

MX6E Plus

U0 Ä` Âéè¾üf

Printed in Taiwan

PART NO.: 49.88101.011

DOC. NO.: MX6EP-1-C9808A

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Document Number : MX6EP-1-C9808A
Model and revision : For MX6E Plus rev 1.xx
Manual version : Chinese, rev A
Release Date : Aug. 24, 1998

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ÍÓÒqÑÁÇ€

İP³QÍ011ÑÁal

%ĐİēĀİēİhÈ %ēÉdÈ ĵmú»T

İP³KÍ011İŠB ÅŠ0á

İŠB ÅŠ0aÄ0ÆY Ò Èà»R;ñĀ Jumper Ā^ ĒİÚj (Connector) Ā0Ā 0~»RÅŠ0aÈ` 0ēB 0÷Āq
Ñ_Ā0ĀaĐİ»T

İP³eÍ011AWARD BIOS

AWARD BIOS Ā0ÆY Ò Èà»RĀf Èē0āİnĀŠÇaĀ0Ñ_0,,»R;Y³eÛ_Û İ'Ā»Ā0;ēĀ|»T

Ä Û 1A11ĒqĀ'Æ÷ÝUĐÈ0ē

Āé;èÈēĒq0[Ā Ā0Ā0Ī_È÷ÝU»T

Ä Û 1B 1ÜĪ ĀX0óÈàÈ½

ĵñĀĀ Āf È'0ēĀ^ È÷ÝUĀ00 Èa0aĀoĐİ»T

Ä Û 1C Jumper1İnĀŠÄ

ĀiĀĪ Jumper Ā0ĀTĀ »T

Óé;öÖ»Ã

¿Y%Æ Æ ¿Ö%ü¿f Èq;èÃÖÖé¿öÖ»Ã »X



×èÃqÑ_
Àa%Q¿UYU%ÁÆÝ Ö»Ã »T



ÞÍÁz
%4Ñ ØØÁQÈã»R¿zÉúØãÇaÀ^ÚZÁúÃX»T



×è%¿%ü
ÓŠ¿ ÁØ×uÈ÷ÝUÏ, ¿ÇÃÖ% Ä | »T



ÇÃÇÈ
Î¼Û È' ØØÁQÇÁÜZ»T



Î¼ö
Î¼ÈÁ%¿ ÁQÈÞÌ%ÃÖØØÁQÈÈ“ »T

ζòÙ

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Ä Û A ĚqÂ½Ê÷ÝÜÊÈè

Ä Û B ÜÏÃ ÆXÓóËàÊ½

Ä Û C JUMPER ÍnÃŠĂ

¿òÙ

ÌP^{3/4}QÍÓl ÑÁàl

ÌP^{3/4}XÍÚ İŠß ÀŠÒà

ÌP^{3/4}eÍÓl Award BIOS

Ä Ù A ÈqÂ^{1/2}Ê÷ÝUĐÊÒë

Ä Ù B ÜÌÃ ÆXÕóËàÊ^{1/2}

Ä Ù C Jumper ÍmŠÄ

ÌP³QÍÓ ÑÀàì

MX6E Plus Æ ç YPCI/ISA ÆÆtÄÖ **Micro ATX** Pentium II çUØ Ä` »RÄpÄi ÈpçèÄÖ ÍÓ% ÌiÆ Intel **82440EX»RAÖÍÓ%** ÌiÆ È^ ÆPentium II CPU ÍncfÄÖ»R³pÍÄ»ÄFÖö ÍæÑtÄÖÍhÈ »RÄiÄf**AGP** ÓéÄeÍtÈÈ »**SSDRAM»SUItra DMA/33»SBus master IDE** çY%è **USB** ÍtÈÈ Èç»TÍ, Ð çUØ Ä` »ÄiÄi%èÈ DIMM (Dual in-line Memory Module)»RçzlgI» 3V EDO Óa SDRAM»RÍæ»Æ` ØèB ÈvÐ,,çzÓW **256MB»TÄÖç** »R MX6E Plus ÄéçèÄÖÆ **2M bit Flash ROM»RÄi çYÓ çÖÄiÑtÖhçnúÄÖ»pÍÄÉú%** »RÑ Ì^Æ Á çÌÈvÄ **»TÈ!ÄÓ%Äç** »MX6E Plus ÓöÄyÍa»ÄyÐÍç **ÐÄÖçnú»X**

Ï] **jumper Íncf (Jumper-less)** MX6E Plus Ä È **»MŠB Jumper ÄÖÍncf»RCPU Ó,,Ú»èÜhÌ%ççYÀöÈäÈÖÍ ÄèçèÍÈB çìØy»RÄpÍnÄŠÇaÜ<ÄtAs»ÄÖ=Ö,,ÄÜÄÖ EEPROM »Ö»RB È`ÄsÄéçè»ÄÄ çÌÄr%Ä`»T**

»ÄÖ=ÄéçèÖ,,ÄÜÄÖçUØ Ä` (Battery-less) MX6E Plus ÄÖ CMOS ÍnÄŠÖ ÈaÜ<ÄtAs»ÄÖ=Ö,,ÄÜÄÖ EEPROM »Ö»R»ÄÄÄfÄÖ»RÄpRTC ÈaPÜç`Ö (real time clock) **»ÄÄÖ=ÇÈ Ö,,ÄÜ»RÄnÄÖMX6E Plus Æ »Q% ÄÍÜ Ä` NÄÄÜÄÖçUØ Ä` »T**

Ú Ð»Ð`Ø (**Suspend to Hard Drive**) ÓSçèÍ, ÐÍçnú»RÐ`Ø Èä»ÄRÖ=ÇÈÄnÄÖÖ Ä ÄÖÈäÐ»ÇÄÑtÖ **» Win95»SOffice ÄèÄpçÄÍÈB »Ä»RÄi çÄ»ÈÍÄ ÍpÇ ç Ý Ø »ÄÄvÄÖÄÈ ÖR»RÆçyÖ **»ÄQÑ•ÄtÈè»eUÍ çèÍ`Ä»ÄÖÍÜÑè»TÄ çèÄéçèVESA ÍhÈ ÆÈvÄÖ PCI VGA çu (Äf AOpen S3 PV70/PT70)»RSound Blaster ÆÈvÄÖÇÈÈpçu (Äf AOpen AW35/MP56)»RRockwell ÆÈvÄÖ Modem (AOpen F56/MP56)»R»Éú»eÄ`Í, Çíçm Èúç»eÓSÄQ»T****

ÖaØØØ ÖÖÈÈÐ`Ø (**Zero Voltage Modem Wake up**) Äbçè ATX Soft Power ÄÖçm Èú»RÄtÈççzYÄsÝ Ø ÄÖÄÖR»Ä»RÖxçèÖaØØØ Èi ÈaÄYÄöÈaÈÍBçÓ,,Öö»TÍ, ÐÍçnúÄÜÈq ØRAi çèÄi Öi ÜÜBaÈ`Ø ÖaÍÄÜ Ø »RÄiÍæ»ÄÖÈ È`ÄsÄ »RÈ»ÄÄÄÄÈÄÖç`ÈÍÄ»ÖaØØØ **»Ä ç`»RÈ`ÜöççYÜ çè»ÖÈÍÄ»ÖaØØçu (Internal Modem Card) Äi »pÍÄÄÖçnú»TÄéçè MX6E Plus **ÑvÈ MP56 »ÖÈÍÄ»ÖaØØçu»RçÇÈäÈöçÖÍ]Ö=çèÄ ÝSç`ÄÖÖ,,Ñ»T****

Ö ò ÖÖÈÈÐ`Ø (**LAN Wake up**) ÄÍÜZÝ Ä **»Äç`ÄÖÖaØØØ ÖÖÈÈÐ`Ø »R»ÄÖ]Í, Æ òxçè ÈèÈ Ö ò ÄiÍ Ü ÄtÈè»TÇÈÄéçèÖ ò ÖÖÈÈÐ`Ø »RÈ`çÌÐÑÜ ÜaÄÍ»pÍÄÍ, ÐÍçnúÄÖÖ ò çu»RÄYÖ»ÄŠÖaØRÑ ÄÖÖ ò ÖöÍ`ÍÈB »RÄADM»T**

ÍnÄŠÄöÈäÐ`Ø ÈäÐ» (**RTC Wake Up Timer**) Í, ÇíçnúçzB È`ÓSç ÄŠÖ,,Äè»QÇiÈä Ð»»RÄTÑ ÈäÐ»»QÄ »RÄtÈÄ`Ñ`ÄöÈäÐ`Ø »TÈ`ççYÈ_Ð`Ø ÈäÐ»ÍnÄŠÄsÄTÇi% ÄÖÄç **»Q »è»RÄèÆ ÄT»èÄÖÄç ÇiÈäÄ »TÄpÖ çèÄñçzÓWÄ Æ »T**

ÑÁàl

ÀaÀSç ÎÁÀ» CPU ÝÇÚ½×`ð ÀaÀSç ÎÁÀ»ð %QÉ ÀÒÁUÀaÀSç ÎÁÀ»ÁyÁÍÁ ÈÁÀÒÈP Ì%»TçY%QÉ ÚÍçèÀíÁç»RÀaÀSç ÎÁÀ»ÀÒ%ÁQÑBÁñÈ_ÒNÁTÁ ÁUÀaÀSÁ»»T

Ó]Ó,,#BQÓ,,ð (Over Current Protection Circuit) ÀsĐáÏè 3.3V/5V/12V Baby AT Àè ATX ç ÎÁÀ»Ò,,Ñ`ÀèÚÍ00%»RÓ]Ó,,#BQÉ ÁöÈqÁ½ÁÒÓ,,ð »TÓ Á ÒaØ Èã%»f %»ÀÒÍ`ð »RÓ]Ó,,#BQÁÒ×eÁUÈqÁÍÈP»RÀ Ñ†%Qç_»Centium II CPU Áéçè%»W½Áa ÁÒÓ,,Ú½»RÁpD»Ò=ÇÉYÇÚ½00È_5V ÚúÍÁÁÁ CPU Èð%»Ó,,Ú½ (ÁiÀf 2.8V)»RÇ ÁíÁÒ 5V Ó]Ó,,#BQÁnÁí Í]Á|çÜÈqÓSÁQ»MX6E Plus ÁÒÁaÀSç ÎÁÀ»ÝÇÚ½00ÍnÇf»RÁyÁÍ CPU Èð%»Ó,,Ú½Ó]Ó,,#BQÁÒç»RÈÍÁ Ç ÁíÁÒÓ,,Ñ`ÀèÚÍ00È_ç½½Áéç % Á ÀÒÍ` ð Á`BQÉú%»T

CPU ÒaØ ÍuÇÑÈÈÒaÈÈ MX6E Plus Í½Áè%»ÇÑÈÈÒaÈÈÒç»RçzÁ0% CPU Ó]Ó »T Í,Đ çUØ Á` %»ÁÍÁúÇiÇÑÈÈÍÚj »R%»QÇiççèÇCPU ÇÑÈÈ»RÁiç%»QÇiÁyçzYÍ00 Íu ÁÒÇÑÈÈÁéçè»TÍ`Ó]ç%»ÁyÍ`À» (ÁiÀf Hardware Monitor Utility)»R ÁÏÈÁsÇÑÈÈYrÈÒ Èá»RÈ_çÁoÈÁÍ½çi ÞÍÁz»T

CPU Ó]Ó Á`BQ Í,Đ çUØ Á` ÁyÁÍÉdÈ ÍnÇfÁÒÓ]Ó Á`BQÓ,,ð »RÑCPU ÑBÁñÈÁÁ ÓŠ ç ÁŠÒ,,ÁÒÑBÁñÈá»RCPU Í½ÁñÈ_ÁoÈÁÇÈÁT»RÁYçSÒxçèÚÍçèÍ€B Í,çi ÞÍÁz»T

ÁÏÈè,,Ú½ÒaÈÈ MX6E Plus %»Í½Áè%»WÓ,,Ú½ÒaÈÈÁÏÈè»RÁsÈ`ÈiÈaÁÏÈèÁú»RÍ,ÇiÁÏÈ è_ÑÁ Þ ÒaÈÈÁÏÈè%»ÁQÓ,,Ú½»RÚa»RÁÈ ÁpÁÍÁÏÈè,,Ú½ÞhÓ]çÓç ÖèÑaÁÒÈ»Áe»RÇj ÁÍÍ, ÒoÈ»Áe»RÍ_Ñ`ðxçè%»ÁyÍ`À» (ÁiÀf Hardware Monitor Utility) Ó ÁéçèÁæí, çi ÞÍÁzÈÈ ÈÁ»T

ÁÒÓyÁÒ CPU Èð%»Ó,,Ú½»ÞÍÁÈú% Í,Đ çUØ Á` ççY%»ÞÍÁ 1.3V Á 3.5V ÁÒ CPU Èð %»Ó,,Ú½»RÓ çÒÁi CPU ÁÒÁQÉBÁBĐ»È_Á ç]Ó†Á<»T

FCC DoC Ò`Yi Í,Đ çUØ Á` ÌBÁi È È FCC DoC ÁTÈÈxÒèÑaÓ`Yi»RAj ÁeÀsÍ]Ø ÍuÁÒBQÁÈDR%»R%»Í`^ %»Ñ`ĐaÈq%»YB »TÁYçSÁsççÌ½% ÇÈ»RÆ ÈSO-9001 Ò`Yi %»A%» ÒÞ»RçY×eÁ`Á× ÝÇÁŠ»T

Èç%»ÁÒÚÍçèÍ€B %»ÞÍÁ ÚYÁ ÁÒ AOpen Bonus Pack CD Òa%»ÒÁÍmýÈ%»ÁÒÚÍçèÍ` Á»»RÁiÀf ADM (Advanced Desktop Manager)»SAOchip»SHardware Monitor %» Áy»SSuspend to Hard Drive %»Áy»RçY%»eBIOS flash %»ÁyÍ`À»»T

%»ÞÍÁÁyÒÇÁÍÁÒ BIOS Í,Đ ÌÈ È`È_ÁeÈ`ÁsÍnÁŠ BIOS Ù ĐÍÈá»R%»ÁRÁÍÒÇÁ_ÒoYÁ %»»T

1.1 ÍhÈ

¿UØ Æ`ÁÆÀ»	Micro ATX
¿UØ Æ`%ó%	244 mm x 218 mm
CPU	Intel Pentium II Processor
¿UÈ`Øeß	3V EDO Æ SDRAM»Rl 68-pin DIMM x3»RÍæ%ÆvD,, ¿zÓW 256MB»T
ÍÓ% Íi	Intel 82440EX AGPset
Ûi¿cÖe	ISA x2, PCI x2 %e AGP x1
À ÀTÈ	2 Çí UART 16C550 ÆÈvÁØ RS-232 À ÀTÈ »R¿ÍÁÍ%Q Çí UART ¿z%ÍÁÆ ¿×`ÖiÍi»T
¿ÇÀ È	1 Çí¿z%ÍÁ SPP/ECP/EPP %eÖöÖeÑáÁÖÁYATÈ
Floppy %DÇÈ	1ÇíÍÉÀ»ÖeÖeØ Í†ÈÍÚj »R¿zÁé¿è 720 KB»Rl .44MB Æè2.88MB È À»ÁÖ 3.5 ÆeÖeÖeØ »R%ß60KB»Rl .2MB È À»ÁÖ5.25 ÆeÖeÖeØ »T
IDE %DÇÈ	2 Çí IDE Channel ¿zÍ†ÈÍ 4 Çí IDE ÓaØ~(ÍŠÖeÆe CDROM)»R%ÍÁPIO mode 4»SBus master»RÆèUltra DMA/33 Í¿ĐáÛ ÖiÀ»»T
USB %DÇÈ	2 Çí USB Í†ÈÍÚj »RBIOS ¿Í† USB Bi ÈáÍ' À»¿zÖi ÚÚ ĐáÍèÁÖ AT Æè PS/2 Ûp×}»T
PS/2 ÑaÓÁ	%ÖÁò Mini-Din PS/2 ÑaÓÁÍ†ÈÍÚj »T
Ûp×}%DÇÈ	%ÖÁò Mini-Din PS/2 Ûp×}Í†ÈÍÚj »T
RTC ÓaÓ,,ÁÚ	RTC À Æ Intel PIIX4 chipset %Ö»RÆé¿èCR-2032 Øj Ó,,ÁÚ»TÀfAX%¿ÆÖÖÓ,,Ñ××`»RÍ}ĐÑÆé¿eÓ,,ÁÚ»T
BIOS	AWARD Plug-and-Play, 2M bit Flash ROM BIOS»T %ÍÁÁyÖÖÁÍÁÖÁ¿Ö»R¿nBR%¿%¿%»T

ÑÁàl

Ú Ð»Ð"Ø (Suspend to Hard Drive)	¿ëBIOS ¼pÍÁ»RÚ<À†ÁR¿ðÁvÁ0¼ÁQÄÄ0RÀ0ë0ë0 ¼0»R¼¼¼QÄ0Ð"Ø Èä¿ùÄ ¿†¿i Ç ¼¼ÁQÍvÇÈ»T0÷Áé¿è VESA ÍhÈ ¼¼ÈvÁ0PCI VGA ¿u»RSound Blaster ¼¼Èv Á0ÇÍÈP¿u»T
0a000 00ÈÈÐ"Ø (Modem Wake Up)	Í'0]ÉdÈ Á0×^ð Í¼f»R¿¿¿YÜa¿è¿•ÈÍÁ»Áe¼0ÈÍÁ»0a 000 (¼f AOpen MP56)»RB Á†¿èÀsÁÍ0,,0ðÐ¿ÁÍÈä0 ÈäÈÍB¿»T
0 0 00ÈÈÐ"Ø (LAN Wake Up)	È†Ái Áé¿è¼pÍÁÍ, ÐÍ ¿néuÁ00 0 ¿u0a0 00Í€B (¼f ADM)»RÈ'¿¿YÍ'0]ÈéÈ 0 0 Í Ü Á†¿è»T
ÍnÁŠÄ0ÈäÐ"Ø ÈäÐ» (RTC Wake Up Timer)	È'¿¿YÍnÁŠ¼QÇiÁeÁŠÄ0ÈäÐ»»RB Á†¿èÀsÍ, ÇiÈäÐ»Ä0 ÈäÐ"Ø »T
ÀaÁS¿ ÍÁÁ»YÇÚ¼×^ð	ÈÄÈPÌ¼aÁS¿ ÍÁÁ»YÇÚ¼×^ð (Synchronous Switching Regulator)»T
0]0,,¼¼`BQ	ÁyÁÍ CPU Èð¼a0,,Ú¼0]0,,¼¼`BQÄ0¿nú»RÈ†Ái Ç Ái Á00,,Ñ×ÁeÚÍ00»R¿¿¿¼Áé¿ ¼¼À Á0Í^ð Á`BQÈú¼¼»T
CPU 0]0 Á`BQ	Ñ CPU ÑBÁñÐh0]0ŠÍ¼çáÄ0ÈäÇiÍ, ¿i PÍÁ»T
CPU ÇÑÈÈ0aÈÈ	Ñ CPU ÇÑÈÈYrÈ0ÈaÍ, ¿i PÍÁ»T
Á†¿è0,,Ú¼ÄäÈÈ	Ñ Á†¿è0,,Ú¼ (5V»S12V»S3.3V 0a 2.8V) ¼¼ÜÈÇÈaÍ, ¿i PÍÁ»T

1.2 Ú Ð»Ð”Ø (Suspend to Hard Drive)

»^Ú Ð»Ð”Ø »%ã_Æ È_çòÁvÁÔÁÏÈÄÄØR»RÈ`Øeß ò Èa»RÛÝÓ ÌvÇËÚ<À†ÀöÏŠÔe%Ø»TÍ^
 ÁúÁÏÈèçÁÓç Ûpó.,»RN %f%QÀØÐ”Ø Èa»RÈ‘ ççYÄ×ÈÏÀoÀ Ç ÁíÁÔ%ÁQÄÄØR»R%Ø÷Ïç
 Çí Win95 Ð”Ø ÄÏ’ »R%Ø÷Ø÷ÇÄÑ†Èí ÈaÚÏçèÏ’ À»»T

