚ„Đ"Ō ĚĪĚĀ (Bootup)»RĐz%Ī Win95»RĪ^ĀŪ Đz%Ī Winword»TĀēġē TX ĪŌ% %ĀĀŌ đ AOpen AX5T»RĀġ %pĪĀ ACPI ġnĚŪ»T



## ĚqĀ¹Ě÷YUDEÈë

### Q: ĚĚ Ě ATX Soft Power On/Off Ā^ Momentary Switch?

A: ATXĪhĚ ĚĀŌĪĚB ĚiĒā (Soft Power On) Ě Ē ĺUŌ, Ē×Y ĪĒĒ»RĒŪĪ¹ĒĚ%QÇiĀ=ĀcŌ, ĒĒ (Standby Current) %Ā%QĒdĒ ĀoŌ »RĺĚĀ ĪĺĀ=Ī Ū Ō, Ō¹%ĀĀĀĺ (Wake Up Event)»T% ĀfŌ»Ě ĺ×Ī Ū »SŌaŌŌŌ Ī Ū ĀĚŪĚÇĪĪ Ū »T%QĒ ĀiŌ»»RĪĚŪĪ ĀŌĪSĪ' Ě Ī¹ĒĚĪĺÇiŌ, ĒĒĀŌ, Ē×%ŪĪĀĀoŌ »RĀnĀŌĪĪĒ, Ā»Ō, Ē×D"Y (Momentary Switch) ĺZ ĺĚŌ, Ē×ĒĚŪĪŌŌĀŌĪĚB Ō, Ē×ĒĒĀ Ō÷ (Soft Power Control Pin) D"ĒiĒĚY ĪĒĺUÇĚŌ, Ē×»TĀŌ ðAOpen%ĀATXĺUŌ Ā Ā»%ĪĪĀMomentary D"Y ĺSAX5T/AX58/AX6L ĒĪ Īn ÇĴĀĪŌāŌŌŌ Ī Ū %ĀĺmĒŪ (Modem Wake Up)»T ĪĚB Y Ō (Soft Power Off) ĀyĒ Ā ĺĚĪĚB Y ĪĒŌ ŌŌ»RWIn95ĀŌŌāĒĒ (Shutdown) ĺmĒŪĺZĪĺĚĀĪŪĀĪ Ē' ĀŌĺUŌ Ā ĒĒ ĄP %ĪĪĪĚB Y Ō ĺmĒŪ»TĀŌ ð AOpen ĺUŌ Ā %ĀAX5T/AX5TC/AX6F/AX6L/AX6LC/AX6B/AX6BC Ē %ĪĪĪĚB Y Ō %ĀĺmĒŪ»T

### Q: ĚĚ Ě RTC Wake Up Timer?

A: RTC (Real Time Clock) Ě %QÇiY Ā Ō, %Ū ĀŌŌāŌ»RĺZĪYŪYĒĒĀ Ē†Ā†ĪĚĀŌ% ĪŪŌā ĒāD»TWake Up Timer Ī\_ŌĪĒ Ō÷Ōr%QŌā»RĪnĀSĀŌĒĒā»%QĀ »RĀ†ĪĚĪ\_ĀŌĒāD"Ō »T Ī, ÇiĒāD»ĺZĪYĪnĀSĒĒĒĒĒĒ%Q%Ē%ĀŌĒ ÇiĒāĀ »ĒnĺZĪYĒ ĀTÇi% ĀŌĒ ÇiĒāD»TĒ' ĺZĺĚ BIOS setup -> Power Management -> RTC Wake Up Time»Ī ŌŌ Enable»TRTC Ē ĀTĪ ĺUŌ Ā %ĀŌŌĚĒāŌāŌ»RĀ Wake Up Timer Ā, ĀY%ĒĒ %QŌŌĚĒāŌŌĪnÇĴ»T AOpen AX5T/AX5TC/AX6F/AX6L/AX6LC/AX6B/AX6BC Ī¹ĀĪ%ĪĪĒ RTC Wake Up Timer»T

