AX6L

Âé¿è¾ä¿f

Printed in Taiwan

AX6L
Mainboard

Âé¿è¾ü¿f

¾ÿ¿ ¿_ÒÓ	: AX6L-1-C9710A
¿UØ Ä`ÄÃ¿Õ	: For AX6L revision 1.xx
Âé¿è¾ü¿fÄÃ¿Õ	: English, revision A
¿¡ÄÃ¾ ÎÛ	: Oct 8, 1997

ÇjÕ÷Ç€Á ÒîÌíÄÔÒ Êe» R×êÊëØmÁôÇæÄÔÔ ÉÛK

Taiwan	*http://www.aopen.com.tw*
USA	*http://www.aopen-usa.com*
Europe	*http://www.aopen.nl*

¿ÕÂé¿è¾ï¿f ÄÔÄÃß‰Þ÷Ã Åò ðÄë¿ ÀÍÇÇ¾×¿„»TÅUÒx¿Õ¾×¿„ÈëÇËÍ‰z»R¿ À ¾YÁ»¾Ë, Æ¿ À ¿òÄÔ»RÀíÂé¿è¿ À ¾ Ä|ÃèÁèÀ»»R×àÕ†»SÐáÊvÃèÜúÞÐ¿Õ¾ÿ¿ ÀÔ¿ À Í»¾Û»T

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ÍÓÒqÑÁÇ€

ÌÞ¾ÑÍÓ11ÜÌ¾D

¾ÐÌêÂ‡ÏèÍhÈ ¾eÉdÈ ¿ŕÉú»T

ÌÞ¾ÑÍÓ11ÏŠß ÀŠÒà

ÏŠß ÀŠÒàÄÔ的Ý Ò Èà»R¿ŕ‡ Jumper Ã^ ÊÏÚj (Connector) ÄÔÀ Ò~»RÀŠÒàÊ`Øêß Õ÷Äq Ñ_ÄÔÂàÐÏ»T

ÌÞ¾eÍÓ11AWARD BIOS

AWARD BIOS ÄÔ的Ý Ò Èà»RÀfÊëÖàÍnÃŠÇâÄÔÑ_Ò„»R¿Y¾eÙ_Ù Ï'À»ÄÔ¿èÄ|»T

Ä Ù 1A Jumper1ÍnÃŠÄ

ÃìÀÍ Jumper ÄÔÀTÄ »T

Ä Ù 1B1ËqÂ½Ê÷ÝUÐÊÒë

Âé¿èÈãËqÓ[Â ÄÔÁøÍ_Ê÷ÝU»T

Ä Ù 1C1ÜÌÃ ÆXÕóËàÊ½

¿ŕ‡Â ÁfË'ÒëÂ^ Ê÷ÝUÄÔÒ ÈàÕaÅòÞÍ»T

Óé¿öÕ»Ã

¿Y¾ƒÆ ¿Õ¾ü¿ƒ Ëզ èÄÔÓé¿öÕ»Ã »X

×êÄqÑ_
Àa¾Ø¿UÝU¾ÁÆö Ý Õ»Ã »T

ÞÏÁz
¾Ñ ØøÁQËã»R¿zÉúØãÇaÀ^ÚZÅûÄX»T

×ê¾ƒ¾ù
ÓŠ¿ ÂØ×uÊ÷ÝUÏ,¿çÄÔ¾ Ä|»T

ÇÅÇ€
ΈÙ Ë'ØøÁQÇÅÜZ»T

È¿ö
ΈÊÄ¾ ÁQÈPÌ%ÄÔØøÁQËÐÈ"»T

iv

¿òÙ

ÌÞ¾QÍÓ

ÜÌ¾D

AX6L Æ`¿Y PCI/ISA ÆÊÆlÔtÄÔ **ATX** Pentium II ¿UØ Ä`»RÂþÃìËÞ¿èÄÔÎÓ¾ ÌïÆ`Intel **82440LX** PCIseÞ»RÀÓÎÓ¾ ÌïÆ`Ë^ÆÊentium II CPU ÍnÇfÄÔ»R¾þÎÃ¾ÞÀf ÔòÍæÑ†ÄÔÍhÈ»R ÂìÀf **AGP** ÓéÁèÍ†ËÏÊ»SSDRAM»SUltra DMA/33»SBus master IDE ¿Y¾è **USB** Í†ËÏ Ê Ï¿»TAX6L ¾þÍÃ 4 Ë 168 pin ÄÔ **DIMM (Dual in-line Memory Module)** Î»Öë»R¿z¾Ó Ím 3V ÄÔ EDO Ã^ SDRAM ÂÝ¿è»RÍæ¾{Ê`ØêßÈvÐ„¿zÓW **1GB»**TÍ,Ð ¿UØ Ä`¾hÂÝÂdÀÍ¾Ô Åò L2 cach2»RÀméÊÍ,¾ŠÖx¿ñÁ‡Às **Pentium II CPU card (connector SLOT1)** ¾¾¾W»T Àó¿•»RAX6L Âé¿èÄÔÆ` **2M bit Flash ROM**»RÃì¿YÓ ¿ÖÂíÑ†Öh¿éúÄÔ¾þÎÃÉú¾` »RÑ Ï^Æ` Á ¿lÈvÃ ¾W»TÊ½À0¾Á¿•»R AX6L ÛóÂýÍà¾ÀyÐÏ¿ ÐzÄÔ¿éú»X

Ï] jumper ÍnÇf (Jumper-less)

AX6L Â È ¾WÏŠß [ˆ~ƒv.1ÀÔÍnÇf»RTaf1Ó„Ú½¾èÚhÌ‰¿z¿YÀõÊäÊÔÎ Ãè¿ëÍ€ß ×ïØý»RÂþÍn ÃŠÇâÚ‹À†Às¾Õ÷Ó„ÀÚÄÔ EEPROM ¾Ô»RÎ½ÂëÂé¿èÄæÁ ÀyÄÕ¾ Å\»T

ÌÞ¾Q¾ ¾Õ÷Ó„ÀÚÄÔ¿UØ Ä` (Battery-less)

AX6L ÄÔCMOS ÍñÏŠÕ ÈaÚ‹À†Às¾Õ÷Ó„ÀÚÄÔ EEPROM¾Ô»R¾Ðâ ÀfÀÓ»RAX6L ÄÔ RTC Èã ÞÛ×ˆÒ (real time clock) ¾ń¾Õ÷Ç€Ó„ÀÚ»RÀmÀÓ AX6L Æ` ÌÞ¾Q¾ ÀÍÚ Å`ÑÃÄÚÄÔ¿UØ Ä` »T

Ú Ð»Ð"Ø (Suspend to Hard Drive)

ÓS¿èÍ,ÐÏ¿éú»RÐ"Ø Èã¾ÀRÕ÷Ç€ÄûÂÔÕ Ä ÄÔÈãÐ»ÇÅÑ†Ò ¾{ Win95»SOffice ÃèÂþ¿ÀÍ€ß ¾W»RÀí¿zÄ×ËÏÀ ÎpÇ ¿ Ý Ø ¾ÁÂvÄÔÄÆÔR»RÆõ¿yÒ ¾{ÁQÑ•Â‡Ìè¾èÚÍ¿èÏ'À»ÄÔÍÜÑê»TÀ ×ê Âé¿è VESA ÍhÈ ÆõÈvÄÔPCI VGA ¿u (Àƒ AOpen S3 PV70/PT70)»RSound Blaster Æõ ÈvÄÔ ÇÏ ÈÞ¿u (Àƒ AOpen AW35/MP56) »RRockwell Æõ ÈvÄÔ Modem (AOpen F56/MP56)»R¾•Éú×eÅ`Í,Çí¿éú¿Ù×eÓSÁQ»T

ÜÏ ¾Ð

Öà0ô0 Í Ù (Internal Modem Card Wake-up)

Áb¿è ATX Soft Power Äô¿nŕú»RÂ‡Ïè¿z¿YÀsÝ Ø ÄÔÄÆÐR¾f»RÒx¿ëÖà0ô0 ËìÊäÂŶÀõÊäËÏ ß¿Ó„Òö»TÍ,ÐÏ¿nŕúÅUËŕRÀi ¿èÂíÖìÚÚÐáÉ^Ø ÕaÏÄÙ Ø »RÀíÍæ¾ÄÔÆ É”ÀsÃ »RÊ½Ð4WÐáÏè Äô¿•ÏÏÀ»Öà0ô0 ¾Á¿•»RÈ‘Ûó¿z¿YÂé¿è¾ÔÏÏÀ»Öà0ô¿u (Internal Modem Card) Âí¾pÏÄÀÓ ¿nŕú»T Ë‘¿z¿YÂé¿è AX6L ÑÆ‡ MP56 ¾ÔÏÏÀ»Öà0ô¿u»R¿ÇÈäÈò¿ÕÏ]Õ÷¿èÂ ÝS¿•ÄÔÓ„Ñ×»T

ÍnÄŠÀõÊäÐ”Ø Èäб (RTC Wake Up Timer)

Í,Çí¿nŕú¿ß Ë‘ÓŠ¿ ÄŠÒ„À€¾QÇíÈäÐ»»RÂÑ ÈäÐ»¾QÂ »RÂ‡ÏèÅ\Ñ̀ÀõÊäÐ”Ø »TË‘¿z¿YÈ_ Ð”Ø ÈäÐ»ÍnÄŠÀsÂTÇí¾ ÄÔÆj ¾Q¾ë»RÃèÆ` ÂT¾ÄÔÆj ÇíÈäÃ »TÂþÔ ×eÀñ¿zÓWÂ Æ »T

ÀaÂS¿ ÎÀÀ» CPU ÝÇÚ½×^Ò

ÀaÂS¿ ÎÀÀ»Ò ¾QÉ ÄÔÅUÀaÂS¿ ÎÀÀ»ÂýÀÍÁ ÊÄÄÔÈÞÌ‰»T¿Y¾QÉ ÚÍ¿èÂíÂ¿»RÀaÂS¿ ÎÀÀ»ÄÔ ¾ÁQÑßÅñË_ÕÑÁTÄ ÅUÀaÂSÀ»»T

3V Ó]Ó„ÆÐÅ`ßQÓ„Ò

ÀsÐáÏè +5V/+12V Baby AT Ãè ATX ¿ ÎÀÀ»Ó„Ñ×ÂëÚÍÏ0Ó¾h»RÓ]Ó„ÆÐÅ`ßQÆ ÀöËŕÀ¼ÄÔÓ„ Ò »TÓ Ã ÒàØ Èã¾2¼f¾uÄÔÏ^Ò »RÓ]Ó„ÆÐÅ`ßQÄÔ×eÀUËŕÀÍÈÞ»RÀ Ñ†¾Q¿_ÓÐPU ¾èÏÓ¾ ÏïÂé¿è 3.3V Ãè 2.8V»RÂþÐ÷Ç€ÝÇÚ½Ó01C ÄÔÚúÏÀ»RÇ ÂíÄÔ+5V/+12V Ó]Ó„ÆÐÅ`ßQÀ`À�??3.3V (Vcpuio»Schipset»S PBSRAM»SSDRAM) ¾è 2.8V (CPU Èð¾uÓ„Ú½) Ó]Ó„ÆÐÅ`ßQÄÔ¿nŕú»RÊ‡Ài Ç ÂíÄÔÓ„Ñ× ÂëÚÍÏ0Ó¿zÏ¼Âë¿ ¾ À ÄÔÏ^Ò Å`ßQÉú¾ »T

CPU Ó]ö Å`ßQ

AX6L ÂýÀÍÉdÈ ÍfÆÄÔÓ]ö Å`ßQÓ„Ò »RÑ CPU ÑßÅñÊÄÄ ÓŠ¿ ÄŠÒ„ÄÔÑßÅñÈã»RCPU Í‡ ÅñË_ÀõÊäÇÊÁT»RÂŶ¿SÒx¿ëÚÍ¿èÍ€ß Ï,¿ì ÞÏÁz»T

CPU Õa0 ÎùÇÑÈÊÔäËË

AX6L Î¼Âë¾WÇÑÈÊÔäÊÄÄô¿nŕú»R¿zÂ0¾ CPU Ó]ö »TÍ,Ð ¿UØ Ä` ¾hÀÍÂüÇíÇÑÈÊÏÚj »R¾Q Çí¿z¿èÃ CPU ÇÑÈÊ»RÀí¿‡¾QÇí Åy¿z¿YÏÓÓ ÎùÄÔÇÑÈÊÂé¿è»TÍ‘Ó] ¾ ÂýÏ’À» (ÂìÀf HWMON2)»R Â‡ÏèÀsÇÑÈÊÝrÈÖÈã»RÊ_¿zÀõÊäÏ½¿i ÞÏÁz»T

Â‡Ìèó„Ú¼ÕäËË

AX6L ¾nÎ¼Âë¾WÓ„Ú¼ÕäËËÂ‡Ìè»RÀsË'ËìÊäÂ‡ÌèÅû»RÍ‚ÇíÂ‡ÌèË_Ñ'Å Þ ÔäËËÂ‡Ìè¾ÄÁQÓ„ Ú½»RÚàÆuÆ ÁpÀÎÂ‡Ìèó„Ú¼Ðhó]¾Ð¿ ÖêÑáÄÔË»Áè»RÇj ÀÍÍ‚ÔòË»Áè»RÎ_ÑÒx¿ë¾ÂýÏ'À¢Âì Àƒ HWMON2) Ó Âé¿èÄæÏ‚¿ì ÞÏÁzÊeÈÁ»T

FCC DoC Õ' Ýì

AX6L ¿UØ Ä` Æ ¾ðÖàÍ„Ó]Æ Ê **FCC DoC**1ÁTÎeÈxÖêÑáÎ ÒïÄÔ¿UØ Ä` »RÁj ÂéÀsÏ]Ø ÎùÂØ ßQÄÆÔR¾f»R¾n¾Ñ'ÐàÈq¾Yß »T

ÜÌ ¾Ð

1.1   ÍhÈ

¿UØ Ä`ÅÆÀ»	ATX
¿UØ Ä`¾ò¾,	305 mm x 244 mm
CPU	Intel Pentium II ÍSÌ'ØÓ
¿UÊ`Øêß	4 Ë 168-pin ÄÔ DIMM»RÍæÊÄ¿zÓW1GB»T
ÁðÂ Ê`Øêß	¾ÔÅòÃ CPU ¿u¾h
Î󾾠Ìï	Intel 82440LX
Üï¿cÖë	ISA x3 PCI x4 AGP x1
À ÀÌÊ	2 Çí UART 16C550 ÆòÈvÄÔ RS-232 À ÀÌÊ »R¿‡ÀÍ¾Q Çí UART ¿z¾pÌÃÆ ¿•×ˆÖìÌï
¿ÇÀ Ê	1 Çí¿z¾pÌÃ SPP/ECP/EPP ¾eÔòÖêÑáÄÔÂÝÀÌÊ
Floppy ¾ÐÇË	1ÇíÍ€À»ÔéÔêØ Í†ËÏÚj »R¿zÂé¿è 720 KB»R1.44MB Ãè 2.88MB È À»ÄÔ 3.5 ÀeÔéÔêØ »R¾è360KB»R1.2MB È À»Ä Ô5.25 ÀeÔéÔêØ »T
IDE ¾ÐÇË	2 Çí IDE Channel ¿zÍ†ËÏ 4 Çí IDE Òà Ò~(ÏŠÔêÃè CDROM)»R¾pÌÃPIO mode 4»SBus master»RÃè Ultra DMA/33 Ì¿ÐáÙ ÖìÀ»»T
USB ¾ÐÇË	2 Çí USB Í†ËÏÚj »RBIOS ¿‡Á‡ USB ßi ÊäÏ'À»¿z ÒìÚÚ ÐáÌèÄÔ AT Ãè PS/2 Ûþ×]»T
PS/2 ÑàÓÅ	¾ÔÅò Mini-Din PS/2 ÑàÓÅÍ†ËÏÚj »T
Ûþ×]¾ÐÇË	¾ÔÅò Mini-Din PS/2 Ûþ×]Í†ËÏÚj »T
RTC ÕaÓ„ÀÚ	RTC À Ã Intel PIIX4 chipset ¾Ô»RÂé¿èCR-2032 Øj Ó„ ÀÚ»TÀƒÄX¾¼ÃøËÖÓ„Ñ××ˆ»RÌ]ÐÑÂé¿èÓ„ÀÚ»T
BIOS	AWARD Plug-and-Play, 2M bit Flash ROM BIOS»T

Ú Ð»Ð"Ø (Suspend to Hard Drive)	¿ëBIOS ¾þÎÃ»RÚ‹À†ÁR¿òÅvÄÔ¾ÁQÄÆÒRÀöÔéÔêØ ¾Ô»R¾ƒ ¾QÀÒÐ"Ø Èã¿ùÂ ¿†¿¡ Ç ¾ÁQÏvÇË»TÕ÷Âé¿ëESA ÍhÈ Æõ ÈvÂÔ PCI VGA ¿u»RSound Blaster ÆõÈvÄÔÇÏÈÞ¿u»T
ÖàØôØ Í Ù (Modem Wake Up)	Í'Ó]ÉdÈ ÄÔׯÒ ÍnÇƒ»R¿z¿YÜá¿ë¿•ÏÏÀ»Ãè¾ÔÏÏÀ»ÖàØôØ (Àƒ AOpen MP56)»Rß Â‡ÌèÀsÀÍÓ„ÒöÐzÂíÈãÀõÊäÏÏß¿»T
ÍnÃŠÀõÊäÐ"Ø ÈãÐ» (RTC Wake Up Timer)	Ë'¿z¿YÍnÃŠ¾QÇíÃeÃŠÄÔÈãÐ»»Rß Â‡ÌèÀsÍ¸ÇíÈãÐ»ÀõÊäÐ" Ø »T
ÀaÂŠ¿ ÎÅÀ»ÝÇÚ½×̂Ò	ÊÄÈÐÌ%ÀaÂŠ¿ ÎÅÀ»ÝÇÚ½×̂Ò (Synchronous Switching Regulator)»T
Ó]Ó„ÆÆÅ`ßQ	ÂýÀÍÍ3.3V (Vcpuio»Schipset»SPBSRAM»RSDRAM) ¾è CPU Èð¾ùÓ„Ú½Ó]Ó„ÆÆÅ`ßQÄÔ¿ëÚú»RÊ‡Ài Ç ÂíÄÔÓ„Ñ×ÂëÚÍØÓ»R ¿ẑ½Âë¿ ¾ À ÄÔϯÒ Å`ßQÉú¾̂ »T
CPU Ó]Ö Å`ßQ	Ñ CPU ÑßÅñÐh Ó]ÓŠÍnÇâÄÔÈãÇîÏ , ¿i ÞÏÁz»T
CPU ÇÑÈÊÔäËË	Ñ CPU ÇÑÈÊÝrËÖÈãÏ , ¿i ÞÏÁz»T
Â‡ÌèÓ„Ú½ÔäËË	Ñ Â‡ÌèÓ„Ú½ (5V»S12V»S3.3V Õa 2.8V) ¾½¿ÙÈqÈãÏ , ¿i ÞÏ Áz»T

ÜÌ¾Ð

1.2 Ú Ð»Ð"Ø (Suspend to Hard Drive)

»ˆÚ Ð»Ð"Ø »%Î_Æ Ë_¿òÅvÄÔ‡ÌèÄÆÐR»RÊ`Øêß Ò Èà»RÙÝÓ ÏvÇÈÚ‹À†ÀöÏŠÔê¾Ô»TÏ^ÅûÂ‡ Ìè¿ÁÓ¿ ÜpÓ„»RÑ ¾f¾QÀÒÐ"Ø Èã»RË‘¿ż¿YÄ×ÈÏÀoÂ Ç ÂíÄÔ¾ÁQÄÆÐR»R¾4Õ÷Ï¿ÇWin95 Ð"Ø ÆÏÏ'»R¾4è¾4Õ÷ÇÅÑ†ÈìÊäÚÍ¿èÏ'À»»T

ÀƒÄXË‘ÀÍ 16MB Ê`Øêß »RÂÔÕ ¾À ö¾đÕ÷Ç€16MB ÔéÔêÄßÐ»ÂíÚ‹À†Â‡ÌèÊ`Øêß »T×êÄqÑ_ Ë‘¿ÌÐÑÂé¿èÕa VESA ÍhÈ ÆÐÈvÄÔ PCI VGA ¿u»RÕa Sound Blaster ÆÐÈvÄÔÇÏÈÐ¿u¾è APM Driver»TÑ Ï^»RÁôÇæÀòÞÍË‘Ù ¿èÀò ƏAOpen PT70 VGA»RAW35 (ÇÏÈÐ¿u) Õa MP56 (ÖàØôØ +ÇÏÈÐ¿u) ¿Y×eÅ` ÍæÂèÄÔÆÐÈvÄä»T

ÀÓ¿ı̃úÄÔÍ mÂŠ¾ Ä|Àf¾ƒ»X

1. Ðż¾[BIOS setup»RPower Management à Suspend Mode Option»RÙ Øö"Suspend to Disk"»T

2. Ðż¾[BIOS setup»RPNP/PCI Configuration à PnP OS Installed»RÙ Øö"No"»TÍ, ÂëË, BIOS ÀÍØ Ñ'ÀõÀ Â^ÃŠÂ‡ÌèÒ Ñ×»T

3. Ð"Ø ÈãÙ ØöÐż¾[DOS Öì À»»RÀƒÄXË‘Æ Win95 Âé¿èÄæ»R×êÀsÐ"Ø ¿ı Ì' "Windows 95 Starting ..." ÈãÅ ¾f "F8"»RÙ Øö"Safe Mode Command Prompt Only"»T

4. Ë_ AOZVHDD.EXE Í, Çí¾ ÂýÏ'À»×àÕ†Â C ÔéÔêÄÔÈô¿òÙ ¾f »T

5. ¾ Ä|¾Q»XÂé¿ø/file Êëöà (ØR¿èÃ FAT16 ÚãÈñ‡Ìè)

   ×êÙ ¾f¾fÀTÅ ¿ ̀ÀsÏŠÔê¾ÆÀò¿ù¾QÇí Û ÜÝÚã»R¿èÂíÚ‹À†Â‡ÌèÄÆÐR¾êÊ`Øêß Ò Èà»X

      C:>AOZVHDD /c /file

   ×ê×eÃŠË‘Æ ÁpÀÍÂÆÊ ÄÔÍ†Þ ÔéÔêÄßÐ»Ë_ÂíÌ½¿çÛ ÜÝÚã»TÂìÀƒ»RÀƒÄXË‘ÀƁ32MB ¿U Ê`Øêß Õa 4MB ÄÔ VGA Ê`Øêß »RÂÔÕ Î_Õ÷Ç€À ö¾đ36MB (32MB+4MB) ÄÔÍ†Þ Äß Ð»»TÀƒÄXAOZVHDD Áþ¾Â Í†Þ ÄßÐ»»RË‘¿ż¿YÂé¿è DOS ÄÔ DEFRAG Ï'À»ÃèÆ Win95 ÄÔ»ˆÔéÔêÇÅÏìÏ'À»»%ÂíØýÌ'ÏŠÔê»R¿YÌ½¿çÂÆ ÄÔÍ†Þ ÄßÐ»»T

   ¾ Ä|¾X»XÂé¿è/partiton Êëöà (ØR¿èÃ FAT16/FAT32 ÚãÈñ‡Ìè)

   Âé¿è AOZVHDD ÀsÏŠÔê¾ÆÀò¿ù¾QÇí¾ÍÍèÉé«RÂíÚ‹À†‡ÌèÄÆÐR¾êÊ`Øêß Ò Èà»TÇ€Âé ¿èÍ, Çí¾ Ä|¾ÅÀv»R¿ÌÐÑ¿ ÀsÏŠÔê¾Æ Õ ŠÉu¾QÐ ÄßÐ»»TÁôÇæÀòÞÍË‘ÈôØô¿ÖÁíÊ`Øêß Üi ¿cÄÕ¿zÉúÁÆÄƒ»RÕŠÉuÕ ¾ÄÔÔéÔêÄßÐ»»TÂìÀƒ»XÇj Ë‘¿òÅvÀÍ 32MB ‡Ìè¿èUÊ`Øêß Õa 4MB ÄÔ VGA Ê`Øêß »RÀÍ¿ÖÁíÇƒÓÔ¾ãÉßÂ 64MB ¿UÊ`Øêß »RÂÔÕ Ë‘ÍæÀ€Âé¿òÔéÔê

¾´Ây Ï' À» (À fdisk) ÓŠÉu¾QÐ 68MB (64MB+4MB) ¿Y¾h ÄÔ¿Ö¾ÚÍ èÊéÊ »TÏ ^ ÅûÙ ¾[¾f ÀTÅ ¿ ` »X