ÀfÄXÈ`ÁÍ 16MB È`Øeß »RÃÖÖ %Àö%Ø÷ÇÈ 16MB ÔeÔeÄBD»ÁíÚ<À†ÁÏÈÈÈ`Øeß »T
 ×eÄq_È‘ çÏÐÑÁeçèØa VESA ÍhÈ ÄöÈvÁØPCI VGA çu»RØa Sound Blaster ÄÈvÁØ
 ÇÏÈPçue APM Driver»TÑ Í^ »RÃöÇaÄöÐÏÈ’Ú çèÄö ðAOpen PT70 VGA»RAW35
 (ÇÏÈPçu) Øa MP56 (ØaØöØ +ÇÏÈPçu) çY×eÁ` ÍæÄeÁØÄÈvÁä»T

ÀÖçnúÁÖÏnÁŠ% Ä|Àf%»X

1. Ðz% BIOS setup»RPower Management à Suspend Mode Option»R Û Øö
 “Suspend to Disk”»T
2. Ðz% BIOS setup»RPNP/PCI Configuration à PnP OS Installed»RÛ Øö
 “No”»TÍ, ÁeÈ, BIOS ÁÍØ Ñ`ÀöÀ Á^ ÁŠÁÏÈèð Ñ»»T
3. Ð”Ø ÈãÙ ØöÐz% DOS Øí À»»RÀfÄXÈ`Æ Win95 ÁeçèÄæ»R×eÄsÐ”Ø çí Ï’
 “Windows 95 Starting ...” ÈãÄ %f “F8”»RÛ Øö “Safe Mode Command Prompt
 Only”»T
4. È_AOZVHDD.EXE Í, Çí%ÄyÏ’ À»×aØ†Á C ÔeÔeÁÖÈöçòÙ %f»T
5. % Ä|%Q»XÁeçfile ÈèØa (ØRçèÄ FAT16 ÚaÈnÁÏÈ)
 - ×eÙ %f%ÄTÁ ç` ÁsÏŠÔe%Äöçò%QÇíÚ ÛYÚa»RçèÁíÚ<À†ÁÏÈÄÄØR%ÈÈ`Øeß ò
 Èa»X

C:>AOZVHDD /c /file

×e×eÁŠÈ`Æ ÁpÁÍÁÆÈ ÄÖÍ†P ÔeÔeÄBD»È_Áí Ì½çÚ ÛYÚa»TÁì Àf»RÀfÄXÈ`ÁÍ
 32MB çUÈ`Øeß Øa 4MB ÄÖ VGA È`Øeß »RÃÖÖ Í_Ø÷ÇÈ Àö%Ø 36MB
 (32MB+4MB) ÄÖÍ†P ÄBD»»TÀfÄX AOZVHDD Áp%Ä Í†P ÄBD»»RÈ‘ ççYÁeçè
 DOS ÄÖ DEFRAG Í’ À»ÄeÆ Win95 ÄÖ^ÔeÔeÇÁÏíÏ’ À»»%Áí ØyÏ’ ÏŠÔe»RçYÌ½çç
 ÁÆÈ ÄÖÍ†P ÄBD»»T

ÑÁàl

- ¼ Ä|¼X»XÁé¼e/partiton ÊeÖa (ØR¼eÃ FAT16/FAT32 ÚaËñÁñÈ) Æé¼è AOVHDD ÀsİŠÖe¼¼Äò¼ù¼QÇi¼¼ÍeÊe»RÁi Ú¼À¼Áñè¼¼ÄÖR¼¼eÊ` ØeB Ò Èa»T ÇÈÁé¼èÍ, Çi¼¼ Ä|¼¼Áv»R¼¼İDÑ¼ ÀsİŠÖe¼¼ÖSÈu¼¼QÐ ÁBÐ»TÁóÇa¼¼oDÍÈ' ÈóØó¼¼ÖÁi È` ØeB Üi¼¼cÄÖ¼¼zÈu¼¼ÁÁf»RÓSÈuØ ¼¼ÄÖÖeØeÁBÐ»TÁi Áf»XÇj È'¼¼òÁvÁÍ32MB Áñ È¼¼UÈ` ØeB Öa4MB ÄÖ VGA È` ØeB »RÁi¼¼ÖÁi Çf00¼¼aÉBÁ 64MB¼¼UÈ` ØeB »RÁÖ Ö È' Ía¼¼Äé¼¼èØeØe¼¼Áy' Á» (Áf fdisk) ÖSÈu¼¼QÐ 68MB (64MB+4MB)¼¼Y¼¼¼ÄÖ¼¼ÖÍeÊeÊ »TÏ^ ÁuÜ ¼¼¼¼ÁTÁ¼¼` »X
- C:>AOZVHDD /c /partition
- ÁfÁXÈ' ÁÖİŠÖeÁdÁÍ¼¼ÖÍeÊeÊ »R¼¼¼¼¼¼Äe¼¼òÁvØeØe¼¼ÄÖÖ ÈaÜ¼¼¼R¼¼e¼¼BÁé¼¼è Í, Çi¼¼ Ä|¼¼ »T
6. ÇÁÑñÈi ÈaÁñÈ (Reboot)»T
 7. Úá¼¼èÍ|¼¼Æ, Á ÚpÁ» (Momentary) Suspend switch»RÁeÆ Ü Á Win95 Ð"Á¼¼ñúÁ¼¼¼ÄÖ" ÖaÈÈ»¼¼RÈÇ¼¼ÁñÈeDz¼¼ Suspend to Hard Drive ÖiÁ»»RÍ^ ÁuÈ_Ö, Ñ¼¼Ð"Ý Ý ÍÆ»T
 8. ¼¼¼¼QÄÖÐ"Ø Èa»RÁñÈeÍ_Ñ¼¼öÈa¼¼oÁ¼¼ Áv¼¼¼¼¼¼ÁQİvÇÈ»T



ÐÍÁz: xèÁqÑ_»RIntel Bus Master and Ultra DMA/33 IDE driver ÁY¼¼¼¼Ö¼¼ Öa Suspend to Hard Drive¼¼nÈú¼¼öÈv»T ÁŠ ÖaÍ, Çi driver¼¼zÈúÑ"ÁeÁñÈeBóÈ,¼¼¼¼ÇÁŠ»RÇj Í, Ì' Í, Öò È»Áe»R xèİØÈ¼¼ÄÖ drivers»T

ÐÍÁz: ÁÖ¼¼nÈú¼¼¼¼¼¼pÍÁ SCSI İŠÖe»T



Ì½ö: ¼ÀT VGA çuòxÌ ÒiÆE VESA ÆÈv»RÁÝçSØRçèÃ
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)*



Ì½ö: ¼ÀTÇÌÈPçuòxÌ Òi çzØRçèÃ Suspend to Hard
Drive»T

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

ÀfÄXÈ·ÀÖÇÌÈP çuÀs Suspend to Hard Drive ÁùÏ|Ä|çÜÈq
¼AQ»R×èAgÒ†Èi ÆiÒuÀpÆ ÁpÁÍ¼pÌÄ APM Bi ÈaÏ' À»»RÁÝ
ÀSÒa¼A»T



×èÄqÑ_: USB çmÉúçòÀvÁÝçÖçc¼ÚÒa Suspend to Hard
Drive È†Ài Í Òi »TÀfÄXÈ' Í, Ì' ¼¼ÇÇÀŠÀÒÌ' ÆY»R×èDz¼
BIOS»Rintegrated Peripherals à USB Legacy Support»T
Ý ÈÖ USB Legacy çmÉú»T

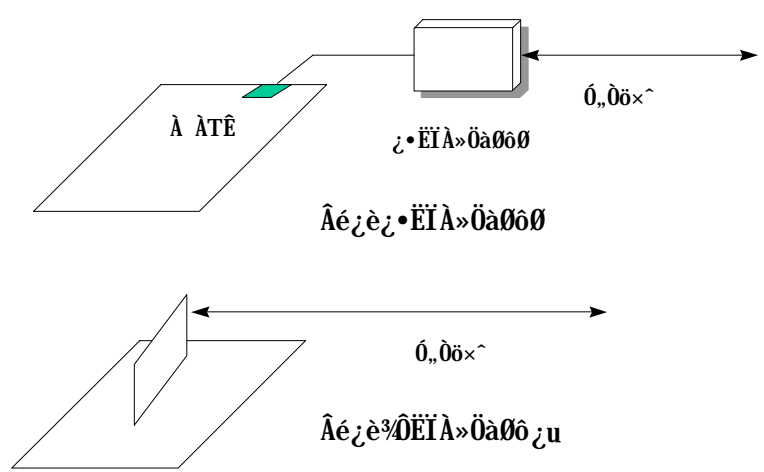
ÑÁàl

1.3 0à000 00ÈÈD”0 (Zero Voltage Modem Wake Up)

ÀoÇæÀsÀ0ÀiÇÈÈb×ñÀ0 Zero Voltage Modem Wake Up çUÇ€E ÈŠÓ ÀsÉ^Ó À0Ý 0
ÀÀ0R (ÁaÜp% Ä|ÆÈÚaÆiÓ„Ñ×À0ÇÑÈÈE ÄpÈÈ% ÚúÈa)»RÍ, Ð çU0 Á`Û Í^%#pÍÀÐaÌeÄ0
green PC suspend mode»RÀ Í, ÂÝ%#ÀsÀoÇæÈb×ñÀ0×uÍ %#»T

Úáçè ATX soft power On/Off»RÁoÇæççYB ÄÏèÀsÁ0ç Ý 0 À0ÀÀ0R%F (çYÁ00„Ñ×00
Ì`çñú%#Ä0 suspend mode ÄÝ%#E È`çÛÝ ÍÆÏè0„Ñ×) ÀoÈaÈÌBç0„00»RÀfÀ0È_çz
çYÈÌÄ ÝÀÛ 0 0aÐaÉ`0 À0çñú»T

Í|×ñE %0ÈÈÌÄ»ÛoE ç•ÈÌÄ»0à000 »RÍ½ççY#pÍÄZero Voltage Modem Wake Up
çñú»RÀ E Äéçèç•ÈÌÄ»0à000 À0ÈaÜZE »RE`çÌÐÑB 0a000 ÍSÁ Ð”Èi À0ÀÀ0R»T
AOpen À0 MX6E Plus 0a%0ÈÈÌÄ»0à00çuÍ½Äe%WÈÈ À0×^0 »RÁiçYE`Í|ÐÑÈ Ð`ç À
0„Ñ×»TÀnÀ0»RCj È`ÑbÄéçèZero Voltage Modem Wake Up çñúÀ000»RÁoÇæÀoPÍ
È`ÈPçè AOpen À0%0ÈÈÌÄ»0à00çu (F56 Äè MP56)»T



ÑÁàl

Áéçè%ÖËÏÀ»Öà060çüÈä (AOpen MP56)»X

1. **F2** BIOS setup »RPower Management à Modem Wake Up »RÛ Á Enable»T
2. **F8** Suspend to Hard Drive çüÈä»T
3. çYsoft power switch Ý ÍÁÏè»T
4. çY 4-pin Á0 Modem Ring-On Èä×^RÍ†ËÏ MP56 Á0 RING Í†ËÏÛj ÕaMX6E Plus Á0 WKUP Í†ËÏÛj »T
5. **F8** Suspend to Hard Drive çüÈä»T

Áéçèç•ËÏÀ»Öà060 Èä»X

1. **F2** BIOS setup »RPower Management à Modem Wake Up »RÛ Á Enable»T
2. **F8** Suspend to Hard Drive çüÈä»T
3. çYsoft power switch Ý ÍÁÏè»T
4. **F8** Suspend to Hard Drive çüÈä»T
5. **F8** Suspend to Hard Drive çüÈä»T



Í½ö: ç•ËÏÀ»Öà060 Á0 wake up Èe00E çè COM1 Áè COM2 Ç†ÍuÈÏ »WÖËÏÀ»Öà060 ÁyE çèÍ†ËÏ RING (Öà060 çh) Õa WKUP (çU0 Á çh) Á0Èä×^Ç†Íu»T



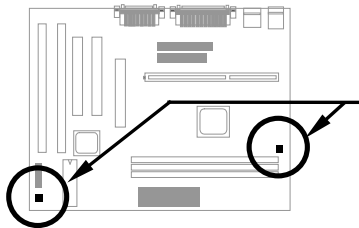
×eÁqÑ: Áéçèç•ËÏÀ»Öà060 Á00ö»RÖà060 Á00„Ñ×Í_ÏÐÑÁ Á ÁsÐÈiÁÖÁÖÖR»VÁíÁéçè%ÖËÏÀ»Öà060 Á00ö»RÍ_ÁdÁÍ, Õö ÇÇÁ çW»T

ÑÁàl

1.4 À†ÌèÓ,,Ú¼ÔäËË (System Voltage Monitoring)

MX6E Plus ÁyÁÍ%QÇíÓ,,Ú¼ÔäËËÀ†Ìè»TN È'Ð"ÈìÓ,,Ò¼Áú»R Í, ÇíÔäËËÀ†ÌèÌ_Ñ"Á Þ ÀrÔäËËÀ†ÌèÁÔ%í ÁQÓ,,Ú¼»RÚaAuÆ ÁpÁÍÀ†ÌèÓ,,Ú¼ÐhÓ] %Òç ÖeÑaÁÔË»Áe»TCj ÁÍÍ, ÔoË» Áe»RÍ_Ñ"ÒxçéÚÍçèí'À» (Àf Hardware Monitor Utility) Ó ÁéçèÁaÆÌ, çí ÞÍÁZÆeËÁ»T Í, ÇíÔäËËÀ†ÌèççYÔaÆ- CPU Èð%úÓ,,Ú¼»TÍ, Æ Òxçè BIOS Ôa Hardware Monitor Utility (ÚáÀhÚÍÝ à aohw100.exe»RÁp%¼100 Æ Á ÁÄçÔÓÓ×i) Á %¼ ÓWÁÁÁÔ»RÍ] ÐÑÁé çèÁ ÁpçÁÍŠß »T

1.5 ÇÑÈËÔäËË (Fan Monitoring)



Í, Ð ç ÚØ Á` %¼ÁÍÁúÇB-pin ÁÔÇÑÈËËÚç CPUFAN Ôa FAN»R%QÇíÍÓCPU ÇÑÈËË éçè»Rç%QÇíÁyççèÁ 0 Íú%¼ÁÔÇÑÈË»TÍ, Çí çmúÆ Òxçè BIOS ÔaÚÍçèí'À» (Àf Hardware Monitor Utility) Ái Á %¼ ÓWÁÁÁÔ»RÍ] ÐÑÁéçèÁ ÁpçÁÍŠß »T



×eÄqÑ_: È' çÌÐÑÁéçè 3-pin ÁÔÇÑÈË»RÍ, ÔoÇÑÈË%¼ %¼ ÍÁ CPU ÇÑÈËÔäËËçmúÁi 0=ÁÔ SENSE ÈeÓÓ»T

İP³XÍÓ İŞB ÀŞÒà

çÖÍÓË_çYÍqÁaÔçDzÄÖ% À»»RÖ»Ã ÀfÀ ÀŞÒàË'ÄÖÄ†İè»R×è×eÓ ÀæÑíÍ, ÁáÂSà[ÁíÂŞ
Òà»T



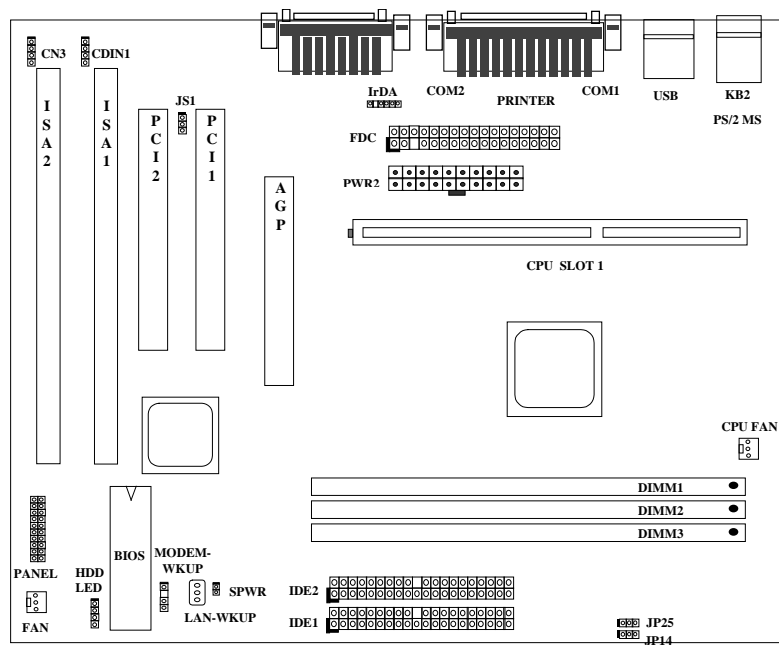
×è%ƒ%â: ESD (Electrostatic Discharge) ÆËÚcÓ,,Ã
Ó,,%ÄÑ_»RçèÄ Ü€B Ó,,Ò (IC) ÁoEvÃ Á Á ÚcÓ,,Ña
ÚÍÄÖÖ%Be»RÀnÄÓN"ÁeÑ]ÍSÌ' ØÓ»RÔeÖeØ »RÜi çc
çu%eÂpç]ÄÖÖ†ç Á Á ÐaÈq»TÆË%WÓŠÁØÚcÓ,,Ã Ó,
ÁíÑ}ÝrÍÓ% »R×eÜ ÀÆ%ƒÀTÄÖÖŠÁØËÖÆZ»X

1. È¼ÁÜË' %ŠÑáÍaÀ€Ç€Ð" Á}ÀŞÒàÓ†ç »RÁpÁy%u0f
%4Ç€Ë_Ó†ç ÀöÄÖÚcÓ,,çn0a%3Ä çi»T
2. ÀsË' ÀŞÒàÓ†ç Èã»RÍæÀ€Ër%hÁÍËÏÀr×^ÄÖ%âi
Ú »R%4Í»ç ÄÖÖ,,%4Ó†ç À Í¼ÁÍÀs× »TÀfÁXÁdÁÍ
%âiÚ »R×èÁéçèç À çzçYÄÖ% ÚcÓ,,ÄÖÍÚç_Á•»RÁí
ÖaÄ†İèÓ†ç %eçUØ Á`ËİĐİ»T

İŞB ÅŞÒà

2.1 Jumper ÕaËÏÚj ÄÔÀ Ò~

¿Y¼f Æ¿U0 Ä`¼Jumper Ä^ËÏÚj (connector) ÄÔË:Ò~ Óé»X



Jumpers:

JP14: İ ^ Ê¼CMOS
JP25: APAR
JS1: ÇİÊPçuĐ"Ý

Í†ËİÚj:

PS2: PS/2 Ñà0ÁËİÚj
KB: PS/2 Ūp×JËİÚj
COM1: COM1 ËİÚj
COM2: COM2 ËİÚj
PRINTER: ÀJÄ Ø ËİÚj
PWR2: ATX Ó,,Ñ×ËİÚj
USB: USB ËİÚj
FDC: Floppy Í†ËİÚj
IDE1: İĐ%Qİi IDE Í†ËİÚj
IDE2: İĐ%Xİi IDE Í†ËİÚj
CPUFAN: CPU ÇÑËËËİÚj
FAN: Ø İuÇÑËËËİÚj
IrDA: IrDA (Æ ç•×^) Í†ËİÚj
HDD LED: HDD LED Í†ËİÚj
PANEL: Åv¼ ÇËÄ` Å Ūp0aŪ` 00Í†ËİÚj
SPWR: ATX Soft-Power Switch Í†ËİÚj
MODEM-WKUP: Modem Wake Up Í†ËİÚj
LAN-WKUP: LAN Wake Up Í†ËİÚj
CDIN1: CDROM ÇİÑ××^ËİÚj
CN3: Mono in (Pin 1-2) 0a Mic out (Pin 3-4)

İŞB AŞÖa

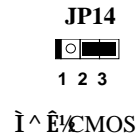
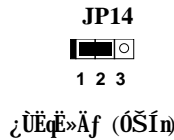
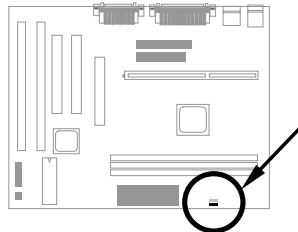
2.2.2 İNÄŞ CPU Ö, Ü½

çÖçU0 Ä` %pİÄPentium II (Klamath) VID çnú»RçzÄöEäEÖİ CPU Èð%ü0,,Ü½»RÄp
xuí Às 1.3V Ä 3.5V %ÄD»»T