### Q: ĚĚ Ě Lan Wake Up?

A: Lan Wake Up Ē %QŌŌĺZĪYB Ē'Ē, ŌŌŌ÷ĒĒĀ Ō ð %n PC (ĀĵĀĚĒ ĪSĀ Y Ō ĀŌĀĒŌR) ĀŌ% Ā»TĒ client Ō÷Ā†ĪĚY Ō Ēā»RĒ' ĺZĒ, ŌŌŌ÷Ī' ŌĴŌ ŌŌĪĚB DāĒv%QÇi wake-up frame (ĀĚ Magic packet) ĪŌĺĀ»TĀŌĒĒ client Ō÷Ē"ŪāĒĪĪ, Çi frame Ē ĄPĀ†ĀĪĺŪ×ĒĀŌ MAC Ā Ā"»RÇĵĀĪĀŌŌŌ»RĀĪ Ū Ā†ĪĚ»RĪ\_ĀĴĀĀĚĺĚĀĀĀ %ĒD"Y ĺĪD"Ō ŌŌ%QŌā»TĒĪ %ĴĀĪĪ\_ĺĚŌ ŌŌĪĚB ĒĪ%Īi»RĒ Ā ĄPĺĀĀŌ%ĀQ%Ē»T

### Q: ĚĚ Ě AGP (Accelerated Graphic Port)?

A: AGP Ē %QÇiY Ā PCI DnĒĒĒĒĀŌŌ†%DÇĒ»RĺUÇĚĺŌĚĀSĀ ĒĀĒĒĒĒ 3D YŌŌĚĀŌŪĪĺĚ»R Ā Dā%ĪĪĒĒ ŌĚB BĀŌxĒĒĀĀQ (Memory Read/Write Operation) Ā^%QŌ %QDāŪ (Single-Master Single-Slave one to one only)»TAGP ĀĚĺĚ 66 MHz Clock ĀŌ%Ī×† (Rising Edge) %Ē%Ĵ×† (Falling Edge) ĀĪDāŌŌĒ Ēā»RĀXĒĀŪ Ī%ĒĒ 66MHz x 4 Byte x 2 = 528MB/S»TAX6LC ĀĚĺĚĀŌ Intel LX ĪŌ% Ā\ĺZ%ĪĪĒ AGP ĺmĒŪ»T

## ĚqĀ1/Ě÷YUDĚ0ë

**Q:** Ās 440BX ĵU0 Ā`%h AGP Ā0ŪhĪ%ĚĚĀ ?

A: ĵYĀ0 AGP Ā0ŪhĪ%Ī%Ě Ōa Intel 440LX Ī0% Īi Ā0Ā»Rĸj 440LX Ģn 75Mhz»RĀy AGP %nĸĚĢn 75MHz»TĀ ĀnĚĚ Intel 440BX Ī0% Īi ĵzĵY%pĪĀ 100Mhz ĵ•Ūh»RĪ, %Š0xĢh ĵi AGP Ā0ĪhĚ %W»RĀi ĵYĀ0ĸæĵ ĪĢŃĀūĀpŪhĪ%Ā`Ā Ās 66Mhz»RĪ ]×ñĵU0 Ā`Ā0ĵ•ŪhĚ Ā »RĪ, ŌaĚĪ% Ō ĚūĚ ×eĀ`ĀĵĪeĀ0YĸSĀĀ»T

**Q:** ĚĚĚ0 Ās Windows895 Ā00a0-00Ī`ĸ %Ě»RAGP VGA ĵu0a PCI-to-PCI bridge (Āe AGP bridge) N`Ā×ĢĚ ?

A: Ī, Ě ĵĚĚĀ0ĀĚĚ»TĀnĚĚ Windows'95 ĵ0%ĵpĪĀ AGP»RĀi ĵYŃ`ĀĪ0•ĀaĀ0Ě»Āe»T%½ Ō]»RĪ, ĀY%Ā`0%ĚeĀĵĪeĀ0ĚĚū»RĀi ĵY%Ā0÷Ā{Ě{ĵyĀQĸñĵŪ»TĀ÷ Microsoft Windows 98 ĚŪĵiĀū»RŃ N`0eĀĀ0Ě÷YU»T

**Q:** 0Ā00Ā0Ās»QBIOS Setup %ŠŠ0xĢ`Ěi %W»QAPM»RĀ ĚĚĀ Windows 95 ĚĚĀ ĵ<0aŪ0Ě ĀdĀĪĸyĵö»`Ō, N`00Ī` »%0éĵ0Ā` ?

A: Ě÷YUĚ ĵiĀsĚ`ĀŠ0a»QWindows 95»QĚĀYĵ0Ěi ĵe»QAPM ĵnĚū»TĀi ĵYĚ' ĵĪĢŃĀs»QBIOS Ā0 APM ĵnĚūĚi ĵeĀū»RĸĀŃĀĀRĀŠ0a%QĀ0 Windows 95»T