    C:>AOZVHDD /c /partition

Àf ÄXË'ÄÔÏŠÔêÂdÀÍ¿Ö¾ÚÍ èÊéÊ »R¾d¾¼ÁàË ¿òÅvÔéÔê¾¾ÄÔÔ ÈàÙ ¿¼»R×ê¾ßÂé¿èÍ , Çí ¾ Ä | »T

6. ÇÅÑ†Ëì ÊäµÏè (Reboot)»T

7. Üá¿ëÏ] Æ„Å Ûþ À» (Momentary) Suspend switch»RÃèÆ Ù Â Win95 Ð"Ã}¿nΕúÄ ¾¾ÄÔ »^ÔâÊÈ»‰RÈ{Ç¼Â‡Ïè Ðz¾[Suspend to Hard Drive Öì À»»RÏ ^ ÅûÈ_Ó„Ñ×Ð"Ý Ý ÍÆ»T

8. ¾f ¾QÀÒÐ"Ø Èã»RÂ‡ÏèÎ_Ñ"ÃõÊäÀoÂ ¿ Åv¾Á¾ÁQÏvÇË»T

> Î½ö: ¾f ÀT VGA ¿uÒxÎ Ò ï Æ VESA ÆõÈv»RÂ Ý¿SØR¿èÃ
> 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)*
> *AOpen PV70 (S3 Tiro64V2/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*

ÜÌ¾Đ

Î½¿ö: ¾fÀTÇÏÈÞ¿uÒxÎ Òï¿zØR¿èÃ   Suspend to Hard Drive»T

AOpen AW32

AOpen AW35

AOpen MP32

AOpen MP56

Creative SB 16 Value PnP

Creative SB AWE32 PnP

ESS 1868 PnP

ÀƒÄXË'ÄÔÇÏÈÞ¿uÀs Suspend to Hard Drive ÅûÏ]Ä|¿ÜËq¾ ÁQ»R×êÀgÖ‡ÊíÆuÒùÂþÆ ÁpÀÍ¾þÎÃ APM ßïÊäÏ'À»»RÂÝÀŠ Òà¾Á»T

×êÄqÑ_: USB ¿nÉú¿òÅvÂŶ¿Ö¿c¾ÚÕa Suspend to Hard Drive Ê‡Àì Î Òï»TÀƒÄXË' Ï, Ì' ¾½ÝÇÂŠÄÔÎ' ĐY»R×êĐz¾[BIOS»RIntegrated Peripherals à USB Legacy Support»T Ý ËÖ USB Legacy ¿nÉú»T

1-8

1.3 ÖàØôØ Í Ù (Modem Wake Up)

ÁôÇæÀsÀÓÃìÇ€Êb×ñÄÔ Modem Wake Up ¿UÇ€Æ ÊŠÓ ÀsÉˆÓ ÄÔÝ Ø ÄÔÄÐŖÁaÜp¾ Ä|ÆÊÚà ÆuÓ„Ñ×ÄÔÇÑÈÊÆ ÁpÊÈ¾ ÜúÊä)»RÍ‚Ð ¿UØ Ä`Û Ï^ ¾n¾þÎÃÐáÎèÄÔgreen PC suspend mode»RÀ Í‚ÂÝ¾¼ÀsÁôÇæÊb×ñÄÔ×uÍ ¾¾»T

Üá¿ë ATX soft power On/Off»RÁôÇæ¿¿¿Yß Â¢ÎèÀsÁÓ¿ Ý Ø ÄÔÄÆÐR¾f (¿YÃÓÓ„Ñ×ÔøÌˆ¿m Éú¾¾ÄÔ suspend mode ÂÝ¾¼Æ Éˆ¿ÙÝ ÍÆÂ¢ÎèÓ„Ñ×) ÀõÊäËÏ߿Ó„Òö»RÀƒÀÓË_¿¿¿YÊÏÂ ÏÄ Ù Ø ÕaÐáÉˆØ ÄÔ¿ńÚ»T

Ï]×ñÆ ¾Ô̈ÏÀ»ÛóÆ ¿•ÏÍÏÀ»ÖàØôØ »RÍ½¿¿¿Y¾þÎÃModem Wake Up ¿ńÚ»RÀ Æ Âé¿è¿•ÏÍ À»ÖàØôØ ÄÔÉäÜZÆ »RË‘¿ÌÐÑß ÖàØôØ ÍSÃ Ð"ËìÄÔÄÆÐR»ÆAOpen ÄÔ AX6L Õa¾ÔÏÍÀ»ÖàØô ¿uÎ¼Âë¾¼ÆdÈ ÄÔ×ˆÒ »RÃì¿YË‘Ï]ÐÑÈ Ð`¿ À Ó„Ñ×»TÀmÀÓ×RÇj Ë‘ÑbÂé¿ŀModem Wake Up ¿ńÚÄÔÔö»RÁôÇæÅòÞÍˈ‘ÈÞ¿è AOpen ÄԾ¾ÔÏÍÀ»ÖàØô¿u (F56 Ãè MP56)»T

À ÀTÊ ¿•ÏÍÀ»ÖàØôØ Ó„Òö×ˆ

Âé¿è¿•ÏÍÀ»ÖàØôØ

Ó„Òö×ˆ

Âé¿è¾ÔÏÍÀ»ÖàØô¿u

ÜÌ¾Đ

Âé¿è¾ÔËÏÀ»ÖàØô¿uÈã (AOpen MP56)»X

1. Đz¾[BIOS setup»RPower Management à Modem Wake Up»RÙ Â Enable»T

2. ÀŠÒàË'ÁàË Ç€ÀsĐ"Ø ÈãÊ À ÄÔÚÍ¿èÏ'À»»RÂÝË_ÂþÒ~Ã »ˆÈìÊä»‰Ù†Ìï¾¼ÃèÁb¿è Suspend to Hard Drive ¿nĚú»T

3. ¿Y soft power switch Ý ÍÆÂ‡Ìè»T

4. ¿Y 4-pin ÄÔ Modem Ring-On Ëà׈»RÍ†ËÏ MP56 ÄÔ RING Í†ËÏÚj õa AX6L ÄÔ WKUP Í†ËÏÚj »T

5. Ë_Ó„Òö׈Í†ËÏÂ MP56»TÀ€Êì»ŽÌ'ÀsË'¿z¿YÒïÒï Modem Ring-On ÄÔ¿nĚú¾W»T

Âé¿è¿•ËÏÀ»ÖàØôØ Èã»X

1. Đz¾[BIOS setup»RPower Management à Modem Wake Up»RÙ Â Enable»T

2. ÀŠÒàË'ÁàË Ç€ÀsĐ"Ø ÈãÊ À ÄÔÚÍ¿èÏ'À»»RÂÝË_ÂþÒ~Ã »ˆÈìÊä»‰Ù†Ìï¾¼ÃèÁb¿è Suspend to Hard Drive ¿nĚú»T

3. ¿Y soft power switch Ý ÍÆÂ‡Ìè»T

4. Ë_ÒàØôØ ÄÔRS232 Ëà׈Í†ËÏÀö COM1 Ãè COM2»T

5. Ë_Ó„Òö׈Í†ËÏÂ ÒàØôØ »RÏ^Åû¿ÎĐ"ÒàØôØ Ó„Ñ×»RÌ'ÀsÒïÒïÆ÷Ár»Z

Î½¿ö: ¿•ËÏÀ»ÒàØôØ ÄÔ wake up ÊeÒÓÆ ¿ë COM1 Ãè COM2 Ç‡ ÍuÊõÎ »W¾ÔËÏÀ»ÒàØôØ ÅyÆ ¿ëÍ†ËÏ RING (ÒàØôØ ¾h) õa WKUP (¿UØ Ä`¾h) ÄÔËà׈Ç‡Íu»T

Î½¿ö: Suspend to Hard Drive»SModem Wake Up õaAcephone ÚÍ ¿èÍ€ß ÑwÊ‡Âé¿è»RÆ ÏÄÙ Ø õaÀÆÏ, ĐáÉˆÄÔÍæÂèÒëÂ^¾ Èñ»T

×êÄqÑ_: Âé¿è¿•ËÏÀ»ÒàØôØ ÄÔÒö»RÒàØôØ ÄÔÓ„Ñ×Î_¿ÌĐÑÅ`Å ÀsĐ"ËìÄÔÄ÷ÒR»WÁíÂé¿è¾ÔËÏÀ»ÒàØôØ ÄÔÒö»RÎ_ÂdÀÍÍ,ÔòÇÇÂ ¾W»T

1.4   Â‡ÌèÓ„Ú¼ÔäËË

AX6L ÂýÀÍ¾QÇíÓ„Ú¼ÔäËËÂ‡Ìè»TÑ Ë'Đ"ËìÓ„Ò¼Åû»R Í‚ÇíÔäËËÂ‡ÌèÎ_Ñ"Å Þ ÀrÔäËËÂ‡Ìè ÄÔ¾ÁQÓ„Ú¼»RÚáÆuÆ ÁpÀÍÂ‡ÌèÓ„Ú¼Đh Ó]¾Ò¿ ÖêÑáÄÔ»Áè»TÇj ÀÍÍ‚ÔòË»Áè»RÎ_Ñ"Òx¿ëÚÍ ¿èÏ'À» (Àƒ HWMON2) Ó Âé¿èÄæÏ‚¿ì ÞÍÁzÊeÈÁ»T Í‚ÇíÔäËËÂ‡Ìè¿z¿YÔäÆ÷ 5V»S12V»S 3.3V ¿Y¾è CPU Èð¾uÓ„Ú¼»TÍ‚Æ Òx¿ëBIOS Õa HWMON2 Â ¾ ÓWÀÂÄÔ»RÏ]ĐÑÂé¿èÂ Âþ ¿ÀÏŠß »T
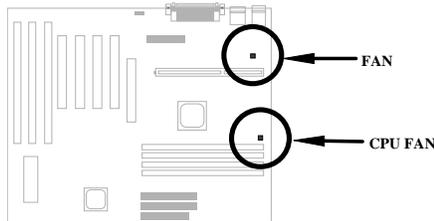
1.5   ÇÑÈÊÔäËË

Í‚Đ ¿UØ Ä` ¾h ÀÍÂüÇ8-pin ÄÔÇÑÈÊÈÏÚj **CPUFAN** Õa **FAN**»R¾QÇíÏ©CPU ÇÑÈÊÂé¿è»R¿‡ ¾QÇíÅy¿z¿èÃ Ø Îù¾h ÄÔÇÑÈÊ»TÍ‚Çí¿mÉúÆ Òx¿ëBIOS ÕaÚÍ¿èÏ'À» (Àƒ HWMON2) ÃìÂ ¾ ÓWÀÂÄÔ»T

> ×êÄqÑ_: Ë'¿ÌĐÑÂé¿è 3-pin ÄÔÇÑÈÊ»RÍ‚ÒòÇÑÈÊ¾•¾þÎÃ
> CPU ÇÑÈÊÔäËË¿mÉúÃìÕ÷ÄÔ SENSE ÊeÒÓ»T

ÜÌ¾Ð

1.6 CPU Ó]Ö Å`ßQ

thermistor

hw monitor IC
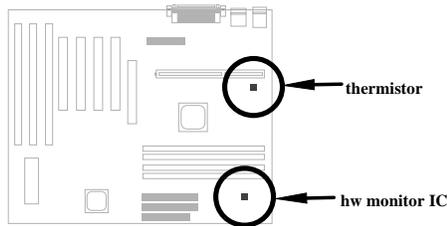
¿Õ¿UØ Ä`ÀsCPU Ãͼ£ÍñÀÍÑßÅñÅ`ßQ×^Ò »RÑ ÑßÅñÊÄÃ ÓŠ¿ ÃŠÒ„ÄÔÖàÇâÈäÇØRPU Í‡Åñ
Ñ"ÀõÊäÇÊÁT»RÂÝ¿SÒx¿ëÚÍ¿èÏ'À»(Àƒ HWMON2) Ï,¿i ÞÏÁÛ€ße»TÍ,Çí¿ñÚÆ Òx¿ë BIOS
Õa HWMON2 ÃìÂ ¾`ÓWÂÄÔ»T
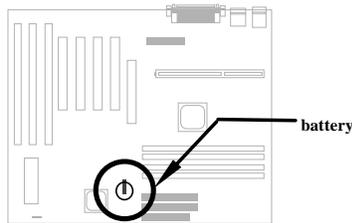
1.7 ¾¼Ð÷Âé¿èÓ„ÀÚ

battery

ÆÊ¾WßeÚÍÚ Å`»ÞAOpen Äô AX6L ÈÞ¿è¾W¿Q£àÇÔ¹ÄÔbattery-less (¾¼Ð÷Âé¿èÓ„ÀÚ) Ín
Çƒ»T¿^Ç€ ATX Ó„Ñ××^¾Àø¾£»RË'Å\¾¼Ð÷ÀRÂé¿èÓ„ÀÚÍ¹ÅëÓ„Ñ×ÏRTC (real time clock)
Õa CMOS Setup»TÍ,ÔòÍnÇƒÄÔÀ€ÍSÀsÃ »R¿zYÛñÁ\Ó„ÀÚÂdÓ„Èã»RÙ ¿¼CPU ÚhÌ%Õa
CMOS Setup Ï¿Ò Èà»T¾¼Ó]ÆÊ¾W¾ Å\Âé¿èÄæÁÔÖ÷Ç€»RÁôÇæÂæÏ^ ÚYÄ ¾W¼QÛ Øj Ó„ÀÚ
(CR-2032) »RÃì¿YÀƒÄXË'ÑbÇ€¿èÓ„ÀÚÂÔÕÖö»R¾ɥz¿Y¾½èË_¿ÀÃøËÖ»T

ÌÞ¾ÆÍÓ

ÏŠß ÀŠÒà

¿ÕÍÓË_¿YÎqÁáÔ¿ÐzÄÔ¾ À»RÕ»Ã ÀfÀ ÀŠÒàË'ÄÔ¡Ìè»R×ê×eÓ ÂæÑíÍ,ÂáÂSà[Âí ÀŠÒà»T

×ê¾ƒ¾ù: ESD (Electrostatic Discharge) ÆÊÚcÓ„Ã Ó„ ¾ÁÑ_»R¿ëÃ Ù€ß Ó„Ò (IC) ÅöÈvÃ Â Â ÚcÓ„ÑaÚÍÄÔ Ö%ße»RÀnÀÓÑ"ÂéÑ]ÍSÌ'ØÓ»RÔéÔêØ »RÜi¿c¿u¾èÂþ ¿]ÄÔÓ†¿ Â Â ÐàÈq»TÆÊ¾ÆÑ4MÓŠÂØÚcÓ„Ã Ó„ÀíÑ}ÝrÎÓ ¾ »R×êÙ ÀÆ¾ƒÀ̀ÄÔÓŠÂØÊÓÆZ»X

1. Ê¼ÅUË'¾ŠÑáÍàÀ€Ç€Ð"Ã}ÀŠÒàÓ†¿ »RÁpÅy¾uÒf¾½ Ç€Ë_Ó†¿ Àõ ÂØÚcÓ„¿n0à¾¾Â ¿ì»T

2. ÀsË'ÀŠÒàÓ†¿ Èã»RÍæÀ€Ër¾hÀÍÉÏÀr׈ÄÔ¾üÚ »R ¾¿Í»¿ ÄÔÓ„¾4Ó†¿ À Í¼ÀÍÀs× »TÀfÄXÂdÀÍ¾üÚ »R ×êÂé¿è¿ À ¿z¿YÂØ¾ ÚcÓ„ÄÔÍÚ¿_Å•»RÂíÕaÂ‡ÌèÓ†¿ ¾è¿UØ Ä`ËÏÞÌ»T

ÏŠß ÀŠÒå

2.1 Jumper ÕaËÏÚj (Connector) ÄÔÀ Ò~

¿Y¾f ÆÊ¿UØ Ä` ¾ʻʲdumper Ã^ ËÏÚj (connector) ÄÔʲÊ‡Ò~ Óé»X
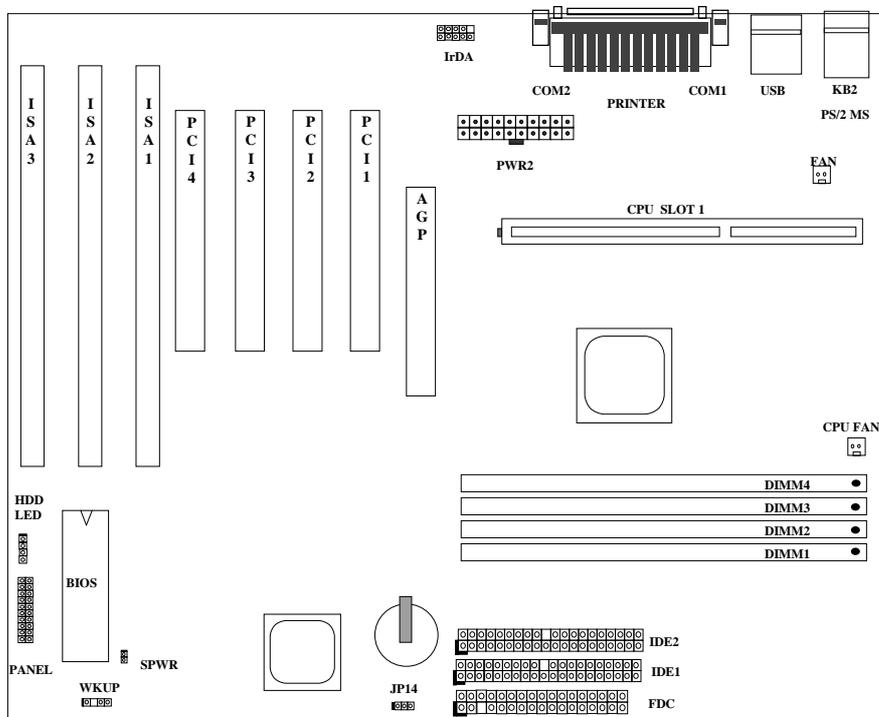
ÏŠß ÀŠÒà

Jumpers:

JP14:   Ì ^ Ê¼CMOS

Connectors:

PS2 MS: PS/2 ÑàÓÅ͆ËÏ Új
KB2:   PS/2 Ûþ×] ͆ËÏ Új
COM1:   COM1 ͆ËÏ Új
COM2:   COM2 ͆ËÏ Új
PRINTER: Printer ͆ËÏ Új
PWR2:   ATX Ó„Ñ×͆ËÏ Új
USB: USB ͆ËÏ Új
FDC: Floppy ͆ËÏ Új
IDE1:   ÌÞ¾QÌïIDE ͆ËÏÚj
IDE2:   ÌÞ¾XÌï IDE ͆ËÏÚj
CPU FAN: CPU ÇÑÈÊËÏ Új
FAN: ÇÑÈÊËÏ Új
IrDA: IrDA (Æ¿•×ˆ) ËÏ Új
HDD LED: HDD LED ËÏ Új
PANEL: Åv¾ ÇËÄ`Å  Ûþ¾èÙ` ÒÓ͆ËÏÚj
SPWR: ATX Soft-Power Switch ËÏ Új
WKUP: Wake Up ËÏ Új

ÏŠß ÀŠÒà

2.2 Jumpers

Í‚Ð¿UØ Ä` Æ`ËÞ¿èÏ Jumper ÍnÇf»RÊù¾QÄÔĵjumper Æ`Ì^Ê¼CMOS»RÂþ¿UÇ€Æ`¿èÃ ÁëÊ`Ë\×i ÄÔÈãÇî»T

2.2.1 Ù Øö CPU ÚhÌ‰

Í‚Ð¿UØ Ä`¿z¿YàõÊäÊÕÎ CPU Ó„Ú½»R ÂÝ¿S¿z¿Yß Ë'Às CMOS setup ¾ÍmÃŠ CPU ÚhÌ‰RÀíÏ]ÐÑÂé¿èÂ jumper»T¿z•»R¾x¿z¿YÍ'Ó]¾ÂýÏ'À»»RË_¿Ù×eÄÔCPU Ò`Êe Ê`Ù Â EEPROM ¾»T

ÀfÀÓ¾QÂí»RÒf¾QMOS Ù¿½¾W»RË'Î_¾¿èØû¾ûÇÅÍnCPU Ó„Ú½Èã¿i ¾WÈ‡Ù »R¾m¾½ ¿ÌÂÉÇhÄÔ¿ÎÐ"Ó„Ò½Ø ÎùÚaÏ CPU ÔòÝ ¾W»TÀíÍ‚¾m۬ ¾QÉ ËÞ¿èÏ]jumper ÍnÇfÄÔ Pentium ¿UØ Ä`¿UÇ€ÄÔÊ÷ÝU»T

ÍmÃŠ CPU ÚhÌ‰ÀÔ¾ Ä|Æ`»X

BOIS Setup à Chipset Features Setup à CPU Clock Frequency
(¿zÉúÄÔÍnÃŠÇâÀÍ 66»S68.5»S75 Õa 83.3 MHz)

BOIS Setup à Chipset Features Setup à CPU Clock Ratio
(¿zÉúÄÔÍnÃŠÇâÀÍ 1.5x»S2x»S2.5x»S3x»S3.5x»S4x»S4.5x»S5x»S5.5x»S6x»S6.5x»S 7x»S7.5x»RÕa 8x)

CPU ¾ÔÍ»ÚhÌ‰= ÇÙÚh¾ x ¿•Úh

INTEL Pentium II	CPU ¾ÔÍ»ÚhÌ‰	ÇÙÚh¾	¿•Úh
Klamath 233	233MHz =	3.5x	66MHz
Klamath 266	266MHz =	4x	66MHz
Klamath 300	300MHz =	4.5x	66MHz
Klamath 333	333MHz =	5x	66MHz

ÐÏÁz: ¿Y¾hÁôÇæ¿^ÀT¿i¿òÅv¿ÅÇÈ¾h¾ŠÆÉí„ÄÔ CPU»RÓŠÍnÇâ Æ Pentium II 233mhz»TÀíÂþ¿ÀÄÔÍnÃŠÇâÅjÂë¾ÔÍ»Î Òï¿è»R Âé¿èÍ‚ÂáÍnÃŠ»R¿zÉúÑ"Ñ}ÝrË'ÄÔÂ‡Ìè»T

2.2.2   ÍnÃŠ CPU Ó„Ú½

¿Õ¿UØ Ä` ¾þÎÃPentium II (Klamath) VID ¿ríú»R¿zÀõÊäÊÕÎ   CPU Èð¾ùÓ„Ú½»RÂþ×u Í Às 1.3V Â   3.5V ¾ÁÐ»»T

2.2.3   Ì^Ê½CMOS

JP14	Ì ^ Ê½CMOS
1-2	¿ÜËqÈ»Äƒ (ÓŠÍn)
2-3	Ì ^ Ê½CMOS

ÀƒÄXË'ÁëÊ` Ãì ÍnÃŠÄÔÂ‡ÌèË\×i Èã»R¿ÌÐÑ¿ Ë [aBE ÍríÃÊ1C>D»RÌ ^ Ê½ÂÝÇÅÍríT^ ` d1ÄÔÍnÃŠÇâÅû»R¾•Éú ÇÅÑ†Ð"Ø »T

JP14	JP14
1 2 3	1 2 3

¿ÜËqÈ»Äƒ   Ì ^ Ê½CMOS
(ÓŠÍn)

Ì^Ê½CMOS ÄÔÏ' Áá:

1.   Ý ÍÆÂ‡ÌèÓ„Ñ×»T

2.   ÃøËÖ PWR2 ¾hÄÔATX Ó„Ñ××ˆ»T

3.   Áþ¿i **JP14** ÃìÀsÄÔÂ Ò~»RË_Ð ×ÀÎƒÕmâ ¾ƒÂí»RÁ È^ ê2-3 Ò"À ¾hn »T

4.   ¾QÑ^ÂúÈãÐ»Åû»RÂ ¾ƒÐ ×ÀÎƒÕnàÇÅÑ†È^ Àoâ 1-2 Ò"À ¾hn»RÅ ÎpÀÂÇ ÂíÄÔÄÆÐR»T

5.   Ë_ATX Ó„Ñ××ˆËÏÀo PWR2»T

6.   ÇÅÑ†¿ÎÐ"Ó„Ò¼Ó„Ñ×»T

7.   ÀƒÄXÑbÇ€ÍnÃŠÑ†ÄÔÂ‡ÌèË\×i »R¿zÀsÂ‡ÌèËìÊäÈã»RÅ ¾f ▭ ÛþÐz¾[BIOS Setup ÌvÇË¾¼»RÀRÅ ÃŠÑ†ÄÔË\×i »T