2.2.3 İ^Ê½CMOS

JP14	İ^Ê½CMOS
1-2	çÜÈÈ»Äf (ÖŞİn)
2-3	İ^Ê½CMOS

ÄfÄXÈ' ÄeÈ' Äi İNÄŞÄÖÄİİeE\Xi Èä»RçİDÑç È_1|aBE
İNÆIC>D»RI^ È%ÄÇÄİnT^` dIÄÖİNÄŞÇaÄü»R%• Èü
ÇÄN†D"Ø »T



İ^Ê½CMOS ÄÖİ' Áá:

1. Ý İÄİİeÖ,,Ñx»T
2. ÄöÈÖ PWR2 %ÄÄÖATX Ö,,Ñx»T
3. Äpçİ JP14 ÄİÄsÄÖÄ ò~»RE_D xÄİfÖmÄ %fÄİ»RÄ È^Ä-3 Ö"Ä %Ä»T
4. %QÑÄüEäD»Äü»RÄ %fD xÄİfÖmÄN†È^ ÄöI-2 Ö"Ä %Ä»RÄ İpÄÄÇ ÄİÄÖÄÄÖR»T
5. È_ ATX Ö,,Ñx»ÈİÄö PWR2»T
6. ÇÄN†çİD"Ö,,Ø½,,Ñx»T
7. ÄfÄXÑbÇ€İNÄŞN†ÄÖÄİİeE\Xi »RçzÄsÄİİeÈi ÈäÈä»RÄ %f [DEL] ÜpDz%Ä BIOS Setup İvÇÈ%ÄRÄÄ ÄŞN†ÄÖÈ\Xi »T



İ½ö: ÄfÄXÈ' ÄÖÄİİeÄnÆEĐhÜhÄİÑ ÈÖÄeİ|Ä|D"Ø »RçzçYİ^
È½CMOS»RB ÄİİeÄöÄ ÖŞİnÄÖÄÄÖR»T

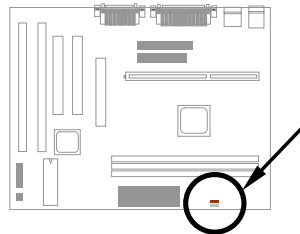
İ½ö: È½ÄMÉçè JP14 %Äç»R È' %ÄçççYçè <Home> ÜpÄİİ^È½
CMOS»T% Ä|Æ Ä Ä <Home> Üpİ^ÄüD"Èi Ö,,Ñx»Y »Rİ, ÖaÄİİe
İ_N"ÄöÈäÈ_ CPU İNÆE Pentium II 233MHz»TÈİ%Äİ»RE' çZÄRÄäö
ÖöÄÄf»RbZ%Ä BIOS Setup İNÄŞ CPU ÜHİ%»T

İŞB AŞ0à

2.2.4 APAR

JP25	APAR
1-2	Disable
2-3	Enable (AC Power Auto Recovery)

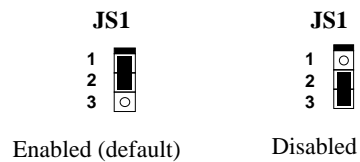
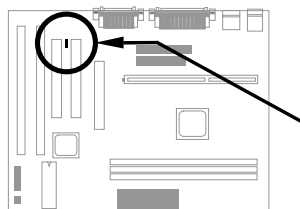
Ñ ÈËÖ, %ÁÁú»RÓ, % ÇÄÑ†Ä İpÈä»R%QÉ ÄÖTX Í, Èq
 Ñ`Ä` Ä ÀsÝ Ø ÄÖÄÄÖR»TÀ Ó Ä çÖËİá UPS ÄÖÖ Ò
 Ä ÄRÖÖÄè%ÄQÉÖÄİ Ö»»RÍ, Öòİncf/E ÄUËq%Ä\ÄÖ»T
 Í, Çí APAR jumper İ_E È^ ÈËÖèÄ^ Í, Çí È-YUÄİ İncf
 ÄÖ»RÇj È`È_JP25 İnÈÈ Enabled»RçB ÄİİèÀsÓ,
 %Ä ÄoİpÈäÄöÈäĐ"Ø »T



2.2.5 Ý İÆÖÄöÄÖÇİÈPİÖ%

JS1	Ý İÆÖÄöÄÖÇİÈPİÖ%
1-2	Enabled (default)
2-3	Disabled

Çj È`Ñb ÀS`Öà Äp çÄ ÄÖ Çİ ÈP çu »R ×è ç Äü Í, Çí
 jumper İnÈÈ Disabled»T



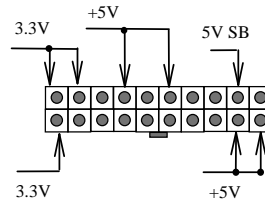
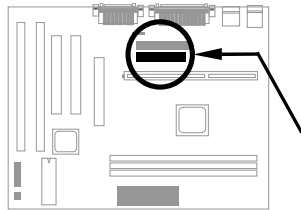
2.3 İ†ËİÚj

2.3.1 Ó„Ñ×Í†Ëİ×^

ATX Ó„Ñ×Í†ËİÚj ÅéçèÀf¼Ä Å020-pin İ†ËİÚj »R×è×eÅŞË'İ»¼Ä0¼ ÅgÆ çÛ×eÅ0»T



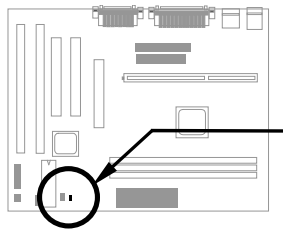
×è¼f¼: ÅsÍ†ËİÅeÅ0E¼Ó„Ñ×Í†Ëİ×^¼ÅÁv»R×èç Ý
ÍÅ†İeÓ„Ñ×»T



PWR2

2.3.2 ATX Soft-Power Switch ËİÚj

ATX soft-power switch İ†ËİÚj Å 2-pin Å0»T×èç Ë, ATX 0 İuÅ0Áv¼ ÇËÁ`¼Ápçi
ÖèçöÅE "power switch" Å0 4-pin İ†Ëİ×^»Rİ^ Åuİ†ËİçU0 Å`¼ÁÅ0 soft-power switch
İ†ËİÚj (ÖèçöÅE SPWR)»T

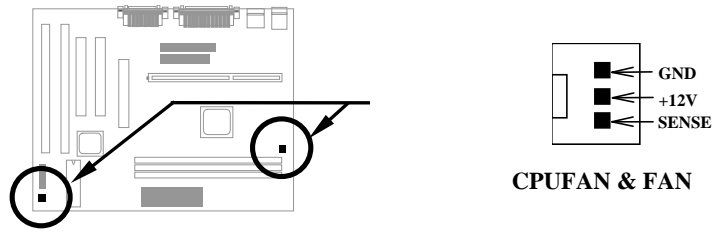


SPWR

İŞB AŞÖà

2.3.3 Fan

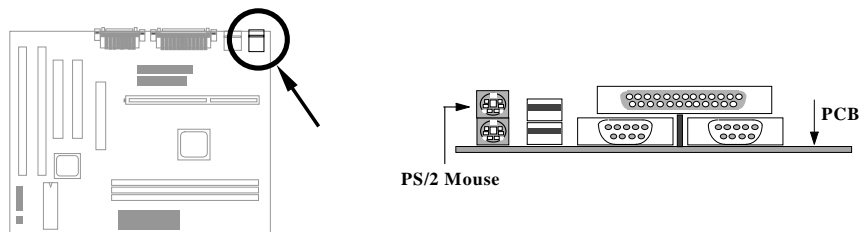
ÀsçU0 Ä` ¼h»RÄÍ%ÇÇí0èçCPU FAN Öa%ÇÇí0èçöÄEFAN ÄÖÇNÈÈËÛj »T



Ä İ : İ, ÄüÇi ÇNÈÈËÛj İ¼çzçY¼pİÄİŞB ÖaÈÈçnÈË (hardware monitor)»T

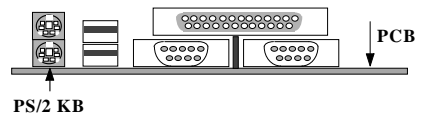
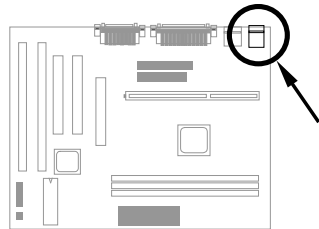
2.3.4 PS/2 NàÓÀ

×éÍ†ÈË PS/2NàÓÀÄ ÖèçöÄÈİPS2 MSİÄÖÈËÛj ¼h»T



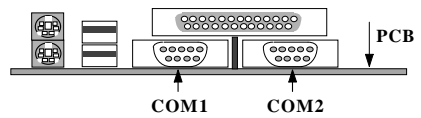
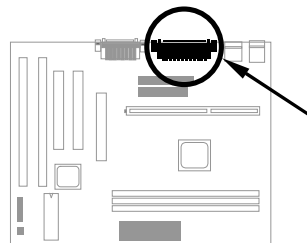
2.3.5 Úþ×]

×èÈ_ PS/2 Úþ×] ÈÏÀ Òè¿òÆ KB ÅÔÍ†ÈÏÚ¿ %41»T



2.3.6 À ÀTÊ (COM1/COM2)

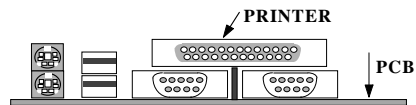
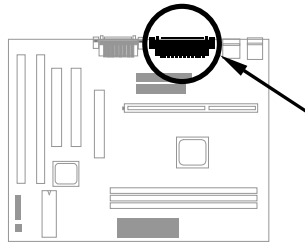
Åú% ÇÈÀ` %41ÁÍÁüçíÒè¿òÆ COM1 Òa COM2 ÅÔ 9-pin D-ÅÆ ÈÏÚ¿ »R¿z¿èÁÍ†ÈÏÀ
 ÀTÊ ÑàÓÁ(serial mouse) ÀèÆ Òà060 »TÁþ%41þ%QÇíÀ ÀTÊ ÈÏÚ¿ Òè¿òÆ COM1»WÏþ
 %XÇíÁýÒè¿òÆ COM2»T



İŞB AŞÖa

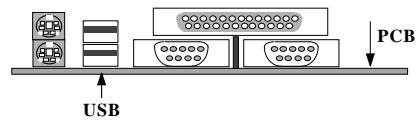
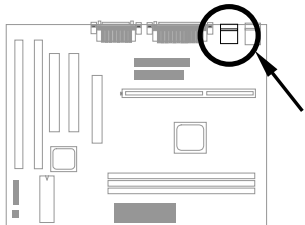
2.3.7 A]Ä Ø

¿UØ Ä` Äü% ÇÄÄ` %4nÄÍ%QÇiÖë¿öÄPRINTER ÄÖ 25-pin D-ÄÄIÜj »R¿eÄiÄŠI»ÄÝÄT
Ä»Ä]Ä Ø »T



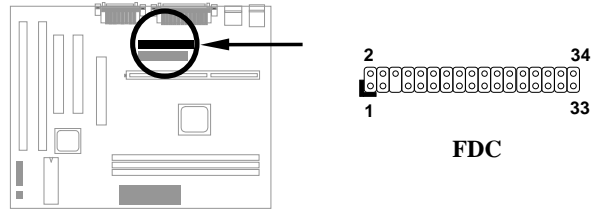
2.3.8 USB ÖaÖ~

Ë` ¿Ë_ USB ÖaÖ~ Í+ËIÄ USB ËIÜj »RÍ, Ð ¿UØ Ä` %4nÄÍÄüÇUSB ËIÜj »RÖë¿öÄÄ
USB»T



2.3.9 İ€ÒèØ

Às¿UØ Ä`%hAI%QÇiÖè¿öMDC ÄØ 34-pin ÈiÚj »R¿z¿eÁiÍ†ÈiÄü¿<İ€ÒèØ »T

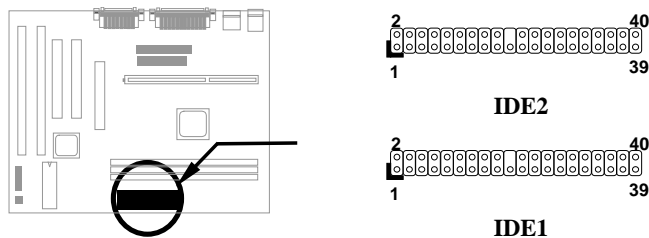


2.3.10 IDE İŞÖèØ Õa CDROM

Às¿UØ Ä`%h»RÈiÁiÄüÇiÖè¿öMIDE1 Ä^ IDE2 ÄØ 40-pin ÈaÈS»R¿z¿MÁ`Í†ÈiÄüÇi IDE ÒàØ~»RÍæAy¿zÍ†Èi¿Çi IDE ÒàØ~»R%QÉ IDE1 %dÓóÆ¿UI„ÓU (primary channel)»RDE2 %dÓóÆÄÖÍ„ÓU (secondary channel)»T

Í†ÈiÄ ¿ %QÍ„ÓUÄÖİP%Q¿<ÒàØ~¿İĐNİnÆ master mode»WİP%X¿<ÒàØ~¿İĐNİnÆ slave mode»T¿ %QÇiÓaØ-Á»¿zÆİSÖèØ Äè¿ ÖèØ »T

×èË_È`İP%Q¿<ÒàØ~İnÆ master mode ÂYÈiÄ IDE1»RİP%X¿<ÒàØ~İnÆ slave mode ÀaÖaÈiÄ IDE1»TÀfAXÈ`ÁİİP%e¿<%èİP¿¿>R×èÄaÁaÈiÄÄ IDE2 ÄØ master %è slave mode»T

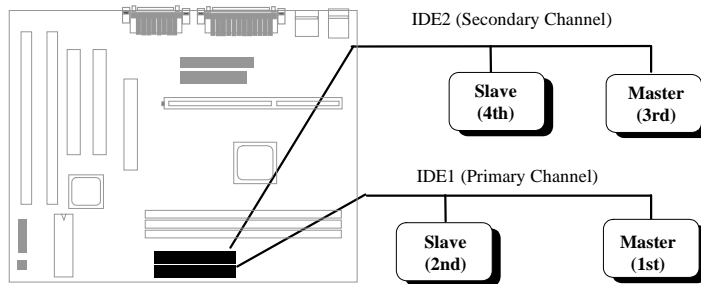


İŞB ÅŞÒà



×è%ƒ%ai: IDE İhÈ ÅoPİÈà×^ÍæÄ %4/zDhÓ] 46 %×
%Ü (18ÇoÀe)»RçYÁ\Ò ÈaDaÜ %4Ä”»T

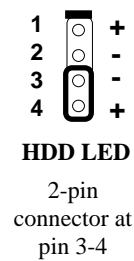
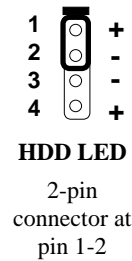
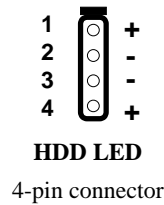
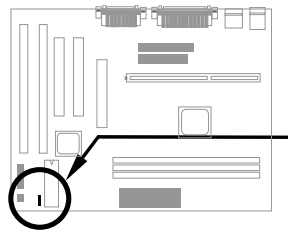
×è%ƒ%ai: ÅÊÓWÄ ÍæÄeÄÖAYÖÖÄ•× »RÈà×^ÍæÖÑÖ÷ÄÖ
ÒaÖ~ÍæÄÉInÄÄ master mode»RÄYÄæNi %ƒÖéÅoPİÄÖ
ĐĐÄáÅŞÖaÑ†ÒaÖ~»T



2.3.11 İŞÖê LED Å çöÜ`

İŞÖê LED Å çöÜ` ÖêçöÄÄ HDD LED»RÍ, ÇíÈæÈŞçz
ØRçèÄ Åf Öò%4ÄaÄÖÖ İù»RÄfÄXÄi ÅŞÖaÄÖÖ İùÄv%4
ÇÈÄ` Ä ÄÍ 4-pin İ†Èİ×^»R×eÄ×Èİİ»%4r»TÄfÄXç^Ä
2-pin ÄÖİ†Èİ×^»RçzçYÜ ØöÄŞİ» 1-2 Äè 3-4»RÄ ×è
ÄqÑ_ÑçÄä»T

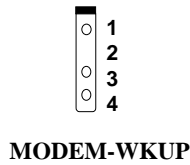
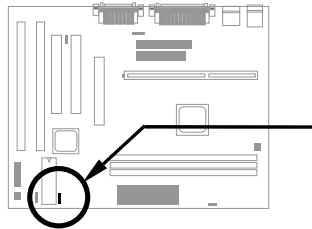
Pin	Description
1	HDD LED
2	GND
3	GND
4	HDD LED



2.3.14 Modem Wake-up ĘİŰj

Ű0ŰU0 Å` 41ÅyÅÍÉdÈ x`0 İncf»RŰz»pİÅ0à060 00ĘĘD`0 (Modem Ring-On) ŰmŰ»R»0ĘİÅ» (AOpen MP56) Åèz•Ęİ Å»0à060 Å»z0RŰzè»TŰzèÅ Åèzè»0ĘİÅ»0à060ŰÅ000»RŰÇĘã»½ 0»ĘİD` 0„Ű»»RÅi ŰYÅ0Çæ»½ 0 Å0PÍĘ`Åèzè»TÇj Ę`ĘPŰzèÅ0Ę AOpen MP56»RÅy»èÅèzè 4-pin İ†Ęİx`»RÍ†Ęİ MP56 Å0 RING ĘİŰj 0àzU0 Å` 41ÅWŰKUP ĘİŰj »T

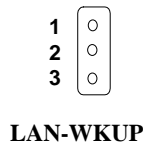
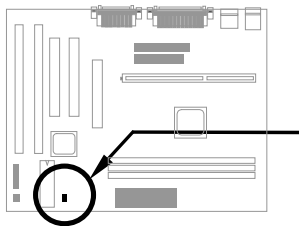
Pin	Description
1	+5V SB
2	NC
3	RING
4	GND



2.3.15 LAN Wake-up ĘİŰj

Ű0ŰU0 Å` ÅyÅÍ LAN-WKUP ĘİŰj »R ÇĘÅèzè LAN Wake-up ŰmŰ»RŰİDNNĘ»pİÅÅ0ŰmŰÅ00 0 Űu0a0 00İĘB (Åf ADM)»T

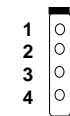
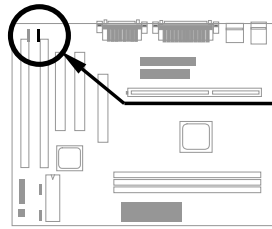
Pin	Description
1	+5V SB
2	GND
3	LID



İŞB AŞ0à

2.3.16 CD ÇİÑ××^ÈİÚj

Í, ÇiÈİÚj Æ çèÁíÍ†Èİ CDR0M Ä0ÇİÑ××^»T

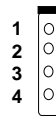
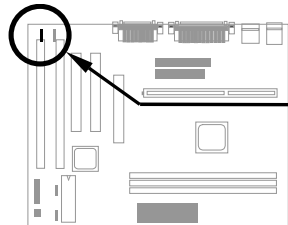


CDIN1

2.3.16 Mono In/Mic Out ÈİÚj

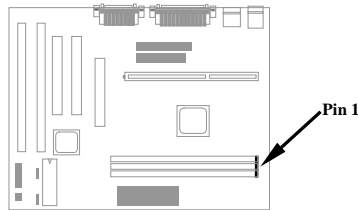
Í, ÇiÈİÚj ççèÁíÍ†Èİ»0ÈİÄ»0à0öçüÄ0 Mono In/Mic Out ÈİÚj »TÄp»» Pin 1-2 Æ Mono In»Rpin 3-4 Æ Mic Out»TÇÈÄqÑ_Ä0Æ »RçðÁvÍ, »QÝ Ä0ÈİÚj ÄÝÄdÄÍÄe ÄSÄ00eÑ»Rç^ÄÍ»00aÄ00a0öçüÄÍÍ^ÄeÍ, ÇiÈİÚj »T Ü ÜäÄv×èç Èè0m| »Ä0Èİ0^ÄS0.»RAYÄg0a0öçüÄÄ00†Èİ 0üÈ÷Ì^Ñ»T