**Q:** ĚĚĀ ĀĵĪeĀs Win95 %ĪĪ|Ģz%Ī suspend ŌiĀ?»

A: Ī, ĀĪĵzĚūĚ 0WĀnĀ CDROM ĪnĀŠĸa»RĀnĚĚĀs»QVin95 %ĵCDROM Ā0"Ā0ĚĀĀŠĪ"Ī,, Ā0" Ū ĢĪŌŠĪnĸĚĚ Ģ"ĚiĀ0»RĀi ĵYĀĵĪeŃ`Ā Ģ 0aĚĚĚ' Ā0 CDROM»RĵYĀĀĪCD %Ā %ĪĚĀĵzĵYĀ0ĚĀĚ Ā »RĀiĪ, Ě N`0%ĚeĀĵĪeĢz%Ī »Qsuspend ŌiĀ»»TĸĚ0eĀĪ, ĸiĚ÷YU»R ĵzĵYĢz%ĪĚĚĀ ĵ<e ĀĵĪe è 0a0-00Ī`ĸ è CDROM è ĪnĀŠĸa»RŪ ĪĚ"Ā0ĚĀĀŠĪ" Ī,,Ā0" Ū ĢĪĪĵĵz»T

**Q:** Ā00iĀĵĀ ĀaŪp Windows 95 Ā0ĀĀĵ0Ā` ?

A: Ě' ĵzĵYĀeŃi ĵY%ĪĀ0ĀSĀ[ĀiŪaĪ Windows 95 Ā0ĀĀĵ0»X

1. Ā Āū%ĸ»ĚĚĀ ĵ<»%ŠĀ0»ĀĵĪe»%0éĵö»T
2. Ū Ā »`%QĚ »%0eĢi»T
3. Ě,,»ĀĵĪe»%0eYU%ĸ»RĚ' ĵzĵYĪ^Ń»Ā0Ě÷ĵi Windows 95 Ā0ĀĀĵ0»X

4.00.950	Windows 95
4.00.950A	Windows 95 + Service Pack or OEM Service Release 1
4.00.950B	OEM Service Release 2 or OEM Service Release 2.1
4.00.950C	OEM Service Release 2.5

## ËqÂ½Ë÷ÝUDEËë

Cj È' Ì' ÀsÈ À ÄÖÆ OSR 2.1»R¿zÀsÈÈÄ ¿<ÄÖ»^Ñ†Öh/ÌÖÈ½Ä' À»»%ÖæÆ-Ä "USB Supplement to OSR2"»T¿¿¿»RÀs Windows\System\Vmm32 Ò ÈàÄÄ»RÚaÆ Windows\System\Vmm32 »ÄÖÜaÈñ Ntkern.vxd Æ ÁpÆ 4.03.1212 ÄÄÄ»T

**Q: LX/TX/BX ¿UØ Ä`ÄÖÄ¿ÌÈÄSÖaÀ€ Win95 Äu»RÀs»^ÖaÖ-ÖöÌ' Ç »%fÑ"¿iÌ' ÌiÇi"?"**  
ÌBÖÖ»RÄöÜÍÖiÀfÄ È È½Ä, ÄáÈ-ÖÖÄ`»Y

A: Í, ÄaÈ-ÖÖÆ ¿eÄ Win95 Í]Ä|¿Ü×eÜ Ýe LX/TX/BX ÍÓ% ÌiÄiÇa»RAj ÄeÄfÄÖ»RÈ' ÄÖÄ¿ ÌeÄaÍ^¿z¿ÜËqÓSAQ»T»Ä]È Ä ¿QÄaÄe¿eÄaÄÖÇÈÄU»RÄöÇa»nÍ½e»WQÇi AOchip %ÄÄyÍ' Ä»R¿zÜÉÁfÈ' ÖeÄ^Í, ÇiÈ-ÝU»TÍ, ÇiÍ' Ä»Äe¿e»hÄUÈqÜÌÄ »RÄi¿SÖR¿eÄ ÄiÄÍ ÄÖ LX/TX/BX ¿UØ Ä`»RÄi¿¿^ÇÇÄSÄ AOpen ÄÖÌ½Ä»T¿¿ÇÈÈ' BÈÈ, Äe¿e»R¿z¿YÄö ¿e»fÖ ÖaÌÌÍ, »T¿¿¿·CjÈ' ÑbÇÈÄe¿e USB ÖaÖ-»RÚö¿ÌDNÄÍ USB BiÈÄÍ' Ä»»RÍ, Às Win98 »È\_Ñ`Ì½Äe»T