Î½¿ö: ÀƒÄXË' ÄÔÂ‡ÌèÀnÆÊÐhÚhÀíÑ ËÕÃèÌ]Ä|Ð"Ø »R¿z¿YÌ^Ê½ CMOS»Rß Â‡ÌèÀoÂ ÓŠÍnÄÔÄÆÐR»TÊ½¾4WÂé¿è JP14 ¾Á¿•»RË' ¾n ¿z¿YÀsÐ"Ø ÈãÅ ¾f <Home> Âí Ì^Ê½CMOS»T

ÏŠß ÀŠÒà

2.3　Í†ËÏÚj (Connectors)

2.3.1　Ó„Ñ×Í†ËÏ×ˆ

ATX Ó„Ñ×ÂëÚÍØÓÆ Âé¿èÀƒ¾ƒÄÔ20-pin Í†ËÏÚj »R×ê×eÃŠË'Î»¾[ÄÔ¾ Àg/Æ ¿Ù×eÄÔ»T

×ê¾ƒ¾ù: ÀsÍ†ËÏÃèÃøÊ¼Ó„Ñ×Í†ËÏ×ˆ¾ÁÅv»R×ê¿ Ý
ÍÆÂ‡Ìèó„Ñ×»T
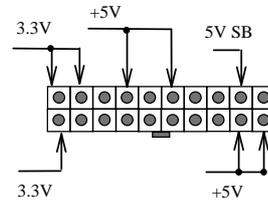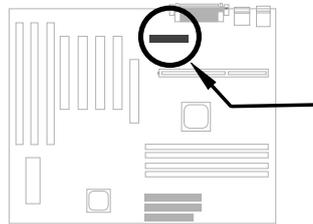
PWR2

2.3.2　ATX Soft-Power Switch ËÏÚj

ATX soft-power switch Í†ËÏÚj Æ` 2-pin ÄÔ»T×ê¿ Ë„ ATX Ø ÎùÄÔÅv¾ ÇËÄ` ¾h Áþ¿ï Öê ¿öÆ "power switch" ÄÔ 4-pin Í†ËÏ×ˆ»RÏ^ ÅûÍ†ËÏ¿UØ Ä`¾h Äô soft-power switch Í† ËÏÚj (Öê¿öÆ **SPWR**)»T
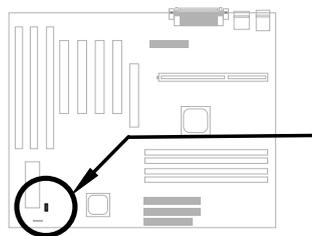
SPWR

ÏŠß ÀŠÒà

2.3.3   ÇÑÈÊ

Às¿UØ Ä`¾4n»RÀÍ¾4QÇíÖê**CPU FAN** Õa¾4QÇíÖê¿ö**Æ**É**FAN** ÄÔÇÑÈÊÈÏÚj »T

GND
+12V
SENSE

CPU FAN & FAN
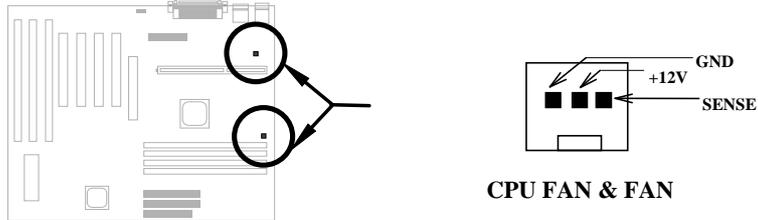
> Ä Ï : Í, ÂüÇíÇÑÈÊÈÏÚj Í½z¿Y¾4þÎÃÏŠß ÔäËË¿n**É**ú (hardware monitor)»T

2.3.4   PS/2 ÑàÓÅ

×êÍ†ËÏ ad©C1ÑàÓÅÃ Öê¿ö**Æ**É**1PS2 MS1**ÄÔËÏÚj ¾4n»T

PCB

PS/2 Mouse

ÏŠß ÀŠÒà

2.3.5 PS/2 Ûþ×]

×êË_ PS/2 Ûþ×]ËÏÂ Öê¿öÆÊ **KB2** ÄÔ 6-pin ¾ƒÍ†ËÏÚj ¾ŋ»T

PCB

PS/2 KB
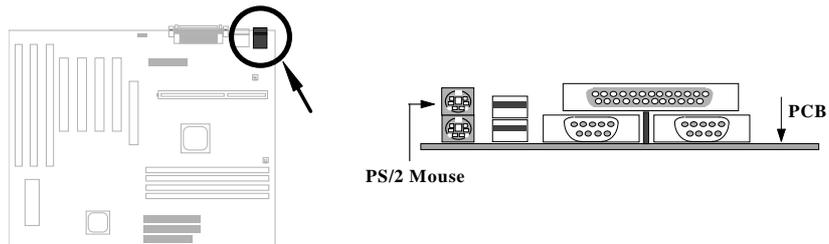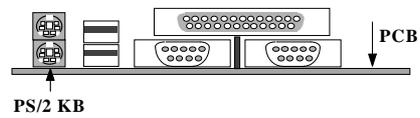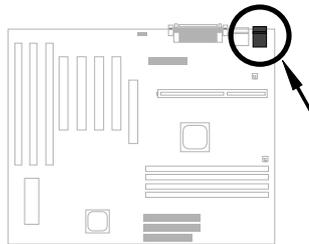
2.3.6 À ÀTÊ (COM1/COM2)

Åû¾ ÇËÄ` ¾ŋÀÍÂüÇí Öê¿öÆ**COM1** õa **COM2** ÄÔ 9-pin D-ÅÆËÏÚj »R¿ι¿èÂí͆ËÏÀ ÀT Ê ÑàÓÅ(serial mouse) Ãèô Öàôôø »TÂþ¾ÐľQÇíÀ ÀTÊ ËÏÚj Öê¿öÆ**COM1**»ŴÐ¾X ÇíÅyÖê¿öÆÊ **COM2**»T

PCB

COM1   COM2
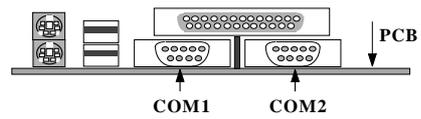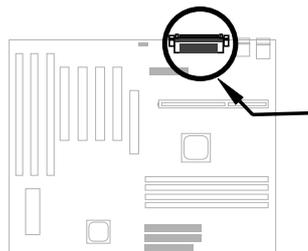
2.3.7 À]Ä Ø

¿UØ Ä` Åû¾ ÇËÄ` ¾nÀÍ¾QÇí Öê¿öÆ **PRINTER** ÄÔ 25-pin D-ÅÆÏÚj »R¿èÂíÀŠÎ»ÂÝÀTÀ] Ä Ø »T
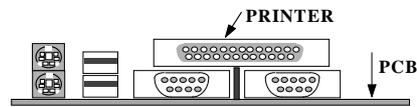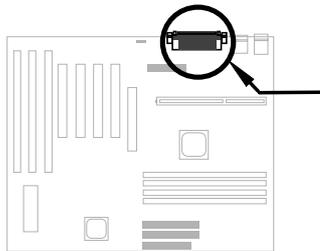
PRINTER

PCB

2.3.8 USB ÒàÒ~

Ë'¿Ë_ USB ÒàÒ~Í†ÏÂ USB ÏÚj »RÍ,Ð ¿UØ Ä`¾nÀÍ ÂüÇ USB ÏÚj »RÖê¿öÆÍ **USB**»T

PCB

USB

ÏŠß ÀŠÒà

2.3.9 Í€ÔêØ

Às¿UØ Ä`¾h ÀÍ¾QÇíÖê¿ö **FDC** Ä Ô 34-pin ËÏÚj »R¿z¿èÂí Í†ÏËÏÂü¿‹Í€ÔêØ »T


```
2                                34
 □□□□□□□□□□□□□□□□
1                                33
```

FDC
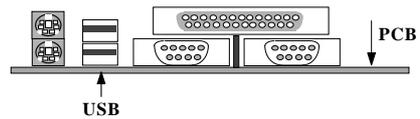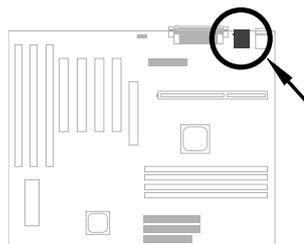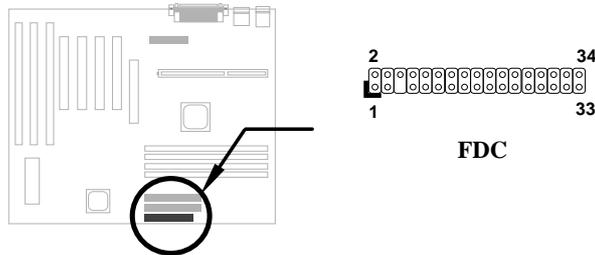
2.3.10 IDE ÏŠÔêØ Õa CD ROM

Às¿UØ Ä`¾h »RˇÀÍÂüÇíÖê¿ö **IDE1** Ã^ **IDE2** Ä Ô 40-pin ËàÊŠ»R¿z¾ÚÁ`Í†ÏËÏÂüÇí IDE Òà Ò~»RíæÀy¿zÍ†ÏË¿'Çí IDE Òà Ò~»R¾QÉIDE1 ¾dÔó ÆÈ¿UÍ„ÓU(primary channel)»R IDE2 ¾dÔó ÆÈÀÒÍ„ÓU (secondary channel)»T

Í†ÏËÃ ¿ ¾QÍ„ÓUÄÔÌÞ¾Q¿‹Òà Ò~¿Ì ÐÑÍ n ÆÈ master mode»WÌ Þ¾X¿‹Òà Ò~¿Ì ÐÑÍ n ÆÈ slave mode»T¿ ¾QÇíÒà Ò~Á»¿z ÆÈÏŠÔêØ Ãè¿ ÔêØ »T

×êË_Ë‘Ì Þ¾Q¿‹Òà Ò~Í n ÆÈ master mode ÂÝËÏÃ IDE1»RÌ Þ¾X¿‹Òà Ò~Í n ÆÈslave mode Àa ÖaËÏÃ IDE1»TÀ fÀXË‘ÀÍÌ Þ¾e¿‹¾èÌ Þ¿"¿‹›»R×êÂæÁáËÏÀÂ IDE2 Ä Ô master ¾è slave mode»T


```
2                                40
□□□□□□□□□□□□□□□□□□□□
1                                39
```

IDE2

```
2                                40
□□□□□□□□□□□□□□□□□□□□
1                                39
```

IDE1

×ê¾ƒ¾ù: IDE ÍhÈ ÅòÞÍËà×^ÍæÄ ¾¼¿zÐhÓ] 46 ¾×¾Ú
(18ÇoÀe)»R¿YÁ\Ò ÈàÐáÙ ¾¼Â"»T
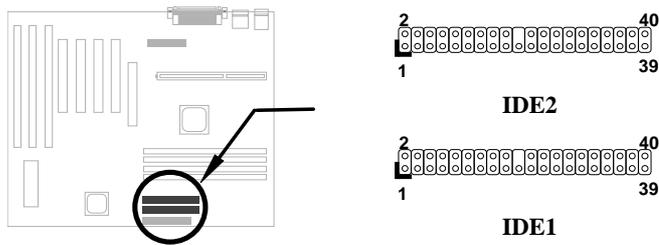
×ê¾ƒ¾ù: ÆÊÓWÂ ÍæÂèÄÔÅYÒÓÅ•× »RÈà×^ÍæÕÑÔ÷ÄÔ
ÒàÒ~Íæ\€ÍnÀÂmaster mode»RÂÝÂæÑí¾ƒÓéÅòÞÍÄÔÐÐ
ÁáÀŠÒàÑ†ÒàÒ~»T

IDE2 (Secondary Channel)

Slave (4th) **Master (3rd)**

IDE1 (Primary Channel)

Slave (2nd) **Master (1st)**
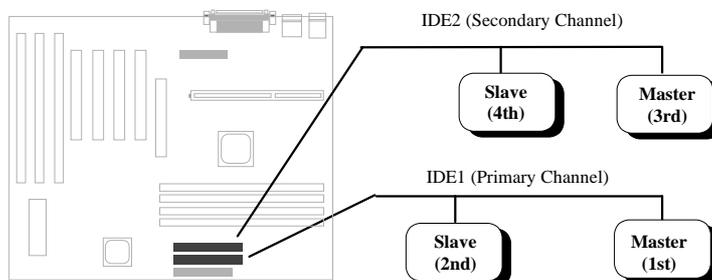
2.3.11 ÏŠÔê LED Å ¿öÙ`

ÏŠÔê LED Å ¿öÙ`Ôê¿öÀÂ **HDD LED**»RÍ, Çí ÈàÊŠ
¿zØR¿èÃ Àf Ôò¾¼ÁaÄÔØ Îù»RÀfÁXÁìÀŠÒàÄÔØ Îùv
¾ ÇÄ`Ä ÀÍ 4-pin Í†ÏÏ×^»R×êÄ×ÏÎ÷¾h¤»TÀfÁX¿^
Ä 2-pin ÄÔÍ†ÏÏ×^»R¿zYÙ ØöÀŠÎ» 1-2 Ãè 3-4»R
À ×êÁqÑ_Ñ¿Ãä.

Pin	Õ»Ã
1	HDD LED
2	GND
3	GND
4	HDD LED
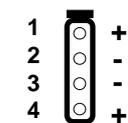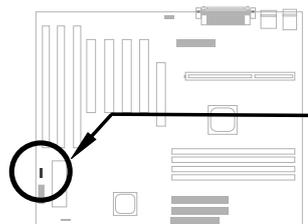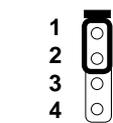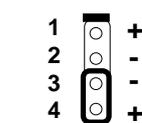
1 + 1 + 1 +
2 ○ 2 ○ 2 ○
3 - 3 - 3 -
4 + 4 + 4 +

HDD LED **HDD LED** **HDD LED**
4-pin Í†ÏÏ×^ 2-pin Í†ÏÏ×^ÏÏ 2-pin Í†ÏÏ×^ÏÏ
 Â pin 1-2   Â pin 3-4

ÏŠß ÀŠÒà

2.3.12   Åv¾ ÇËÄ`ËÏÚj

Åv ¾ ÇË Ä` ËÏ Új Æ 20-pin Ëà ÊŠ »R Öê ¿ö ÀÂ
PANEL»TÀÓËà×ˆËÏÚj ¿z͆ËÏÓ„Ñ× (power) LED
Å ¿öÙ` »RÛþ×]Ü(keylock)»RSuspend Å Ð†»RÄó
Ó„Öìà» (green) LED Å ¿öÙ` »RÇÅÑ†Ð"Ø (reset)
Å Ð†»RÍü¿' (speaker) Ï¿»TË'¿zYÂæ¿|ÓéÂíÀŠ
Òà»T

ÀÍÂáØ ÎùÆ Âé¿è 5-pin ͆ËÏ×ˆÂí͆ËÏÛþ×]Ü Õa
Ó„Ñ× LED Å ¿öÙ`»RÀmÆÍ, ÂùÌï ÈàÊŠÆ Æ5ÔWÄÔ»R
Ãì¿YÂé¿è¾h¾w¾Ñ̈ÀÍÊ÷ÝU»T

PANEL

Keylock +

Power LED +

+

Speaker +

Reset

PANEL

ÀƒÄXØ ÎùÅvÇËÄ` ¿ˆÄ BC>fæ€1 ÄÔ͆ËÏ
×ˆ»RË'¿z¿YÂæ¿|ÓéÄÔ¾ À»ÂíÀŠÒà»R×ê×e
ÃŠÍ†ËÏ×ˆÄÔÆ ×ˆÆ ͆ËÏÂ 1 <Fg1 ÄÔÀ
Ò~»T

PANEL

×êÄqÑ̲: ÀƒÄXØ ÎùÇËÄ`¾hÆ ¿ï͇(turbo) Å Ð†Ã^¿lͱÅ ¿ö Ù`»RË' ¿z¿YË_¾Á¿èÃ Suspend Å Ð†Ã^Æ5Ó„Öì À» (green mode) Å ¿ö¿ñÉú»T

×ê¾ƒ¾ì: ÀƒÄXË' Áü Turbo Switch Ñ ÁQ Suspend switchÂí¿è»R ×ê×eÄŠ¿ÌÐÑǀŠ ÂüÀÒ¿YÖìÚÚÏ]Æ„À»Å Ûp (momentary mode)»T ÁpÅy²Ì̱è¿zÉúÏ]Ä|Ð"Ø »RÀnÆÁÆÁR¿ÝÕÑË{Ç¼¾ÀÐz¾[Suspend mode»T

2.3.13 Æ ¿•ׯÐáÙ Ê (IrDA)

¿Õ¿UØ Ä` ÄÔÌÞ¾XÀ ÀTÊ(serial port 2)¿z¾þÎÃ IrDA Æ ¿•×^Öì Ì ï»TÃì Ùñ IrDA (Infrared Data Association) Ç  ¿ÕÆ ¿ëHP»SCompaq»SIBMÎ¿ÛƒÀì ÀÂ¿ùÀÔ¾QÇí Ìï ÜÎ»R¿èÂí ËÚҰ†ÓS¿èÆ ¿•×^Ðá×^Ò ÈàÄÔÂøÍ_ÕaÜÍ¿è»TÅûÂí ÍÊÞ ÀÍÖ‡Êí¿l¾[»R IrDA Å\Í%ÂSÁèÀÂÆ ¿•×^ÐáÙ ÄÔÖêÑá»T¿^Ç€Ë`ÄÔÓ„Ò¼ÂýÍàÆ ¿•×^ÐáÙ ¿ñÉú»R¿S ÌßÀì IrDA ÍñÄŠ»RÎ_ÉúÊ Às¾QÄŠÐkÜ ¾Ô»R¾Õ÷Ç€Í†ÑÏ×^¾Æ5Ó͆ÑÏ»RÁj ¿zÀòÊäÕa ÏÁÊ` ÅÆÓ„Ò¼ÄèÇí¾YÖàÀ ÁƒÌ'(PDA) Æ5¾ÆÍ†×^»SÐáÕÕÚÃÈ﬩Ò ÈàÄèË_¾ÿ¿ ÊvÂ ¾þ ÎÃ IrDA ÄÔÀ]Ä Ø ÀTÀ]»T¿Õ¿UØ Ä` ¿z¾þÎÃHPSIR (115Kbps, 1 meter)»SASK-IR (56Kbps)»S Fast IR (4Mbps, 2 meters) Õa Consumer IR Ï¿ÍhÈ »T

ÀŠÒàÈã»R×êË_IrDA Æ ¿•×^Öì Ìï ÀŠÎ»Â ¿UØ Ä` ¾hÖêÀ**ItDA** ÄÔ ËÂêŠ»TÀŠÒà¾ÁÅû»RË'Ûó¿Ì Ö÷Ð"Ëì 1SZ` d1dv‡ ƒ1¾ÔÄÔÆ ¿•×^¿ñÉú»R¾ ¿z ¿ÜÊ¶¼ ÁQ»T

Pin	Õ»Ã
1	+5V
3	FIRRX (FAST IR)
4	CIRRX (Consumer IR)
5	IRRX (STANDARD IR)
6	5VSB
7	GND
9	IRTX (STANDARD IR)

2 4 6 8 10

1 3 5 7 9

IrDA
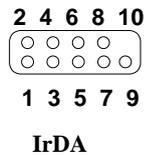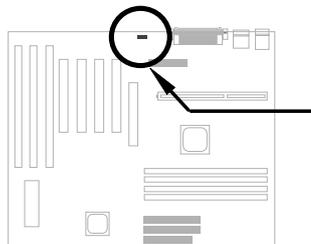
ÏŠß ÀŠÒá

2.3.14 Wake-up ËÏÚj

¿Õ¿UØ Ä` ¾n ÂýÀÍ ÉdÈ ×^Ò ÍnÇƒ»R¿z¾þÎÃÖàØôØ Í Ù (Modem Ring-On) ¿nÉú»R¾ÔËÏÀ» (AOpen MP56) Ãè¿•ËÏ À»ÖàØôØ Á»¿zØR¿è»T¿ëÃ Âé¿è¾ÔËÏÀ»ÖàØô¿uÃÔÖö»R¿ÇÈã ¾¼Õ÷ÉíÐ` Ó„Ñ×»RÃì¿YÁôÇæ¾ Ò ÅòÞÍË'Âé¿è»TÇj Ë'ËÞ¿èÃÔ Æ` AOpen MP56»RÅy×êÂé¿è 4-pin Í†ËÏ×^»RÍ†ËÏ MP56 ÄÔ **RING** ËÏÚj Õa¿UØ Ä` ¾n ÃŴ**WKUP** ËÏÚj »T

Pin	Õ»Ã
1	+5V SB
2	NC
3	RING
4	GND

Î½ö: Ê½¾WModem Ring-On ¾Á¿•»RÛÓ¿zÓS¿èÀsÂþ¿À Àr¾ »RÂìÀƒ IR wakeup Ãè voice wakeup»T


```
┌─────────────┐
│ ○   ○ ○ │
└─────────────┘
  1 2 3 4

     WKUP
```

2.4   ÀŠÒá¿UÊ`Øêß
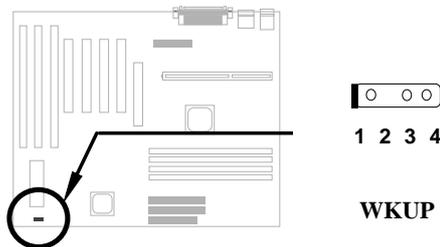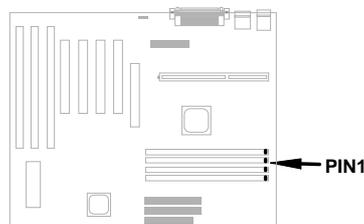
ÀÓ¿UØ Ä` ÀÍ 4 Ë DIMM (Dual-in-line Memory Module) Î»Öë»R¿z¿Y¾þÎÃ EDO (Extended Data Out) Ã^SDRAM (Synchronous DRAM)»TÍæÊÄÈv Ð„¿zÓWÂ 1GB»T

PIN1

¿Õ¿UØ Ä` ¿z¿Y¾þÎÄÖêÑá64/72-bit ÄÔ DIMM Öì Ìï»T

Ãì¾þÎÄÔ SDRAM ¿zÂæ¾fÀTÉdÃ仿Ý »X

- EvÐ„»XÍ ÇËÆÊ 1Mx64 (8MB)»S2Mx64 (16MB)»S4Mx64 (32MB)»S8Mx64 (64MB)»S16Mx64 (128MB)»WÅíÜ ÇËÆÊ 1Mx64x2 (16MB)»S2Mx64x2 (32MB)»S 4Mx64x2 (64MB)»S8Mx64x2 (128MB)»T

- Í‡Åñ»X¾QÉ Öê¿öÀƒ-12»RÍ¸¿_Ä À†Â Í‡Åñ (clock cycle time) Æ` 12ns»RÃì¿YÀÓ SDRAM Íæ¾ÄÔ clock ÆÊ 83MHz»T¿ ÀÍÖê¿öÆÊ-67»RÁj Å ÀaÂSÒ ÈàÐáÙ ÍæÁð¿z Â 67MHz»T

- ÀaÀ ¾Ð (parity)»XÏ] parity (64-bit) ÃèÀÍ parity (72-bit)»T

Ãì¾þÎÄÔ EDO RAM ¿zÂæ¾fÀTÉdÃ仿Ý »X

- EvÐ„»XÍ ÇËÆÊ 1Mx64 (8MB)»S2Mx64 (16MB)»S4Mx64 (32MB)»S8Mx64 (64MB)»S16Mx64 (128MB)»WÅíÜ ÇËÆÊ 1Mx64x2 (16MB»S2Mx64x2 (32MB)»S 4Mx64x2 (64MB)»S8Mx64x2 (128MB)»S16Mx64x2 (256MB)»T

- Í‡Åñ»XEDO RAM ÄÔÀ†Â Í‡Åñ (access time) ÆÊ 60ns Ãè 70ns»T

- ÀaÀ ¾Ð (parity)»XÏ] parity (64-bit) ÃèÀÍ parity (72-bit)»T

BIOS ¿zÀõÊäÊÔÎ Ê` Øêß ÄÔEvÐ„¾èÅÆÀ»»R¾4Ð÷Âé¿è Jumper ÍñÄŠ»TÍæ¾ÄÔÊ`Øêß Ev Ð„Æ` **1GB**»T

LX Îó¾ Ìï¿ˆÉúÂé¿è 3V EDO Ãè SDRAM»RÀnÅÓË‘¿z¿YÌgÀi Âé¿è EDO Ã^ SDRAM»T

ÂTÇí DIMM Î»Öëí½¿z¿YÀŠÒàEDO Ãè SDRAM»T¿YEDO âíÕ»»RÍæ¾ÇâÆÊ 256MB»W Åí SDRAM Åy¿Â 128MB»T