Pin	Description
1	Mono In
2	GND
3	GND
4	Mic Out



Mono In/Mic Out

2.4 ÅŠÒà:UE`Øêß



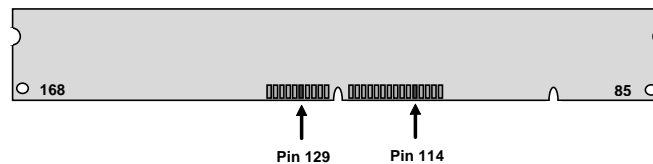
ÅÓçUØ Ä`ÄÍ 3 È DIMM (Dual-in-line Memory Module) İ»Öë»RçzY»pİÄ EDO (Extended Data Out) Ä^ SDRAM (Synchronous DRAM)»R İæÄÈv D„çÖWÄ 256MB»T

çÖçUØ Ä` çzY»pİÄÖeÑa64/72-bit ÄÖ DIMM Öiİi»T

- I. ççç: İ ÇÈÆ 1Mx64 (8MB)»S2Mx64 (16MB)»S4Mx64 (32MB)»S8Mx64 (64MB) »S 16Mx64 (128MB) »WÄi Ü ÇÈÆ 1Mx64x2 (16MB) »S 2Mx64x2 (32MB)»S4Mx64x2 (64MB)»S8Mx64x2 (128MB)»T



İçö: ÄÍÇiçÄ|çzçYÜa»uÈ` ÄÖ DIMM Æ İ ÇÈÜöÆ Ü ÇÈ -- Æ»Æ»DIMM çhÇÈÄÖ pin 114 Öa pin 129»RÄfÄX ÄÍÈ±0-0„0 »RÍ, È DIMM çzÈúİ Æ Ü ÇÈÄÖ»WpÄy İ_Æ İ ÇÈÄÖ»T×eÈeNi çÇÈÄÖ00e0e»T



DÍAz: ÇjÈ_ DRAM ÄaÈäÅŠÒaAs DIMM2 Öa DIMM3»RÄaÄ` İ Ü ÇÈÆ Äö ÇÄÇÈÄÖ»TAsÄÖÈ»Äfç»RÈ` ç`ÈúÄéçèİ ÇÈÄÖ DRAM»T

II. İ±Äñ:

SDRAM: çQÈ Æ ÖeçöÄf12 İ, ÖöÄÄ»»RÍ, Ä çöÄtÄ İ±Äñ (clock cycle time) Æ 12ns»RÄi çYÄÖ SDRAM İæçÄÖ clock Æ 83MHz»TÜöÄİ ççQÖöÖeçöÆ ÄfÄa-67 İ, ÖöÄÄ»»RÄ çöÄaÄSÖ ÈaDaÜ İæÄðçÄ 67MHz»T

EDO: EDO RAM ÄÖÄtÄ İ±Äñ (access time) Æ 60ns Äè 70ns»T

İŠB ÅŠÒà

ÒxÓ] AOpen Î òiÓ] ÅÖ EDO Õa SDRAM Àf»X

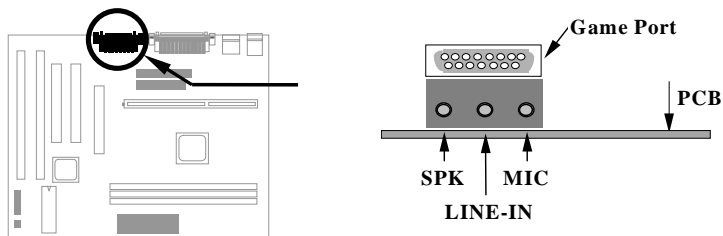
¾¼¾Ý ÅÆ	Ö±Êí	ÅÖÓ	Í Ü ÇË	Chip Õàçò
8M/EDO	Micron	MT4LCM16E5TG6	x1	8
16M/EDO	Micron	MT4LC2M8E7DJ-6	x1	4
16M/EDO	Hitachi	51W17805BJ6	x1	8
32M/EDO	Hitachi	51W17405BLTS6	x1	16
64M/EDO	Hyndai	HY51V65804 TC-60	x1	8
8M/SDRAM	SEC	KM416511220AT-G12	x1	4
8M/SDRAM	TI	TMS626162DGE M-67	x1	4
8M/SDRAM	TI	TMS626162DGE-15	x1	4
16M/SDRAM	TI	TMS626162DGE-15	x2	8
16M/SDRAM	TI	TMS626812DGE-15	x1	8
16M/SDRAM	NEC	D4516821G5-A12-7JF	x1	8
16M/SDRAM	Toshiba	TC59S1608AFT-12A	x1	8
16M/SDRAM	TI	TMS626812DGE-12A	x1	8
16M/SDRAM	TI	TMS626812DGE-12A	x1	8
16M/SDRAM	LGS	GM72V16821BT10K	x1	8
32M/SDRAM	Toshiba	TC59S1608AFT-12A	x2	16
32M/SDRAM	NEC	D4516821G5-A10-7JF	x2	16
128M/SDRAM	NEC	D4564841G5-A10-9JF	x2	16
16M/SDRAM	IBM	0316169CT3B	x2	8
16M/SDRAM	Hitachi	HM5216165TT10	x1	8
16M/SDRAM	IBM	0316809CT4B	x1	8

¿Ö¿UØ Ä`Æ ¿Parity check ¾ Å»ÊÖÍ Ê`Øeß Ù Ö»TE'¿ÏÑÅ¿è 72 bit DIMM (64 bit data + 8 bit parity) Åi¾ÏÄ parity check»RBIOS ¿ÀoEaÊÖÅØ 72 bit parity DIMM»R¾Ö=İŠB ÍnÅ»T

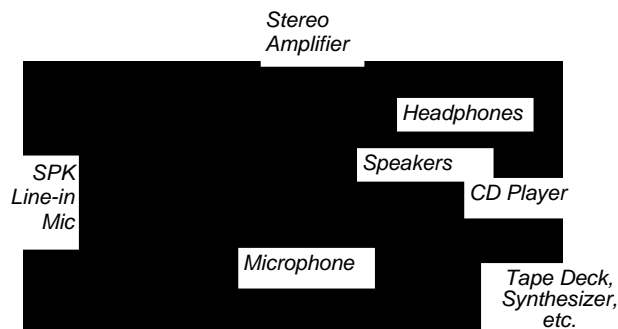
2.5 ¼ÒÀÒÇİÈPçu

Í, ¼ çUØ Ä` ¼ÒÀÒ¼W16-bit ÅÒ Crystal CX4235 ÇİÈPİSİ`İÖ¼ »RÅpÅýÁÍçY¼ ÅÖÉd Åä»X»T

- q ¼pİÅ Microsoft Direct Sound»T
- q ¼pİÅ Windows ÚYİ»Áj çè(Plug & Play) »T
- q ¼ÒÀÒ MIDI ¼ÇÈ»RçB È` ç`ÈİÁpçÅÅÒ MIDI Ín`à»T
- q çzı`ÓjİÈB ÈÈÅ ÓaÓ»Å ÅyÖòÈ Å»ÅÖÇİÖò»T
- q ¼ÒÀÒÁÍ CD audio»Sine-in»RÒa microphone inputs ÈİÚj »T
- q ççYİÈB ¼ Å»İnŠ I/O address»SDMA Óa IRQ»T
- q ç Ü ¼ ÇİÈPÓSAQ ÅaÅSÖ»Å / Ü Çİ»T
- q 44.1KHz ÇİÈPÅ»x »T



È` çÈÖmçÓeÁÍçÈİÅY ĐxYpİn`à»T



İŞB ÅŠ0à

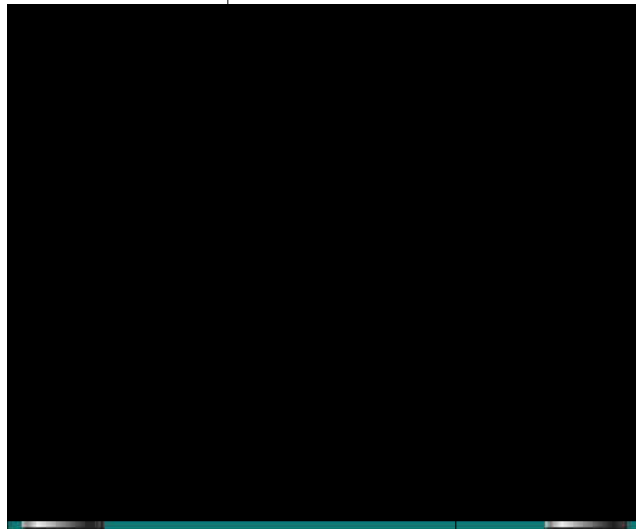
ÅÓÇİÈÈİ0¼ Å0Bi Èäİ' Å»0ãÚÍ çèİ' Å»Í¼0ÅİÅs çUØ Ä` ÚYÄ Å0AOpen Bonus Pack
CD-ROM ¼¼»RÄp0 ÈÄf¼f Åİ çö»X

Bi Èäİ' Å» X:\Mx6eplus\Sound\Driver
ÚÍ çèİ' Å» X:\Mx6eplus\Sound\App

ÅsBi Èäİ' Å»¼ ÇÈ»RÈ¼¼WWindows 95/98 ¼¼¼»RÄ0Ça¼¼¼»W Windows 3.1»S
Windows NT 3.51 0ã Windows NT 4.0 Å0Bi Èäİ' Å»»R¼ Å\E' Åé ç¼¼»AaÅ0ÅQÑ•Åİ
İè»T

Åİ ÅsÚÍ çèİ' Å»¼ ÇÈ»RÄyÅÍ Music Center (Äf¼f 0éÅİ çö)»SMIDI Board 0ã MIDI
Player»T0İ İİ Åé ç¼¼»R»èÈè00İ İ€B Å0x^¼¼0»Ä »T

MIDI Player: çèÅİ0xÄ MIDI Úã



- 3D Controller: ÈÈÄ 3D ÈÈÄX
- CD Player: 0xÄ Çİ00 CD
- Wave Player: 0xÄ Wave È Å»Å0Çİ00

Multimedia Mixer: çèÅİÈÈÄ ÜeÇİ¼¼¼»AaÜe0UÙ çİ Èã Å0ÈÈÄX

İP³/eÍÓ Award BIOS

¿ÓÍÓÈ_Ò»Ã ÀfÀ ÍmŠÁİİeÈeÖa»RÈ' ¿¿YÁé¿è AOFIash Í, Çí%¿Áýİ' À»ÃİÁ Ñ¿UØ
Ã`ÃÖBIOS»T

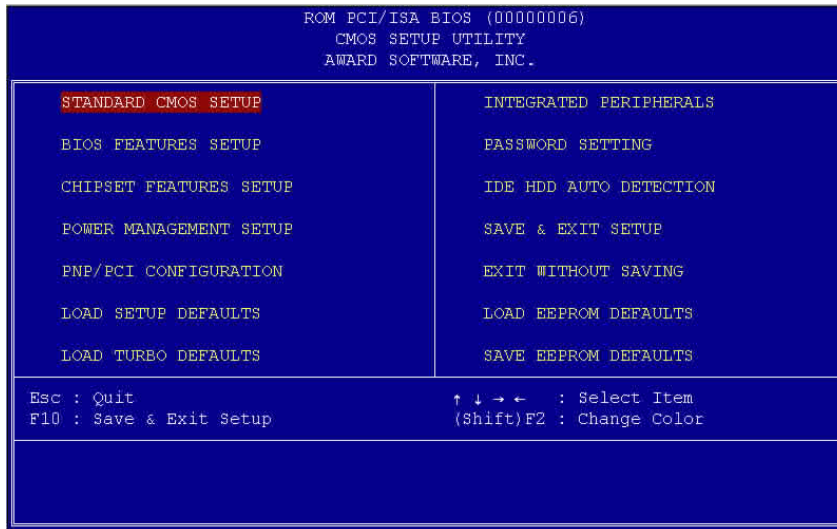


ÇÁÇ€: ÀnÆÈ BIOS codeÑ“ÚYİöÁİİeİ€İŠB ÄÖİnÇfÇnÁ
ÃİÁ Đz»RÃİ ¿Y¿İ İwÈäÄÖ BIOS ÄÃ¿Ö¿zÉúÑ“Öa¿ÓÍÓ%Đ
İeÄÖ%ÖÈv (ÉdÁ`Æ Chipset SetupÈeÖa) ÀÍÄäÈİÄ»T

AWARD BIOS

3.1 Ɖz¼[BIOS Setup ıUÙ Í

BIOS Setup Ɖ ¼QE,À†Á Ā Flash ROM ĀÖİ' Ā»xi »RıZıYıZèÁıÁ Á ĀıİèÈèÒà»RÁY È_¼ĀĀ†Á 128 byte ĀÖ CMOS RAM ¼¼»RĀéıèĀĀfÇƉDz¼ BIOS Setup ¼¼»RıZıÇ€ ĀsƉ"Ø ĀúĀıİèÈ Ā POST (ĀóĀóĪ 0ı) Èā»RĀ ¼ƒ DEL Ā Ūp»RĀ\ıZDz¼ AWARD BIOS Setup ĀÖıUÙ Í »T



Í¼öKIÙ Øö "Load Setup Defaults" ıZØ ¼ĀıİèÈÖŠ ı İñĀSĀÖÈèÒàÇā»WĀıÙ Øö "Load Turbo Defaults" ĀyıZĀéıèØ ĀđĀÖÈèÒàÇā»RĀ ıİĐÑÈ Ø ŪİÍ ĀÖĀı İèİıİ»T

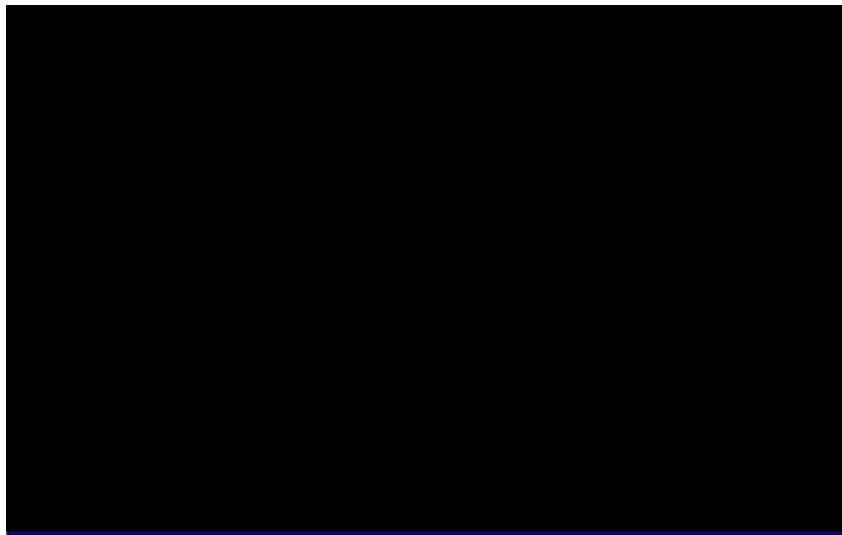
ĀsİvÇÈ¼ƒ¼ Āİ¼QĀ ı` Ā »RĀZDUÈ'ĀfĀ È_ĀXı ÈèİÖĀ Ū Đİ¼ı»RĀfĀ Á Á İñS»RıY%e ĀfĀ È,,¼QÇıİvÇÈİÖĀ ıı¼QÇıİvÇÈ»TĀbıè¼ ĀgŪp»RıZÈ_ĀXı ÈèİÖĀ È ÇñĀ ĀÖŪ Đİ ¼ı»[SHIFT] [F2] ıZĀ BøŪYÓ ĀÖBýıöĀüÈ~»V[] ıZİ Đ"İñSİvÇÈ»W[F10] ıZĀSŪ Đ"Āv ĀıŪā»Tıā¼ƒÇÈ¼QĀ Ɖ Ó ĀıŪ Ā ĐİıöĀÖŪİ¼Đ»T

Ū Ā ¼QÇıĐİıöĀü»RıZıYĀ ¼[] ĀıŪ Ā ĀeĐz¼ƒ¼QÖyŪ Í »T

AWARD BIOS

3.2 Standard CMOS Setup

Ù 0ö "Standard CMOS Setup" ÍnŠİvÇË»RıııYÜ 0öÄİİeÄÖÊ çÖİnŠ»RÀfÙ %ııı
İÜ»SËEäD»%eÖeÖeØ ÄÄÖRÄÖİnŠÇä»TÄéıeÄæıAbıeıı ÄgÜpË_ıeııËeİÖÄ È ÇnÄ ÄÖÜ
Đİ%ıı»RÄRÄéıı Äeıı Ä ÜpİnŠSÜ ĐİÄÖËeÖaÇä»T



Standard CMOS à Date

ÄfÄXË' NıbÇİİnŠS% İÜ»RııııYÄbıeıı ÄgÜpË_ıeııËeİÖÄ Date ÈeÖaİS»RÄRÄ %ııı
ııı Äeıı İnŠçıdÄvÄÖ% İÜ»T% İÜÄÖËeÖaÈ Ä»ÄË% »S% Ä^Ä»T

Standard CMOS à Time

ÄfÄXË' NıbÇİİnŠSÈäD»RııııYÄbıeıı ÄgÜpË_ıeııËeİÖÄ TIME ÈeÖaİS»RÄRÄ %ııı
ııı Äeıı PGDN İnŠçıdÄvÄÖÈäD»TEäD»ÄÖËeÖaÈ Ä»ÄËÈä»S%ııı^E »RÆııı %ıııÈä
% Ä»Ä çö»T%QçÖİnŠSÄÈÈä»Ä^% İÜ»RÄTÄÖÇÄNııD"Ø Ä\ıııÄ=ÄRÇÄNııİnŠ»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

Type	ÀÓÙ ÐĪ çzÍñÃŠĀİİèĀİ ¼pĪĀĀŌ IDE ĪŠŌèĒèŌà »RĀİ ĀfĒvĐ.,
Auto	(Size) »SŌèĒĪ Ōà(Cylinder) »SŌèŪj Ōà(Head) »SŌŠŌā Ū¼(pre-
User	compensation) ĀŌĒpĀ} Cylinder Çà»SŌèŪj ç ĒĀĒé (Landing
None	Zone) ĀŌ Cylinder Çà»SŌèĒĒŌà (Sector) Īç»TŅ Ē'Ē ĒèŌàÇāĪñ
1	ĒĒ Auto Ēā»RBIOS ŅĀsĀİİèĒ Ā Đ"Ō ĀóĀŌ ĪŌi (POST) Ēā»R
2	ĀŌĒāĒŌĪ ĪŠŌiŌèŌèŌ ĀŌ Type»RĀŸĀs Standard BIOS Setup
...	¼Byçöçi Āi »TÇj ĒŌĪ ¼Ā ĪŠŌèĀŌType ĒèÑbĀŌĀ ĪñŠĒèŌà
45	Çā»R×èĪñĒĒ User»TĀfĀXĀİİèĀŸçŌĒĪĀĪŠĀ»ŌèŌèŌ »R×èĒ
	Type ĪñĒĒ None»T
	IDE CDROM Ī¼Ē ĀŌĒāĒŌĪ ĀŌ»T



Ī¼çö : Ē' çzĀb çè çUĪv ÇĒĀŌ "IDE HDD Auto
 Detection" Ū ÐĪĀiĀŌĒāĒŌĪ ĀiĀŠŌāĀŌ IDE ĪŠŌèĪĪ
 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

Mode	Āéçè Logical Block Address (LBA) ŌiĀ»ĐāĒvŌ Ēāç¼pĪĀĐĪ
Auto	Ō] 528MB ĀŌĪŠŌè»TçòĀvçĀĪ ¼ĪĀŌDE ĪŠŌè¼ĀŸĀŸĪ Ā LBA
Normal	ĐāĒvŌiĀ»RĀİpŪĀĀĒvĐ.,Ā»ĐĪŌ] 528MB»TĀfĀXĀéçèĀŌĪŠŌè¼Š
LBA	ĪbĒ Ā»¼ĀĒ LBA On »RĪ_¼ĒÉúçèLBA Off ĀŌ¼ Ā»ĀĪĒiĒā»T
Large	

AWARD BIOS

Standard CMOS à Drive A Standard CMOS à Drive B

Drive A
None
360KB 5.25"
1.2MB 5.25"
720KB 3.5"
1.44MB 3.5"
2.88MB 3.5"

Í, ÇiÙ ÐĪççèÁiÙ ØöÍ€ØèÁÖÝ ÁÆ»R »èİØÈä¼ ÅgÛpÀö Drive A
Àè Drive B ÍS»RÁ [] Àè [] Ù ØöÖaÍ€À»ØèØ ÆÌÈÁÖÈè
ÖaÁj ç»RÂpÍnÁŠÇaÀfçÄ»T