**Q: ÄfÄ ÄSÖa Windows 95 USB BiÈÄÍ' Ä?»**

A: Cj È' Æ Win'95 OSR 2.0 ÄÖÄe¿eÄæ (.950B, Bý¿öÆ "PCI Universal Serial Devices")»R×e¿ È,, Microsoft Ö ÉÖÄèÜaDcÓ,,Ö½ÄÖ¿ÈiÍSA È, Microsoft USB supplement (USBSUPP.EXE) Í, ÇiÍ' Ä»»RÄSÖa»ÄÄu»RÈ' Ñ"ÀsÈÈÄ ¿<ÄÖ»^Ñ†Öh/ÌÖÈ½Ä' À»»ÖæÆ-Ä "USB Supplement to OSR2"»ÄSÖa»ÄÄu»RÄÈ À AOchip.exe »R ÄfÄÖÑ"Às»^ÖaÖ-ÖöÌ' Ç »%fBý¿öQÇi »^USB Controller»%T

Cj È' Æ Win'95 OSR 2.1 Äe 2.5 ÄÖÄe¿eÄæ»RÄy¿^ÇÈÄe¿e AOchip.exe Í\_Äe»T

ÍæÄu»RCjÈ' Æ Win'95 ¿ÜÄ»ÄÄÄÖÄe¿eÄæ (.950 or .950A)»RMicrosoft ¿ÖÄVÜöÄdÄÍ½ ¿iÖeÄ^ÄÖ% Ä|»RÄ ÖSÇf Windows'98 È\_¿z¿YÖeÄ^Í, ÇiÈ-ÝU»T

**Q: »ÈÖ Æ jumper-less ¿UØ Ä`?**

A: AOpen AX6L/AX6LC/AX6B Í½Æ ÈD¿e jumper-less ÍnÇf»TÍ, Öö¿UØ Ä`¿z¿YÄöÈaÈÖ Ì CPU Ö,,Ü½»RÄÝ¿S¿z¿YB È' Às CMOS Setup »ÄnÄS CPU ÜhÍ»»RÄiÍ]DNÄe¿eÄ jumper»TÄi¿SÖ ÖöÄÖ CPU Ö ÈeÑ"Ä†Ä Às EEPROM »RÖf»Q CMOS ÄdÖ,,ÄaÈa»d ÄeÈÖ¿Ü×e CPU ÜhÍ»Èa»RÈ' »nÍ]Ö+¿ÌD"Ø ÌüÜaÆ»RÄiÍ, »n¿ÜÆ »QÈ jumper-less ¿U Ø Ä`Íæ»ÄÄÖÄr% »T

**Q: »ÈÖ Æ battery-less ¿UØ Ä`?**

A: AX6L/AX6LC/AX6B ÖS¿e»WEEPROM ÖaÉdÈ ×^Ö (»S¿i×eÈ^Áb)»R¿z¿YB È' Ü<Ä† ¿ÖÄVÄÖ CPU Öa CMOS Setup ÌiÖR»R¿SÍ]Ö÷Äe¿eÖ,,ÄÜ»T¿^ÇÈ¿UÖ,,Ñ××^ÄÍÍ»Íö»R RTC (real time clock) »Ä¿z¿YÄ Þ ÓSAQ»TCj CMOS Ö ÈaÑ\_¿·Ü ¿½»RÈÈ' ¿ÇÈ¿e EEPROM ÇÄÑ†Ö »Ä CMOS ÌiÖR»RÄ†iÈÄ\Ñ"ÄoÍpÄ ¿ÜÈqÄÄÖR»T

## ÈqÀ¼Ë÷ÝUDÈÒë

**Q:** ÀéçèÀðÌpÀ»À`ÚZÌÑÀÒÀ€Í\$ÆÈÀ ?

A: ÐàÌèÀÒÒÌÛpÀ»À`ÚZÌÑ (pico-fuse) Çj Û\_ÑÌ»RÀ\Ò÷ÇÀÑ†Ò~ÌÀ%QÙ »TÍ, ÇìÈàÁQçÌÐÑçè È^Ñ•ÀÒÒ Çñ%Ì' È%ÉúÈÌÀ »RÈÌÐ`Èà%ðÒ÷ÉìÐ`ÝSç`•ÀÒÀÀçÒ»TçèÀ `ÆÀó%ÁpÐzÀS»R AOpen çUØ À`%\$Ð" }À}ÀéçèÌæÑ†ÀÒÀðÌpÀ»À`ÚZÌÑ (Resettable fuse)»RÍ, Òò PolySwitch ÉúÁ ÀÌÈPÀrÀ`BQÈ`ÀÒÛp×]Òa USB Ó,Ò »TN ÀÌÈ ÀzÓ,,ÆÈ½çÇÈ»RÍ, Çì PolySwitch Ñ"ÀsÑçÌ`ÀÒÈàÐ»%ÐÓWÀ ÈÁÁ Áó»RÍ`ÀúÀsÆ ÀzÈ ç`Àú»R%ðÀðÈàÀÒÌpÀÁÇ Á}ÀÒÀÆÒR»T