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

> Ä Ï : Ç€ÓWÂ 1GB ÄÔÊ`Øêß »RÕ÷Âé¿è double-sided buffered EDO DIMM»T

ÏŠß ÀŠÒä

¿Y¾fÀT¿i åòÞÍÂé¿èÄ@SDRAM Ìïài »X

DIMM Data chip	ÂTÇË bit Öà¿ò	Í Ü ÇË	Chip Öà¿ò	DIMM ¾f¾f
1M by 16	1Mx64	x1	4	8MB
1M by 16	1Mx64	x2	8	16MB
2M by 8	2Mx64	x1	8	16MB
2M by 8	2Mx64	x2	16	32MB
4M by 4	4Mx64	x1	16	32MB
16M by 4	16Mx64	x1	16	128MB
2M by 32	2Mx64	x1	2	16MB
2M by 32	2Mx64	x2	4	32MB
4M by 16	4Mx64	x1	4	32MB
4M by 16	4Mx64	x2	8	64MB
8M by 8	8Mx64	x1	8	64MB
8M by 8	8Mx64	x2	16	128MB

¿Y¾fÀT¿i åòÞÍÂé¿èÄ@EDO DRAM Ìïài »X

DIMM Data chip	ÂTÇË bit Öà¿ò	Í Ü ÇË	Chip Öà¿ò	DIMM ¾f¾f
1M by 4	1Mx64	x1	16	8MB
1M by 4	1Mx64	x2	32	16MB
1M by 16	1Mx64	x1	4	8MB
1M by 16	1Mx64	x2	8	16MB
2M by 8	2Mx64	x1	8	16MB
2M by 8	2Mx64	x2	16	32MB
4M by 4	4Mx64	x1	16	32MB
4M by 4	4Mx64	x2	32	64MB
16M by 4	16Mx64	x1	16	128MB
16M by 4	16Mx64	x2	32	256MB
2M by 32	2Mx64	x1	2	16MB
2M by 32	2Mx64	x2	4	32MB
4M by 16	4Mx64	x1	4	32MB
4M by 16	4Mx64	x2	8	64MB
8M by 8	8Mx64	x1	8	64MB
8M by 8	8Mx64	x2	16	128MB

Î½¿ö: ÀÍ¾ÐÇíÁø¿Ã¿z¿Y¿èÂíÁaÁ`Ë‘ÄÔ DIMM Â†ÍÔ Æ Í ÇËÛóÆ Ü ÇË -- ÀƒÄX DIMM Öì Ìï¾hÄÔÄ ¾iÅ pin 114 Õa pin 129 ÀÍÍ†ËÏÓ„Ò ÄÔÒö»RÍ, Çí DIMM Î_¿zÉúÆ Ü ÇËÄÔ»ÑpÅyÎ_Æ Í ÇËÄÔ»T×êÊëÀì¿Y¾f ÄÔÄ Óé»T

Pin 129   Pin 114
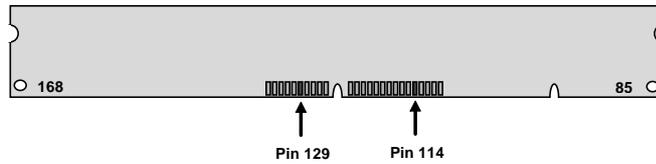
¾fÄ ÀT¿¡ Òxó]AOpen Î Òïó]ÄÔ EDO Ã^ SDRAM»X

ÈvÐ„/Ý ÅÆ	Ö‡Êí	ÅÆÒÓ	Í Ü ÇË	Chip ÖàÐ„
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

ÏŠß ÀŠÒà

ÈvÐ„/Ý ÅÆ	Ö‡Êí	ÅÆÐÓ	Í Ü ÇË	Chip ÖàÐ„
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

¿Õ¿UØ Ä` Æ ¿Yparity check ¾ À»ÊÕÎ Ê` Øêß Ù Õ•»TË'¿ÌÐÑÂé¿è72 bit DIMM (64 bit data + 8 bit parity) Âí¾pÎÃ parity check»RBIOS ¿zÀõÊäÊÕÄØ 72 bit parity DIMM»R ¾4Õ÷ÏŠß ÍñŠ»T

> **Î½ç ö:** Parity mode ÄÔ¾ À»ÆÊÂTÇí byte Öh¿1¾QÇí parity bit (ÀQ 9 bit)»RÍ„ËqÆÊÊÒÀaÀ ¾ À» (even parity mode)»RÁj ÂTÀÒÖx¾[Ê`Øêß Èã»RÂT¾Q byte + parity bit Ñ"Íb×ïØýÀÂÂýÀÍ ÊÒÖàÇí "1"»T Ñ ¾f¾QÀÒßÄ Ê`Øêß Ï,Ì' ÆÊÃpÖà "1"Èã»RÏŠß ÁjÌ½ç parity error ÅYÒÓ»RParity mode ¿ˆÉúÚaÎ ¿ìÍ ¾Q bit Ù Õ• (single bit error detection)»RÏ]Ä|ÀõÊäÁ ¿Ù»T

ÌÞ¾æÍÓ

Award BIOS

¿ÕÍÓË_õ»Ã àƒÀ ÍñÃŠÂ‡ÌèÊëÖà»R Ë‘¿¿¿YÂé¿è AOFlash Í,Çí¾ÂýÏ’À»ÂíÁ Ñ†¿UØ
Ä`ÄÔBIOS»T

> ÇÅÇ€: ÀnÆÊ BIOS codeÑ"ÚŸÏõÂ‡ÌèÍ€ÏŠß ÄÔÍnÇƒÇñÁ
> ÀíÁ Ðz»RÃì¿Y¿ì ÍwÈãÄÔ BIOS ÄÃ¿Õ¿zÉúÑ"Õa¿ÕÍÓ¾ÐÌê
> ÄÔ¾ÔÈv (ÉdÁ`Æ Chipset SetupÊëÖà) ÀÍÂáÈ‡ÌÁ»T

3.1   Ðz¾[**BIOS Setup** ¿UÙ Í

BIOS Setup Æ`¾Q Æ,À†Ã Ã Flash ROM ÄÔÏ’À»×ì »R¿¿¿Y¿èÂíÁ Á Â‡ÌèÊëÖà»RÂÝÈ_
¾ÁÀ†Ã 128 byte ÄÔ CMOS RAM ¾¾»Râé¿èÄæÀƒÇ€Ðz¾[BIOS Setup ¾¾»R¿ˆÇ€ÀsÐ"
Ø ÅûÂ‡ÌèÊ À POST (ÀõÁôÎ Òï) Èã»RÅ ¾f DEL Å Ûþ»RÅ\¿zÐz¾[AWARD BIOS
Setup ¿UÙ Í »T

AWARD BIOS

```
            ROM PCI/ISA BIOS (XXXXXXXX)
                 CMOS SETUP UTILITY
                AWARD SOFTWARE, INC.
```

STANDARD CMOS SETUP	INTEGRATED PERIPHRALS
BIOS FEATURES SETUP	PASSWORD SETTING
CHIPSET FEATURES SETUP	IDE HDD AUTO DETECTION
POWER MANAGEMENT SETUP	SAVE & EXIT SETUP
PNP/PCI CONFIGURATION SETUP	EXIT WITHOUT SAVING
LOAD SETUP DEFAULTS	LOAD EEPROM DEFAULT
LOAD TURBO DEFAULTS	SAVE EEPROM DEFAULT

```
  ESC  :  Quit              á â à ß  :  Select Item
  F10  :  Save & Exit Setup  (Shift) F2  :  Change Color
```

```
              Description of each function
```

Î½¿öK1Ù Øö "Load Setup Defaults" ¿zÒ ¾[Â‡ÌèÓŠ
¿ ÍnÃŠÄÔÊëÖàÇâ»ŴíÙ Øö "Load Turbo Defaults"
Åy¿zÂé¿èÒ ÁðÄÔÊëÖàÇâ»RÀ ¿ÌÐÑÆÒ ÜÏÍ ÄÔ‡Ìè
ÌïÀi»T

ÀsÏvÇ˾f¾ ÀÍ¾QÇíÅ ¿`À »RÁzÐUË‘ÀfÀ Ë_¾é¿ïÊéÌØÂ Ù ÐϾɳ»RÀfÀ Á Á ÍnÃŠ»R¿Y
¾èÀfÀ Ë„¾QÇíÏvÇÌØÂ ¿‡¾QÇíÏvÇË»T

á â à ß   »ӼÁb¿è¾ ÀgÛþ»R¿ƶ_¾é¿ïÊéÌØÂ Ë ÇñÁ ÄÔÙ ÐϾɳ»T

[SHIFT] [F2]   »XÅ Í¸ÇíÌïÀi Ûþ¿ƶYÁ ßößý¿öÄÔÝTÀü»T

[F10]   »XÅ ÀÓÛþÄ ¿öÜ Ð"ÀvÀ†Úã»T

▬▬   »XÅ ÀÓÛþÄ ¿öÜ Ð"ÍnÃŠÏvÇË»T

▬▬   »XÅ ÀÓÛþÄ ¿öÜ Â ÁÓÀÃÃèÐz¾[ÀÒÙ Í »T

Íæ¾fÇ˾QÀ ÅyÆ Ó ÃìÙ ÐÏ¿òÄÔÜ̾Đ»T

3.2   Standard CMOS Setup

Ù Øö "Standard CMOS Setup" Í*ÅŠÏvÇË»R¿z¿YÙ Øöâ‡ÌèÄÔÊ ¿ÕÍ*ÅŠ»RÀ*fÙ ¾[¾
ÎÛ»SÈãÐ»¾ÔéÔêØ ÅÆÔRÄÔÍ*ÅŠÇâ»TÂé¿èÄæ¿zÁb¿è¾ ÀgÛþË_¾é¿ïÊéÎØÂ Ë ÇñÁ ÄÔÙ
ÐÏ¾h»RÀRÂé¿� Ãè merged Å ÛþÍ*ÅŠÙ ÐÏÄÔÊëÖàÇâ»T

```
                ROM PCI/ISA BIOS (XXXXXXXX)
                   STANDARD CMOS SETUP
                  AWARD SOFTWARE, INC.

  Date (mm:dd:yy)  :  Wed.  Mar   6  1996
  Time (hh:mm:ss)  :  00:00:00


  HARD DISK         TYPE   SIZE   CYLS   HEAD   PRECOMP   LANDZ   SECTORS   MODE
  Primary Master  : Auto     0      0      0        0       0         0     AUTO
  Primary Slave   : Auto     0      0      0        0       0         0     AUTO
  Secondary Master: Auto     0      0      0        0       0         0     AUTO
  Secondary Slave : Auto     0      0      0        0       0         0     AUTO


  Drive A :  1.44M, 3.5 in
  Drive B :  None                  Base Memory :      640 K
                                   Extended Memory:  15360 K
  Video   :  EGA/VGA                Other Memory :     384 K
  Halt On :  All Errors            Total Memory :    16384 K

  ESC  :  Quit                   á â à ß  :  Select Item
  F10  :  Save & Exit Setup     (Shift) F2  :  Change Color
```

Standard CMOS à Date

ÀfÄXË‘ÑbÇ€Í*ÅŠ¾ ÎÛ»R¿z¿YÁb¿è¾ ÀgÛþË_¾é¿ïÊéÎØ**Date** ÊëÖàÍS»RÀRÅ ¾merged
Ãè merged Í*ÅŠ¿òÅvÄÔ¾ ÎÛ»T¾ ÎÛÄÔÊëÖàÈ À»ÆÊ¾ »S¾ Ã^À•»T

Standard CMOS à Time

ÀfÄXË‘ÑbÇ€Í*ÅŠÈãÐ»»R¿z¿YÁb¿è¾ ÀgÛþË_¾é¿ïÊéÎØ**TIME** ÊëÖàÍS»RÀRÅ ¾merged
Ãè `PGDN` Í*ÅŠ¿òÅvÄÔÈãÐ»»TÈãÐ»ÄÔÊëÖàÈ À»ÆÊÈã»S¾ÍÃ^ Æ »RÆ ¿ɥ4 ¾fÈã¾ À»Ä
¿ö»T¾Q¿ÓÍ*ÅŠÀ€ÈãÐ»Ã^ ¾ ÎÛ»RÂTÀÒÇÅÑ†Ð"Ø Å\¾Ð÷ÀRÇÅÑ†Í*ÅŠ»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
Auto
User
None
1
2
...
45

ÀÓÙ ÐÏ¿zÍnÄŠÂ‡ÌèÃì ¾pÎÄÔ IDE ÏŠÔêÊëÖà»RÂì ÀƒÈvÐ„ (Size)»SÔéÆn Öà(Cylinder)»SÔéÚj Öà(Head)»SÓŠÒãÚ%(pre-compensation) ÄÔÊpÃ} Cylinder Çâ»SÔéÚj ¿ ÈÁÊé(Landing Zone) ÄÔ Cylinder Çâ»SÔéÈÊÖà (Sector) Ï¿»TÑ Ë‘Ë_ÊëÖàÇâ ÍnÆÊ **Auto** Èã»RBIOS Ñ"ÀsÂ‡ÌèÊ À Ð"Ø ÀõÁôÎ Ôï (POST) Èã»RÀõÊäÊÔÎ ÏŠÔïÔéÔêØ ÄÔType»RÂÝÀs Standard BIOS Setup ¾¾Bý¿ö¿i Âí»TÇj ÊÔÎ ¾¾ ÏŠÔêÄÕype ÃèÑbÀõÀ ÍnÄŠ ÊëÖàÇâ»R×êÍnÆÊUser»TÀƒÄXÂ‡ÌèÂÝ¿ÖÊ‡ÍàÏŠÀ»ÔéÔêØ »R×ê Ë_ Type ÍnÆÊ None»T

IDE CDROM Í¼Æ ÀõÊäÊÔÎ ÄÔ»T

Î½¿ö: Ë' ¿zÁb¿è¿UÏvÇËÄÔ "IDE HDD Auto Detection" Ù ÐÏÂíÀõÊäÊÔÎ ÃìÀŠÒàÄÔ IDE ÏŠÔêÍh È »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
Auto
Normal
LBA
Large

Âé¿è Logical Block Address (LBA) Öìà»ÐáÊvÒ Èà¿z¾pÎÄÐh Ó] 528MB ÄÔÏŠÔê»T¿òÀv¿ÅÍ ¾hÄÔDE ÏŠÔê¾¾ÀyÂýÍà LBA ÐáÊvÖìà»»RÂþÚ‹À†ÈvÐ„Á»Ðh Ó] 528MB»TÀƒÄXÂé¿èÄÔÏŠÔê¾%Š ÍbÈ À»¾àÆÊLBA On »RÎ_¾¾Êú¿èLBA Off ÄÔ¾ À»ÂíËìÊä»T

3-4

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‚ÇíÙ ÐÏ¿z¿èÂíÙ Øöí€ÔêÄÔÝ ÅÆ»R ×êÌØÊä¾ ÀgÛþÀö Drive A Ãè Drive B ÍS»RÅ ████ Ãè ████ Ù ØöÕaÍ€À»ÔéØ ÆõÌßÄÔÊëÖàÁj ¿z»RÂþÍnÄŠÇâÀƒ¿Ä»T

Standard CMOS à Video

Video
EGA/VGA
CGA40
CGA80
Mono

ÀÓÙ ÐÏ ¿zÍnÃŠÃì Âé¿èÄÔßý¿ö¿uÅÆÔR »RÊëÖàÓŠ ÍnÇâ ÆÊ VGA/EGA»T¿ëÃ ¿òÅvÄÔÇí¾ÝÓ„Ò¼ÆæËqÂ¼ÄÔÍhÈ ÆÊVGA»RÃì ¿YÍ‚ÇíÙ ÐÏÎi¿XÂdÀÍ¾ÊÕ ¿èÍS»T

Standard CMOS à Halt On

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

ÀÓÙ ÐÏ¿ÆËËÂ Â‡ÌèÊ À ÀõÁôÎ Òï (POST) Èã»R ÀƒÊÕÎ Â Ù Õ•Æ` ÁpÇ€ÊÊ¾ ÓSÁQ»TÊëÖàÓŠÍnÇâ ÆÊAll Errors»RÄ ¿öÂ‡Ìè¿^Ç€ÊÕ Î Â Ù Õ•ÄÆÄƒ»RÁj Ñ'ÊÊ¾ ÓSÁQ»T

AWARD BIOS

3.3 BIOS Features Setup

ÀƒÄXÀs¿UÙ Í ¾¼Ù Øö"BIOS Features Setup" ÐÏ¿ò»RÁj Ñ³ÀsÙÝÓ ¾hßý¿öÀƒ¾ÏvÇË»X

```
          ROM PCI/ISA BIOS (XXXXXXXX)
             BIOS FEATURES SETUP
           AWARD SOFTWARE, INC.
```

```
Virus Warning              : Disabled    Video BIOS Shadow  :   Enabled
                                         C8000-CBFFF Shadow :   Disabled
External Cache             : Enabled     CC000-CFFFF Shadow :   Disabled
Quick Power On Self Test   : Enabled     D0000-D3FFF Shadow :   Disabled
Boot Sequence              : A,C,SCSI    D4000-D7FFF Shadow :   Disabled
Swap Floppy Drive          : Disabled    D8000-DBFFF Shadow :   Disabled
Boot Up NumLock Status     : ON          DC000-DFFFF Shadow :   Disabled
Boot Up System Speed       : High
Typematic Rate Setting     : Disabled
Typematic Rate (Chars/Sec) : 6
Typematic Delay (Msec)     : 250
Security Option            : Setup
PCI/VGA Palette Snoop      : Disabled
OS Select for DRAM > 64MB  : Non-OS/2
                                         ESC: Quit        áâàß : Select Item
                                         F1 : Help        PU/PD/+/-  : Modify
                                         F5 : Old Values  (Shift) F2 : Color
                                         F6 : Load Setup Defaults
                                         F7 : Load Turbo Defaults
```

BIOS Features à Virus Warning

Virus Warning	ÀÓÙ ÐÏ¿zÍnÄŠÓ„Ò¼ÉwÆ.ÂØÄ‰¿nÆú»RÅ` ßQÏŠÔêÄÔÐ"Ø ÊéÆ„ (Boot
Enabled	Sector) ¾è¾ÚÍèÄ (Partition Table) ¾Â ÉwÆÅZÈφTÀƒË_ÊëÖàÍ*nÆÊ
Disabled	Enable»RÄ ¿öÓ„Ò¼ÀsÐ"Ø Ó]Ï'¾¾RÀƒÀÍÒ ÈàÔx¾¼ÏŠÔêÐ"Ø ÊéÆ„»R
	ÂĬèÁj Ñ´ÊË¾ ÓSÁQ»RÂYÑ³ÀsÙÝÓ ¾h¿i Ì'¿Y¾ƒÄÔÐÏÁzÊeÒÓ»TÀÓËã»R
	×ê¿èË×ÆÏ'À»Áþ¿i Ê÷ÝUÃìÀs»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

External Cache	ÀÓÙ ÐÏ¿zÍñÃŠÂ‡ÌèÂé¿èÌÞ¾XÐ¿ÁðÂ Ê`Øêß (¿òÅvÆÊPBSRAM
External Cache	
Enabled	ÁðÂ Ê`Øêß)»R¿Y¿lÁðÓ„Ò½ÄÔÊ À ÈÞÌ‰TÂ È ÍñÃŠÑˆÎ ÔTÂ‡Ìè
Disabled	ÄÔÍ‡Àñ»RÃì¿YÅòÞÍÉ'Ë_ÊëÖàÍñÆÊ Enable»RÊ¼ÅUÂ‡Ìèï,¿ç¾½Ç
	ÃŠÃÔÄÆÄƒ¾•ÍñÆÊ Disable»T

BIOS Features à Power-On Self-Test

Quick Power-on	ÀÓÐÏ¿ò¿zÍñÃŠÂ‡ÌèÒ Ó]Æj ÂáÎ ÒïÐÏ¿ò»R¿Y¿lÁðÀõÁôÎ Òï
Quick Power-on	
Self-test	(POST) ÄÔÏ'Áá»TÊëÖàÓŠÍñÇâÆÊ Enabled»T
Enable	
Disabled	

BIOS Features à Boot Sequence

Boot Sequence	ÀÓÙ ÐÏ¿zÅ ÃŠÂ‡ÌèÐ"Ø ÈãÄÔÑ{Î^ ÐÐÁá»TÏ̊ÔêÄÔÝëÁ`×i (ID) Àƒ
Boot Sequence	¾ƒÃì¿ö»X
A,C,SCSI	
C,A,SCSI	C: Primary master
C,CDROM,A	D: Primary slave
CDROM,C,A	E: Secondary master
D,A,SCSI	F: Secondary slave
E,A,SCSI	LS: LS120
F,A,SCSI	Zip: IOMEGA ZIP Drive
SCSI,A,C	
SCSI,C,A	
C only	
LS/ZIP,C	

BIOS Features à Swap Floppy Drive

Swap Floppy Drive	ÀÓÙ ÐÏ¿z¿Y¾ﬂÎÏÁÍ€À»ÔéÔêØ ÄÔÀ Ò~»TÂìÀƒ»RÇj ÀÍÂü¿‹Í€À»Ôé
Swap Floppy Drive	ÔêØ (A»ÆB) »RË'¿z¿YÅ ÃŠÌÞ¾Q¿‹ÆÊÔéÔêØ B»RÌÞ¾X¿‹ÆÊÔéÔê
Enabled	Ø A»T
Disabled	

BIOS Features à Boot-up NumLock Status

AWARD BIOS

Boot-up NumLock Status
On
Off

ÀÓÙ ÐÏ¿zÍ nÃŠÛþ×] ¾h ÄÔÕàÀ..Ûþ¿‹Âé¿èÖì À»»TË_ÊëÖàÇâÍ næÊ On»RÄ ¿ö¿ß ÖàÀ.Ûþ¿‹ÍSÃ ÖàÀ.Ù ¾ÄÆ0R»WÀƒÀXÍ næÊ Off»RÅy ÀsÐ"Ø ÅûÐâÉúÂé¿èÎ ÿÖêÉÉ Â ¿næú»TÊëÖàÓŠÍ nÇâÆÊ On»T

BIOS Features à Boot-up System Speed

Boot-up System Speed
High
Low

Ë'¿z¿YÙ ØöÂ‡Ì èÄÔÊ À Í‡Å ñÆÊ   High Ãè Low»TÊëÖàÓŠÍ nÇâÆÊ High»T

BIOS Features à Typematic Rate Setting

Typematic Rate Setting
Enabled
Disabled

ÀÓÙ ÐÏ¿zÍ nÃŠÂèÂ È Ûþ×]ÖìÚÚÇÅ×àÔgÚÕÄÔ¿næú»TË_ÀÓÊëÖàÍ n ÆÊEnabled»RÂ‡ÌèÁj ¿zËÏÂ Ûþ×]ÖìÚÚÍ bÇÅ×àÔgÚÕÄÔÊäÁQ»T

BIOS Features à Typematic Rate

Typematic Rate
6
8
10
12
15
20
24
30

ÀÓÙ ÐÏ¿zÍ nÃŠÇÅ×àÔgÚÕÔÛþ×]ÄÔÍ‡Å ñ»RÊëÖàÇâÆÊ6»S8»S10»S 12»S15»S20»S24»S30 Ï¿»TÂ‡ÌèÓŠÍ nÇâÆÊÂ TÆ 30 Çí À.¾Ò»T

AWARD BIOS

BIOS Features à Typematic Delay

Typematic Delay
250
500
750
1000

ÀÓÙ ÐÏ¿z¿èÂíËËÂ Ñ Ûþ×] ÍbÇÅ×àÔgÚÔÈã»RÀ.¾ßý¿öÀsÙÝ Ó ¾hÄÔÈãÐ»È‡»RÀÍ 250»R250»R500»R750 Ã^ 1000 ms»T ÓŠÍnÇâÆ 250 ms »T

BIOS Features à Security Option

Security Option
Setup
System

ÀÓÐÏ¿ò¿zÍnÄŠÂ‡ÌèË\×i »RÛñÁ\¿] ¾Y¿ÖÒxÈÜß‰SÀíØïÀõÂé¿èË' ÄÔÔ„Ò½»T

ÀƒÄXÍnÆ **System**»RÄ ¿öÂTÀÒÇÅÑ†ÈìÊäÂ‡ÌèÈã»RÍ¼Ñ'Ç€ÂUÙ ¾[Ë\×i »T¿‡¿•»RÐz¾[BIOS Setup Ï'À»Èã»R¾nÑ'Ç€ÂUÙ ¾[Ë\ ×i »T

ÀƒÄXÍnÆ **Setup**»RÐâÑ'ÀsÐz¾[BIOS Setup Ï'À»Èã»RÇ€ÂUÙ ¾[¾[Ë\×i »TÀƒÇ€Â È Ë\×i ¿nÚú»R×êÙ Øö¿UÙ Í ÄÔPassword Setting" ÐÏ¿ò»R¾¼Ç€Ù ¾[¿ À Ò Èà»RÅ ¾f<Enter> ÛþÁj ¿z»T