Standard CMOS à Video

Video
EGA/VGA
CGA40
CGA80
Mono

ÀÖ Ù ÐĪ ççÍnÁŠ Ái Áé çè ÁÖ Bý çö çu ÁÆÖR »R Èè Öa ÓŠ ÍnÇa ÆÈ
VGA/EGA»TçèÄ çðÁvÁÖÇi¼YÖ,,Ø¼ÍæÈ¼ÁÖÍhÈ ÆÈ/GA»RÁi çY
Í, ÇiÙ ÐĪİi çXÁdÁÍ¼ÈÖ çèÍS»T

Standard CMOS à Halt On

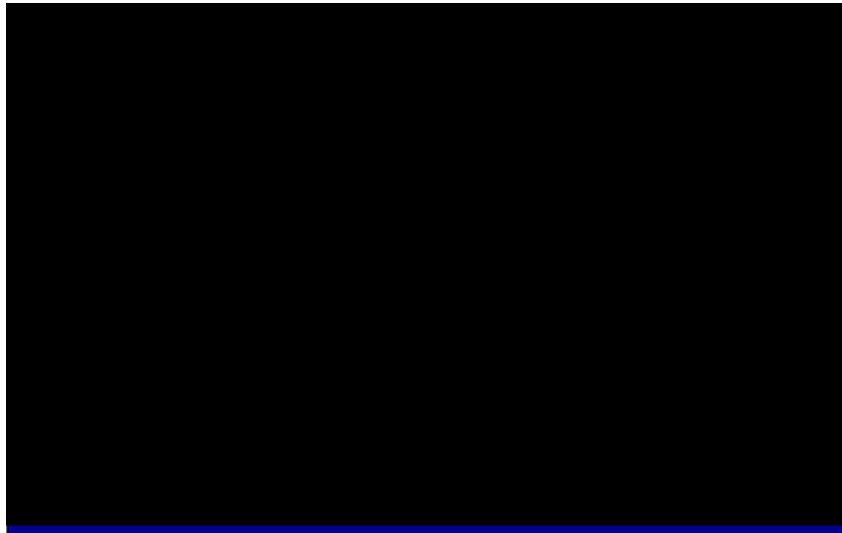
Halt On
No Errors
All Errors
All, But Keyboard
All, But Diskette
All, But Disk/Key

ÀÖÙ ÐĪççÈÈÁİİèÈ À ÀöÁöÍ Òi (POST) Èä»R ÀfÈÖÍ Á Ù Ö•
Æ ÁpÇèÈÈ¼ ÓSÁQ»TÈèÖaÓŠÍnÇaÆÈAll Errors»RÁ çöÁİİèçÇèÈÖ
Î Á Ù Ö•ÁÆf»RÁj ÑÈÈ¼ ÓSÁQ»T

AWARD BIOS

3.3 BIOS Features Setup

ÀfÄXÀsçUÙ Í %4Ù Øö “BIOS Features Setup” ðÏçò»RÁj Ñ”ÀsÜÝÓ %4BýçöÀf%F Ìv ÇÈ»X



BIOS Features à Virus Warning

Virus Warning	ÀÓÙ ðÏ çÏnÀŠÓ,, 0½ÉwE.À0À%ç nÉú»RÁ` BQÏŠ0èÀ0Ð” Ø ÈéÆ,
Enabled	(Boot Sector) %é%4ÍeÄ (Partition Table) %4/Ä ÉwE.ÀZÈçTÀf
Disabled	Ë_Èè0aÍnÈ»ÇEnable »RÁ çö0,, 0½AsÐ” Ø ÓÏÏ’ %3»RÀfÁÍÓ Èa
	Öx%4ÏŠ0èÐ” Ø ÈéÆ, »RÁÏèÁj ÑÈÈ% ÓSAQ»RÁYN”AsÜÝÓ %4çÏ Ì’
	çY%F ÀÓPÍÁZÈ00»TÀ0Èa»R×èçèÈ×Æ.Ì’ À»ÁpçÏ È÷YUÁi Às»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 Swap Floppy Drive

Swap Floppy Drive	ÀÓÙ ðĬ ĵĵ Y%ÔĪÁÍ€À»Ôé0é0 À0À 0~»TÀi Àf»RCj ÁÍÀüĵ<Í€
Enabled	À»Ôé0é0 (A»RB) »RE' ĵĵ YÁ ĀŠĪP%Qĵ<ÆË0é0é0 B»RĪP%X
Disabled	ĵ<ÆË0é0é0 A»T

BIOS Features à Boot Up NumLock Status

Boot Up NumLock Status	ÀÓÙ ðĬ ĵĵ ĩnĀŠŪp×] %Ī Ā00āA..Ūpĵ<Āéĵè0i À»»TĒ_Ēē0āÇāĪn
On	ÆËOn»RĀ ĵöĵB 0āA..Ūpĵ<ĪSĀ 0āA..Ū %ĪĀR»WĀfĀXĪnÆ
Off	Off»R ĀyĀsD"0 ĀuĐāĒūĀéĵèĪy0éĒĒĀ ĵnū»TĒē0ā0ŠĪnÇāÆ
On»T	

BIOS Features à Boot Up System Speed

Boot Up System Speed	Ē' ĵĵ YŪ 0ēĀĪĒēĀ0Ē Ā ĪĪĀnÆ High Āè Low»TĒē0ā0ŠĪn
High	ÇāÆ High»T
Low	

BIOS Features à Typematic Rate Setting

Typematic Rate Setting	ÀÓÙ ðĬ ĵĵ ĩnĀŠĀēĀ È Ūp×] 0i ŪŪÇĀ×ā0gŪ0Ā0ĵnū»TĒ_Ā0Ēē
Enabled	0āĪnÆ Enabled»RĀĪĒēĀĵ ĵĵĒĪĀ Ūp×] 0i ŪŪĪbÇĀ×ā0gŪ0Ā0
Disabled	ĒāĀQ»T

BIOS Features à Typematic Rate (Chars/Sec)

Typematic Rate	ÀÓÙ ðĬ ĵĵ ĩnĀŠÇĀ×ā0gŪ0Ūp×] Ā0ĪĪĀn»RĒē0āÇāÆ 6»S8»S
6	10»S12»S15»S20»S24»S30 Īĵ»TĀĪĒē0ŠĪnÇāÆĀTĒ 30 ÇĪ
8	Ā.30»T
10	
12	
15	
20	
24	
30	

AWARD BIOS

BIOS Features à Video BIOS Shadow

Video BIOS Shadow	Ài Ûñ VGA BIOS Shadow Æ È ÆÿzözuÄÖBIOS Ò Èà×àÕ†
Enabled	Às DRAM È` ØeB %RzçlÁðÀ†IeÄÖÈ À ÈPÌ%RÀnÆ
Disabled	DRAM ÄÖÀ† Â Í†Äñ % ROM Ûó Áð »T Èe Òà ÍnÄŠ Çà ÆÈ Enabled»T

- 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

C800-CBFF Shadow	Í, ÁáÀ Á"Æ È` ØeB Á` ÉuÍÓÛi çCçuÄéçèÄÖ»TÀfÄXÙ Øó
Enabled	Enabled»RÄ†IeÑÈ_Ûi çCçuÄÖ ROM Code ×àÕ†%Qç Á çU
Disabled	È` ØeB (DRAM) ÈéÈ %RÄÓÁøÍ_ÖóÆ Shadow»RççÓWÄ
	Ò ÁðÄÖÍŠÌ'Í†Äñ»T Çj È' %Ä ^ Ñ»Ûi çCçuROM Code ÄÖÄ
	Á"Ò Èa»RççÈ_ÈeÖaÍ'ÄnÆ Enabled»R¼ Ò ÉúÄ` Ýi Ó Æ^ Á
	ÄiÄÍÄÖROM Code»RÄ È ð È` ØeB »T



ÄqÑ_: F000 Ä^ E000 À Á"Æ È^Ä Ä` ÉuÍÓ BIOS Code Ó Æ^Äçè»T

AWARD BIOS

3.4 Chipset Features Setup

"Chipset Features Setup" $\text{Æ}\zeta\text{U}\theta \text{ \AA} \cdot \text{\AA}\text{O}\text{I}\text{O}\% \text{ \AA}\text{i}\text{\AA}\text{ö}\text{Y} \text{ \AA}\text{m}\text{u}\text{I}\text{n}\text{\AA}\text{S}\text{»R}\text{I}\text{, \AA}\text{a}\text{z}\text{m}\text{u}\text{I}\text{, \AA}\text{e}\text{q}\text{a}\text{O}\text{,}$
 $\text{O}\% \text{\AA}\text{O}\text{E} \text{ \AA} \text{ \AA}\text{E}\text{E}\text{u}\text{\AA}\text{I}\text{Y} \text{ »T}$

ROM PCI/ISA BIOS (00000006)	
CHIPSET FEATURES SETUP	
AWARD SOFTWARE, INC.	
Auto Configuration	: Enabled
DRAM Speed Selection	: 60ns
MA Wait State	: Fast
EDO RAS# To CAS# Delay	: 3
EDO RAS# Precharge Time	: 4
EDO DRAM Read Burst	: x333
EDO DRAM Write Burst	: x222
SDRAM(CAS Lat/RAS-to-CAS)	: 3/3
SDRAM RAS Precharge Time	: 3 T
DRAM ECC Function	: Disabled
CPU-To-PCI IDE Posting	: Enabled
Video BIOS Cacheable	: Disabled
Video RAM Cacheable	: Disabled
8 Bit I/O Recovery Time	: 4
16 Bit I/O Recovery Time	: 1
Memory Hole At 15M-16M	: Disabled
Passive Release	: Disabled
Delayed Transaction	: Disabled
AGP Aperture Size (MB)	: 64
Pentium II Micro Codes	: Enabled
***** Jumpless Setup *****	
Manufacture Freq Default	:
System Frequency	: 233 MHz
ESC : Quit ↑↓←→ : Select Item	
F1 : Help PU/PD/+/- : Modify	
F5 : Old Values (Shift)F2 : Color	
F6 : Load Setup Defaults	
F7 : Load Turbo Defaults	



$\text{\AA}\text{q}\text{N}\text{ : \AA}\text{s}\text{\AA} \text{ B}\text{ö}\text{z} \text{ \AA} \text{ \AA}\text{n}\text{\AA}\text{S}\text{\AA}\text{v}\text{»R}\text{e}\text{x}\text{e}\text{\AA}\text{S}\text{E}' \text{ \AA} \text{ \AA}\text{p}\text{O} \text{ \AA} \text{, \AA}\text{a}$
 $\text{D}\text{I}\text{z}\text{O}\text{\AA}\text{O}\text{I}\text{n}\text{\AA}\text{S}\text{\AA}\text{O}\text{z} \text{ \AA}\text{UR}\text{O}\text{e}\text{»R}\text{\AA}\text{p}\text{\AA}\text{y}\text{z}\text{\AA}\text{OR}\text{N} \text{ \AA}\text{O}\text{I}\text{n}\text{\AA}\text{S}\text{E}\text{v}\text{\AA} \text{]}$
 $\text{\AA}\text{ | \AA}\text{I}\text{v}\text{z}\text{a}\text{I}\text{e}\text{\AA}\text{O}\text{E} \text{ \AA} \text{ \AA}\text{I}\text{\AA}\text{n}\text{»R}\text{\AA}\text{e}\text{\AA}\text{n}\text{''}\text{O}\text{\%}\text{B}\text{e}\text{\AA}\text{I}\text{e}\text{\AA}\text{O}\text{Y}\text{\AA}\text{S}$
 $\text{\AA}\text{a}\text{»T}$

AWARD BIOS

Chipset Features à Auto Configuration

Auto Configuration	ÍmŠÀ0Ù Ðİ»RÂİÈÑÁa06 CPU ÄÔ Type Ä^ Timing Äí
Enabled	ÇÄÑ†×i0ÿ DRAM Ä^ Cache ÄÖÇa»TÄfÄXÑbÇ€Äö%ÍmŠ
Disabled	DRAM Timing»R×ê¿ Ä È ÄÖÐİÍmŠ»T

Chipset Features à DRAM Speed Selection

DRAM Speed Selection	Ä0Ù Ðİ¿ÍmŠ DRAM timing ÄÈ 50ns Äè 60ns»T
50 ns	
60 ns	

Chipset Features à MA Wait State

MA Wait State	Èi¿èÄèÄ È %QÇiMA (DRAM memory address) İ¿Ä÷ÄÈ
Slow	ÖR»TÖŠÍmÖÍmŠE Slow»RÄfÄXÇİÄ ÄöÇÄ (chip ÖaD,Ö
Fast	Äy) Äè DRAM İ¿ÄñÖ ÖTÄÖö»R¿ÍmÈ Fast»T

Chipset Features à EDO RAS# to CAS# Delay

EDO RAS# to CAS# Delay	¿èÄíÍmŠ RAS (row address strobe) Öa CAS (column address strobe) ÈeÖÖD»ÄÖİ¿Ä÷ÄÖR»T
2	
3	

Chipset Features à EDO RAS# Precharge Time

EDO RAS# Precharge Time	¿èÄíÍmŠ EDO RAS ÈeÖÖÄÖ Precharge ÈäD» (¿Y clock ÇfÖà)»TPrecharge ÄÈ RAS ÖÄÖ×ÈäAQÄvÄÖÑÄÍàÈäD»T
3	
4	

AWARD BIOS

Chipset Features à EDO DRAM Read Burst

EDO DRAM Read Burst x333 x222	Read Burst ÀÕÑ_ÀpÆ CPU BÄÄ ò ÈaÈa»Rç`Èvçi %QÇí À Á`Èe00»RÀ DRAM Èo060ŠÄŠÄ0À Á`AgCPU Èvçi 4 ÇíÍþP Ä0È`0eB ò Èa»T0ŠÍŋçãÆ x222»RÆ Á ÌÐ»SÌP 3»R%èÌP 4 ÇíÈ`0eB ò Èa0-Èa 2 clock»R0RçèÄ ÍþÄñÆ 60ns Ä0 EDO DRAM»T x Ä0ÇãÄ Ä^Ä ÌP%QÇímemory cycle Ä0ÈäD»»T
--	--

Chipset Features à EDO DRAM Write Burst

EDO DRAM Write Burst x333 x222	Write Burst Ä0Ñ_ÀpÆ CPU Èo060ŠÄŠÄ0À Á`òxçi 4 Çí ÍþP Ä0È`0eB ò Èa»RÄ ç`Èvçi ÌP%QÇíÄ Á`Í0DRAM»T 0ŠÍŋçãÆ x222»RÆ Á ÌÐ»SÌP3»R%èÌP4 ÇíÈ`0eB ò Èa 0-Èa 2 clock»R0RçèÄ ÍþÄñÆ 60ns Ä0 EDO DRAM»Tx Ä0ÇãÄ Ä^Ä ÌP%QÇímemory cycle Ä0ÈäD»»T
---	---

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

SDRAM(CAS Lat/RAS-to-CAS) 2/2 3/3	Ä0Ü ÐíçíŋŠ SDRAM CAS Latency Ä^RAS 0 CAS Ä0ÍçÄ-ÈäD»»TÍ, ÄáÍŋŠçãçz0%Be SDRAM Ä0È Ä ÄÄ ÈÐ»R0ŠÍŋçãÆ 2 clocks»RÄfÄXÄŠ0aÄü»BDRAM ÄÍ%ÄB ÈvÄ0È»Äe»R×èÈ_2/2 Ä ÄÈ 3/3»T
--	--

Chipset Features à SDRAM RAS Precharge Time

SDRAM RAS Precharge Time 2T 3T	çèÄíÍŋŠ SDRAM RAS Èe00Ä0 Precharge ÈäD» (çY clock Çf0à)»IPrecharge ÄÈ RAS BÄ0xÈaAQAvÄ0ÑaÍaÈa D»»R0ŠÍŋçãÆ 3 clocks»T
---	---

AWARD BIOS

Chipset Features à DRAM ECC Function

DRAM ECC Function	çèÁí Èì çèÏaÂ È DRAM ECC çñú»T
Enabled	
Disabled	

Chipset Features à CPU-to-PCI IDE Posting

CPU-to-PCI IDE Posting	çèÁí Èì çèÏaÂ È CPU Â PCI IDE ÄÏ×Š×ÐËé (FIFO buffer)»TCPU ÖxÀö IDE ÄÏÏ ÈàÑç Ä†ÀsÁÓ FIFO ¼Ä»R ÀRÁaÁaÖx¼ HDD»TÀfÁXÈ‘Í, Ì’ ç À ¼¼ÆÈvÄÏÌ’ ÐY»Rçz çYÓÛiÝ ÈÖÄÓçñú»T
Enabled	
Disabled	

Chipset Features à Video BIOS Cacheable

Video BIOS Cacheable	ÀÓÛ ÐÏçzB Ö%ÓÍ BIOS Ä×ËÏÈ,,ÁðÂ È` ØeB Èì Èa»RçlÍ† Ä†ìeÄÏÈ À Í†Äñ»T
Enabled	
Disabled	

Chipset Features à Video RAM Cacheable

Video RAM Cacheable	Í, ÇíÛ ÐÏçzçèÁíÁðÄ Video RAM A000 Õa B000»T
Enabled	
Disabled	

Chipset Features à 8 Bit I/O Recovery Time

8 Bit I/O Recovery Time	ÁÍ¼QÁað ÜÜÄÏ/O ÎÓ¼ »RAsÈ À ÁÓ¼QÇí/O Äcç` Áú»RÕ+ Ç€¼QÇÍ IpÇ ÈaÐ»»R¼ÉúÀRÐ•Ð È À ¼f¼QÇÍ/O Äcç` »T çèÁ çðÁvÁÏ CPU Ä^ ÎÓ¼ ÌìÍ¼Ë_I/O ÄÏÍSi‘ Í†ÄñçlÁð»R ÁeÈ, Í, ÁaÜÜÄÆÏ ISA ÍñÁÏ÷ÇççlÁðIpÇ ÈaÐ»»TÀÛÛ ÐÏ çzB È‘ Á ÁŠÑ ISA çuÆÈ 8-bit Èa»R/O Äcç` ÁoÚÍÍÓÁ†È Ái Ò÷ÇÈÄÏIpÇ ÈaÐ»»TÀfÁXÈ‘Í, Ì’ Ái ÁŠÏaÁÏ 16-bit ISA çuÁÍ¼¼ÆÈvÄÏÈ»Áe»RçzðìÏöÁÏÄ I/O Ípç ÈaÐ»»TBIOS ÓŠÍçCaÆÈ 4 ISA clocks»TÀfÁXÈ ÈeÖaÇaÍmÈNA Èa»RÍÓ ¼ ÌìÑÁoÈaÛ ¼ 3.5 ÄÏÄ†ìeÈaÈu»T
1	
2	
3	
4	
5	
6	
7	
8	
NA	

AWARD BIOS

Chipset Features à 16 Bit I/O Recovery Time

16 Bit I/O Recovery Time	ÀÓÙ ÐĬ ĵĬ ĩŃŠ ISA ĵuÆ 16-bit Èã»R I/O Ācĵ ĀoŪĬĬŌĀĬÈ Āi Ō-ÇĒĀŌĬpÇ ÈãĐ»TĀfĀXĒ Ĭ Ĭ Ĭ Āi ĀŠŌāĀŌ 16-bit ISA ĵuĀĬ%#ÈvĀŌÈ»Āe»RĵđiĬŌĀĬĀ I/O ĬpÇ ÈãĐ»TBIOS ŌŠĬŋçĀĒ 1 ISA clocks»TĀfĀXĒ ÈĒŌāçĀĬŋĒENA Èã»RĬŌ % ĬiŃĀŌÈĀŪ % 3.5 ĀŌĀĬÈÈĀĒ»T
1	
2	
3	
4	
NA	

Chipset Features à Memory Hole At 15M-16M

Memory Hole At 15M-16M	ÀÓÙ ÐĬ ĵĬ Ā Ē ŪĀĬÈ ĒēB ÈēÈ ĬŌĀ ĀŠĀŌ ISA ĵuĀēĵè»RĵY ŪŋĀ Ē Ē ēēB ĀŌ»P»TĬŌ% ĬiĵĒ, ĀŌÈēÈ ĒĬĀĒĀ»ĒĬ ĵĒ ISA bus ĐāŪ ŌĬ Āi ĀŌŌ ÈĀĀ Ē Ōēxi »TĬ, Ēq»RĀŌÈēÈ Ē Ā Ē ŪĬŌ I/O ĵuŌ Ē Ē Āēĵè»T
Enabled	
Disabled	