ÇÈçç%Ì%pÌÀ USB ÀÒÒ Ì»ÀóçmÉú»RÍæÀ€ÛóÆ ÀéçèÌ, ÒòÀðÌpÀ»À`ÚZÌÑ»T

**Q:** %ÈÕ Æ ÀyÒÇÀ‡ BIOS?

A: ÆÈÌ'Àè AOpen ÀéçèÀæÍæÀèÀÒ%pÌÀ»RAOpen Í€B Ð"Ì, Í»À ÒxÓ]¼ÁpÀÒÒÒÒi»RÌñÁ Á[ÀR%WÀìÁÍÀÒÈ÷YU»RÀÁçmì, ÈzçìÌ'ÀèÀyÒÇÀ‡ÁÁçÒ BIOS ÀÒÀóÍ\_»T

È`çzçYÈ,,ÁóÇæÀÒÒ ÈÒ%Ò È`ÁìÇÈÀÒ BIOS ÁÁçÒ (ÓÍÆ %%%) »RÇÀÑ†Û\_Ù`À È`ÀÒçUØ À`%h»TçYÁúÐz%l BIOS Setup ÌvÇÈÈà»Rç`ÇÈÀ %f F9 Á Ûp»RÍ\_çzçY%ÌÌÁÀÀ%%%ÁÒ ÌvÇÈ»RÀRÀ %QÀÒ F9 Áj çzÀÒÀ Çó%ÌvÇÈ»T

ÆÁYÍ, ÇìÀóÍ\_Ò È`ÀsÍnÁŠ BIOS ÐÌçòÈà»RÈ`ÁÍÁìÁfÉ,,»T

**Q:** %ÈÕ Æ ÝŠB ÒàÈÈ (Hardware Monitoring)?

A: AOpen ATX (AX5TC/AX6L/AX6LC/AX6B) çUØ À`%pÌÀ%WÀyÒòÀÌçèÀÒÌŠB ÒàÈÈçm Éú»X

1. Ó]Ò,,ÆÈ`BQ: ÀyÁÍ CPU Èò%òÓ,,Û%Ó]Ò,,ÆÈ`BQÀÒçmÉú»RÈ†ÁìÇ`ÁìÀÒÒ,,Ñ×ÀèUÍ ØÒÈ\_çzÌ'Àèç`%À`ÀÒÌ`Ò`À`BQÈú%»T
2. Á†ÌèÓ,,Û%ÒàÈÈ: Á`Ð`ÒàÈÈÁ†Ìè%ÁQÒ,,Û%WÀaÆUÆ`ÁpÁÍÁ†ÌèÓ,,Û%ÐhÓ]½Ðç ÒèÑá ÀÒÈ»Àè»RçjÁÍÍ, ÒòÈ»Àè»RÌ\_Ñ"Òxçè%ÁyÌ'`À» (ÁìÁf Hardware Monitor Utility) Ó`ÀéçèÀæÍ, çìPÌÁzÈèÈÀ»T
3. CPU Ó]Ò`À`BQ: Ñ`CPU ÑBÁñÈÁÁ`ÓŠç`ÀSÒ,,ÀÒÑBÁñÈà»RCPUs Í†ÁñÈ\_ÀðÈàÇÈ ÁT»RÁYçSÒxçèUÍçèÍ€B`Ì, çìPÌÁz»T
4. ÇÑÈÈÒàÈÈ: çUØ À`%hÁÍÁúÇìÇÑÈÈÌÛj»R%QÇìçzçèÁ`CPU ÇÑÈÈ»RÀìç†%QÇìÁy çzçYÍÒÓ`ÌúÀÒÇÑÈÈÀèçè»TÍ'Ó]ç`ÁyÌ'`À» (ÁìÁf Hardware Monitor Utility)»RÁ†ÌèÀsÇÑÈÈYrÈÒÈà»RÈ\_çzÀðÈàÌ½çìPÌÁz»T

**Q:** %ÈÕ Æ Hardware Monitoring Utility (AOHW100)?

A: Í, È`çè AOpen ÀyÌ, çìÁìÀÒÌŠB ÒàÈÈÍ€B »RçzçYçèÁìÒàÈÈÁ†ÌèÓ,,Û%»SÑBÁñÒaÇÑÈÈ Ìç»RÁpÚaÀhÆ`AOHW100»RÁp%¼`100`À`çòÁÁçÒ»RçYÁúçzÈúÑ"ÁÍÁ`Ñ†»TÈ`çzçYçè ÚYÁ`ÀÒç`Òè%`%ÁèÁóÇæÀÒÒ`ÈÒÀ`È, Í, ÇìÍ€B »T