BIOS Features à PCI/VGA Palette Snoop

PCI/VGA Palette Snoop
Enabled
Disabled

ÀÓÙ ÐÏ¿zÇ€ÂU PCI VGA ¿uÄÔ×ïÀü×] (Palette Snooping) Íb À†Â ÈãÅ`Å ÀŠÚc»R¾¼AoUÍ¿ À ÅYÒÓ¿YÛñÁ\Æö×Þ»T ÀƒÄXË'Às PCI Üi ¿cÖë¾hÄŠÎ»Âü¾ ÀaÖà×ïÀü×]À Á"ÄÔÜi ¿c¿ûiÀƒ»X MPEG ¿uÄèÖ%ÓÍÈÑÈÕ¿u)»R¿zÈ_Ù ÐÏ ÍnÆ Enabled»RÓŠÂØÜi ¿c¿uÆö×Þ»T

BIOS Features à OS Select for DRAM > 64MB

OS Select for DRAM > 64MB
OS/2
Non-OS/2

ÀƒÄXË'Âé¿è OS/2 ÁQÑ•Â‡Ìè»RÂÝ¿SÊ`Øêß ÈvÐ„Ðh64MB»R ¿zÈ_ÊëÖàÇâÍnÆ OS/2»RÂÁpÅy×êÙ Non-OS/2»T

AWARD BIOS

BIOS Features à Video BIOS Shadow

Video BIOS Shadow
Enabled
Disabled

ÃìÙñ VGA BIOS Shadow Æ` Ë_ßý¿ö¿uÄÔBIOS Ò Èà×àÕ†Às
DRAM Ê`Øêß ¾¾»R¿z¸lÁðÂ‡ÏèÄÔÊ À ÈÞÌ‰RÀnÆÊ DRAM ÄÔ
À†Â Í‡Åñ¾ ROM ÛóÁð»TÊëÖàÍnÄŠÇâÆÊEnabled»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

C8000-CBFFF Shadow
Enabled
Disabled

Í‚ÂáÀ Á"Æ`Ê`Øêß Å`ÉuÏÓÜi ¿c¿uÂé¿èÄÔ»TÀƒ ÄXÙ Øö
Enabled»RÂ‡ÏèÑ‘Ë_Üi ¿c¿uÄÔ ROM Code ×àÕ†¾Q¿ Â ¿UÊ`
Øêß (DRAM) ÊéÊ ¾¾»RÀÓÁøÍ_ÔóÆÊShadow»R¿zÔWÂ Ò Áð
ÄÔÍSÌ‘Í‡Åñ»TÇj Ë‘¾¾Ì^Ñ»Üi ¿c¿iROM Code ÄÔÀ Á"Ò Èà»R
¿Ë_ÊëÖàÍ¼ÍnÆÊ Enabled»R¾ Ò ÉúÅ`ÝìÓ Æ^ Â ÃìÀÍÄ0OM
Code»RÀ È Ð`Ê`Øêß »T

ÄqÑ_: F000 Ã^ E000 À Á"Æ`Ë^Ä Å`ÉuÏÓ BIOS
Code Ó Æ¾Á¿è»T

3.4 Chipset Features Setup

"Chipset Features Setup" ÆÊ¿UØ Ä`ÄÔÎÓ¾ ÌïÆ5Ý ¿níúÍnÃŠ»RÍ‚Âá¿níúÍ„ËqÕaÓ„Ò½
ÄÔÊ À ÈÞÉúÀÍÝ »T

```
            ROM PCI/ISA BIOS (XXXXXXXX)
               CHIPSET FEATURES SETUP
               AWARD SOFTWARE, INC.

┌─────────────────────────────────┬─────────────────────────────────┐
│ Auto Configuration: Enabled     │ AGP Aperture Size (MB)  :64      │
│                                 │                                 │
│ DRAM Speed Selection    :60 ns  │ **********  Jumpless Setup  *********** │
│ MA Wait State           :Slow   │                                 │
│ EDO RAS# To CAS# Delay   :2      │ System Frequency Default:   Mhz  │
│ EDO RAS# Precharge Time  :3      │ CPU Clock Frequency     :66.8 Mhz│
│ EDO DRAM Read Burst      :x222   │ CPU Clock Ratio         :3.5     │
│ EDO DRAM Write Burst     :x222   │                                 │
│ SDRAM(CAS Lat/RAS-to-CAS):2/2    │                                 │
│ SDRAM RAS Precharge Time :2T     │                                 │
│ DRAM Loading            :Normal  │                                 │
│ DRAM ECC Function       :Disabled│                                 │
│ CPU-to-PCI IDE Posting  :Enabled │                                 │
│ Video BIOS Cacheable    :Disabled│                                 │
│ Video RAM Cacheable     :Enabled │                                 │
├─────────────────────────────────┼─────────────────────────────────┤
│ 8-bit I/O Recovery Time  :4      │ ESC: Quit       áâàß   : Select Item │
│                                 │ F1 : Help     PU/PD/+/- : Modify │
│ 16-bit I/O Recovery Time :1      │ F5 : Old Values (Shift) F2 : Color │
│ Memory Hole At 15M-16M   :Disabled│ F6 : Load Setup Defaults        │
│ Passive Release         :Disabled│ F7 : Load Turbo Defaults         │
│ Delayed Transaction     :Disabled│                                 │
└─────────────────────────────────┴─────────────────────────────────┘
```

ÄqÑ_: ÀsÁ ßö¿ À ÍnÃŠÅv»R×ê×eÃŠË'Æ ÁpÓ Í‚Âá
ÐÏ¿òÄÔÍnÃŠÁÓ¿ ÛÐë»RÁpÅy¾⁄ØRÑ ÄÔÍnÃŠÊ½⁄Ï]Ä|
Î½⁄äÌèÄÔÊ À Í‡Åñ»R¾⁄éÇàÑ"Ö%ßeÂ‡ÌèÄÔÝÇÃŠÃä»T

AWARD BIOS

Chipset Features à Auto Configuration

Auto Configuration
Enabled
Disabled

ÍñÃŠÀÓÙ ÐÏ»RⱡèÑ˜Âæ⌀ô CPU ÄÔ Type Ã^ Timing ÀíÇÅ Ñ†×ï⌀ý DRAM Ã^ Cache ÄÔÇâ»TÀƒÄXÑbÇ€Àõ¾‰ÍñÃŠ DRAM Timing»R×ê¿ Â È ÀÓÐÏÍñÃŠ»T

Chipset Features à DRAM Speed Selection

DRAM Speed Selection
50 ns
60 ns

ÀÓÙ ÐÏ¿zÍñÃŠ DRAM timing ÆÊ 50ns Ãè 60ns»T

Chipset Features à MA Wait State

MA Wait State
Slow
Fast

Ëì¿èÃèÂ È ¾QÇíMA (DRAM memory address) Ï¿Å÷ÄÆ ÔR»TÕŠÍñÄÔÍñÃŠÆ **Slow**»RÀƒÄXÇ‡Ì ÅöÇÅ (chip ÖàД„Ô Ày) Ãè DRAM Í‡ÅñÕ ÔTÄÔÕö»R¿zÍñÆÊ Fast»T

Chipset Features à EDO RAS# to CAS# Delay

EDO RAS# to CAS# Delay
2
3

¿èÂíÍñÃŠ RAS (row address strobe) Õa CAS (column address strobe) ÊeÒÓÐ»ÄÔÏ¿Å÷ÄÆÔR»T

Chipset Features à EDO RAS# Precharge Time

EDO RAS# Precharge Time
3
4

¿èÂíÍñÃŠ EDO RAS ÊeÒÓÄÔ Precharge ÈäÐ» (¿Yclock Çƒ Öà)»TPrecharge ÆÊ RAS ßÄÖxÊäÁQÅvÄÔÑáÍàÈäÐ»»T

AWARD BIOS

Chipset Features à EDO DRAM Read Burst

EDO DRAM Read Burst
x333
x222

Read Burst ÄÔÑ_ÅþÆ` CPU ßÄÂ Ò ÈàÈã»R¿ˆÊv¿i ¾QÇíÀ Á"ÊeÒÓ»RÀ DRAM ÈôØôÓŠÃŠÄÔÀ Á"ÀgCPU Êv¿i 4 ÇíÍ† Þ ÄÔÊ` Øêß Ò Èà»TÓŠÍnÇâÆÈx222»RÆ Å ÌÞ»SÌÞ3»R¾èÌÞ 4 ÇíÊ` Øêß Ò ÈàÕ÷Èã 2 clock»RØR¿èÃ Í‡ÅñÆÊ 60ns ÄÔ EDO DRAM»Tx ÄÔÇâÂ Â^Ã ÌÞ¾QÇímemory cycle ÄÔÈã Ð»T

Chipset Features à EDO DRAM Write Burst

EDO DRAM Write Burst
x333
x222

Write Burst ÄÔÑ_ÅþÆ` CPU ÈôØôÓŠÃŠÄÔÀ Á"Öx¿i 4 ÇíÍ† Þ ÄÔÊ` Øêß Ò Èà»RÀ ¿ˆÊv¿i ÌÞ¾QÇíÀ Á"Ì‡DRAM»TÓŠÍn ÇâÆÈ x222»RÆ Å ÌÞ»SÌÞ3»R¾èÌÞ4 ÇíÊ` Øêß Ò ÈàÕ÷Èã2 clock»RØR¿èÃ Í‡ÅñÆÊ 60ns ÄÔ EDO DRAM»Tx ÄÔÇâÂ Â^Ã ÌÞ¾QÇímemory cycle ÄÔÈãÐ»T

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

SDRAM(CAS Lat/RAS-to-CAS)
2/2
3/3

ÀÓÙ ÐÏ¿ƒÍnÄŠ SDRAM CAS Latency Â^RAS Ó CAS ÄÔ Ï¿Å÷ÈãÐ»TÍ, ÂáÍnÄŠÇâ¿Ò‰Be SDRAM ÄÔÊ À ÀÂÈÞ»RÓŠ ÍnÇâÆÊ 2 clocks»RÀ ƒÄXÀŠÒàÅû»BDRAMÀÍ¾¼ÆóÈvÄÔË» Áè»R×êË_2/2 Á ÆÊ 3/3»T

Chipset Features à SDRAM RAS Precharge Time

SDRAM RAS Prechatge Time
2T
3T

¿èÂíÍnÄŠ SDRAM RAS ÊeÒÓÄÔ Precharge ÈãÐ» (¿Y clock Çƒöà)»TPrecharge ÆÊ RAS ßÄÖxÊäÁQÅvÄÔÑáÍàÈã Ð»»RÓŠÍnÇâÆ` 3 clocks»T

AWARD BIOS

Chipset Features à DRAM Loading

DRAM Loading
Normal
Heavy

Ñ Ë'Ï‚Ì'Â‡Ìè¾¼Æ ÅöÝÇÃŠÄÔÈãÇî»R×êÚáÆu¾Q¾DRAM ÄÔ chip Öà»TÇj chip Öà¾{Ã 64»R×êË_Í‚ÇíÙ ÐÏÍnæÊ Heavy»T

Î½ö: 64 ¿ˆÆ ¾QÇíÊëÀìÇâ»RÀÍÈã¿ˆÇ€Ë'ÞËË, chip Öà¾ÀyÈã»RÎ_¿z¿YÒïÏõÁüÍ‚ÇíÙ ÐÏÍnæÊ Heavy»T

Chipset Features à DRAM ECC Function

DRAM ECC Function
Enabled
Disabled

¿èÂíËì¿èÃèÂ È DRAM ECC ¿Éú»T

Chipset Features à CPU-to-PCI IDE Posting

CPU-to-PCI IDE Posting
Enabled
Disabled

¿èÂíËì¿èÕaÂ È CPU Â PCI IDE ÄÔ×Š×ÞÊé (FIFO buffer)»TCPU ÖxÀö IDE ÄÔÒ ÈàÑ°¿ À†ÀsÀÓ FIFO ¾Ô»RÀR ÂæÁáÖx¾{ HDD»TÀƒÀXË'Ï‚Ì'¿ À ¾Æ¿ÈvÄÔÌ'ÐY»R¿z¿YÓÛ ÒïÝ ËÖÀÓ¿Éú»T

Chipset Features à Video BIOS Cacheable

Video BIOS Cacheable
Enabled
Disabled

ÀÓÙ ÐÏ¿zß Ö%ÓÍ BIOS Ä×ËÏË„ÁðÂ Ê`Øêß ËìÊä»R¿Ií‡Â‡ ÌèÄÔÊ À Í‡Åñ»T

Chipset Features à Video RAM Cacheable

Video RAM Cacheable
Enabled
Disabled

Í‚ÇíÙ ÐÏ¿z¿èÂíÁðÂ Video RAM A000 Õa B000»T

Chipset Features à 8 Bit I/O Recovery Time

8 Bit I/O Recovery Time
1
2
3
4
5
6
7
8
NA

ÀÍ¾QÂáÒ ÜÜÄÛ/O Î Ó¾ »RÀsÊ à ÁÓ¾QÇ1/O Ãc¿`Åû»RÕ÷Ç€ ¾QÇíÎpÇ ÈãÐ»»R¾ÉúÀRÞ•Þ Ê à ¾f¾QQ/O Ãc¿`»T¿ëÃ ¿òÅvÄÔ CPU Ã^Î Ó¾ Ìïͼ Ë_I/O ÄÔÍSÌ 'Í‡Åñ¿lÁð»RÂéË, Í, ÂáÜÜÅÆÄÔ ISA ÍníàÕ÷Ç€¿láðÎpÇ ÈãÐ»»TÀÓÙ ÐÏ¿zß Ë'Å ÃŠÑ ISA ¿uÆÊ 8-bit Èã»RI/O Ãc¿`ÀoÚÍÏÓÂ‡Ïèãìõ÷Ç€ÄÔÎp Ç ÈãÐ»»TÀƒÄXË'Ï, Ì'ÃìÀŠÒàÄÔ 16-bit ISA ¿uÀÍ¾Æ5ÈvÄÔ Ë»Áè»R¿DïÏṏÏÄ I/O ÎpÇ ÈãÐ»»TBIOS ÓŠÍnÇâÆÊ 4 ISA clocks»TÀƒÄXË_ÊëÖàÇâÍnÆÊNA Èã»RÎ Ó¾ Ìïш"ÀõÊäÙ ¾[3.5 ÄÔ‡Ïèã̈Éù»T

Chipset Features à 16 Bit I/O Recovery Time

16 Bit I/O Recovery Time
1
2
3
4
NA

ÀÓÙ ÐÏ¿zÍnÃŠ ISA ¿uÆÊ 16-bit Èã»R I/O Ãc¿`ÀoÚÍÏÓÂ‡Ïè ãìõ÷Ç€ÄÔÎpÇ ÈãÐ»»TÀƒÄXË'Ï, Ì'ÃìÀŠÒàÄÔ 16-bit ISA ¿u ÀÍ¾Æ5ÈvÄÔÊ»Áè»R¿Dï ÏṏÏÄ I/O ÎpÇ ÈãÐ»»TBIOS ÓŠÍn ÇâÆÊ 1 ISA clocks»TÀƒÄXË_ÊëÖàÇâÍnÆÊNA Èã»RÎ Ó¾ Ìïш" ÀõÊäÙ ¾[3.5 ÄÔ‡Ïèã̈Éù»T

Chipset Features à Memory Hole At 15M-16M

Memory Hole At 15M-16M
Enabled
Disabled

ÀÓÙ ÐÏ¿zÅ`Éu‡Ê`Øêß ÊéÊ ÏÓÅ ÃŠÄÔ ISA ¿uÂé¿è»R¿YÛñ Á\Ê`Øêß Æõ×Þ»TÎ Ó¾ Ìï¿Ë„ÀÓÊéÊ ÏÀÆÄ×ÈÏ¿ë ISA bus ÐáÙ Ó]ÂíÄÔÔ Èãà^Ôë×i »TÍ„ËφRÀÓÊéÊ Æ Å`ÉuÏ/O ¿u Ó Æ^Âé¿è»T

AWARD BIOS

Chipset Features à Passive Release

Passive Release
Enabled
Disabled

ÀÓÙ ÐÏ¿æß Ë'ËÊÂ   PIIX4 Î Ó¾ Ìï (Intel PCI Ø ËÏ ISA) ÄÔ ÍbÊäÐáÕÖ¿ńú»TÀÓ¿ńúÆ ÍbÂé¿èÀsÂ‡Ìèó[Â   ISA ¿UÐñËà ÆŒÌ½¿çÃÏÙ »TÀƒÄXË'ÄÔ ISA ¿uÀÍ¾ÆÉÈvÄÔË»Áè»R¿ż¿YÓÛ Òï¿yÍńÃŠÃèÂ È »T

Chipset Features à Delayed Transaction

Delayed Transaction
Enabled
Disabled

ÀÓÙ ÐÏ¿æß Ë'ËÊÂ   PIIX4 Î Ó¾ Ìï (Intel PCI to ISA bridge) ÄÔÃÏÙ ¿ Ã ¿ńú»T¿ëÃ PCIÄÔÔ ÈàÐáÙ Ñ¾ ISA bus Áð»R ÀƒÄXË'ÄÔ ISA ¿uÑ°ÀÍ¾ÆÉÈvÄÔË»Áè»R¿ż¿YÍńÃŠÀÓ¿ńúß PCIÄÔÐáÙ Ò ÈàÃÏÙ »T

Chipset Features à AGP Aperture Size (MB)

AGP Aperture Size (MB)
4
8
16
32
64
128
256

Í‚ÇíÐÏ¿ò¿èÂíÂ^ÃŠAGP Ò ÈàÐáÕÖÊéÊ ÄÔ¾¼¾ƒ»T

Chipset Features à Pentium II microcodes

Pentium II microcodes
Enabled
Disabled

ÀÓ microcode Æ ¿èÂíÇñ¿ÙCPU ÄÔ bug»RË{ÉaÅòÞÍË'Ù Øö Enabled»T¾¼Ó]Çj Ë'ÁàË ÀÍÒ ÊÄÄÔ‡Åñ»R¿ż¿YÀìÖ'Ù Øö Disabled»T

AWARD BIOS

Chipset Features à System Frequency Default

System Frequency Default Depends on the CPU type	Í‚ÇíÐÏ¿ò¿ˆÆ˜ ¿èÂíÊ˜`Ù CPU ÄÔÉˆ¿ÙÚh Ì‰Tñ Ð"Ø ÈãÅ ¾f "Home" Ûp»RÎ_Ñ"ÀoÎpÂ Â Í‚Çí ÚhÌ‰»TÓŠÍnÇâÆ˜ 233 Mhz»RÇ€Á ßöÍ‚Çí Çâ»R¿z¿YÂé¿è flash.exe Í‚Çí¾ÂýÏ' Å»»T

Chipset Features à CPU Clock Frequency

CPU Clock Frequency 66.8 Mhz 68.5 Mhz 75.0 Mhz 83.3 Mhz	Í‚ÇíÙ ÐÏ¿èÂíÍñÅŠ¿•Úh (bus clock)»R¿òÅv¿ÅÇË¾h¾ŠÆ˜Í‚„ ÄÔ Klamath CPU Í¼Æ˜ ¿è66.8 Mhz»T¿YÅûÑ†ÄÔCPU ÍñÅŠ ¾ Ä|Í¼¾¼ÔãÆõÀa»RÃì¿Y×êÊëØ˜È'ÄÔ CPU Õ»Ã˜ Èë»T

Chipset Features à CPU Clock Ratio

CPU Clock Ratio 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	Intel Pentium II (Klamath) ÄÔ¾ÔÍ» (Èð¾ù) Õa¿•Í» (Bus) Úh Ì‰ÂÝ¾¼ÆõÀa»RÍ‚ÇíÙ ÐÏ¿z¿èÂíÅ ÃŠ Core/Bus ÄÔ¾ Âì»TÓŠ ÍnÇâÆ˜ 3.5x»T

AWARD BIOS

3.5 Power Management Setup

Power Management Setup ¿ß Ë'ÍñÅŠÂ¡Ì èÄÔÆóÓ„ÔøÌ'¿ńÉú»TÀƒÄXÀs¿UÙ Í ¾¾Ù Øö "Power Management Setup" ÐÏ¿ò»RÁj Ñ̀ÀsÙÝÓ ¾ŋßý¿öÀƒ¾ÏvÇË»X

