

İP³/eÍÓ Award BIOS

¿0Í0Ë_Ö»Ã ÀfÀ ÍnÃSÂ†İèÊëÖa»RÊ‘ ¿z¿YÂé¿è AOFflash Í, Çí¼¿ÂýÍ’ À»ÂíÁ Ñ†¿UØ Ä`
Ã0 BIOS»T

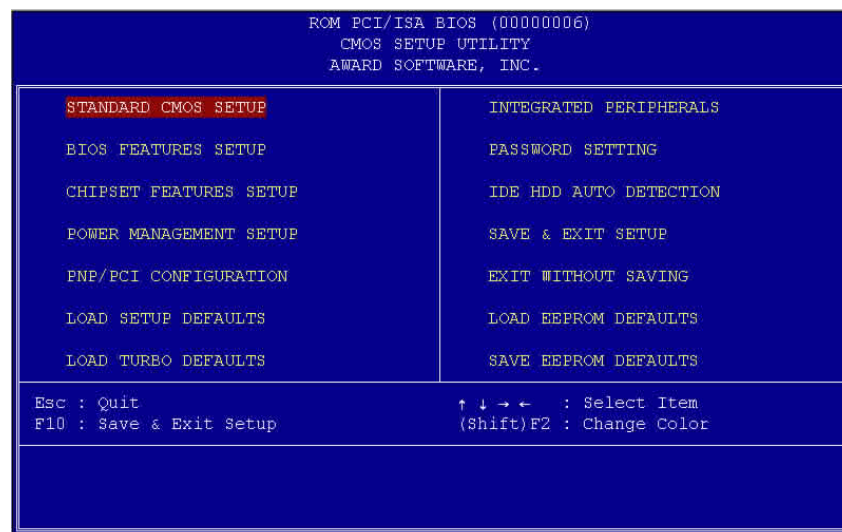


ÇÅÇ€: ÀnÆ BIOS codeÑ“ÚYİôÂ†İèÍ€İŠB Ä0İnÇfÇnÁ
ÀíÁ Đz»RÃì ¿Y¿i ÍwËÄÃ0 BIOS ÄÃ¿0¿zÉúÑ“Öa¿0Í0%Đİè
Ä0%0ËEv (ÉdÁ`Æ Chipset SetupÊëÖa) ÀÍÃaÈ†ÌÁ»T

AWARD BIOS

3.1 BIOS Setup

BIOS Setup \rightarrow Flash ROM \rightarrow 128 byte CMOS RAM \rightarrow BIOS Setup \rightarrow POST (Award BIOS Setup) \rightarrow T

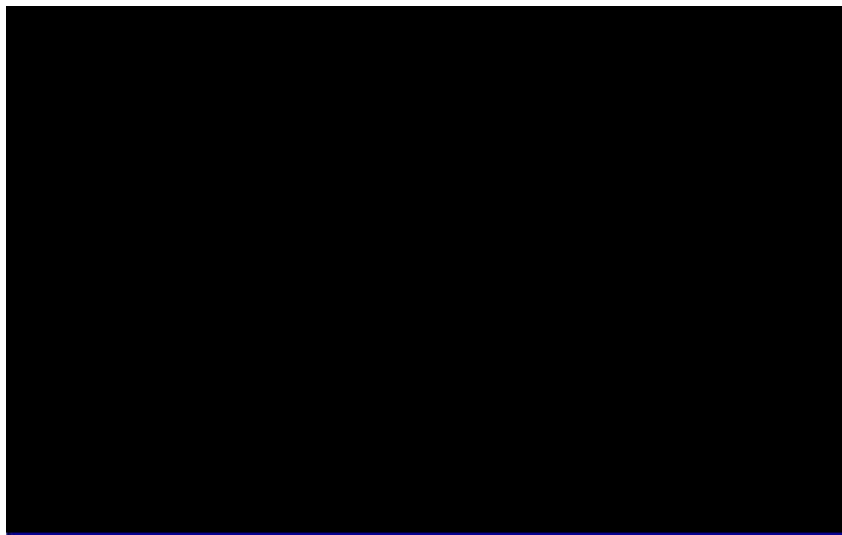


"Load Setup Defaults" \rightarrow T
"Load Turbo Defaults"
"Load Setup Defaults" \rightarrow T