## ËqÂ½Ë÷ÝUDEËë

**Q:** ÆÈÀ Àð ðR`fv€¿UØ Ä`Äé¿èÍmÁyÓ,, Òè19Electrolytic) Ó,, ÈvÁi ¼½Äé¿èÄk× (Tantalum) Ó,,ÈvP

**A:** Ó,, ÒèÓ,, ÈvÁ•× Äæ00ÄÄ00%è0†ÈiÈ†ÌÄÑ¿¼»T¾QÉ ÄiÓ»Äk× Ó,, ÈvÄ0Ä•× ¼ Ó,, ÒèÓ,, Èv Äè»RÀ Ò È Ä DbÄ•× Ú`Ä`Ä00,, ÒèÓ,, ÈvÄ, ¼ Äk× Ó,, ÈvÇÈÄè»TÍæÄÇ AOpen ¿UØ Ä` CPU ÈáE Äé¿è 100uF Ä0Äk× Ó,, ÈvÄiÇÈÄTICPU Ó,, Ú½0ÄÄz (voltage ripple)»RÄ Ñ† Ä0Ä0Í\_Ä DzÄÄ¿mÄ0ÈÜ¿i 1000uF Ñ¿ÄT ESR (Equivalent Serial Resistor) Ä00,, ÒèÓ,, Èv»RÄp ESR ÄÈ 0.15 ohm»RÄiÄk× Ó,, Èv¼èÄiÇÈD.7 ohm»T¿Y¾FE ¿ðÄvÄð ðR`fv€ Äé¿èÄ00,, ÈvÍhÈ »X

- Äk× 111111111 SPRAGUE 100uF,  
Part number 595D107X06R3C2T,  
Max ESR is 0.7 at 25 degree 100KHz.
- Ó,, Òè111111111 SANYO 1000uF,  
Part number 16MV1000CG,  
Max ESR is 0.15 at 20 degree 100khz.

DgÁyÓ,, ÈvÄY¾¿\_Ä CPU Ó,, Ú½QÄŠÄ Äè»RpfÍÌsÓ,, ÈvÄ0Ä Ò~»TÖ ×eÄ0¼ Ä|ÆÈÄé¿è Ú`Ä†Ä¿¿öÄz00Ä×ÈÍÍ D,, CPU Ó,, Ú½»RÑ Í^»RÄé¿èÄæÄöÝ Í, ÓaÈÍ»TÍ, ÚZ AOpen Ä0 ¿ Û ÍEInte»SAMD ¾è Cyrix Ä0ÍnÇfÍh×»RÄY¿SÍ,, Ó] Inte»SAMD ¾è Cyrix Ä00' Ýi»T

**Q:** ¾È Æ PC 100 SDRAM?

**A:** Û Í^ 440BX Í0¼ ÌiÄi¾pÍÄ 100MHz ¿•Úh»RÄ DáÌèÄ0 FPM Óa EDO DRAM Ä, Í] Ä|ÄsÍ, òó¿•Úh¾¿¿ÜÈqÓSAQ»TÄÈ¾W¿c¾U¾pÍÄ 100MHz ¿•Úh»RIntel Í½i¾WQÇi "PC SDRAM Specifications" ÄiÈÍÄÈÑ†¾Q¿\_ SDRAM ÍnÇfÄ0Äæ00»RÍ, ¾nÍ\_Æ Äi ÛnÄ0 PC 100 SDRAM ÍhÈ »TÇÈÄs100MHz ÄæÄ0Ä ÈÄÄ0¿•Úh¾¿»RÈ, Ä Ò ÄèÄ0ÈPÈú0aYÇ ÄŠÄ»RÄoÇæÈ{ÈaÄ0PÍÈ' Û ¿èÌBÄi PC 100 ÍhÈ Ä0 SDRAM»T¿Y¾fÍ\_Æ AOpen Í òiÓ]Ä0 PC 100 SDRAM»X

Size	Vendor	Model	Single/Double	Chip Count
16M	Micron	MT48LC2M8A1-08	x1	8
16M	TI	TMX626812BDGE-10A	x1	8
16M	Hyundai	HY57V168010CTC-10	x1	8
32M	Micron	MT48LC2M8A1-08	x2	16
32M	Hyndai	HY57V168010CTC-10	x1	16
32M	NEC	D4516821AG5-A10-7JF	x1	16
32M	SEC	KM48S2020CT-GH	x1	16
128M	Simens	HYS72V16220GU	x2	18