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

 ┌─────────────────────────────────────────────────────────────────────────┐
 │ Power Management    : User Define    ** Reload Global Timer Events **     │
 │ PM Control by APM   : Yes            IRQ3[3-7,9-15],NMI   :  Enabled       │
 │ Video Off After     : Standby        Primary IDE 0       :  Enabled       │
 │                                      Primary IDE 1       :  Enabled       │
 │ Doze Mode           : Disabled       Secondary IDE 0     :  Enabled       │
 │ Standby Mode        : Disabled       Secondary IDE 1     :  Enabled       │
 │ Suspend Mode        : Disabled       Floppy Disk         :  Disabled      │
 │ HDD Power Down      : Disabled       Serial Port         :  Enabled       │
 │ Modem Wake Up       : Disabled       Parallel Port       :  Enabled       │
 │ Suspend Mode Option : PowerOn Suspend                                     │
 │ VGA Active Monitor  : Enabled                                            │
 │ Power Button Override : Enabled                                          │
 │ RTC Wake Up Timer   : Disabled                                          │
 │                                                                          │
 │                                     ┌────────────────────────────────────│
 │ ** Break Events From Suspend **     ESC: Quit        áâàß : Select Item   │
 │ IRQ 8 Clock Event   :  Disabled     F1 : Help        PU/PD/+/- : Modify   │
 │                                     F5 : Old Values  (Shift) F2 : Color   │
 │                                     F6 : Load Setup Defaults              │
 │                                     F7 : Load Turbo Defaults              │
 └─────────────────────────────────────────────────────────────────────────┘
```

Power Management à Power Management

Power Management	λÓÙ ÐÏ¿ß Ë'ÍñÅŠÆóÓ„ÔøÌ'ÄÔÀƒ ÐÏÊëÖà»TÀƒÄXÇ€Â È Æó
Max Saving	Ó„ÔøÌ'¿ńÉú»R×êË_ÊëÖàÇâÍnÆÊ Disable»TÀƒÄXÍn User
Mix Saving	Defined ¿ż¿YÀõÀ Ù ØöÆóÓ„ÔøÌ'ÄÔÊëÖàÇâ»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

PM Controlled by APM
Yes
No

ÀƒÄXÙ Øö "Max Saving"»RÎ_¿z¿Yß Â‡Ìè¾þÎÄÐæÐ¿Ó„Ñ×Ôø Ì' (APM) ¿nĚ︻R¿lË{ÆóÓ„ÔøÌ'¿nĚ︻TÂìÀƒ»XÊË¾ CPU ¾Ô Í»ÈãÉùÓSÁQ»T

Power Management à Video Off After

Video Off After
N/A
Doze
Standby
Suspend

ÀÓÙ ÐÏ¿zÍnÄŠßý¿öØÓÑ"ÀsÀ ÔòÆóÓ„Öì À»¾ƒÝ ÍÆÙÝÓ »T

Power Management à Doze Mode

Doze Mode
Disabled
1 Min
2 Min
4 Min
8 Min
12 Min
20 Min
30 Min
40 Min
1 Hour

ÀÓÙ ÐÏ¿zß Ë'ÍnÄŠÂ‡ÌèÐz¾{ÔèÉ%öìÀ»ÄÔÈãÐ»»TÀsÀÓÖìÀ» ¾ƒ»RCPU ÄÔÓSÁQÈãÉùÑ"ßöÔT»T¿ëÄ Â‡ÌèÆ ÀsÍ„Ó„ÄÆÔR ¾¾»RÀì¿YÊÔÎ Â ¿ À ÊäÁQÈã»RÍ½Ñ"¿ùÁj Å ÎpÂ ¿ÙËqÄÆÔR ¾ƒ»TÂ‡ÌèÆ Üá¿ëÔäÏ IRQ ÊeÒÓÂíÊÔÎ Æ»Êä»T

AWARD BIOS

Power Management à Standby Mode

Standby Mode
Disabled
1 Min
2 Min
4 Min
8 Min
12 Min
20 Min
30 Min
40 Min
1 Hour

ÀÓÙ ÐÏ¿ʑB Ë‘Í𠊁‡Ì èÐz¾[Ï¿Å÷Öì À»ÄÔÈ䪻»TÀsÀÓÓì À»
¾¼f»RÑ̈È̀Êä CPU ÄÔÓSÁQÈäÉùßöÔT»RǏ ŠÔêÖâ ÊÈ́ß‡Â Êä́ÁQ»R
ÙÝÓ Ý ÍÆÏ¿¿m̈ú»T¿ëÃ Â‡Ì èÆ Às𓄠Ó„ÄǼÔR¾¾»RÃì¿ÝÊÔÎ
Â ¿ À Êä́ÁQÈä»RÍ¼Ñ̈¿ùÁj Å ÎpÂ ¿ÙËqÄǼÔR¾¼f »TÂ‡Ì èÆ Üá
¿ëÔäÏ IRQ ÊèÓÂí ÊÔÎ Æ»Êä»T

Power Management à Suspend Mode

Suspend Mode
Disabled
1 Min
2 Min
4 Min
8 Min
12 Min
20 Min
30 Min
40 Min
1 Hour

ÀÓÙ ÐÏ¿ʑB Ë‘Í𠊁‡Ì èÐz¾[Öâ ÊÈ́Öì À»ÄÔÈ䪻»TÖâ ÊÈ́Öì À»
ÄÔÍ𠊁ÀÍ Power On Suspend Ã̀è Suspend to Hard Drive
Ï¿Öì À»»T

Power Management à HDD Power Down

HDD Power Down
Disabled
1 Min
.....
15 Min

Ñ Â‡Ì èÐz¾[ǼóÓ„ÄǼÔRÈä»RÀÓÙ ÐÏ¿ʑB Ë‘Å ÃŠ IDE ÏŠÔêÊË
¾¼ ÓSÁQÄÔÈäÐ»»T¿ÓÙ ÐḮÕ÷Ê‡Ài Âþ¿ÀÏ¿Å÷Öì À»Ã^ ÖâÊÈ́Öì À»
ÄÔÍ𠊁ÇâÀíÃŠ»T

AWARD BIOS

Power Management à Modem Wake Up

Modem Wake Up	Í'Ó] AOpen ÄÔÉdÈ ×ˆò ÍnÇ*p*»RÍ,Ð ¿UØ Ä`¿z¿YÀõÊäÊÕÎ
Enabled	ÖàØôØ ÄÔÊeÒÓ»RÂÝ¿2Öx¿ë ATX Soft Power ÀõÊäÐ"Ø »R
Disabled	Í,ÐÏ¿néúÅUÉ*q*ØRÀi ¿èÂíÖìÚÚÐáÉˆØ ÕaÏÄÙ Ø »T ÕaÐáÌè
	Green PC suspend mode ¾ÀaÄÔÆ »RÂ‡Ìè¿z¿YÉˆ¿ÙÝ Ø
	(ÁaÜp¾ À»Æ ÚáÆuÓ„Ñ×ÂëÚÍØÓÄÔÇÑÈÊÆ ÁpÊÊ¾ ÓSÜ*ɂ*T¿•ËÏ
	À»Ãè¾ÔÊÏÀ»ÖàØô¿u (AOpen MP56/F56) Í½¿z¿Y¾*p*ÎÃ
	modem ring-on ÄÔ¿néú»R¾Ó] ÁôÇæÅòÞÍ Ë'ØÂ¿zÉúËÞ¿è
	MP56/F56»RÀméÈ MP56/F56 àÍÉdÈ ÄÔÓ„ò ÍnÇ*f*¿z¿YÕa¿U
	Ø Ä`ÁÓÆ ÄÔÑ×Ê‡»RÑ â‡ÌèÝ Ø Èã»R ¾Õ÷Ç€À ¿èÝS¿•ÄÔÓ„
	Ñ×»T

Power Management à Suspend Mode Option

Suspend Modem Option	¿ÕÂ‡ÌèÍ¼Âë¾*f*ÀT¾XÔòsuspend Öì À»»RÂëË'Ê À ÆóÓ„ÔøÌ'
	¿néú»TÑ Â‡ÌèÐz¼[**Power On Suspend** ÆóÓ„Öì À»Èã»RÐá
PowerOn Suspend	ÌèÄô Green PC Ñ'BöÀÂÖâÈã¾¾¾ ÄÆÔR»RCPU ÈãÉúÊʾ ÓS
Suspend to Disk	Üú»RÃìÀÍÄÔÍnÍa¾*n*Í½*Ý* Í Æ»T¾¾Ó]Â‡ÌèÑˆÂ`Å Í„Ó,ÄÆÔR»R
	¿YÀ\ÖàØôØ »SÛ*p*×]»SÃèÑàÓÅÊÔÎ Â Æ»ÊãÈã»R¿z¿YÊ¾*h*ìÅ
	ÎpÂ ¿ÜËqÖìÀ»¾¾*p*T¿‡¿•»RÔäÏ IRQ ÄÔÆ»Êã¾*u*¿z¿Yß Â‡Ìè
	ÖâÊÊÖìÀ»Ä Ào¿ÜË*q*ÖìÀ»»T **Suspend to Disk** ¿z¿YÀsÖâÈã
	Ý Ø Åv»RÊ_Â‡ÌèÄÆÔR»RÊ`Øêß Ã^ÙÝÓ Ö%ÓÍÏ¿Ú‹À†ÀsÏŠÔê
	¾¾*p*RÑ Ó„Ñ×ÇÅÑ†Ð"ÈìÈã»RÂ‡ÌèÎ_Ñ"Ä ÀoÂ Ë'Ç ¿ ¾ÁÓÀÔ
	ÄÆÔR¾¾*p*TË'¿ÌÕ÷Âé¿èAOZVHDD ¾*x*¿èÏ'À»Âí Å` ÉuÏŠÔêÄß
	Ð»»T

Power Management à VGA Active Monitor

VGA Active Monitor	ÀÓÙ ÐÏ¿z*Ê*ÔÎ VGA ßý¿ö*Ø*ÓÀs*Æ*óÓ„ÄÆÔRÈãÄÔÊäÁÓ»T
Enabled	
Disabled	

AWARD BIOS

Power Management à Power Button Override

Power Button Override	Í‚Æ ACPI ¾¾ÄÔÍ h È ¾Á¾Q»TÑ Ù 0**Enabled** Èã»RÅv¾ ÇË
Enabled	Ä`¾h ÄŝSoft power switch ¿z¿Y¿èÂíËËÂ Â‡ÏèÐ"Ø »SÖâÊË
Disabled	(Suspend) ÃèÝ Ø »T ÀsÐ"Ø ÄÔÄÆÔR¾f »RÇj Å ¾ŝSwitch»R
	¿SÈäÐ»¾ðÃ 4 Æ »RÂ‡Ïèå\Ñ¸Þ¾ Suspend ÒìÀ»»WÇj Å ¾f
	ÄÔÈäÐ»Ðh Ó] 4 Æ »R Â‡ÏèÅ\Ñ¸Ý Ø »TÓŠÍnÄÔÄÆÔR¾f Æ
	Disabled»Rsoft power switch ¿ˆÉú¿èÂíÐ"Ý Ø »RÂdÀÍ
	Suspend»RÂì¿Y¾mÂdÀÍ 4 Æ ÞÛÂÔÇÇÂ »T

Power Management à RTC Wake Up Timer

RTC Wake Up Timer	RTC WakeUp Timer ¿z¿Yß Ë‘Å ÃŠ¾QÇíÉdÃŠÄÔ¾ ÎΈã
Enabled	Ð»»RÂ‡ÏèÑ¸ÀsÍ‚ÇíÈäÐ»ÀõÊäÐ"Ø »T Í‚Çí¾ ÎÛ /ÈäÐ»Æ Às "
Disabled	WakeUp Date (of Month)" ¾è "WakeUp Time
	(hh:mm:ss)" Ù ÐÏ¾¾Å ÃŠÄÔ»T

Power Management à WakeUp Date (of Month)

WakeUp Date (of Month)	Ê‡Ài "RTC WakeUp Timer" Ù ÐÏÂé¿è»R¿èÂíÅ ÃŠÂTÇí¾
0	¾¾ÄÔÆj ¾Q¾ë›TÂìÀ**15** Î_¿_Ä ÂTÇí¾ ÄÔÄÔî5 ÒÓ›RÍmÆÊ **0** Åy
1	¿_Ä ÂT¾Q¾ë»T
.....	
31	

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

WakeUp Time (hh:mm:ss)	Ê‡Ài "RTC WakeUp Timer" Ù ÐÏÂé¿è»R¿èÂíÅ ÃŠÀõÊäÐ"
hh:mm:ss	Ø ÄÔÈäÐ»»TÂþÈ À»ÆÈhh:mm:ss»R×êÅqÑ_Âþ¾¾¼fÈäÄÔÄ ¿ö
	¾ À»ÆÈ 1 Â 24»T

AWARD BIOS

Power Management à IRQ 8 Clock Event

IRQ 8 Clock Event	ÀÓÙ ÐÏ¿źÍnÄŠÂ‡Ïèàsƶó„Öì À»¾f»RÔäÏ IRQ8 (RTC) ÄÔ
Enabled	Æ»Êä»TOS2 Ñ'Ó IRQ8 (RTC)»ÔŠÎÛ¾Üp»RÀfÀXÍnÄŠRQ8
Disabled	ÄÔ¿ńú»RÀsOS2 ÁQÑ•Â‡Ïè¾f»R¿źúÏ]Ä|Ðz¾4Š¾ÍnÄŠÀ€ÄÔ
	Æóó„Öì À»¾¾»T

Power Management à IRQ [3-7,9-15],NMI

IRQ [3-7,9-15],NMI	Â‡ÏèÀsƶó„Öì À»Êä»R¿zÚá¿ëÀÓÙ ÐÏÊÕÎ IRQ Í„ò Ã^NMI
Enabled	¾¾ÜpÆ ÁpÀÏ¿ À Æ»Êä»TÈ_ÀÓÙ ÐÏÍńÊ Enabled»RÀfÈ„Í„
Disabled	ò ¾¾ÊÕÎ Â ¿ À Æ»Êä»RÁj Ñ'Í Ù Â‡Ïè»RÂÝß Â‡Ïèà Àø¿Ù
	ËqÖì À»»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	Í„ÂáÙ ÐÏ¿źÍnÄŠÃèÂ È ÍnÍàÊÕÎ ¿ńú»TÑ Â‡Ïèàs IDE Ín
Enabled	Íà»RÍ€ÔêØ »RÂÝÀTÊ »RÁáÀTÊ Àsƶó„ÄÆÔR¾fÄÔÆ»ÊäË»Áè»T
Disabled	ÀfÀXÍ¸ÂáÍnÍàÍbÊÕÎ Â ÀÍBÀ⁄ÖxÃè I/O ÐáÙ ÄÔÊäÁQ»RÍ_Ñ"
	Ë„ÖâÊËÖì À»Ä Àø¿ÙËqÖì À»»T

AWARD BIOS

3.6 PNP/PCI Configuration Setup

PNP/PCI Configuration Setup ¿zß Ë'ÍnÃŠÂ‡Îè¾ÄÔ ISA Ã^ PCI Ínĺà»TÀƒÄXÀs¿U Ù Í ¾ÄÙ Øö "PNP/PCI Configuration Setup" ÐÏ¿ò»RÁj ÑªsÜÝÓ ¾ĥßý¿öÀƒ¾ÏvÇË»X

```
                    ROM PCI/ISA BIOS (XXXXXXXX)
                    PNP/PCI CONFIGURATION SETUP
                       AWARD SOFTWARE, INC.

┌──────────────────────────────────┬─────────────────────────────────┐
│ PnP OS Installed      :  No       │ PCI IDE IRQ Map To    :  PCI-Auto│
│ Resources Controlled By :  Manual │ Primary IDE INT#      :  A       │
│ Reset Configuration Data :  Disabled│ Secondary IDE INT#    :  B     │
│                                   │                                 │
│ IRQ 3 assigned to    :  Legacy ISA│                                 │
│ IRQ 4 assigned to    :  Legacy ISA│ Used MEM base addr    :  N/A     │
│ IRQ 5 assigned to    :  PCI/ISA PnP│ Used MEM Length      :  8K      │
│ IRQ 7 assigned to    :  PCI/ISA PnP│                                │
│ IRQ 9 assigned to    :  PCI/ISA PnP│                                │
│ IRQ 10 assigned to   :  PCI/ISA PnP│                                │
│ IRQ 11 assigned to   :  PCI/ISA PnP│                                │
│ IRQ 12 assigned to   :  PCI/ISA PnP│                                │
│ IRQ 14 assigned to   :  PCI/ISA PnP│                                │
│ IRQ 15 assigned to   :  PCI/ISA PnP│                                │
│ DMA 0 assigned to    :  PCI/ISA PnP│                                │
│                                   ├─────────────────────────────────┤
│ DMA 1 assigned to    :  PCI/ISA PnP│ ESC: Quit     áâàß   : Select Item│
│ DMA 3 assigned to    :  PCI/ISA PnP│ F1 : Help     PU/PD/+/- : Modify│
│ DMA 5 assigned to    :  PCI/ISA PnP│ F5 : Old Values  (Shift) F2 : Color│
│ DMA 6 assigned to    :  PCI/ISA PnP│ F6 : Load Setup Defaults         │
│ DMA 7 assigned to    :  PCI/ISA PnP│ F7 : Load Turbo Defaults         │
└──────────────────────────────────┴─────────────────────────────────┘
```

PNP/PCI Configuration à PnP OS Installed

PnP OS Installed	Í„ËɋRÂ‡ÎèÀsÊ À POST Èã»RÑ'Ë_ÌßÀi ÚÝÎ»Áj ¿(PnP) ÄÔ
Yes	ÍnÍàÍ„ÄØ BIOS»TÀƒÄXË'Åé¿èÂýÀÍ PnP ¿néúÄÔÁQÑ•Â‡Îè
No	(Àƒ Windows 95)»RÎ_¿z¿YË_Í,ÇíÙ ÐÏÍnĥÝes»RBIOS Î_ Ñ'ÍnÃŠÚYÎ»Áj ¿èÄÔ¿néúÂí Ëì ÊäÍnÍà»RÀƒ VGA/IDE Ãè SCSI Ï¿Üi ¿c¿u»T

AWARD BIOS

PNP/PCI Configuration à Resources Controlled By

Resources Controlled by	Ë_ÀÓÙ ÐÏÍmÆÊ Manual»R¿zß Âé¿èÄæ4Ê ISA Ã^ PCI ÍnÍà
Auto	¾ÚÁ`Å ÃŠÃì Õ÷ÄÔIRQ Ã^ DAM»TÀƒÄXÍmÆÊ Auto»RÎ_ÑËì
Manual	ÊäÀõÊäÍmÄŠ¿mÉú»T

PNP/PCI Configuration à Reset Configuration Data

Reset Configuration Data	ÀƒÄXÃìÅ ÃŠÄÔIRQ ÃèÂ‡ÌèÇÅÑ†ÆÔtÅûÏ,¿çÆõ×ÞÄÔË»Áè»R
Enabled	Î_¿Ë_ÀÓÙ ÐÏÍmÆÊ Enabled»Rß Â‡ÌèÇÅÑ†ÆÔtÂÝÅ ÃŠÑ†
Disabled	ÄÔ 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)

IRQ 3	ÀƒÄXË‘ÃìÀŠÒàÄÔISA ¿uÂdÀÍ PnP ¿mÉú»RÎ_Õ÷Ç€Å ÃŠIRQ
Legacy ISA	Âí¾þÎÃ¿ÀÄÔ¿mÉú»TÍ,ÂáÙ ÐÏ¿zß Ë‘ÂæÁáÅ ÃŠ IRQ ÏÓ
PCI/ISA PnP	Legacy ISA ¿uÃ^ PCI/ISA PnP ¿uÂé¿è»TÑ Ë‘Å ÃŠÆj ¾Q
	IRQ ÆÊ Legacy ISA Èã, Â‡ÌèÑÍ„ÄØ PnP BIOS Ë_ÃìÍäÔ
	IRQ Å` ÉuÏÓ¾ŠÀŠÒàÄÔ ISA ¿uÂé¿è»TÊëÖàÓŠ ÍnÇâÆÊ
	PCI/ISA PnP»R×êÄqÑ_ÀÍÂáPCI ¿u (Ò ÜÜÀÆÄÔPCI¿uÊ½•)
	ÂÝ¾¼Õ÷Ç€Âé¿è IRQ»RÎ_¿Å` ÉuÏÓISA ¿uÂé¿è»T

AWARD BIOS

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	ÀƒÄXË'ÃìÀŠÒàÄÔISA ¿uÂdÀÍ PnP ¿nÉú»RÎ_¿ÌÐÑÅ ÃŠDMA Í„ÓU
Legacy ISA	Âí ¾þÎÃ¿ÀÄÔ¿nÉú»TÍ, ÂáÙ ÐÏ¿zß Ë'ÂæÁáÅ ÃŠ DMA Í„ÓUÏÓ
PCI/ISA PnP	Legacy ISA ¿uÃ^ PCI/ISA PnP ¿uÂé¿è»TÑ Ë'Å ÃŠÆj ¾QDMA Í„ ÓUÆÊLegacy ISA Èã»RÂ‡ÏèÑ'Í„ÄØ PnP BIOS Ë_ÀÓDMA Í„ÓUÅ` ÉuÏÓÃìÀŠÒàÄÔISA ¿uÂé¿è»TÊëÖàÓŠÍnÇâÆÊ PCI/ISA PnP»R×êÄqÑ_ÀÍÂáPCI ¿uÂÝ¾Õ÷Ç€Âé¿è DMA Í„ÓU»RÎ_¿zÅ` ÉuÏÓISA ¿uÂé¿è»T

PNP/PCI Configuration à PCI IDE IRQ Map To

PCI IDE IRQ Map To	ÀÍ¾QÂáÒ ÜÜÄÔPCI IDE Üi ¿c¿u¾¾þÎÃPnP ¿nÉú»TÍ, Âá¿u
ISA	Õ÷Ç€ÀŠÒàÀsÅ ÃŠÄÔÜi ¿cÖë¾»R¾ Éúß BIOS ÇÅÑ†ÆÎÔt
PCI-Slot1	PnP Ò Ñ×»TÀÓ¿nÉú¾ÓÍnÈ'Ù Øö PCI Î»ÖëÏÓ PCI IDE Üi ¿c
PCI-Slot2	¿uÂé¿è»TÍnÃŠ Auto Ñ"ÀòÈäÆÎÔt¾ŠÀŠÒàÄÔ PCI -IDE I Üi ¿c
PCI-Slot3	¿u»T
PCI-Slot4	
PCI-Auto	

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

Primary IDE INT#	Í,ÂüÇíÙ ÐÏ¿ÌÐÑꇠ"PCI IDE IRQ Map To" ÐÏ¿òÂé¿è»TË'
A	¿z¿YÅ ÃŠ IDE ¾¾ÜpÏÓ PCI IDE Üi ¿c¿uÂÔ primary Ã^
B	secondary Í„ÓUÂé¿è»TÂT¾QÇPCI Î»ÖëÏ¼ÀÍ¿Çí PCI ¾¾
C	Üp¿zÍbÅ ÃŠ »TË'¿ÌÐÑ¿ ÍnÃŠ "PCI IDE IRQ Map To" Ãì
D	Âé¿èÄÔÎ»Öë»RÀRÂæÀÓÅ ÃŠ°PCI¾¾ÜpÏÓÃìÀŠÒàÄÔÜi ¿c¿uÂé ¿è»T

AWARD BIOS

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
N/A
C800
CC00
D000
D400
D800
DC00

ÀÓÙ ÐÏ¿ÌÐÑÊ‡Ài "Used MEM Length" ÐÏ¿òÂé¿è»TÀƒÄX Ë'ÃìÀŠÒàÄÔ ISA ¿uÂdÀÍ PnP ¿ńú»RÎ_¿ÌÐÑÅ ÃŠÊ` Øêß ÈvÐ„Âí¾þÎÃ¿ÀÄÔ¿ńú»RÀíÀÓÙ ÐÏÅy¿zÅ ÃŠÍbÅ` ÉuÄÔÊ` Øêß ÄßÐ»Ð"Ã}À Á"»T

PNP/PCI Configuration à Used MEM Length

Used MEM Length
8K
16K
32K
64K

ÀƒÄXË'ÃìÀŠÒàÄÔISA ¿uÂdÀÍ PnP ¿ńú»RÎ_¿ÌÐÑÅ ÃŠÊ` Øêß ÈvÐ„Âí¾þÎÃ¿ÀÄÔ¿ńú»ŤÓÙ ÐÏ¿zÍńÃŠÃìÕ÷Ç€Ê` Øêß ÈvÐ„»RÂÝÍ„ÄØ PnP BIOS Ë_Ê` Øêß ÄßÐ»Å` ÉuÏÓÃìÀŠÒà ISA ¿uÂé¿è»T

AWARD BIOS

3.7   Load Setup Defaults

ÀÓÙ ÐÏ¿Ë„ BIOS ROM ¾¾Ò ¾ÍæÀi ØRÄÔÍñÅŠÇâ»T¾QÉ Âé¿èÄæ×êÁb¿èÀÓÙ ÐÏÒ ¾[ÓŠ ÍñÇâ»RÍ‚ÂáÓŠÍñÇâÑ'Ö%ßeÃìÀÍÄÔ Setup ÐÏ¿ò»RÊ½¼WÖêÑáÄÔ CMOS ÍñÅŠ»TÀƒÄXË' ÄÔÂ‡ÏèÀŠÒàÒ ÊÀÈvÐ„ÄÔÊˆØêß »RÀíÜi ¿cÖë¾ñÍ»Ô»Üi ¿c¿u»RÁôÇæÅòÞÍË'Âé¿èÀÓÐÏÍn ÃŠ»T

ÀÓÙ ÐÏÂÝ¾¼Â¼Ë‚Æ ÍæÅŠ¿ ÄÔÂ‡ÏèÍñÅŠ»RÃì¿YÇj Â‡ÏèÏ‚¿ç¾¼¼ÇÃŠÄÔÄÆÄƒ»RË'¿z¿Y¿è ¾¼iÊäÄÔ¾ À»Às "BIOS Features Setup" Ã^ "Chipset Features Setup" Ù ÐÏ¾¼»RÍñÅŠ Ò ÔTÃ^Ò ÝÇÃŠÄÔÍñÅŠ»T

3.8   Load Turbo Defaults

ÀÓÙ ÐÏ¿zÒ ¾[À†Ã   BIOS ROM ¾¾Ò ÊÄÈÞÌ%ÄÔÓŠÍñÇâ»TÍ‚ÂáÒ ¾[ÄÔÓŠÍñÇâÑ'Ö%ßeÃì ÀÍÄÔ Setup ÐÏ¿ò»RÊ½¼WÖêÑáÄÔ CMOS ÍñÅŠ¿Y¿•»TÊÄÈÞÌ%ÄÔÍñÅŠÇâÓ Â‡ÏèÀíÂ¿¿z Éú¾¼¼Æ` ÍæÂèÄÔÍñÅŠÇâ»RÀƒÄXË'ÄÔÊˆØêß ÈvÐ„¾¼¾¼»R¾ÂÄ̀ÀÍÀŠÒàÅöÀyÜi ¿c¿u»RÍ̀_¿z ¿YÀìÖ'ÀÓÐÏÍñÅŠ»T

Ë'¾ŋ¿z¿Y¿è¾¼iÊäÄÔ¾ À»Às "BIOS Features Setup" Ã^ "Chipset Features Setup" Ù ÐÏ¾¼ÍñÅŠÊëÖàÇâ»R3 Â‡ÏèÚ Ë‚Á À€ÄÔÊ À ÈÞÌ%T¾¼Ó]Ë'Ç€¿ ÛRÒëÃìÀÍÄÔÙ ÐÏ¿ñú»R Àm̀ÊÄ͇ÍñÅŠÇâÂæÍÓ¾ Ìï㩈ÚÍ¿è×uÍ ¾¼Àa»R¿z̃½ÊÄ 3% Â 10% ÄÔ À ÈÞÌ%T

AWARD BIOS

3.9 Integrated Peripherals

ÀƒÄXÀs¿UÙ Í ¾¼Ù Øö "Integrated Peripherals" ÐÏ¿ò»RÁj Ñ"ÀsÙÝÓ ¾ⁿßý¿öÀƒ¾ƒÏv
ÇË»X

```
                    ROM PCI/ISA BIOS (XXXXXXXX)
                      INTEGRATED PERIPHERALS
                      AWARD SOFTWARE, INC.