Chipset Features à Passive Release

Passive Release	ÀÓÙ ÐĬ ĵĬ B È ĒĒĀ PĬX4 ĬŌ% Ĭi (Intel PCI Ō ĒĬ ISA) ĀŌĬbÈãĐāŌŌĵĬŪ»TĀŌĵĬŪĒ ĬbĀēĵèĀsĀĬÈŌĬĀ ISA ĵU ĐŋÈĀĒĒ ĬçĀĬŪ »TĀfĀXĒ ĀŌ ISA ĵuĀĬ%#ÈvĀŌÈ»Āe»R ĵĵYŌŌŌiĵĬŋĀŠĀĒÈ È »T
Enabled	
Disabled	

Chipset Features à Delayed Transaction

Delayed Transaction	ÀÓÙ ÐĬ ĵĬ B È ĒĒĀ PĬX4 ĬŌ% Ĭi (Intel PCI to ISA bridge) ĀŌĀĬŪ ĵ Ā ĵĬŪ»TĵĒĀ PCIĀŌŌ ÈãĐāŪ Ń% ISA bus Āđ»RĀfĀXĒ ĀŌ ISA ĵuŋĀĬ%#ÈvĀŌÈ»Āe»Rĵĵ ĵĬŋĀŠĀŌĵĬŪB PCIĀŌĐāŪ Ō ÈãĀĬŪ »T
Enabled	
Disabled	

AWARD BIOS

Chipset Features à AGP Aperture Size (MB)

AGP Aperture Size (MB)	Í, ÇíĐĪ çò çèÁíÁ^ ĀŠAGP ò ÈàĐaŌŌÈeÈ ÄŌ%4%4»T
4	
8	
16	
32	
64	
128	
256	

Chipset Features à Pentium II Micro Codes

Pentium II Micro Codes	ÄŌ microcode Æ çèÁíÇñçÛCPU ÄŌ bug»RÈ{ÉaÄòĐÍÈ`Û
Enabled	Ōö Enabled»T%4/Ō] Çj È` ÁaÈ ÄÍŌ ÈÄÄŌÍ†Äñ»RçççYÀìŌ`
Disabled	Û Ōö Disabled»T

Chipset Features à Manufacture Frequency Default

Manufacture Frequency Default	Í, ÇíĐĪ çò çèÁíÈ` Û CPU ÄŌÈ` çÛÚhÌ%ŌTÑ Đ"Ō ÈäÄ
Depends on the CPU type	%f "Home" Ûp»RĪ_ÑÄoĪpÄ Ä Í, ÇíÚhÌ%ŌTŌŠĪñçäÆ233
	Mhz»RÇ€Á BŌÍ, ÇíÇâ»RçççYÄéçè flash.exe Í, Çí%çÄyĪ`
	À»»T

Chipset Features à System Frequency

System Frequency	ÄŌĐĪ çò çèÁíĪñŠ CPU %ŌÍ»ÚhÌ%ŌRÇj È`ÑbĪñÈÄ` ÄŌÇâ»R
233 Mhz	çççYÛ "Manual"»RĪ^ Äú%ŪÁ` ĪñŠçççY%ÄÄŌCPU Clock
266 Mhz	Frequency " %è "CPU Clock Ratio "»T
300 Mhz	
333 Mhz	
Manual	

AWARD BIOS

Chipset Features à CPU Clock Frequency

CPU Clock Frequency	Í, Çi Û ÐĪ ç èÁí ĪnŠ ç • Úh (bus clock)»R ç òÁv ç ĀÇÈ%h %ŠAE
66.8 Mhz	Ī „,ĀŌ Klamath CPU Ī½E ç è 66.8 Mhz»T ç YĀ ū ĪĀŌ CPU
68.5 Mhz	ĪnŠ% Ā Ī½¼ĀĀĀ»RĀi ç Y×éÈe0Ī' ĀŌ CPU ŌĀ È»T
75.0 Mhz	
83.3 Mhz	

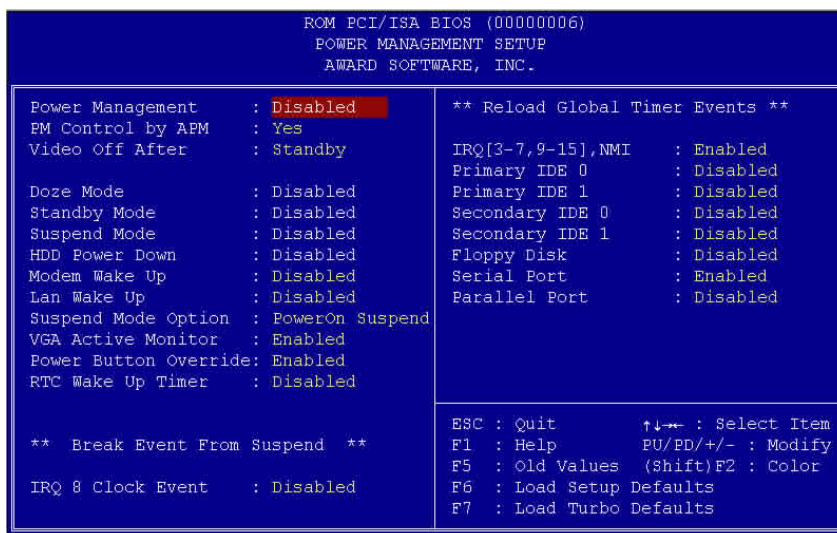
Chipset Features à CPU Clock Ratio

CPU Clock Ratio	Intel Pentium II (Klamath) ĀŌ%ŌĪ» (Èð%ñ) Ōa ç • Ī» (Bus)
1.5	Úh Ī%ĀY%¼ĀĀ»RĪ, Çi Û ÐĪ ç èÁí Ā ĀŠCore/Bus ĀŌ%
2.0	Āi»TŌŠĪçĀE 3.5x»T
2.5	
3.0	
3.5	
4.0	
4.5	
5.0	
5.5	
6.0	
6.5	
7.0	
7.5	
8.0	

AWARD BIOS

3.5 Power Management Setup

Power Management Setup ȳB È' ÍnĀŠĀĪēĀŌĀŌ„ŌŏĪ' ĵnĕū»TĀfĀXĀs;UŪ Í ȳĀŪ
Ōŏ "Power Management Setup" ĐĪ;ŏ»RĀj NĀsŪYŌ ȳĀnBy;ŏĀfȳfĪvÇÈ»X



Power Management à Power Management

Power Management
Max Saving
Mix Saving
User Define
Disabled

ĀŌŪ ĐĪ ȳB È' ÍnĀŠĀŌŌ„ŌŏĪ' ĀŌĀf ĐĪÈēŌā»TĀfĀXÇĒ È
ĀŌŌ„ŌŏĪ' ĵnĕū»R×ē È_ÈēŌāÇā ÍnĒE Disable»TĀfĀX Ín
User Defined ȳȳYĀŏĀ Ū ŌŏĀŌŌ„ŌŏĪ' ĀŌÈēŌāÇā»T

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

PM Controlled by APM	ÀfÄXÙ Øö "Max Saving"»RÎ_ççYB Âîè%pÎÄDzçÓ„Ñ× ÔøÏ' (APM) çñú»RçlË{ÆóÓ„ÔøÏ' çñú»TÂi Àf»XËË¼
Yes	CPU %ÔÏ»ÈäÈúÓSÁQ»T
No	

Power Management à Video Off After

Video Off After	ÀÓÙ ðÏ ççñÁŠBýçöø0Ñ"ÀsÀ ÔðÆóÓ„Ôi À»%fÝ ÍÆÛÝÓ »T
N/A	
Doze	
Standby	
Suspend	

Power Management à Doze Mode

Doze Mode	ÀÓÙ ðÏ ççB È' ÍñŠÂîèDz¼ÔèÉ%Ôi À»ÄÔÈäD»TÀsÀÓÙi
Disabled	À»%f »RCPU ÄÔÓSÁQÈäÈúÑ"BoÔT»TçèÄ ÂîèÆ ÀsÍ„Ó„ÄÆ
1 Min	ÔR¼»RÁi çYËÔÏ Â ç À ÈäÁQÈä»RÍ¼Ñ"çùÁj Á ÍpÁ çÛËq
2 Min	ÄÄÖR¼»TÂîèÆ ÜáçèöäÏ IRQ ÈeÔÖÁi ÈÔÏ ÆÈä»T
4 Min	
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

AWARD BIOS

Power Management à Standby Mode

Standby Mode	ÀÓÙ ÐĬ ĵß È Ĭ ĩŃŠĀĭĕĐz%Ĭ Ā÷Ōi Ā»ÄŌÈĀĐ»»TĀsÄŌŌi
Disabled	Ā»%f »RŃĒĪ ĒĀ CPU ÄŌŌSÄQĒĒĒußŏŌT»RĬŠŌĕŌĀĒĒBĀĀ ĒĀ
1 Min	ÄQ»RÜYŌ Ý ĬĒĬ ĵĵĵ»TĵĒÄ ĀĭĒĒĒ ĀsĬ„Ō„ÄĀŌR%»RĀi
2 Min	ĵYĒŌĬ Ā ĵ Ā ĒĀÄQĒĒ»RĬĬ»ĵĵĵ Ā ĬpĀ ĵÛĒÄĀŌR%f »T
4 Min	ÄĭĒĒĒ ÜĀĵĒĒĪ ĬRQ ĒĒŌŌĀiĒĒŌĬ ĒĒĒĒ»T
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

Power Management à Suspend Mode

Suspend Mode	ÀÓÙ ÐĬ ĵß È Ĭ ĩŃŠĀĭĕĐz%ŌĀĒĒŌi Ā»ÄŌÈĀĐ»»TŌĀĒĒŌi
Disabled	Ā»ÄŌĬĬŃŠĀĬ Power On Suspend ĀĒ Suspend to Hard
1 Min	Drive ĬĵŌiĀ»»T
2 Min	
4 Min	
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

Power Management à HDD Power Down

HDD Power Down	Ń ĀĭĒĒz%ŌŌ„ÄĀŌRĒĒ»RÄŌÙ ÐĬ ĵß È Ā ĀŠ ĬĒĒ ĬŠŌĒĒ
Disabled	ĒĒ% ŌSÄQÄŌÈĀĐ»»TĵŌÛ ÐĬŌ÷ĒĪĀi ĀpĵĀĬĵĀ÷Ōi Ā»Ā^ ŌĀĒĒ
1 Min	ŌiĀ»ÄŌĬĬŃŠĀĬĪĀŠ»T
.....	
15 Min	

AWARD BIOS

Power Management à Modem Wake Up

Modem Wake Up	Í´Ó] AOpen ÄÖÉdÈ x^Ò ÍñÇf»RÍ, Ð çUØ Ä` ççYÄoÊaÊÖ
Enabled	Î Öa06Ø ÄÖÊeÖ0»RÄYçdXçè ATX Soft Power ÄoÊaD
Disabled	Ø »RÍ, ÐÍ çñúÁUËçØRÄi çèÄi Öi ÚÚDaÉ`Ø ÖaIÄÙ Ø »T Öa ÐaIè Green PC suspend mode %ÄaÄÖÆ` »RÄIèèççYÉ` çÛÝ Ø (ÄaÛp% Ä»Æ` ÚaÄuÖ,,Ñ»ÄeÚÍ00ÄÖÇÑÈÈÆ` ÄpÈÈ% ÖS Úú)»Tç`ÈÏÄ»Äe%ÖÈÏÄ»Öa06çU (AOpen MP56/F56) Í½ ççY%pIÄ modem ring-on ÄÖçñú»R%Ä] ÄoÇæÄoPÍÈ` ÖÄ çËúËPçè MP56/F56»RÄnÆ MP56/F56 ÄÍÉdÈ ÄÖÖ,,Ö ÍñÇfççYÖaçUØ Ä` ÄÓÆ ÄÖÑWËç»RÑ ÄIèY Ø Èä»R %ÄÖ- ÇÈÄ çèÝSç`ÄÖÖ,,Ñ»T

Power Management à LAN Wake Up

LAN Wake Up	Í, Çi ÐÍ çòçèÄi ÍñŠÆ` ÄpËi çè LAN Wake Up çñú»T
Enabled	
Disabled	

Power Management à Suspend Mode Option

Suspend Modem Option	çÖÄIèI`Äe%ÄT%XÖò suspend Öi Ä»»RÄÈÈ` È Ä ÄÖÖ,,ÖØ
PowerOn Suspend	Í´ çñú»TÑ ÄIèD%Ä` Power On Suspend ÄÖÖ,,Öi Ä»
Suspend to Disk	Èä»RÐaIèÄÖ Green PC ÑBöÄÄÖaÈä%ÄÄ` ÄÄÖR»RCPU Èä ÈuÈÈ% ÖSÚú»RÄi ÄÍÄÖÍñ`Ä`Ä`Í`Ä` ÍÆT%Ä] ÄIèÈÑ`Ä` Ä Í,,Ö,,ÄÆÖR»RçYÄ` Öa06Ø »SÛp×] »SÄeÑaÖÄÈÖÍ Ä Ä»Èä Èä»RççYÈÄ%ÄÄ` ÄpÄ çÛÈçÖi Ä»%ÄTçç`»RÖÄÍ IRQ ÄÖ Ä»Èä%ÄççYB ÄIèÖaÈÈÖi Ä»Ä ÄoçÛÈçÖi Ä»»T Suspend to Disk ççYÄsÖaÈäY Ø Äv»RÈ`ÄIèÄÄÖR»RÈ` ØeB Ä` ÜÝ Ó Ö`ÖÍÍçÛ`Ä`ÄsÍŠÖe%ÄRÑ Ö,,Ñ»ÇÄÑ`D` Èi Èä»RÄIèI`Ä` Ñ`Ä` Äo Ä` È` Ç ç %Ä ÄQ ÄÖ ÄÆÖR %Ä»T È` çI Ö` Äe çè AOZVHDD %ÄçèI` Ä»ÄÍÄ` ÈuÍŠÖeÄBD»»T

Power Management à VGA Active Monitor

VGA Active Monitor	ÄÖÜ ÐÍ çËÖÍ` VGA Býçö00ÄsÄÖÖ,,ÄÄÖRÈäÄÖÈäÄQ»T
Enabled	
Disabled	

AWARD BIOS

Power Management à Power Button Override

Power Button Override Enabled Disabled	Í,Æ ACPI %ÄÖÍhÈ %Á%Q»TÑ Û 0EEnabled Èa»RÁv% ÇËÄ` %hÄÖsoft power switch çzYçèÁíËËÄ ÄîèÐ"Ø »S ÓaËË (Suspend) ÄèÝ Ø »T ÀsÐ"Ø ÄÖÄÖR%f »RCj Á %f switch»RçSËäÐ»%ÐÄ 4 Æ »RÄîèÄ\ÑÐ%Ä Suspend Öi À»»Wçj Á %f ÄÖËäÐ»ÐhÓþ Æ »R ÄîèÄ\ÑÝ Ø »TÓŠÍnÄÖ ÄÖR%f Æ Disabled»Rsoft power switch ç`ÉúçèÁíÐ"Ý Ø »RÄdÄÍ Suspend»RÄi çY%ÄdÄÍ 4 Æ ÞÜÄÖÇÇÄ »T
---	---

Power Management à RTC Wake Up Timer

RTC Wake Up Timer Enabled Disabled	RTC WakeUp Timer çzYB È`Á ÄŠ%QÇíÉdÄŠÄÖ% ÎËä Ð»»RÄîèÑ"ÄsÍ, ÇíËäÐ»ÄöËäÐ"Ø »T Í, Çí% ÎÜ /ËäÐ»Æ Às " WakeUp Date (of Month)" %è "WakeUp Time (hh:mm:ss)" Û ÐÏ%Ä ÄŠÄÖ»T
---	--

Power Management à WakeUp Date (of Month)

WakeUp Date (of Month) 0 1 31	ÈîÄi "RTC WakeUp Timer" Û ÐÏÄéçè»RçèÁíÄ ÄŠÄTÇí %ÄÄÖÄj %Q%è»TÄiÄj15 Îç_Ä ÄTÇí% ÄÖÄÖ15 ÖÖ»RÍn ÄË 0 Äyç_Ä ÄT%Q%è»T
--	---



×eÄqÑ: È ÄÖÏçòÍnÆ 0»RçzÄéÄîèÄT%èÄsÄa%Q ÇíËäÐ» (çzçè WakeUp Time Ä ÄŠ) ÄöËäÐ"Ø »T

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

WakeUp Time (hh:mm:ss) hh:mm:ss	ÈîÄi "RTC WakeUp Timer" Û ÐÏÄéçè»RçèÁíÄ ÄŠÄöËä Ð"Ø ÄÖËäÐ»»TÄpÈ À»Æ hh:mm:ss»R×eÄqÑ_Äp%ççfËÄÖ Ä çö% Ä»Æ 1 Ä 24»T
---	---

AWARD BIOS

Power Management à IRQ 8 Clock Event

IRQ 8 Clock Event	ÀÓÙ ÐĪ ĵĪ nĀŠĀĭĕÀšĀó,,Ōi À»%f »RŌāĭ IRQ8 (RTC)
Enabled	ĀŌÆĒā»TOS2 NŕŌ IRQ8 (RTC)»QĀŠĪŪ%Ĵp»RĀfĀXĪn
Disabled	ĀŠIRQ8ĀŌĵĪnĪ»RĀsOS2 ĀQÑ•Āĭĕ%F »RĵĒúĪ]Ā Dz%Š ĪnĀŠĀĒŌĀó,,Ōi À»%T

Power Management à IRQ [3-7,9-15],NMI

IRQ [3-7,9-15],NMI	ĀĭĕÀšĀó,,Ōi À»Ēā»RĵzŪāĵĕÀÓÙ ÐĪĒŌĪ IRQ Ī,,Ō Ā^
Enabled	NMI %ĴpÆ ĀpĀĪĵ Ā ÆĒā»TĒ_ĀÓÙ ÐĪĪnÆ Enabled»R
Disabled	ĀfĒ,,Ī,,Ō %ĒŌĪ Ā ĵ Ā ÆĒā»RĀĵ NŕĪ Û Āĭĕ»RĀYĪB Āĭ ĪĒĀ ĀoĵÛĒŌĪÀ»»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

Primary IDE 0	Ī,,ĀāÙ ÐĪĵĪnĀŠĀĒĒ Ē ĪnĪĒĒŌĪ ĵĪnĪ»TÑ ĀĭĕÀš IDE
Enabled	ĪnĪ»RĪĒŌĒ »RĀYĀTĒ »RĀĀĀTĒ ÀšĀó,,ĀĒŌR%F ĀŌÆĒā
Disabled	Ē»Āĕ»TĀfĀXĪ,,ĀāĪnĪĀĪbĒŌĪ Ā ĀĪĒĀŌxĀĕ I/O ÐāŪ ĀŌĒā ĀQ»RĪ_NŕĒ,,ŌāĒĒŌĪÀ»Ā ĀoĵÛĒŌĪÀ»»T

AWARD BIOS

PNP/PCI Configuration à Reset Configuration Data

Reset Configuration Data	ÀfAXÈ`Ài ÀŠ0aÀ0 IRQ ÀeÀiÈèÇÀÑ†À0tÀuÌ, ÇÇÀ×PÀ0È» Àe»RÌ_çÈ_À0Ù ÐÌÌ»Æ Enabled»RB ÀiÈèÇÀÑ†À0tÀÝ À ÀŠÑ†À0 IRQ»T
Enabled	
Disabled	

- 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)

IRQ 3	ÀfAXÈ`Ài ÀŠ0aÀ0 ISA çuAdÁÍ PnP çmú»RÌ_0-ÇÈÀ ŠŠ IRQ Ài`PÌÀ_À0çmú»TÌ, ÀaÙ ÐÌçB È`ÀeÁÁ ÀŠ IRQ Ì0 Legacy ISA çuÁ^ PCI/ISA PnP çuÁeçè»TÑ È`À ÀŠÆ %QRQ Æ Legacy ISA Èa, ÀiÈèÑÌ, À0 PnP BIOS È_Ài ÌÀ0 IRQ À`ÈuÌ0%ŠÀŠ0aÀ0ISA çuÁeçè»TÈè0a0ŠÌnÇaÆ PCI/ISA PnP»R×eÀqÑ_ÀÌÁá PCI çu (0 ÙÙÀÆ0PCIçue½ ç•) ÀÝ%40-ÇÈÀeçè IRQ»RÌ_çZ`ÈuÌ0ISA çuÁeçè»T
Legacy ISA	
PCI/ISA PnP	