## ĚqÂ1/Ě÷ÝUDĚ0ë

**Q: 440LX ōa 440BX ĪŌ¼ ĪiĀŌçUÇ€ĚĪĪĚĀ ?**

**A: 440LX ōa 440BX ĀŌçUÇ€ĚĪĪĚĪf¼ĚĀ Āiçö»X**

ĚdĀä	440LX	440BX
ĪæĚĀç•Ūh	66MHz	100MHz
SIMM ĀŌ¼ĪĪ	Yes	No
Īæ¼ DRAM ĚvĎ,,	1GB EDO DRAM Āè 512MB SDRAM	1GB SDRAM

# Ä Ü B ÜÏÃ ÅXÕóËàÊ½

òf%QË' Ó[Ä Ê÷YU»R%ÇÄTÏ' Áá¿z¿YUËÁfË' ÀóÁóÚáÏ »RÀfÅXÌP%QDÏÏ|ËP×eËÏÏóòìÌP%K  
DÏ»T



Ï½ ö: ÁÏÏmÿÁÏ¿eÄÖÖ ÈàÀsÁóÇæÄÖÖ ÇD%Ö»RÀf jumper  
ÏnÅŞÇa»RÍæÑ†ÄÖ BIOS %eBi ÊäÏ' À»»RËqÁ%Ê÷YUÏ¿Ï¿»T  
×eÏÏÏiÁóÇæÄÖÖ ÈÖ»RË÷E÷E' ÁpÀÏË' Ö÷ÇËÄÖÏÄËñ»RÁóÇæ  
ÄÖÖ Á"Æ »X

Taiwan <http://www.aopen.com.tw>

USA <http://www.aopen-usa.com>  
<http://www.aopenusa.com>

Europe <http://www.aopen.nl>



ÇÄÇÈ: ÀsÏ^ÄUÖxØaÊíÄ Áf%ÄÄ»R×e×eÄŞË' %ŞÖiÓ|¼ÇÄT  
ÅXÕóËàÊ½' Áá»RÄYÖx%ÇÖiÏiÄÖË÷YUÏÇÇ' »R¿nÆ¿UØ Ä`  
ÄÄÖ»SBIOS ÄÄ¿ÖÏ¿»TÏÇÇ' ÀrÑfÖiÏi»RÁóÇæÏSÏ' %eÖë  
Ä^ÄÖÏ†ÄñÑfÄð»RÄöPÏË' ¿è email Àè FAX»RÖ,,ÖöÑÖÏ,,Ö  
Ï|ËPÏ%ÇSÄ Ä ×^»RË' ¿¿YÁb¿èÄ Ü ÄÖË÷YU%eÏÏÄ  
(Technical Problem Report Form)»T

## ÜÏÃ ÅXÕóÈàÊ½

### ÜÝÓ ¼BýçöK

- ×eÚáÆ Jumper Æ ÁpçÜ×e»Æ/ñÁpÆ CPU ÁÄÓ»RÍ /Ü Ö,,Ñ× (P54C/MMX)»RCPU ÜhI%»eÇÜÜh¼ Ì%»T
- ×eÚáÆÜ,,Ñ×Èà×^Æ ÁpËÏ%eÄeÌØÅ (CPU ÇÑÈÈÆ ÁpçÜÈqÓSÚú)»T
- çUØ Ä`ÁÍÏ]¼¼çÜÈqÏ^ð Ì' ðY (Ö,,Ñ×ÇÑÈÈÆ ÁpçÜÈq)»T
- ×eÌØÈ!ÁiÁÍ%ÐÇÈçu%eÍe/ÌSÕeÈà×^»Rç^ða%hBýçöççYÜI%aÈ=ÝU»T
- ÀfÆ PCI Býçöççu»RÁ ÍÁÁpçÀ PCI Í»ÖeÄeÆ BýçöççuÖi Öi»T
- Ê`Øeß (SIMM/DIMM) Æ ÁpÅSÕaçÜ×e»RÁ ÍÁÊ`Øeß Í»ÖeÄeÁpç]Ê`Øeß »T
- ÚáÆÌSÕeÈà×^ Pin 1 ¼ ÅgÆ ÁpçÜ×e»T