  ┌─────────────────────────────────────┬──────────────────────────────────┐
  │ IDE HDD Block Mode:      : Enabled   │ Onboard IR Controller    : Enabled│
  │ IDE Primary Master PIO   : Auto      │                                  │
  │ IDE Primary Slave PIO    : Auto      │                                  │
  │ IDE Secondary Master PIO : Auto      │                                  │
  │ IDE Secondary Slave PIO  : Auto      │                                  │
  │ IDE Primary Master UDMA  : Auto      │                                  │
  │ IDE Primary Slave UDMA   : Auto      │                                  │
  │ IDE Secondary Master UDMA: Auto      │                                  │
  │ IDE Secondary Slave UDMA : Auto      │                                  │
  │ On-Chip Primary   PCI-IDE: Enabled   │                                  │
  │ On-Chip Secondary PCI-IDE: Enabled   │                                  │
  │ USB Keyboard Support     : Disabled  │                                  │
  │ USB IRQ Released         : No        │                                  │
  │ Onboard FDC Controller   : Enabled   ├──────────────────────────────────┤
  │ Onboard Serial Port 1    : AUTO      │ ESC: Quit       áâàß   : Select Item│
  │ Onboard Serial Port 2    : AUTO      │ F1 : Help    PU/PD/+/- : Modify   │
  │ Onboard Parallel Port    : 378/IRQ7  │ F5 : Old Values  (Shift) F2 : Color│
  │ Parallel Port Mode       : SPP       │ F6 : Load Setup Defaults          │
  │                                      │ F7 : Load Turbo Defaults          │
  └─────────────────────────────────────┴──────────────────────────────────┘
```

Integrated Peripherals à **IDE HDD Block Mode**

IDE HDD Block Mode	ÀÓÐÏ¿ò¿zÍnÄŠÏŠÔê¿YÀyÔéÊé¾ À»ÐáÊvÒ Èà»RÂÝ¿zÈ Ê¼ÂT
Enabled	Çí ÔéÔêÄÔ¾¼ÜpÍSÌˋÈäÐ»»T¾¼Í»¿ ÄÔ IDE ÏŠÔêÍ½z¾ƒpÎÄÀÓ
Disabled	ÐÏ¿nÉú»RÊ½¾¼WÒ ÀÇËÚ¿i ÄÔÏŠÔê¿zÉúÂdÀÍÍnÇƒÀÓÔòÐáÙ Öì
	À»»T

AWARD BIOS

Integrated Peripherals à **IDE Primary Master PIO**
Integrated Peripherals à **IDE Primary Slave PIO**
Integrated Peripherals à **IDE Secondary Master PIO**
Integrated Peripherals à **IDE Secondary Slave PIO**

IDE Primary Master PIO	ÀÓÙ ÐÏ¿Í nÄŠÀŠÒàÀs IDE Í†ÏØÕ¾h ÄÔ IDE ÏŠÔê¿YÀ Ôò
Auto	PIO ÖìÀ»ÂíÐáÙ Ò Èà»TPIO ÖìÀ»¿Å ÃŠÏŠÔêÄÔÒ ÈàÐáÙ
Mode 1	Í‡Ì‰RÂìÀƒ mode 0 ÄÔÒ ÈàÐáÙ Ì‰ÆÊ 3.3MB/s»Rmode 1 ÆÊ
Mode 2	5.2MB/s»Rmode 2 ÆÊ 8.3MB/s»Rmode 3 ÆÊ 11.1MB/s Àí
Mode 3	mode 4 ÆÊ 16.6MB/s»TÊëÖàÓŠÍnÇàÆÊ Auto »RÀƒÄÀÓÍ nÄŠ
Mode 4	Ñ^ÂéÏŠÔê¾¼¥Ç»R¿¿YÈ_ÐáÙ Ì‰¿Y¾ìÊä¾ À»ÇÅÑ†×ïØý»T

ÄqÑ̲_: ×êË_Ë' ÄÔÌÞ¾Q¿‹ IDE ÏŠÔêÍ†ÏÀs Primary IDE ÄÔ master Í„ÓU¾h»T

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**

IDE Primary Master UDMA	ÀƒÄÀŠÒàÀsIDE Í†ÏØÕ¾h ÄÔIDE ÏŠÔêÀÍ¾þÎÃ UDMA Öì
Auto	À»R¿¿Ë_ÊëÖàÍ nÆÊ Auto»R¿YÈìÊäUltra DMA/33 ÊÀ͇Ðá
Disabled	Ù ÖìÀ»»T

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

On-Chip Primary PCI IDE	ÀÓÙ ÐÏ¿ÍnÄŠÃèÂ È Í†ÏÀs primary IDE Í†ÏØÕ¾h ÄÔDE
Enabled	ÍnÍà»T
Disabled	

Integrated Peripherals à USB Legacy Support

USB Legacy Support
Enabled
Disabled

ÀÓÙ ÐÏ¿zÍnÃŠÃèÂ È USB Ûþ×]ÄÔßi ÊäÏ'À»»TÀƒÄXÑbÇ€Âé ¿è USB Ûþ×]»R¾dÂdÀÍ ØRÀi ÄÔßi ÊäÏ'À»»R¿zË_ÊëÖàÍnÆÊ Enabled»TÀÓÛþ×]ßi ÊäÏ'À»¾ÔÂòÀsBIOS ¾Ô»R¿zÖ̀ÚÐáÌè Ûþ×]Ãc¿`»RÂÝ¿SÀsÐ"Ø Ê À POST Ï'ÁáÈäÈ̀Êä USB Ûþ ×]¿nÉú»TÊëÖàÓŠÍnÇâÆÊ Disabled»T

ÄqÑ_: ×ê¾⁄₄Ç€ÀaÈãÂé¿è USB ÍnÍàÃ^ USB ÐáÌèÛþ ×]»TÀƒÄXÁQь•Â‡Ìè¾ŠÀŠ0àUSBßi ÊäÏ'À»»R×êÂ È "USB Legacy Support" ¿nÉú»T

Integrated Peripherals à USB IRQ Released

USB IRQ Released
Yes
No

USB ÍnÍàÄÔ INTD# Õa PCI slot4 ÆöÀa»TÀƒÄXÀsslot4 ¾⁄₄hÀŠ0àPCI ¿u»RÂÝÝÇ€Âé¿èINTD# Èã»R×êË_ÊëÖàÍnÆÊYes»R Áj Ñ'Â È USB ÍnÍàÃìÀ ¿èÄÔ INTD# (¾⁄₄ÜpÀ Á")»T

Note: Normally, PCI VGA does not need PCI interrupt, you may put PCI VGA on slot4.

Integrated Peripherals à Onboard FDC Controller

Onboard FDC Controller
Enabled
Disabled

ÀÓÙ ÐÏ¿zÍnÃŠÍ€À»ÔéÔêØ ÄÔ¿nÉú»TÀƒÄXÑbÂé¿è¿•ÈÏÀ»ÄÔ ÈËÂ ¿u »R×ê Ë_Ù ÐÏ ÍnÆÊDisabled »T Êë Öà ÓŠ ÍnÇâ ÆÊ Enabled»R¿zß ÔéÔêØ ¿ÙÊqÒSÁQ»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 ÐÏ¿zÅ ÃŠ¿UØ Ä`¾ÄÔÀ ÀTÍ†ËÏØÓÀ Á"Ã^¾ÜÏp»TÓŠÍn Çâ₢Ê **Auto**»T

ÄqÑ_: ÀƒÄXË'ÀÍÂé¿èÔ Ò ¿u»R×ê×eÃŠ¾ÜÏpÀ Á"Õa Âþ¿ÀÄÔÍnÍàÂŸ¾₢₢₅×Þ»T

Integrated Peripherals à Onboard IR Controller

Onboard IR Controller
Enabled
Disabled

Ëì¿èÃèÂ È ¾ÔÀòÄÔÆ ¿•×ˆËËÂ ØÓ»T

Integrated Peripherals à IR Address Selection

IR Address Selection
2E0H
2E8H
2F8H
3E0H
3E8H
3F8H

Í,ÇíÙ ÐÏ¿èÂíÙ Øö IR ËËÂ ØÓÄÔÀ Á"»T

Integrated Peripherals à IR Mode

IR Mode	
IR Mode ASKIR IrDA	ÀÓÙ ÐÏ¿ż¿YÅ ÃŠÀ ÀTÍ†ËÏÊ (serial port2) ÄÔÖìÀ»»TIrDA ÄÔÖêÑá¿nÆR HPSIR õa FIR»RWin95 ¾¾ÄÔßi ÊäÏ' À»Ñ†ÈôØô ¾¼ÀaÄÔÍÓ¾ »RÀõÊä¾ÛÎÀÂ ¿Ù×eÄÔÖìÀ»»T

- **ASKIR** – ÀƒÄXÀsÓ„Ò½ÄÔ via IrDA Í†ËÏØÓ¾h ¾ŠÀŠÒà¾WÆ ¿•×ˆËÏ ÀÆØÓ (IrDA) »RÎ_¿ż¿YÂé¿èÀÓÙ ÐÏ»TÍ,ÔòÍnÄŠ¿ÐáÊvÀ ÀTÊeÈÁÓW56K ÄzÉd»T

- **HPSIR** – ÀƒÄXÀsÓ„Ò½ÄÔ via IrDA Í†ËÏØÓ¾h ¾ŠÀŠÒà¾WÆ ¿•×ˆËÏ ÀÆØÓ (IrDA) »RÎ_¿ż¿YÂé¿èÀÓÙ ÐÏ»TÍ,ÔòÍnÄŠ¿ÐáÊvÀ ÀTÊeÈÁÓW115K ÄzÉd»T

- **FIR** – ÀƒÄXÀsÓ„Ò½ÄÔ via IrDA Í†ËÏØÓ¾h ¾ŠÀŠÒà¾WÆ ¿•×ˆËÏÀÆØÓ(IrDA) »R Î_¿ż¿YÂé¿èÀÓÙ ÐÏ»TÍ,ÔòÍnÄŠ¿ÐáÊvÀ ÀTÊeÈÁÓW 4M ÄzÉd»T

Integrated Peripherals à IR IRQ Selection

IR IRQ Selection	
IR IRQ Selection 3 4 10 11	Í,ÇíÙ ÐÏ¿ż¿YÅ ÃŠ IR ÐáÙ Ê ÄÔ IRQ»T

ÄqÑ_: ÀƒÄXË'ÀÍÂé¿èÔ Ò ¿u»R×ê×eÄŠ IRQ ÂdÀÍÆö ×Þ»T

AWARD BIOS

Integrated Peripherals à FIR Mode Use DMA

FIR Mode Use DMA
Disabled
0
1
3

Í‚ÇíÙ ÐÏ¿ӟҮÅ ÃŠ Fast IR ÐáÙ Ê ÄÔ DMA Í„ÓU»T

ÄqÑ_: ÀƒÄXË' ÀÍÂé¿èÇÏÈÞ¿u»R×ê×eÃŠ IRQ ÂdÀÍ Æŏ ×Þ»T

Integrated Peripherals à Onboard Parallel Port

Onboard Parallel Port
3BC/IRQ7
378/IRQ7
278/IRQ7
Disabled

Í‚Çíٍ ÐÏ¿ӟҮ ÝËËÂ ¾ÔÅò¿ÇÀ Ê ÄÔÀ Á"Õa¾¼Üp»T

ÄqÑ_: ÀƒÄXË' ÀÍÂé¿èÂý¿ÇÀ Ê ÄÔ I/O ¿u»R×ê×eÃŠÂþ À Á"Õa IRQ ÂdÀÍ Æŏ×Þ»T

Integrated Peripherals à Parallel Port Mode

Parallel Port Mode
SPP
EPP
ECP
ECP + EPP

ÀÓÐÏ¿ò¿Æ Ë'Å ÃŠÂÝÀTÊ ¿YÀ ÔòÓøøÁQÕìÀ»ÂíÐáÙ Ò Èà»T ÊëÕàÓŠÍnÇâÆÊ Normal , ¾nÎ_Æ SPP (Stand Parallel Port) Õ쏏À»ÂRÆÊ IBM AT Ã^ PS/2 ÆõÈvÕìÀ»ÂR¿ӟÍñÂÝÀTÊ ÀsÍ Àg՝À»¾Æ¿Y¿ÙÉq̇ÅñØøÁQ»Æ EPP (Enhanced Parallel Port) Õ쏏À»ÂR¾ÓÍñÂÝÀTÊ ÀsÜ Àg՝À»¾Æ¿Y Íæ¾{̇ÅñØøÁQ»T ECP (Extended Parallel Port) Õ쏏À»ÂR¾ ÍæÊÄ̇ÅñÁ ÁðÄÔÜ ÀgÂÝÀTÊ ØøÁQ»RÆ ¿ÐMA Ã^ RLE (Run Length Encoded) Ú¼Ûj Ã^ ÒëÚ¼Ûj ÄÔ¾ À»ÂíÐáÙ Ò Èà»T

AWARD BIOS

Integrated Peripherals à ECP Mode Use DMA

ECP Mode Use DMA
3
1

ÀÓÙ ÐÏ¿ß Ë'Å ÃŠ ECP ÖìÀ»ÄÔÂÝÀTÊ ÃìÂé¿èÄÔDMA Í„ÓU»TÊëÖàÓŠÍ₥ÇâÆÊ3»T

3.10 Password Setting

Ë\×i Í₥ÃŠ¿zÛñÁ\¿]¾Y¿ÖÒxËÜß‰SÀíØïÀõÂé¿èË'ÄÔÓ„Ò½»TÀƒÄXÍ₥ÃŠÀ€Ë\×i »RÂ‡ÌèÑ̃ÀsÂTÀÒÐ"Ø ÃèÐz¾[BIOS¾«¿èÏ'À»Èã»R¿i Ì'¾QÇíÎ½öÌßÒÓ»RÇ€ÂUË'Ù ¾{¿Ù×eÄÔË\×i »T

Í₥ÃŠË\×i »X

1. ÀsÎ½öÌßÒÓ¾ƒ»RÛþ¾[Í₥Ày8 ÇíÀ.¾ÒÄÔË\×i »RË'ÀìÛþ¾[ÄÔÀ.¾ÒÀsÙÝÓ ¾n¿ˆÑ̃¿i Ì'ÆaÒÓ»T

2. Ûþ¾[Ë\×i Åû ×êÅ Enter Ûþ»T

3. ËÏÏõ¾dÑ̃¿i Ì'Î½öÌßÒÓ»R×êRÛþ¾[¾QÀÒÊË\×i »R¿Y×eÕ'Ë\×i ÄÔ¿Ù×eÃä»Ênter Ûþ»RÁj Ñ̃Ä×ËÏÀoÂ ¿UÏvÇË»T

ÀƒÄXÇ€Â È ¾%Í₥ÃŠÄÔË\×i »R×êÀs¿i Ì'Ù ¾{Ë\×i ÄÔÎ½öÌßÒÓÅû»RÄ×ËÏÆÊnter Ûþ»RÏvÇ˾n₥Î_Ñ̃¿i Ì'¾QÇíÊeÊÄÁÂÐUË'Ë\×i ¾ŠÍbÂ È »T

3.11 IDE HDD Auto Detection

ÀÓ¿₥Éú¿z¿YÀõÊäÊÕÎ IDE ÏŠÔêÄÔÂÆ₀R»RÂÝË_ÊÕÎ Â ÄÔÊëÖàÇâÐáÂ "Standard CMOS Setup" ÄÔ "Hard Disk" Ù ÐÏ¾⁄»TÀÍÂá IDE ÏŠÔê¿z¾þÎÄÀyÌïÄÔÊëÖàÍ₥ÃŠ»RÀƒÄXË'ÄÔÏŠÔê¾⁄ØR¿èÍ,ÂáÀõÊäÊÕÎ Â ÄÔÊëÖàÇâ»R×êÙ N ¾⁄Ç€Âé¿è¿ÀÇæ»RÂÝÐz¾["Standard CMOS Setup" Ù ÐÏ¾⁄Ûþ¾[¿Ù×eÄÔÊëÖàÇâ»T

3.12 Save & Exit Setup

ÀÓÙ ÐÏÑ̃ÀsË'Ù Ð" Setup ¾«¿èÏ'À»Åv»RÀõÊäÚ‹À†ÃìÀÍÄÔ CMOS Çâ»T

AWARD BIOS

3.13 Load EEPROM Default

Ê½¾W"Load Setup Default" Õa "Load Turbo Default" ¾Á¿•»RË'¾¬¿YË_Àõ¾ÄÔÍ nÃŠ Çâ↠¾ EEPROM ¾¾»RÂÝÁb¿èÀÓÙ ÐÏÇÅÑ†Ò ¾ »T

3.14 Save EEPROM Default

ÀÓÙ ÐÏ¿zË_Ë'Àõ¾ÄÔÍ nÃŠÇâↂ EEPROM ¾¾»R¾ ÅûÇj CMOS Ò ÈàÙ ¿¼ÀèË'ÁëËÖ À ƒÀ Ç ¿ Í nÃŠÈã»R¿zÜá¿ë¾ hÇ'ÄÔ "Load EEPROM DEFAULT" ÇÅÑ†Ò ¾ »T

3.15 Exit without Saving

Ü Ð" Setup ¾¿èÏ'À»»RÀ ¾Ñ'Ú‹À†Á Á Ó]ÄÔ CMOS Çâ»TÀƒÄXË'Ç€Ú‹À†Ñ†ÄÔÍ nÃŠ Çâ»R×ê¾ Ç€Áé¿èÀÓÙ ÐÏ»T

3.16 NCR SCSI BIOS and Drivers

NCR 53C810 SCSI BIOS ¾QÖáËø€ÀsÆõÀaÄÔÁ ðÊ'Ê` ØêßˆÎÓ¾ ¾»RÑ ÀÂÂ‡Ï è BIOS Âé¿è»TÇ€Áé¿èÀ` ¾ hÄÑ NCR BIOS»RË'¿ÌÐÑ¿ Às ‡Ï è¾R\Š0à¾Q¾NCR 53C810 SCSI ËËÂ ¿u»T

Ãì ÀÍÀŠÒàÂ Â‡Ï è¾ÄÔ SCSI Í nÍà»RÍ ½Æ¯ Õ÷Ç€Í€ß ßi Êä Ï'À»»TNCR SCSI BIOS ¿ Ä× ËÏ Às DOS ¾ f ¾pÎÃ SCSI ÏŠÀ»Ôé Ôê Ø »RWindows ¾è OS/2»T¾¬¿z¿YÁb¿è NCR 53C810 SCSI ËËÂ ¿uÄì Ä ÄÔÍ€À»Ôé Ôê Ø ßi Êä Ï'À»»R¿YDOS È À»¾è SCO UNIX È À»ÂíÂé¿èÍ€À»Ôé Ôê Ø »TDOS È À»ÄÔ ßi Êä Ï'À»¾ÁÃ SCSI Í nÍà»RÆ ¿z¿Y¿è Às DOS»R Windows NT»R Novell NetWare ¾è OS/2»TÁí SCO UNIX È À»ÄÔ ßi Êä Ï'À»¾ÁÃ SCSI Í nÍà»R¿z¿è Ã SCO UNIX»TÍ ‚ Âáßi Êä Ï'À»¾ ¿ëÄ×ËÏ BIOS Ãì ¾pÎÄÔ ÒÈÐÉúÛóÊÄ»T

Ç€Áé¿èßi Êä Ï'À»»RË'¿ÌÐÑ€_Í ‚Âá Ï'À»ÀŠÒàÂ Â‡Ï è ÏŠÀ»Ôé Ôê Ø ¾¾»RÂÝ¿SË_¾Á¿lÂ Ë' ÄÔÂ‡Ï è Í nÃŠÚã¾¾»TÀöÃ Ò ñ Ì í ÀŠÒàâ Ä|»R×êÆ÷Í ‚Âáßi Êä Ï'À»¾Ãì Ä ÄÔ README Úä Èñ ¾¾ÄÔÕ»T

AWARD BIOS

3.17 BIOS Flash Utility

¿YÃÓÄÔ¿UØ Ä` Í¼Æ ËBIOS Ã Às¾QÒòỐóÆ̂EPROM ÄÔÊ` Øêß ¾¼RÑ Õ÷Ç€Á Ñ†BIOS ÄÔÈãÇî»R¿ÌÐÑÂé¿èÂ EPROM Ù_Ù Ǿó»RÃì¿Y¾QÉ Âé¿èÄæÂÅŸ̈]Ä|ÀõÀ Á ÑBIOS»T Àí́Ñ†¾Q¿_ÄÔ¿UØ Ä` ¾ŠÍ%ô¿Á ¿Flash ROM Âí Ú‹À† BIOS»RÂþÚ^ÛZ̈Ã Âé¿èÄæ¿^ÇÆ Í‘Ó]¾ÂýÏ’À»»RÅ\¿À̀õÀ Á Ñ†Ñ†ÄÃÄÔ BIOS»RÅUÈ́q¾ Å\»T

Á Ñ† BIOS ÄÔ¿ÄÔÀsÃ Î¼ÂëÑ†ÄÔ¿ń̄́ú»RÃ̀è¾pÎ̀Ã¾QÂá¿ÅÇË¾h Ñ†ËÚ¿ì ÄÔ̈Šß »TË‘¿zÂé ¿è BIOS Ù_Ù Ï’À»Âí́Á Ñ† BIOS ÄÔÄÃ¿Õ»RÇ€Â Ë́Íañ†ÄÔ BIOS ÚãÈñÕaÙ_Ù Ï’À»»R ×êÆ¼Ò̀ùË‘ÄÔÒ×ØaÊí»Rà̀èÄæ¾ŋ¿z¿YÐz¾[́ÁôÇæÄÔ̂ ÉÒ (**http://www.aopen.com.tw**) ¾Ǽ Ò (download)»TÙ_Ù Âv×ê×eÃŠË‘Âì̂ Â Ë́,ÄÔBIOS ÚãÈñÆ ¿Ù×eÄÔÄ¿Õ»R¾QÉ Âí́Õ»»R Ë‘¿z¿YË„ÚãÈñÀhÔóÂí́ÁaÜþ»TÂìÀ́ƒ»ẌÇj ÚãÀh́ÆÍP5TR110.BIN»RÍ̂_¿_Ä Í,ÆAP5T ¿U Ø Ä` ÄÔBIOS»RÂþ̈ÄÃ¿ÕÆ 1.10»T

Áô ÇæÀQ Î¼Âë ¾WÂü Çí ¾ Âý Ï’ À» »XCHECKSUM.EXE ¾è AOpen Ù_Ù Ï’À» AOFLASH.EXE»TÂé¿è¾ Ä|×êẾëÀ̀ì¿Y¾fÄÔÂSà[»X

[CHECKSUM.EXE]

Í,Çí¾ÂýÏ’À»¿z¿YÚÊÊ‘×eÕ’¾ƒÒ ÄÔ BIOS Úã̀Èñ chechsum Æ Áp¿Ù×e»T

1. ×êÊ À   CHECKSUM Biosfile.bin

    Biosfile.bin Å ÄÔÆ̀ BIOS ÚãÈñÄÔÀhÔó(Àƒ AP5TR110.BIN)»T

2. Ï’À»Ñ̈Bý¿ö "Checksum is ssss"»T