- 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

DMA 0	ÀfAXÈ`Ài ÀŠ0aÀ0ISA çuAdÁÍ PnP çmú»RÌ_çÌÐÑÀ ŠŠDMA Í, 0UÀi`PÌÀ_À0çmú»TÌ, ÀaÙ ÐÌçB È`ÀeÁÁ ÀŠ DMA Í, 0UÌ0 Legacy ISA çuÁ^ PCI/ISA PnP çuÁeçè»TÑ È`À ÀŠÆ %QDMA Í, 0UÆ Legacy ISA Èa»RÀiÈèÑÌ, À0 PnP BIOS È_À0DMA Í, 0UÀ`ÈuÌ0Ài ÀŠ0aÀ0ISA çuÁeçè»TÈè0a0ŠÌnÇaÆ PCI/ISA PnP»R×eÀqÑ_ÀÌÁá PCI çuÀÝ%40-ÇÈÀeçè DMA Í, 0U»RÌ_çZ` ÈuÌ0 ISA çuÁeçè»T
Legacy ISA	
PCI/ISA PnP	

AWARD BIOS

PNP/PCI Configuration à PCI IDE IRQ Map To

PCI IDE IRQ Map To	ÁÍ%QÁaò ÜÜÄÖPCI IDE Üi çcçu%4%pIÁPnP çnú»TÍ, Áá çuõ÷Ç€ÁŠòaÁsÁ ÁŠÁÖÜi çcöe%R%ÉúB BIOS ÇÁÑ†Æ Òt PnP ò Ñx»TÀÓçnú%ÓÍñ`Ù Øø PCI Í»öeÍÓ PCI IDE Üi çcçuÁéçè»TÍñÁŠAuto Ñ`àöÈäÆÒt%ŠÁŠòaÁÖ 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#

Primary IDE INT#	Í, ÁüÇíÙ ðĬçĬĐÑĚ† "PCI IDE IRQ Map To" ðĬçòÁéçè»T Ě`ççYÁ ÁŠ IDE %pIÓ PCI IDE Üi çcçuÁÖprimary Á^ secondary Í,,ÓUÁéçè»TÁT%QÇPCI Í»öeÍ`ÁÍçÇí PCI %pçzĬbÁ ÁŠ »TĚ`çĬĐÑç ÍñÁŠ "PCI IDE IRQ Map To" ÁiÁéçèÁÖI»öè»RÁRÁæÁÓÁ ÁŠPCI%pIÓÁi ÁŠòaÁÖÜi çcçu Áéçè»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

Used MEM base addr	ÀÓÙ ðĬçĬĐÑĚ†Ái "Used MEM Length" ðĬçòÁéçè»TÀfÁX Ě`ÁiÁŠòaÁÖ ISA çuÁdÁÍ PnP çnú»RĬçĬĐÑÁ ÁŠĚ` ØeB ÈvĐ,,Ái %pIÁçÁÖçnú»RÁi ÀÓÙ ðĬÁyçzÁ ÁŠÍbÁ`ÉuÁÖÈ` ØeB ÁBĐ»Đ"Á}À Á"»T
N/A	
C800	
CC00	
D000	
D400	
D800	
DC00	

AWARD BIOS

PNP/PCI Configuration à Used MEM Length

Used MEM Length	
8K	ÀfÄXË`ÄiÀSÖaÄÖISA çuÄdÄI PnP çmú»RÎ_çÌDÑÄ ÄSË`
16K	ØeB ÈvD„Äi %pIÄçÄÄÖçmú»TÄÖÙ DÍçZÍnŠÄi ÖçÇÈ` Øe
32K	B ÈvD„»RÄYÍ„ÄØ PnP BIOS È_È` ØeB ÄBÐ»Ä` ÈuÍÓÄiÀŠ
64K	Òa ISA çuÄéçè»T

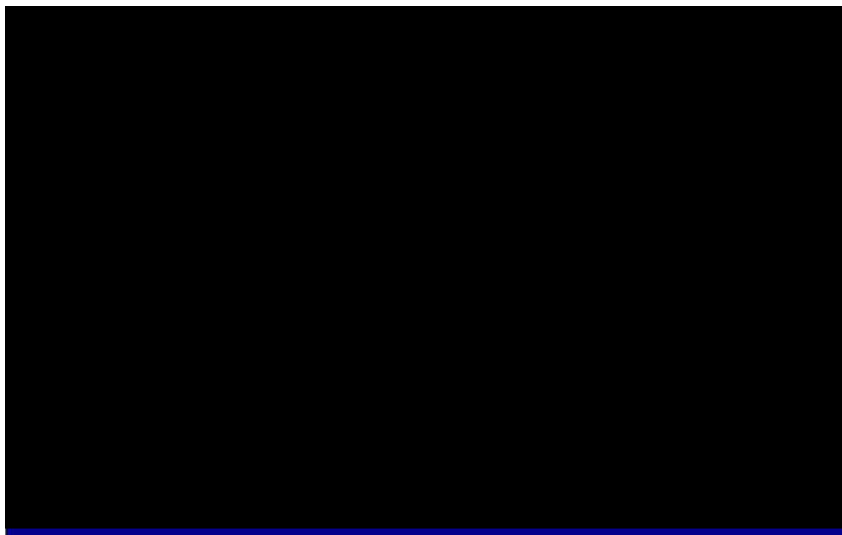
PNP/PCI Configuration à PCI Slot1 IRQ (Right)

PNP/PCI Configuration à PCI Slot2 IRQ

PCI Slot1 IRQ	
3	Í, ÇiDÍçòççYB È`çY%iÈäÄÖ% Ä»ÍnŠÄT%QD PCI Ä çl
4	çuÄÖ IRQ Çà»TÇj Û ØöAuto»RÄñèÈ_Ñ`ÄöÈä%ÄççèÄÖ
5	Çà»T
7	Çj ÄdÄÍÉdÄ` ÄÖÌ` çè»RÄðPÍÈ` Íæ€ÄéçèÓŠÍççAuto»T
9	
10	
11	
12	
14	
15	
Auto	

3.9 Integrated Peripherals

ÀfÄXÀsçUÙ Í ¼¼Ù Øö “Integrated Peripherals” ÐÏçò»RÁj Ñ”ÀsÙÝÓ ¼¼BýçöÀf¼fÏv ÇÈ»X



Integrated Peripherals à IDE HDD Block Mode

IDE HDD Block Mode	ÀÓÐÏçòççÍñÁŠÏŠÓeçYÀyÔeÈe¼¼ À»ÐáÈvÒ Èà»RÁYçzÈ È½
Mode	ÂTÇíÔeÔeÀÔ¼¼pÍSÌ·EaÐ»»T¼Í»ç; ÀÔ IDE ÏŠÔeÍ½çz¼p
Enabled	ÏÁÁÓÐÏççéú»RE¼¼WÒ AÇÈÛçi ÀÔÏŠÔeççéúÁdÁÍççfÁÔÔð
Disabled	ÐáÛ ÕiÀ»»T

AWARD BIOS

Integrated Peripherals à USB Legacy Support

USB Legacy Support	A0Ù ÐÍ¿¿nŠÀÈÀ È USB Ûp×]À0Bi ÈäI'À»TÀfAXÑbÇ€
Enabled	Àé¿è USB Ûp×]»R%AdÀlØRÀi À0Bi ÈäI'À»R¿ZÈ Èè0àIn
Disabled	ÆÈEnabled»TÀ0Ûp×]Bi ÈäI'À»%0À0ÀsBIOS %0»R¿¿0i ÚÚ



ÄqÑ_: ×e%¿¿ÀaÈàÀé¿è USB ÍnÍaÁ^ USB ÐàIèÛp
 ×]»TÀfAXAQÑ•A¿Iè%¿AS0aUSBBi ÈäI'À»R×eÁ
 È "USB Legacy Support" ¿nÈú»T

Integrated Peripherals à USB IRQ Released

USB IRQ Released	USB ÍnÍaÁ0 INTD# 0a PCI slot4 Æ0Àa»TÀfAXÀs slot4
Yes	%hÀS0aPCI ¿u»RÁYÇ€Àé¿è INTD# Èa»R×eÈ_Èè0àInÆ
No	Yes»RÁj Ñ"Á È USB ÍnÍaÁi À ¿èÁ0 INTD# (%¿ÁpÀ



×eÄqÑ_: %QÉ Áí0»»RPCI VGA ¿u%¿0÷¿èÁ PCI %¿/4
 Ûp»R È' ¿¿YÁü PCI VGA ¿uÍ»Às slot4»T

Integrated Peripherals à Onboard FDC Controller

Onboard FDC Controller	A0Ù ÐÍ¿¿nŠÍ€À»0è0è0 Á0¿nÈú»TÀfAXÑbÀé¿è¿•ÈIÀ»
Enabled	Á0ÈÈÁ ¿u»R×eÈ_Û ÐÍÍnÆ Disabled»TÈè0a0SÍnÇaÆ
Disabled	Enabled»R¿¿0 0è0è0 ¿ÛÈQ0SAQ»T

AWARD BIOS

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

Onboard Serial Port 1 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled	ÀÓÙ ðĭ ĵĵÁ ĀŠĵUØ Ā`%41Ā0Ā ÀTĪ†ĒĪ00Ā Á"Ā^%4ĵp»T0Š ĪŕÇāÆĒ Auto»T
--	---



ÀqÑ_: ÀfĀXĒ'ĀĪĀéĵè0 0 ĵu»R×é×eĀŠ%4ĵpĀ Á"
ŌaĀpĵĀĀŌĪnĪāĀŸ%4ĵp»T

Integrated Peripherals à Onboard UART 2 Mode

Onboard UART 2 Mode Standard HPSIR ASKIR	ÀÓÙ ðĭ ĵĵYĀ ĀŠĀ ÀTĪ†ĒĪĒ (serial port2) ĀŌŌiĀ»T
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- **Standard** - Ī,Æ ŌŠĪnĭ ðĪ»T
- **HPSIR** - ÀfĀXĀsŌ, 0%ĀŌ ĪrDA Ī†ĒĪ00%41 %ŠĀŠ ōa%4WE ĵ•x^ĒĪĀÆŌŌ (ĪrDA) »RĪ_ĵĵYĀéĵèĀŌÙ ðĪ»TĪ, ŌōĪnĀŠĵĵāĒvĀ ÀTĒeĒĀŌW 15K ĀžĒd»T
- **ASKIR** - ÀfĀXĀsŌ, 0%ĀŌ ĪrDA Ī†ĒĪ00%41 %ŠĀŠŌa%4WE ĵ•x^ĒĪĀÆŌŌ(ĪrDA) »R Ī_ĵĵYĀéĵèĀŌÙ ðĪ»TĪ, ŌōĪnĀŠĵĵāĒvĀ ÀTĒeĒĀŌW 56K ĀžĒd»T

Integrated Peripherals à Onboard Parallel Port

Onboard Parallel Port 3BC/IRQ7 378/IRQ7 278/IRQ5 Disabled	Ī, ÇĭŪ ðĪĵĵYĒĒĀ %ŌĀōĵÇĀ Ē ĀŌĀ Á"Ōa%4ĵp»T
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AWARD BIOS

Integrated Peripherals à Parallel Port Mode

Parallel Port Mode	ÀÓĐİ çò çzB È·À ĀŠĀYĀTÊ çYÀ ÒòØØÁQ Õi À»Āi ĐaÛ Ò
SPP	Èà»TÈÈ Òà ÓŠ ĪnÇa ĒÈ Normal , %nĪ_Ē SPP (Stand
EPP	Parallel Port) Õi À»RĒĒ IBM AT Ā^PS/2 ĒÈÈvÕi À»Rçz
ECP	%ÓĪnĀYĀTÊ Ās Ī Āg Õi À»%f çY çÛÈqĪġĀñ ØØÁQ »TEPP
ECP + EPP	(Enhanced Parallel Port) Õi À»R%ÓĪnĀYĀTÊ Ās
	Û Āg Õi À»%f çY Īæ% ĪġĀñ ØØÁQ »TECP (Extended
	Parallel Port) Õi À»R% ĪæĒĪġĀñĀ ĀðĀÏÛ ĀgĀYĀT
	Ê ØØÁQ»RĒ çDMA Ā^RLE (Run Length Encoded) Û½
	Ûj Ā^ ÒèÛ%Īj ĀÏ% Ā»Āi ĐaÛ Ò Èà»T

Integrated Peripherals à ECP Mode Use DMA

ECP Mode Use DMA	ÀÓÛ ĐĪ çzB È·À ĀŠ ECP Õi À»ĀÏĀYĀTÊ Āi ĀéçèĀÏ DMA
3	Ī„ÓU»TÈÈ Òà ÓŠ ĪnÇa ĒÈ3»T
1	

AWARD BIOS

3.13 Load EEPROM Default

È'W "Load Setup Default" Óa "Load Turbo Default" %Á¿•»RÈ' %Y¿YÈ_Àó%ÁÓÍn
ÁŠÇÀÀ†% EEPROM %RÁYÁb¿èÀÓÙ ÌÍÇÁÑ†ò %¿»T

3.14 Save EEPROM Default

ÀÓÙ ÌÍ¿È_È'Àó%ÁÓÍnÁŠÇÀÀ†% EEPROM %R% ÁúÇ¿ CMOS Ò ÈaÙ ¿'ÁÈÈ'Áè
ÈÖÀfÀ Ç ¿ ÍnŠÈà»R¿¿à¿è%¿nÇ'ÄÖ "Load EEPROM DEFAULT" ÇÁÑ†ò %¿»T

3.15 Exit without Saving

Û Ð" Setup %¿¿èÍ'À»»RÀ %ÁÑ'Ú<À†Á Á Ó]ÄÖ CMOS Çà»TÀfÁXÈ'ÇÉÚ<À†Ñ†ÄÓÍnÁŠ
Çà»R×è%¿ÇÈ¿èÀÓÙ ÌÍ»T

3.16 NCR SCSI BIOS and Drivers

NCR 53C810 SCSI BIOS %QÜaÈq0€ÀsÀbÀaÄÖÁðÈ'È' ØèB ÍÓ% %RÑ ÁÁÁ†Ìè
BIOS Áé¿è»TÇÈÁé¿èÄ' %hÁÖNCR BIOS»RÈ' ¿ÌÐÑ¿ ÀsÁ†Ìè%RÁŠÒà%Q% NCR
53C810 SCSI ÈÈÄ ¿u»T

ÁiÁÍÁŠÒaÁ Á†è%ÄÖ SCSI Ínà»RÍ½È Ò¿ÇÈÍ€B Bi ÈäÍ'À»»NCR SCSI BIOS ¿¿
Á×ÈÍÀs DOS %F%pÍÁ SCSI ÝŠÀ»ÓèÓèØ »RWindows %è OS/2»T%Y¿YÁb¿è NCR
53C810 SCSI ÈÈÄ ¿uÁiÁ ÁÓÍ€À»ÓèÓèØ Bi ÈäÍ'À»»R¿YDOS È À»%è SCO UNIX
È À»ÁiÁé¿èÍ€À»ÓèÓèØ »TDOS È À»ÄÖBi ÈäÍ'À»%ÁÁ SCSI Ínà»RÆ ¿¿Y¿èÀs
DOS»RWindows NT»RNovell NetWare %è OS/2»TÁi SCO UNIX È À»ÄÖBi ÈäÍ'À»
%ÁÁ SCSI Ínà»R¿¿èÄ SCO UNIX»TÍ,ÁaBi ÈäÍ'À»%¿ ¿èÁ×ÈÍ BIOS Ái %pÍÁÄÖÈP
ÈúÜóÈÄ»T

ÇÈÁé¿èBi ÈäÍ'À»»RÈ' ¿ÌÐÑÈ_Í, ÁaÍ'À»ÀŠÒaÁ Á†èÍŠÀ»ÓèÓèØ %RÁY¿SÈ_¿Á¿LÁ È'
ÁÖÁ†ÌèÍnŠÚa%TÀöÁ ÒiÍiÁŠÒa% Á|»R×èÆÍ, ÁaBi ÈäÍ'À»ÁiÁ ÄÖ README ÚaÈn
%ÄÖÜ»Á »T

AWARD BIOS

3.17 BIOS Update

YAOAOZUO A I/E E BIOS A S%Q00006E EPROM AOEE` 0eB %RÑ 0=CeA Nt BIOS AOEaCi»R:IDNAe:eA EPROM U_U 00»RAi Y%QE Ae:eAAAYI|A|AOA A Nt BIOS»TAiNt%QZ_AOZUO A` %SI%0ZÁ JFlash ROM AiU«At BIOS»RÄpU`UZAsA Ae zèAez`ÇEÍ' 0| %AYI' A»»RA\zAOA A NtNtAAAÖ BIOS»RAUEq% A`»T

A Nt BIOS AOZAOAsA I'AeNtAOZnu»RAe%pIA%QAaZACE%hNtEUZi AOISB »TE' zAe zè BIOS U_U I' A»AiA Nt BIOS AOAÄZÖ»RÇEA È, IaeNtAO BIOS UaEnOaU_U I' A»R xèA/duE' AÖ0x0aEi»RAeAe%yzZ YDz%AOÇaeAÖÖ EÖ (<http://www.aopen.com.tw>) %F Ö (download)»TU_U AvxeAeÄSÈ' AiA È, AÖBIOS UaEnE ZÜxeAÖAAZÖ»R%QE Ai Ö»RE' zZ YÈ,, UaEnAhOoAiAaUp»TAiAf»XCj UaAhAEP5TR110.BIN»RI_Z_A I, A AP5T ZUO A` AÖBIOS»RÄpAAZÖE 1.10»T

AO ÇaeAQ I½Ae %WÄü Çi %AYI' A»»XCHECKSUM.EXE %e AOpen U_U I' A» AOFLASH.EXE»TÄe:e% A|xeEeAi ZY%F AÖASa|»X

[CHECKSUM.EXE]

I, Çi %AYI' A» zZ YÜEE' xeÖ' %F Ö AÖ BIOS UaEn chechsum A ÄpZÜxe»T

1. xeE Ä CHECKSUM Biosfile.bin
Biosfile.bin Ä AÖE BIOS UaEnAÖAhOó(Af AP5TR110.BIN)»T
2. I' A»NByö "Checksum is ssss"»T
3. xe% Ö Ç %AXAs AOpen Ö EÖAè BBS %hAÖchecksum "sss"»RAE:AE:AE ÄpZÜ xe»TÄfAX%ZÜxeAÖ00»Rxe%BÈ Ä U_U AÖEaAQ»RAYÇANt%F Ö %QAÖ»T

[AOFLASH.EXE]

E Ä CHECKSUM I] Ö•Äu»RA\zZ YÄeZè AOFLASH.EXE AiU_U NtAAAÖ BIOS %W»TÍ, ÇiU_U I' A»Nt; UaAuZUO A` %e Super/Ultra I/O IC AÖAAÖÖ»RZYxeA` BIOS UaEnE ZÜxeAÖ»TxeÄqN_»XU_U AÖAAÄu»RQBIOS È_NtÜeÖmÖ»T

1. zè A ÖeÖeZ Y DOS D"Ö %D"Ö »RAYZSxe%BÈ Ä Af ÖoE` 0eB ÖoI' I' A» (Af HIMEM»SEMM386»SQEMM386, ...)»T
2. xeE Ä AOFLASH Biosfile.bin
Biosfile.bin Ä AÖE BIOS UaEnAÖAhOó(Af AP5TR110.BIN)»T

AWARD BIOS

3. ÅsÒ ¼[Ñ†ÅÔ BIOS ÚãÈñÁú»RÍ'À»Ñ'E÷È'E'Æ ÁpÇ€Ë_ÜÜÄÄÄÔ BIOS À†Â ÔéÔe¼¼»R ×eÛ Øö "Y" È_ÂpÀ†ÆE "BIOS.OLD"»T
4. Ú<À†ÜÜÄÄ BIOS ÁÓÌÄÄú»R×eÄ ¼f"Y" Ð"Ä}ÐzÀ Û_Û »T
5. ÅsÛ_Û ÓJÍ' ¼¼»RÜÝÓ Ñ"Byçö¼¼À "FLASHING" ÄÔÈeÈÄ (Û_Û ¼¼)»RÄÔÈe¼¼f ¼¼zÝ Ø »T
6. Ås "FLASHING" ÈeÈÄÈ ç¼Äú»R×eÝ ÍÄÖ,,Ñ×ÄÝÇÄÑ†Ð"Ø »T
7. Ð"Ø ÄúÄ ¼f "DEL" ÛpÐ¼¼ BIOS Setup ÝvÇÈ»T
8. ÇÄÑ†Û ÄŠ "BIOS SETUP DEFAULT" Û ÐÍ»RÈ_Ä†ÈÈÍñŠÄsÍæÝÇÄŠÄÔÄÐR»WÄe ÄæÈ'¼¼zçY×iØyÄÄÇ ç ÄÓÍñŠÇä»T
9. Û Øö "Save & Exit"»RÄ ÀÓÍ_¼¼mzÄÄÈi»Z