### ÀÍÜÝÓ »RÀ "Ñ "ÀsÌP%QÇiÏvÇÈ»RÍ]Ä|Ðz¼[BIOS ÍnÃS:

- ÚáÆÜp×]Æ ÁpËÏPÌ¼¼Ä"»R×e%ÜIÄ Num Lock ÜpÆ LED Æ ÁpçÜÈqÜZÑÚ»T
- ÚáÆ Turbo Switch Æ ÁpPÜÄ (Release)»R×e%BÀSÐ"Ø ÁvÁéçè Turbo Switch»T (Pentium çY¼hØ Öò%SÍ] Turbo çmÉú»RTurbo Switch ÍbÑ ÄÄ Suspend Switch çè»T)

### ÀöÈä Reboot»RÇÄÜeÐ"Ø :

- È\_CMOs Ì^È!»RBIOS Ñ"BAÄ ÓSÍnÇà (default)»RÈ\_Ä†ÌeÍnÃSÄÍæÝÇÄSÄÄR»T
- Ü Íq "ÜÝÓ ¼Býçö:" ÄÖÚáÆ¼ Ä»ç]ÌíÚáÆ»T

### ÀÍÜÝÓ »RÀ Í]Ä|Ð"Ø :

- ÌSÕeÍ]Ä|Ð"Ø »RÚáÆ BIOS ÄÖÍnÃSÆ ÁpÆ LBA (Í,,ÈqÈvÐ,,¼Ä 540MB) È À»T
- È\_BIOS ÍnÆÖSÍnÇà (Setup Default)»T
- ÍeÖeÐ"Ø Æ ÁpçÜÈq»RÀfÄXçÜÈq»RçzÉúÆ ÍSÕeÈà×^ÄeÍSÕeçÖÄÇ»T

### ÌSÕeØ Í]Ä|ÊÖÍ ÄÄçm(HDD Controller Fail»Rcan't detect HDD):

- ÚáÆÌSÕe¼h Master/Slaver ÍnÃSÆ ÁpçÜ×e»T
- ÚáÆÌSÕeÈà×^ÄeÄ ÍÁÁpçÄÌSÕeÖi Öi»T



## ÜÏÃ ÅXÕóËàÊ½

Í€Ôê/ ÑàÓÁ/ À]Ä Ø ¾¼ÛËqÃeÏ]Ä|¾¼ÁQ:

- a. ÚáÆuÍ€Ôê/À ÀT/ÁÝÁTËà×^Æ Áp¿Û×e»T
- b. Ð"Ó„Ñ×ËaÍ€ÔêÔeÛj Æ ÁpËaÁQ»RÁ ÍÁÁp¿ÁÍ€Ôê/ÑàÓÁ/À]Ä Ø òi òi »T

Ð"Ø ÈãÛp×]Ï]ËaÁQÃè BIOS ßý¿ö Keyboard Controller Error:

- a. ÚáÆuÛp×] LED Û` (Numeric Lock) Æ ÁpÁ ÑÛ¿ÛËq»T
- b. ÚáÆu¿UØ Ä`Á`ÚZÍÑ (Fuse) Æ ÁpÛ\_Ûp (Áé¿eÓ„Û ÚáÆuÆ ÁpÍ`ð »RÁ`ÚZÍÑÀ ò~ ÀsÛp×]Ï]»ËËá»RÍ„ËqÆËË Æ F1, 3A/125V)»T

Ï]Ä|Ú<À† BIOS Setup ÆèÓ„ÀÛÁdÓ„ (COMS data lost, Battery Low):

- a. ÚáÆuÓ„ÀÛÆ ÁpÁdÓ„ (ÁTÁ 2.5V)»T
- b. ÚáÆu Clear CMOS Jumper Æ Áp¿Û×e»T

## ÜÏÃ ÅXÕóËàÊ½

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<b>Technical Problem Report Form</b>	
<p>Ï¼Å • <b>Model Name:</b></p> <p>Áá00 <b>Serial Number:</b></p>	
<p>ÛfÏ0%Å <b>Contact:</b></p>	<p><b>Name:</b> _____</p> <p><b>TEL:</b> _____ <b>FAX:</b> _____</p> <p><b>Email:</b> _____</p>
<p>Ê÷ÝUÏ(Ç <b>Error Symptom:</b></p>	
<p>Â‡ÏèÏÏÔR (×è0î Ç' ÅÄ00%eÄÄ¿0) <b>System Configuration:</b> (Please list model name and version.)</p>	<p><b>OS:</b> _____ <b>BIOS:</b> _____</p> <p><b>CPU:</b> _____ <b>SIMM:</b> _____</p> <p><b>HDD:</b> _____ <b>CDROM:</b> _____</p> <p><b>VGA:</b> _____ <b>Sound:</b> _____</p> <p><b>Modem:</b> _____ <b>Others:</b> _____</p>