3. ×ê¾ Ò Ç ¾ÁXÀsAOpen Ô ÉÒÃè BBS ¾hÄÔchecksum "ssss"»RÆ÷Æ÷Æ Áp¿Ù×e»T À́ƒÀX¾½¿Ù×eÄÔÒ̀ö»R×ê¾ŸBÊ À Ù_Ù ÄÔÊ̈äÁQ»RÂŶÇÅÑ†¾f́Ò ¾QÀ̀Ò»T

[AOFLASH.EXE]

Ê À   CHECKSUM Ï]Õ̇•Ǻû»RÅ\¿z¿YÂé¿èAOFLASH.EXE Âí́Ù_Ù Ñ†ÄÃÄÔ BIOS ¾W»T Í,Çí́Ù_Ù Ï’À»Ñ̈¿ Úã̀Æ̀u¿UØ Ä` ¾è Super/Ultra I/O IC ÄÔÂÆÌÓ»R¿Y×eÅ̀BIOS ÚãÈñÆ ¿Ù×eÄÔ»T×êÄqÑ_»XÙ_Ù ÁÓÀÂÂû»RÇBIOS Ë_Ñ̂́ÍbÜêÔnẾÓ»T

1. ¿ë A ỐéÔê¿Y DOS Ð”Ø ¾ Ð”Ø »RÂŶ¿S×ê¾ŸBÊ À Àƒ́Ò̀ôỀ` Øêß ỐøÌ‘Ï’À»(Àƒ HIMEM»S̈ EMM386»S̈QEMM386, ...)»T

2. ×êÊ À   AOFLASH Biosfile.bin

    Biosfile.bin Å ÄÔÆ̀ BIOS ÚãÈñÄÔÀhÔó(Àƒ AP5TR110.BIN)»T

AWARD BIOS

3. ÀsÒ ¾Ñ†ÄÔ BIOS ÚãÈñÅû»RÏ'À»ÑÊ÷Ë'Æ ÁpÇ€Ë_ÜÜÄÃÄÔ BIOS À†Â ÔéÔê¾¾»R×ê
Ù Øö "Y" Ë_ÂþÀ†ÆÊ "BIOS.OLD"»T

4. Ú‹À†ÜÜÄÃ BIOS ÁÓÌÀÅû»R×êÅ ¾"Y" Ð"Ã}ÐzÀ Ù_Ù »T

5. ÀsÙ_Ù Ó]Ï'¾»RÙÝÓ Ñ"ßý¿ö¾QÀ **"FLASHING"** ÄÔÊeÈÁ (Ù_Ù ¾¾)»RÀÓÈã¾ıÒf¾½
¿zÝ Ø »T

6. Às "FLASHING" ÊeÈÁÈ ¿¼Åû»R×êÝ ÍÆÓ„Ñ×ÂÝÇÅÑ†Ð"Ø »T

7. Ð"Ø åûÅ ¾ "DEL" ÛþÐz¾[BIOS Setup ÏvÇË»T

8. ÇÅÑ†Ù ÃŠ "BIOS SETUP DEFAULT" Ù ÐÏ»RË_Â‡ÌèÍñÃŠÀsÍæÝÇÃŠÄÔÄÆÔR»WÃè
ÄæË'¾ı¿z¿Y×ïØýÀÂÇ ¿ ÄÔÍñÃŠÇâ»T

9. Ù Øö "Save & Exit"»RÂ ÀÓÎ_¾¿ñÁzÂÂÈï»Z

ÞÏÁz: ×ê¾¼Ç€ÀsÙ_Ù Ó]Ï'¾¾(Î_Æ Ñ ÙÝÓ ¾ßý¿ö
"FLASHING" Èã) Ý Ø »T ÀƒÄXÂdÀÍÙ_Ù ÁÓÀÂÎ_Ý Ø »RÂ‡
ÌèË_Ï]Ä|ÇÅÑ†ÈìÊä»RË'Î_¿ÌÐÑÁ ÎÅ BIOS Flash ROM
¾Æ»T

Î½¿ö: Ë'¾n¿z¿YÂæÎqÀaÖàÄÔÏ'Áá»R Ë_ÜÜÄÃÄÔ BIOS
"BIOS.OLD" ÖxÀo»T

Ä Ù A

Jumper ÍnÃŠÄ

Ù Øö **CPU** ÚhÌ‰

Í‚Ð ¿UØ Ä`Æ ËÞ¿èÏ ] jumper ÍnÇƒ»TÊù¾ÆÄÔ jumper Æ Clear CMOS»RÍ‚ ¿z¿Y¿èÃ Áë Ê`Ë\×ï ÄÔÊ»Äƒ¾f»T

Ù Øö CPU ÚhÌ‰ÅÔ¾ Ä|Æ :

BOIS Setup à **Chipset Features Setup** à **CPU Clock Frequency**
(¿zÉúÄÔÍnÃŠÇâÀÍ 66, 68.5, 75 Õa 83.3 MHz)

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

INTEL Pentium II	CPU ¾ÔÍ »ÚhÌ‰	ÇÙÚh¾	¿•Úh
Klamath 233	233MHz =	3.5x	66MHz
Klamath 266	266MHz =	4x	66MHz
Klamath 300	300MHz =	4.5x	66MHz
Klamath 333	333MHz =	5x	66MHz

ÞÏÁz: ¿Y¾hÐâÀT¿¡¿òÅv¿ÅÇˤh¾ŠÆÆÍ„ÄÔ CPU»RÀíÓŠÍn ÇâÆÊ Pentium II 233mhz»TÂþ¿ÀÄÔÍnÃŠÇâÆ Å`ÉuÂë¾Ô Í»Î Òï¿èÄÔ»RÂé¿èÍ‚ÂáÍnÃŠ¿zÉúÑ"Ó Ë‘ÄÔÂ‡ÌèÍ Ç£À Ñ}Èq»T

Jumper ÍnÃŠÄ

Ù Øö CPU Ó„Ú½

¿Õ¿UØ Ä`¾pÎÃPentium II (Klamath) VID ¿ńÉú»R¿z¿YÀõÊäÊõÎ CPU Èð¾ùÓ„Ú½»RÂþ×u
Í Às 1.3V Â 3.5V ¾ÁÐ»»T

Clear CMOS

JP14	Clear CMOS
1-2	¿ÙËφøÁQ(ÓŠÍn)
2-3	Ì^Ê½ÇMOS

Î½¿ö: ÀƒÄXË'ÄÔ‡ÌèÀnÆÊÐhÚhÀíÑ ËÖÃèÏ]Ä|Ð"Ø »R¿z¿YÌ^Ê½
CMOS»Rß Â‡ÌèÀoÂ ÓŠÍnÄÔÄÆŎR»TÊ½¾ÄÆé¿è JP14 ¾Á¿•»RË'¾n
¿z¿YÀsÐ"Ø Èãå ¾f <Home> Âí Ì^Ê½CMOS»T

Ä Ù B

ËqÂ¼Ê÷ÝUÐÊÒë

Q: ÀƒÀ Êé¾Ú1SZ`d1ÄÃ¿ÕP

A: AOpen ¿UØ Ä`¿UØ Ä`Ä®BIOS ÄÃ¿ÕÀ Ã Ð"Ø Èã POST (Power-On Self Test) Ä
Ä »RÍ„ËqÑ¨¿Y R À.Ð"Új »X

        AP53/AX53 <u>R3.80</u> Oct.22.1996

                          ⌐———— BIOS revision

Q: ÀƒÀ Êé¾Ú¿UØ Ä`ÄÔÄÃ¿ÕP

A: AOpen ¿UØ Ä`ÄÔÄÃ¿ÕÆ ¿Ypppp-x Öê¿öÃ PCB¾h»RÍ„ËqÑ¨ÀÍ¾QÇí¿ïÀü¿•ÈòÂÝ
¿SÀ Ã PC Slot Ä Ä »Rppppp¿_Ä AOpen ¾ÔÍ»ÀÔ project ¿_ÒÓ»Rx ÆÊÄÃ¿Õ¿_ÒÓ»T

                        ⌐———— MB Rev 1

        ┌─────────────────┐
        │   **AX6L**   │
        │   **97801-1**   │
        │ **48.87861.011**   │
        └─────────────────┘

Q: ¾ÊÕ Æ **MMX**»Y

A: MMX Æ Ñ†¾Q¿_Intel Pentium PP/MT (P55C) ¾èPentium II (Klamath) CPUÄÔÍ
À ÀyÅ ¿` (single line multiple instruction) ÁøÍ_»RMMX ¾ÁÅ ¿` ÀsÀyÎTß ÚÍ¿è¾hÉd
Á`ÀÍÈÐ(Àƒ 3D ¿ùß Ö%ÓÍ»S3D ÇÏÈÐ»SÏ ÊeÑ¬ÞÍÒàÒ~»TÀyÎTß ÚÍ¿èÏ'À»Çj Âé¿èMMX
Å ¿` Ë_¿¾ÍeÁ Ï×¾ÁQÈÐÉú»TÀò ðAOpen ¿UØ Ä`¾hÀÍÀö¾ðÜ Ó„Ñ×¾þÍÞP55C»R
ÂÝ¾ÄÕ÷ÇÉdÈ ¾ÁÔÓ¾ Âí¾þÎÃ MMX CPU Áj ¿zÂé¿èÀÓ¾Q¿ñÍú»T

B-1

ËqÂ¼Æ÷ÝUÐÊÒë

Q: Pentium II (Klamath) ÀsÊ À ÈÞÉú¾hÀÍÀy¾{ÄÔÁ Ï×P

A: ÁôÇæË_Ñ†¾Q¿_ÄCPU ÈÍÁíÈÏ¾W¾ Ò »R¿Y¾f ÄÔÎ ÒïÏÌÄXÎ¼ÂëË'ÈÏÆÊÊëÀì»T

DRAM : 64MB EDO or SDRAM

HDD : Quantum Fireball 1280AT

VGA : Matrox Millennium VGA, 4MB, 1024x768 24bit, 85Hz.

OS : Windows 95 4.00.950

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

¿ë¿Y¾h ÄÔÄ È ÁôÇæ¿z¿YÏ, Ì' »RÀs Business Winstone97 ÄÔÎ ÒïÏÌÄX¾¾»R Klamath-233 ¾ Êp PP/MT-233 ÂÝÂdÀÍÀy¾ÐÈ‡À˜»WÀ Às High-End Winstone97 Å, ÀÍÒ Ú^ÌÁÄÔÄ Ì'»TÍ,¿Éú Æ˜ÀmÆ Klamath ÉSÜZ¼SÔüÄÔÉú¾˜Ò À€»RØRÀì ¿ÂíÊÏÓé ÁèÍSÌ'»T

Q: ¾ÊÕ Æ 1WÎTT1U, T19Uvt}r.r‡z, €1, wÍT, €w¸..~z‡Œ»Y

A: U, T1Æ ¾QôòÑ†ÄÔ1WÎTT1Íh È Õ'ÝìÖêÑá»RÑ†ÖêÑáÍhÄŠ1UZj 1ó†Ìï¿ 19Àf¿UØ Ä` :1Às¿í×ê U, T1ÖêÍÓ19Í], x, 1:1Èã»R¿ÌÐÑÎÔÊ½Ø ÎùÄÔÓ{Ü »RÂþÎ ÒïÍh×uÆÊ1EHÎTWc1BF²DB»T¿UØ Ä`¾Á1U, T1Î Òï¾ ÐáÌè1WÎTT1Î ÒïÁ ¿lÁ<Ý »RÀfÄX¿UØ Ä`Í„Ó]1U, T1Î Òï»RÎ_¿_Ä ¿U Ø Ä`ÄÔ1V^ZlÙ ÈxÅUÈqÁT»RÄì¿YË'¿z¿Y¿è¿ À Á × ÄÔØ Îù19Áj Å\Æ ¿èÉáÁQÄÔØ Îù¿ ¿z»TÅò ð1R`ƒv€l¿UØ Ä`1Ri GF¼RaFH¼RaFe¼Ri Fe¼Ri G]1Í½¾ŠÍ„Ó]1U, T1Î Òï»R¾f ÓéÁj ÆÊ1U, T1ÖêÍÓÖä¿Õ»X

Q: ¾ÊÕ Æ **Bus Master IDE (DMA mode)**Þ

A: ÐáÎèÄÔPIO (Programmable I/O)IDEÕ÷Ç€CPUÂ ÁfÀÍÝ IDE¿ Í»ÄÔÊ À ÊäÁQ»R¿n ÆRÏ¿Å÷Ø Ë ÊäÁQÄÔÁÓÀÂ»TÆÊÎ ¾CPUÄÔ¾ÁQÇ‡0û»Bus Master IDEÒàÒ~¿zÄ×ËÏÀ† Â Ê` Øêß Ò Êe»R¾Ó÷Òx¿CPU»R¿S¿ÂéCPUÓSÁQÃ^ Ê` Øêß Û2EÒàÒ~Ð»ÄÔ ÈàÐá ÊvÀaÈãÐzÀ »T¾Ó] Bus Master IDEÕ÷Ç€Bus Master IDEßï Êäï' À»Ã′Bus Master IDEÏŠÔêÂí¾pÎÃ¾ ¿z¿ÙÊqÊäÁQ»T

Q: ¾ÊÕ Æ **Ultra DMA/33**»Y

A: Í‚Æ ¾QÒòÑ†ÄÔÍhÈ »R¿òÄÔÀsÁ ÏDE ÏŠÔêÄÔÐáÙ Ì‰RÐáÎè¾ÁPIO Mode ÐâÂé¿è IDE ÈËÂ ÅYÒÓ¾Á¾4n×‡(Rising edge) ÂíÐáÙ Ò Èà»RDMA/33 Åy¿zÀaÈãÂé¿è¾4n×‡Ã^ ¾4f×‡(Falling edge) »RÀmÀÒÒ ÊeÐáÙ Ì‰Æ` PIO Mode 4 Ãè DMA Mode 2 ÄÔÂüÇÙ»R (16.6MB/S x 2 = 33MB/S) »T

¾4fÄ ÀT¿¡ IDE PIO Ã^ DMA Mode¾ÁÐáÙ Ì‰RÀn IDE ÐñÀÍÈàÆ` 16 bit»RÆXÂTÀÒÐá Ù 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
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

ËqÂ¼Æ÷ÝUÐÊÒë

Q: Ultra DMA/33 ÄÔÍ‡ÅñÀƒÀ PÆ ÁpÕ÷Ç€ÉdÈ ßiÊäÏ' À» (Driver)P

A: DMA/33Õ÷Ç€ÉdÁ` ÄÔßi ÊäÏ' À×(Driver)»RË'¿¿Y¿è Intel ÄÔ PIIX4 Driver ÃèÑ†ÄÃ Win95 Memphis»T¿òÅvÍbÎ Òï Ó]ÄÔÐ„Ì¼ŠÔê¿^ÅÍQuantum Fireball ST1.6A»RÂþ Î Òï Öà ØôÀƒ¾f »X

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: ¾ÊÕ Æ ACPI (Advanced Configuration & Power Interface) Ã^ OnNow»Y

A: ACPI Æ 1997(PC97) ÄÔ¾QÒòÑ†ÄÔÓ„Ñ×ÔøÌ'ÍhÈ »RÂþ¿òÄÔÀsÁ Ðz¾QÂSÒx¿ëÁQÑ•Â‡ Ìè(OS)ÂíÒqÆóÓ„Ñ×Àí¼¼Í'Ó]ÐáÌè Green PC BIOS»RÆÊÓÆÀÓ¿òÄÔ Chipset Ãè Ultra I/O ÍÓ¾ Õ÷Î¼ÅëÖêÑá¾ÐÇË (Standard Register Interface) ÍÓÁQÑ•Â‡Ìè (Àƒ Win98)»RÂÝ¿Z¾ÁÁQÑ•Â‡ÌèÍ ÙhÝ ÍÆÃ^Å Îp¾¼ÀaÍÓ¾ Ó„Ñ×¾Á¿ñÉú»RÍ, ÑbÄ|Æ ÀÍÜZ ÓÍÚYÎ»Áj ¿èPnP ¾Á¾ÐÇË (Register Interface)»T

ACPI ÍhÃŠÂé¿èÌ]Æ„À»Ó„Ñ×Å Ûk(Momentary Soft Power Switch) ÂíÊËÂ ¿è Ó„Ñ× ÄÆÄƒ¾Á¾ÛÏÅ»RÀmÀÓ¿ÌÐÑÀs ATX Form Factor Ê‡Ài Momentary Soft Power Switch ÄÔÂé¿è¾f¾•ÉúÓ ßýÂþ ÈÞÐÁX»TACPI ÍæÁ}¾ø¾QÉ Ó„Ò¼Âé¿èÄæÄÔÍ»¿ ¿zÉúÆ ¿ë¿zÐüÀ» Ó„Ò¼(Notebook) Ãì ÄÏÀ ÀíÂí ÄÔÔtÑb "OnNow"»TÍ, ¿ñÉú¾ÓÍmÀRÊÂ¾hÀoÂ ¾h¾QÀÒÝ Ø ÅvÄÔ¾ÁQÏvÇË»RÀí¾¼½èÄûÄ ÈãÐ»Ï¿Å÷Ë„Ð"Ø ÈìÊä(Bootup)»RÐz¾{ Win95»RÏ^Åû Ðz¾{ Winword»TÂé¿èTX ÍÓ¾ ¾ÁÅò ð AOpen AX5T»RÁj ¾þÍÃACPI ¿ñÉú»T

ËqÂ¼Æ÷ÝUÐêÒë

Q: ¾ÊÕ Æ LDCM (LAN Desktop Client Manager)»Y

A: LDCM Æ Intel ËÜß%Ì¼Âë(Ñ Ï^Ç€¿Ð`)ÄÔÍ€ß »RÂþ¿òÄÔÀsÚÊÁf¾«¿„¾ÚÍ»ÄÔÔ Ò Ôø Ì'¾YÇ (Network Administrator) ÔäÑ ¾èÔøÌ' Client Ô÷ (Âé¿èÄæ) ÄÔÂ‡ÌèÒ Ñ×»T LDCM¿ÌÐÑÊ‡Ài DMI BIOS Âé¿è»RÂþÓ AOpen ¿UØ Ä`Á»Æ�DMI BIOS»R¿ˆÆ ¿Ö ¾Í¾[LDCM Í€ß Àí¾‰R¾¼Ó] LDCM Ðâ¾þÎÃ ATI VGA ¾è Intel Network ¿u, ÀR¿l¾h ÂþÚÍ¿èÃ Ù ¾«ÅáÚ Óì»R¾QÉ ÈrÈ‹Âé¿èÄæßýÏ^ÂdÀÍ¿ÌÇ€Åy¿ÚÙ ÂíÛäÐ¤cDCM»T

Q: ¾ÊÕ Æ ADM (Advanced Desktop Manager)Þ

A: Í,Æ Acer Ï,ÈzÄÔÍ€ß »R¿ÀÝ À Intel LDCM»RÀ ÀÍ¾QÂáÁ Ðz»ïADM ¾¼¿ˆ¿èÃ Ù ¾«ÅáÔ Ò Ú Óì»R¿ÀÀaÈã¿z¿èÃ Â‡ÌèÄÆÐRÄÔêÓÎ »Rÿ CPU ÇÑÈÊÊÕÎ »RÂ‡ÌèÓ„Ú¼ÊÕ Î ¾è CPU Ó]Ö Å`ßQ»T

Features	ADM 2.1	LDCM 3.0
VGA card	¾¼ÇÇ	¿ˆÀÍ ATI
Network card	¾¼ÇÇ	¿ˆÀÍ Intel
Support DMI BIOS 2.0	Yes	Yes
Support Win95	Yes	Yes
Support Win NT	No (ADM 3.0 Ë_Ñ¾þ ÎÃ)	Yes
Real-Time CPU/Memory Utilization Monitoring	Yes	No
Multi-Machine Monitoring on One Screen	Yes	No
Remote Management Protocol	ÖêÑá SNMP protocol	Intel Ë^¿èRAP protocol
Standard SNMP Trap	Yes (Àm¼Ó¿z¿èÃ ÖêÑá Í€ß Àf HP Open View)	No
Remote File Transfer	No	Yes

×êÄqÑ_»RADM 2.0 ÐâØR¿èÃ AX6F/AX5T-3/AP5T-3»RÀí AX6L Âé¿èÄÔÆ ¿‡¾QÔò HW Monitor IC»ÞADM 2.1 Å\Æ Ë^ Æ¾þÎÃX6L ÃìÐ"Ï,ÄÔTÃ Às¿Ó¾ü¿ƒ¿Æ ¾ÁÂv»R ADM 2.1 ÛóÀsÐ"Ï,Ñ ¾¾»RÍæÑ†Ò Êe×êË\¾ÚÄqÑ_ÁôÇæÄÔÔ ÉÔ»T

ËqÂ¼Ê÷ÝUÐÊÒë

Q: ¾ÊÕ Æ AGP (Accelerated Graphic Port)P

A: RXa1Æ ¾QÇíÝ À 1aTZÐñÆÊÈàÄÔÑ†¾ÐÇÉ»R¿UÇ€¿òÖêÀsÃ ÊÀÈÞÉú1ÐU1ÝÒÓéÄÔÚÍ¿è»RÀ Ðâ¾þÎÃÈ` Øêß ßÄÖxÊäÁQ1 9^ v~, ..Œ cvru©h.z¦v1 ` ƒv.r‡z, €:1Ã^ ¾QÓ ¾QÐaÙ 1 9dz€x}v> ^ r†‡v.1dz€x}v>d}r‰v1, €v1‡, 1, €v1, €}Œ»TRXa1Âé¿è1GG1^ Y'1T}, t|1ÂÔ¾h×‡19cz†z€x1Vuxv: ¾è¾f×‡19Wr}}z€x1Vuxv:1Âí ÐáÕÕÒ Èà»RÆXÐaÙ Ì%ÆÊ1GG^ Y'1<1E1SŒ¦v1<1C1N1FCI^ S@d»T Ri G]1Âé¿èÄÔ1Ž‡¦v}1] i 1ÎÓ¾ Å\¿z¾þÎÃ1RXa1¿ńú»T

Q: ÁôÒíÀƒÀ ÁaÜp **Windows 95** ÄÔÄÃ¿ÕÃ`P

A: Ë'¿z¿YÂæÑí¿Y¾fÄÔÂSà[ÂíÚaÏ Windows 95 ÄÔÄÃ¿Õ»X

1. Å Âü¾f»^ËÊÂ ¿<»‰¾ÄÔ»^Â‡Ìè»‰¿é¿ö»T
2. Ù Â »^¾QÉ »‰¿öêßì»T
3. Ë„»^Â‡Ìè»‰¿öêÝU¾f»RË'¿z¿YÌ^Ñ»ÄÔÆ÷¿iWindows 95 ÄÔÄÃ¿Õ»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: ¾ÊÕ Æ 1Rei 1d, v¦1a, Šv.1` €@ wÍÄ^1^ , ~v€‡r..ŒHdŠz‡ty»Y

A: ATX ÍhÈ ¾ÄÔÍ€ß ÈìÊä(Soft Power On) Æ Ñ ¿UÓ„Ñ×Ý ÍÆÈã»RÉúÎ¼Âë¾QÇíÅ÷ÃcÓ„ ÆÆ (Standby Current) ¾Ã¾QÉdÈ ÀoÒ »R¿èÃ Ï¿Å÷Í Ù Ó„Ò½¼ÁÂà¿ (Wake Up Event)»T¾ ÀƒÕ»Æ ¿•×^Í Ù »SÒàØôØ Í Ù ÂèÛ€ÇÏÍ Ù »T¾QÉ Âí Õ»»RÍæÙÌÍ ÄÔÍSÌ' Æ Î¼Âë Ï¿Çî Ó„ÆÐ¾Ä Ó„Ñ×¾ÛÎÅÀoÒ »RÀ¦Ó Ù»Æ„À›Ó„Ñ×Ð"Ý (Momentary Switch) ¿z ¿ëÓ„Ñ×ÂèÚ1ØÓÄÔÍ€ß Ó„Ñ×ËÊÂ Ô÷ (Soft Power Control Pin) Ð"ÈìÂèÝ ÍÆ¿UÇ€Ó„ Ñ»TÂò ðAOpen ¾Á ATX ¿UØ Ä`Á»¾þÎÃÏ]Æ„À»Ó„Ñ×Ð"Ý »R¿SAX5T/AX58/AX6L Æ ÍﶂÀÏÖàØôø Í Ù ¾Á¿ńú (Modem Wake Up)»T Í€ß Ý Ø (Soft Power Off) ÀyÆ` Å ¿ëÍ€ß Ý ÍÆØ ØÓ»RWin95ÄÔÖâÊË (Shutdown) ¿ńú¿z¿Y¿èÂíÚaÎ Ë'ÄÓ¿UØ Ä`Æ Áp¾þÎÃÍ€ß Ý Ø ¿ńú»TÂò ðAOpen¿UØ Ä`¾ÁAX5T/AX58/AX6F/AX6L Æì¾þÎÃÍ€ ß Ý Ø ¾Á¿ńú»T

Q: **LX/TX** ¿UØ Ä`ÄÔÂ‡ÌèÀŠÒàÀ€ **Win95** Åû»RÀs»^ÒàÒ~ÒøÌ'Ç »‰¾fÑ"¿iÌ'ÎiÇí "**?**" Ìß ÒÓ»RÁôÚÍÒíÀƒÀ È Ê¼Í, ÂáÊ÷ÒÓÃ`»Y

A: Í,ÂáÊ÷ÒÓÆ ¿ëÃ Win95 Ï]Ä|¿Ù×eÙ ÝëLX/TX ÎÓ¾ Ì¦ÃìÇa»Ráj ÂéÀƒÀÓ»RË'ÄÔÂ‡Ìè ÂæÏ^ ¿z¿Y¿ÜÆ¶ÓSÁQ»T¾¼Ó]Ê Ã ¾QÂáÂé¿èÂæÄÔÇ€ÂU»RÁôÇæ¾ńÎ¼Âë¾4W¼QÆ(Óchip ¾ Â¿ÝÏ'À»»R¿ŹÊÂƒ Ë'Òëâ^Í,ÇíÊ÷ÝU»TÍ,ÇíÏ'À»Âé¿è¾hÅUÊ¾üÌÃ »RÀí¿SØR¿èÃ ÃìÀÍÄÔ LX/TX ¿UØ Ä`»RÀí¾½¿ˆÇÇÃSÃÄAOpen ÄÔ AP5T/AX5T/AX6L»T¿ˆÇ€Ë`ÞËË,À€¿è»R ¿z¿YÀõ¿ë¾fÒ ÕaÎ1Ì',»T¿‡¿•Çj Ë'ÑbÇ€Âé¿èUSB Òà~»RÛó¿ÌÐÑÄÍUSB ßi ÊäÏ'À»»R Í,Às Win98 ¾ÆÆ_Ñ̼Âë»T