ÐÍ Äz: ×e ¼¼Ç€ Ås Û_Û ÓJÍ' ¼¼ (Î_Æ Ñ ÜÝÓ ¼¼By çö "FLASHING" Èä) Ý Ø »T ÀfÄXÄdÄÍÛ_Û ÁÓÄÄÍ_Ý Ø »R Ä†ÈeÈ_ÍJÄ|ÇÄÑ†ÈiÈä»RÈ' Î_çÍÐÑÄ ÎÄ BIOS Flash ROM ¼¼vT



Î¼çö: È' ¼¼zççYÄæÍqÄaÖäÄÖÍ' Áá»R È_ÜÜÄÄÄÔ BIOS "BIOS.OLD" ÖxÄo»T

Ä Ü A ÈqÂ½Ë÷ÝUDÊÒë

Q: ÀfÀ Èé%Ú1BIOS1ÄÄ;ÖP

A: AOpen ¿UØ Ä` ¿UØ Ä` ÄÖBIOS ÄÄ;ÖÑ"By¿òÀsD"Ø Èä POST (Power-On Self Test) Ä Ä »RÍ„ÈqÑ"¿Y R À.D"Új »X

AP53/AX53 R3.80 Oct.22.1996

↙ BIOS revision

Q: ÀfÀ Èé%Ú¿UØ Ä` ÄÖÄÄ;ÖP

A: AOpen ¿UØ Ä` ÄÖÄÄ;ÖÍ½Ñ"Öë¿öÄ PCB %h»RÍ„ÈqÑ"ÄÍ%QÇi¿iÄü¿•ÈòÄY¿SÄ Ä PCI Slot Ä Ä »TÄf¿Y%¿xuÄiÄi¿ò»R×6L ¿_Ä AOpen %ÖÍ»ÄÖÈ^Èñ¿_ÖÖ»Rev 1.2 ÆÈÄÄ;Ö¿_ÖÖ»T



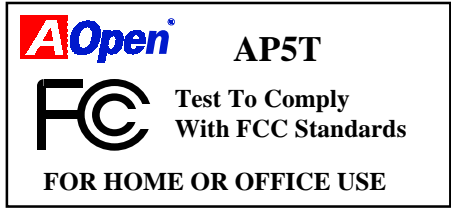
Q: %ÊÖ Æ MMX»Y

A: MMX Æ Ñ"¿Q¿_Intel Pentium PP/MT (P55C) %è Pentium II CPUÄÖÍ Ä ÄyÄ ¿` (single line multiple instruction) ÄöÍ_»RMMX %ÄÄ ¿` ÄsÄyÍTB ÚÍ¿è%hÉdÄ` ÄÍÈP (Äf 3D ¿üb Ö%ÖÍ»S3D ÇÍÈP»SÍ ÈeÑ"ÍÖa0~)»TÄyÍTB ÚÍ¿èÍ'Ä»Çj Äé¿èMMXÄ ¿` È_¿¿ÄÍeÄ Ý×%¿AQÈPÉú»TÄò ðAOpen ¿UØ Ä` %hÄÍÄö%öÜ Ö„Ñ×%pÍP55C»RAY %4Ö=ÇÈÈÈ %ÄÍÖ% Äi%pÄÄ MMX CPU Äj ¿Äé¿èÄÖ%Q¿_ñú»T

ËqÄ½Ë÷ÝUDÊÖë

Q: ÆËÖ Æ IWTTIU, T19Uvt)r.r.tz, €1, vIT, €w ...zÆ»Y

A: U, T1Æ %QÖöÑ†ÄÖIWTTIÍhÈ Ö' ÝiÖeÑa»RÑ†ÖeÑaÍhÄSj 10†Ïiç 19ÄfçUØ Ä` :1Äsçí
 ×eiU, T1ÖeÍÖI9], x, 1:1Eä»Rç; ÌDNÏØE%Ø ÍüÄÖÖÜ »RÄpÍ ÖiÍh×uÆEIEHTWcIBFDB»TçU
 Ø Ä` %Ä1U, T1Í Öi% ÐáÌeIWTTIÍ ÖiÄ çLÁ<Ý »RÄfAXçUØ Ä` Í,, Ö]1U, T1Í Öi»RÍ_ç_
 Ä çUØ Ä` ÄÖIV^ Z Ü ÈxÄUËqT»RÄi çYÈ' ççYçèç; Ä Ä × ÄÖØ Íü19Äj Ä`Æ çèEäAQÄÖ
 Ø Íüç çz»TÄò ð1R` fve1Ñ†%Qç_ÄÖçUØ Ä` Í%SÍ,, Ö]1U, T1Í Öi»R%f ÖéÄj ÆE1U, T1Öe
 ÍÖÖäçÖ»X



Q: ÆËÖ Æ Bus Master IDE (DMA mode)P

A: ÐáÌeÄÖ PIO (Programmable I/O) IDE Ö-ç€ CPU Ä ÄfÄÍÝ IDE ç Í»ÄÖÊ Ä Èä
 ÄQ»Rç; ÆRÍçÄ÷Ø È ÈäAQÄÖÄÖÄÄ»TÆEÍ %CPU ÄÖ%ÄQçÍÖu»ÆBus Master IDE Öä
 Ö~çÄ×EÍÄ†Ä È` Øeß Ö Èe»R%Ä÷ÖxçCPU»Rç; çZÄe CPU ÓSÄQÄ^ È` Øeß ÖHDE
 ÖäÖ~Ð»ÄÖÖ ÈäÐaÈvÄaÈäÐÄ »T%ÄÖ] Bus Master IDE Ö-ç€ Bus Master IDE Bi Èä
 Í' Ä»Ä^ Bus Master IDE ÍSÖeÄi %pÍÄ% ççÜËÈÄAQ»T

Q: ÆËÖ Æ Ultra DMA/33»Y

A: Í, Æ %QÖöÑ†ÄÖÍhÈ »Rç; ðÄÖÄsÄ ÍHDE ÍSÖeÄÖÐaÜ Í%RDÄÌe%ÄPIO Mode ÐáÄeçè
 IDE ÈÈÄ ÄYÖÖ%Ä%Äç(ç) (Rising edge) ÄiÐaÜ Ö Èä»RDMA/33 ÄyçZÄaÈÄeçè%Äç^
 %fç(ç) (Falling edge) »RÄnÄÖÖ ÈeÐaÜ Í%Æ PIO Mode 4 Äe DMA Mode 2 ÄÖÄü
 ÇÜ»R(16.6MB/S x 2 = 33MB/S) »T
 %fÄ ÄTç; i IDE PIO Ä^ DMA Mode%ÄÐaÜ Í%RDÄn IDE ÐnÄÈÄÆ 16 bit»RÄXÄTÄÖÐä
 Ü Æ 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

Equation: YUDEÖe

Mode	Clock per 33MHz PCI	Clock count	Cycle time	Data Transfer rate
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: Ultra DMA/33 (Driver)

A: DMA/33 (Driver) » Intel PIIX4 Driver Win95 Memphis » Quantum Fireball ST1.6A »

Model	OS/Driver	Mode	Winbench97 Disk Winmark (Business)	Winbench97 Disk Winmark (High End)
Quantum Fireball 1.2G	Windows 95 OSR2	PIO mode 4	717	2150
Quantum Fireball 1.2G	Windows 95 OSR2 + INTEL PIIX4 driver	DMA mode 2	822	3050
Quantum ST1.6A	Windows 95 OSR2	PIO mode 4	853	2630
Quantum ST1.6A	Windows 95 OSR2 + INTEL PIIX4 driver	DMA/33	1040	4020

Q: ACPI (Advanced Configuration & Power Interface) OnNow

A: ACPI 1997 (PC97) » Green PC BIOS » Ultra I/O » (Standard Register Interface) » (Register Interface) »

ACPI Momentary Soft Power Switch » ATX Form Factor » Momentary Soft Power Switch » (Notebook) » "OnNow" »

ÈqÀ½Ë÷ÝUDÈÒè

Q: ½ËÒ Æ AGP (Accelerated Graphic Port)

A: AGP Æ ¼QÇíÝ À PCI Ðñ#ÈÈÀÄÖÑ†¼DCÈ»R;UÇε;ò0èÀsÁ ÈÄÈPÉú 3D Ý00éÄ0ÚÍ ¿è»R À Ðà ¼P ÎÄÈ` ØèB BÄÖxÈÄÁQ (Memory Read/Write Operation) Á^ ¼QÓ ¼Q Ðá Û (Single-Master Single-Slave one to one only)»TAGP Áé¿è 66 MHz Clock Ä0¼h ×† (Rising Edge) ¾è¼f ×† (Falling Edge) Áí Ðá000 Èà»RÆXÐáÛ Ì¼ÈÈ66MHz x 4 Byte x 2 = 528MB/S»TAX6LC Áé¿èÄ0 Intel LX Î0¼ Á\ ¿¼P ÎÄ AGP ¿¼ñú»T

Q: Áó0íÀfÀ ÁáÛ Windows 95 Ä0ÄÄ¿0Ä`P

A: È' ¿¿YÄæÑí ¿Y¼f Ä0ÄSa[Áí ÚáÏ Windows 95 Ä0ÄÄ¿0»X

1. Á Äü¼f »~ÈÈÄ ¿<»¾¾Ä0^ÄÏè»%0é¿ö»T
2. Û Ä »^¼QÉ »%0èBi»T
3. È,,»^ÄÏè»%0èYU¼f »RÈ' ¿¿YÏ^ Ñ»Ä0Æ¿¿iWindows 95 Ä0ÄÄ¿0»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

Q: LX/EX/TX/BX ¿U0 Ä`Ä0Ä†ÌèÀSÐàÀ€ Win95 Áú»RAs»^0à0-0øÌ' Ç »¾¼fÑ"¿iÏ'Ïi Çí "¿" ÌB00»RÄóÚÍ0íÀfÀ È È¼Ä, ÁáÈ÷00Ä`»Y

A: Í, ÁáÈ÷00Æ ¿èÄ Win95 Ï|Ä| ¿Û×eÛ Ýè LX/EX/TX Î0¼ Ïi Ái Ça»RÁj ÁèÁfÄ0»RÈ' Ä0 ÄÏèÄæÍ^ ¿¿Y¿ÛÈq0SÁQ»T¾¼J È Á ¼Q Áá Áé¿è ÁæÄ0ÇÈÁU»RÄóÇæ¼ñ¼Áè ¼M¼Q Çí AOchip ¼ÄýÏ' À»R¿¿ÈÁf È' 0èÄ^ Í, Çí È÷YU»TÍ, Çí Ï' À»Áé¿è¼h ÁUÈqÛÄ »RÁi ¿S0R ¿èÄ Ái ÁÍÄ0 LX/EX/TX/BX ¿U0 Ä` »RÁi ¼¿`ÇÇÁSÁ AOpen Ä0Ï¼Á•»T¿¿ÇÈ' ÐÈÈ, Áé¿è»R¿¿YÄó¿è¼f 0 ÓaÏÏÏ, »T¿¿¿¿ Çj È' ÑbÇÈÁé¿èUSB 0à0~»RÛó¿ÌÐÑÁÏUSB Bi ÈáÏ' À»»RÍ, Às Win98 ¾¾È_ÑT¼Áè»T

Ä Ü B ÜÏÃ ÅXÕóÈàÊ½

òf%QÈ' Ó[Ä È:ÝU»R%Ä ATT' Áá¿z;YUÊÁf È' àóÁóÚaÍ »RÄfAXÌP%QDÍI]ÈP×eÈIÍóòrÌP%Å
DÍ»T



Î½ ö: ÁÍÍmÿÁÍ¿eÄÖÖ ÈàÀsÁóÇæÄÖÖ ÇD%Ö»RÄf jumper
ÍnÄŞÇa»RÍæÑ†ÄÖ BIOS %eBi ÊäÍ' À»»RÈqÄ½Æ÷YUI¿¿¿»T
×eÍÇÍiÁóÇæÄÖÖ ÈÖ»RÈ:È:È ÁpÄÍÈ' Ö:ÇÄÖIÄÈñ»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: ÀsÎ^ÂUÖxØaÊíÄ Áf%ÁÁv»R×e×eÄŞÈ' %ŞÖiÓ]¼ÄT
ÅXÕóÈaÊ½' Áá»RÄYÖx%Öi¿iÄÖÈ÷YUIÇÇ' »R¿nÆ¿UØ Ä`
ÄÄÖ»SBIOS ÄÄ¿ÖI¿¿»TÍÇÇ' ÀrÑfÖi¿i»RÁóÇæÍSI' %eÖë
Ä^ÄÖI¿ÄñÑfÄð»RÄöPÍÈ' ¿è email Äè FAX»RÖ,,ÖöÑÖI,,Ö
Í]ÈPÌ%ÇSÄ Ä ×^»RÈ' ¿¿YÁb¿èÄ Ü ÄÖÈ÷YU%eÚÍÄ
(Technical Problem Report Form)»T

ÜÛÄ ÅÖÖËÀË½

ÜÝÓ ¼BýçöK

- ×eÚáÄ Jumper Æ ÁpçÜ×eRñÄpÆCPU ÅÄÖ»RÍ /Ü Ö,,Ñ× (P54C/MMX)»RCPU ÜhÍ%çÜÜh¼ I%»T
- ×eÚáÄÖ,,Ñ×Ëà×^Æ ÁpËÏ%ÄeÏØÀ (CPU ÇÑËËÆ ÁpçÜËqÓSÜú)»T
- çUØ Ä`ÀÍÍ]¼çÜËq^ò Ì`ÐY(Ö,,Ñ×ÇÑËËÆ ÁpçÜËq)»T
- ×eÏØË!ÄÍ!ÐÇËçu%eÍ€ /ÏŠÖËËà×^»Rç^òá¼BýçöçUçYÜÏ%ÄËÝU»T
- ÀfÆ PCI Býçöçu»RÁ ÎÄpçÀPCI Î»ÖeÄeÆ BýçöçUòÏ»T
- Ë`ØeB (SIMM/DIMM) Æ ÁpÅŠòàçÜ×e»RÁ ÎÄË`ØeB Î»ÖeÄeÄpç]Ë`ØeB »T
- ÚáÄÏŠÖËËà×^ Pin 1 ¼ ÄgÆ ÁpçÜ×e»T

ÄÏÜÝÓ »RÀ "Ñ "ÄsÏP¼QÇiÏvÇË»RÍ |Ä|Ðz¼[BIOS ÍnÄŠ:

- ÚáÄÜp×]Æ ÁpËÏP¼Ä"»R×e¼ÜÏÄNum Lock ÜpÄÆ LED Æ ÁpçÜËqÜZÜ»T
- ÚáÄ Turbo Switch Æ ÁpPÜÄ (Release)»R×e¼BÄsÐ"Ø ÄvÄçè Turbo Switch»T (Pentium çY¼hØ Öð%ŠÏTurbo çmú»RTurbo Switch ÍbÑ ÄÄ Suspend Switch çè»T)

ÄöËä Reboot»RÇÄÜeÐ"Ø :

- Ë_CMOS Ì^Ë»BIOS ÑBÄÄ ÖŠÍçä (default)»RË_ÄÏeÍnÄŠÄÄÄYÇÄŠÄÄÖR»T
- Ü Íq "ÜÝÓ ¼Býçö:" ÄÖÚáÄ¼ Ä»ç[ÏíÚáÄ»T

ÄÏÜÝÓ »RÄ Ï|Ä|Ð"Ø :

- ÏŠÖËË|Ä|Ð"Ø »RÚáÄBIOS ÄÖÏnÄŠÆ ÁpÆLBA (Í,,ËqèvD,,¼Ä 540MB) È Ä»»T
- Ë_BIOS ÍnÄÖŠÍçä (Setup Default)»T
- Í€ÖeÐ"Ø Æ ÁpçÜËqRÄfÄXçÜËqRçéúÆ ÏŠÖËËà×^ÄeÏŠÖËçÖÄÇ»T

ÏŠÖeØ Ï|Ä|ËÖÏ ÄÄçm(HDD Controller Fail»Rcan't detect HDD):

- ÚáÄÏŠÖe¼Master/Slaver ÍnÄŠÆ ÁpçÜ×e»T
- ÚáÄÏŠÖeËà×^ÄeÄ ÎÄpçÄÏŠÖe0Ï»T

ÜÏÃ ÅXÕóËàÊ½

Í€0é/ Ña0Á/ Å]Ä Ø ¾¼ÛËqÃeÍ]Ä|¾¼ÁQ:

- a. ÚáÆuÍ€0é/Å ÅT/ÅÝÅTËá×^Æ ÁpçÛ×e»T
- b. Ð"Ó,,Ñ×ËaÍ€0é0éÚj Æ ÁpËaÁQ»RÁ ÎÁÁpçÁÍ€0éÑa0Á/Å]Ä Ø òiòì»T

Ð"Ø ÈãÛp×]Í]ËaÁQÃè BIOS ßýçö Keyboard Controller Error:

- a. ÚáÆuÛp×] LED Û` (Numeric Lock) Æ ÁpÃ ÑÚçÛËq»T
- b. ÚáÆuçUØ Ä`Ä`ÚZÎÑ(Fuse) Æ ÁpÛ_Ûp(ÃéçéÓ,,Û ÚáÆuÆ ÁpÍ^Ø »RÁ`ÚZÎÑÀ ò~ÀsÛp×]Î»Ë0Ëá»RÍ,,ËqËË0 Åü0éçöÆ F1, 3A/125V»T

Í]Ä|Ú<À† BIOS Setup ÃèÓ,,ÀÚÁdÓ,, (COMS data lost, Battery Low):

- a. ÚáÆuÓ,,ÀÚÆ ÁpÁdÓ,, (ÁTÄ 2.5V)»T
- b. ÚáÆu Clear CMOS Jumper Æ ÁpçÛ×e»T

ÜÏÃ ÅXÕóËàÊ½

Technical Problem Report Form	
<p>Ï¼Å • Model Name:</p> <p>Åá00 Serial Number:</p>	
<p>ÛfÏ0%Å Contact:</p>	<p>Name: _____</p> <p>TEL: _____ FAX: _____</p> <p>Email: _____</p>
<p>Ê÷ÝUÏ(Ç Error Symptom:</p>	
<p>Â‡ÏèÏÏÔR (×è0î Ç ÅÅ00%eÄÄ¿0) System Configuration: (Please list model name and version.)</p>	<p>OS: _____ BIOS: _____</p> <p>CPU: _____ SIMM: _____</p> <p>HDD: _____ CDROM: _____</p> <p>VGA: _____ Sound: _____</p> <p>Modem: _____ Others: _____</p>

Ä Ü C Jumper ÍnÄŠÄ

Ü Øö CPU ÚhÌ%

Í, Ð çUØ Ä`Æ ÈPçèÏ Jumper ÍnÄŠÄ Jumper Ä` Clear CMOS»RÍ, ççYçèÄ Äë È`È`xi ÄÖÈ»Äf»T

ÍnÄŠ CPU ÚhÌ%ÄÖ% Ä|Æ:

BOIS Setup à Chipset Features Setup à CPU Clock Frequency
(çÉúÄÖÍnÄŠçÄÍ 66, 68.5, 75 óa 83.3 MHz)

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

INTEL Pentium II	CPU »ÜhÌ%	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
Celeron 266	266MHz=	4x	66MHz
Celeron 300	300MHz	4.5x	66MHz
Mendocino 300	300MHz	4.5x	66MHz
Mendocino 333	333MHz=	5x	66MHz

Ü Øö CPU Ó, Ú½

çÖçUØ Ä`»PÍÄPentium II (Klamath) VID çnú»RççYλóÈäÈÖÍ CPU Èð»ó, Ú½»RÄp xuÍ Às 1.3V Ä` 3.5V »Ä»T