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3.2 Standard CMOS Setup

Ù 06 "Standard CMOS Setup" ÍnÃŠİvÇË»RçzçYÙ 06ÃİİeÄÖÊ çÖÍnÃŠ»RÀfÙ ¼¼¼
 ÎÛ»SEãĐ»%ê0é0e0 ÅÐÖRÄÖÍnÃŠÇã»TÃéçèÄæçzÁbçè% ÄgÛpË_¼ççİÊeİ0Ã È ÇñÃ ÄÖÙ
 Ðİ¼h»RÄRÃéçè [] Æè [] Å ÛpÍnÃŠÙ ÐİÄÖÊeÖaÇã»T



Standard CMOS à Date

ÀfÄXË' ÑbÇ€ÍnÃŠ¼ ÎÛ»RçzçYÁbçè% ÄgÛpË_¼ççİÊeİ0Ã Date ÊeÖaÍŠ»RÄRÄ ¼f []
 Æè [] ÍnÃŠçòÄvÄÖ¼ ÎÛ»T¼ ÎÛÄÖÊeÖaË À»ÆË¼ »S¼ Æ^À•»T

Standard CMOS à Time

ÀfÄXË' ÑbÇ€ÍnÃŠËãĐ»»RçzçYÁbçè% ÄgÛpË_¼ççİÊeİ0Ã TIME ÊeÖaÍŠ»RÄRÄ ¼f []
 Æè [PGDN] ÍnÃŠçòÄvÄÖËãĐ»»TËãĐ»ÄÖÊeÖaË À»ÆËË»S¼ÄÄ^Æ »RÆ çY 24 ¼fËã¼ À»Ä
 çö»T¼QçÓÍnÃŠÄ€ËãĐ»Ä^¼ ÎÛ»RÄTÄÖÇÄÑ†Đ"0 Å¼40÷ÄRÇÄÑ†ÍnÃŠ»T

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



İ½ö: Ė' çz Áb çè çU İv çĖ ÂÖ "IDE HDD Auto
Detection" Û ĐİÂİ ÂöĖâĖÖİ Âİ ÂŞöaĂÖ IDE İŞöeİh
Ė »T

Mode	Âê¿è Logical Block Address (LBA) ÔìÀ»ÐàÊv0 Êà¿z%þÎÂÐh
Auto	Ó] 528MB ÄÔÏSÔe»T¿òÀv¿ÁÍ ¾hÄ0 IDE ÎSÔe%¼ÄÿÁÿTà LBA
Normal	ÐàÊvÔìÀ»»RâþÜ.»À†ÊvÐ.»À»ÐhÓ] 528MB»TâfAXÂê¿èÄÔÏSÔe»S
LBA	ÎbÊ Â»¾aÆ LBA On»RÎ_¾Æú¿è LBA Off Ä0¾ Â»ÁÍ Êì Êà»T
Large	

Standard CMOS à Drive A
Standard CMOS à Drive B

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

Í, ÇiÜ Dİ;zçêÄiÜ ØøİēÖēÄÖY ÅÆR×ēİØFē% ÅgÛpÄö Drive A Åē
Drive B İS»RÄ ████████ Åē ████████ Ü ØøÖaİēA»ÖēÖ ÅöİBÄÖēēÖaAj
z»RÄpİnÄŠÇäÄf;Ä»T

EGA/VGA
CGA40
CGA80
Mono

ÀÒ Û ÐĬ Ĵ İñ ĀŠ Āī Āē ĵ ĄŌ Bý ĵö ĵ Ű ĀEÔR»R Êë Ōà ŐŠ İn Çâ ĒÊ
VGA/EGA»Tĳ ēĀ ĵăŲĂŎÇİ ĶŎŰŰ ĤĕĸĀ ĶĀŎĥĕ ĒÊ VGA»RĀİ
ĴYÍ, Çİ Ű ĐĬİ ĵXĀĐĀİ ĶĚŎ ĵēİS»T

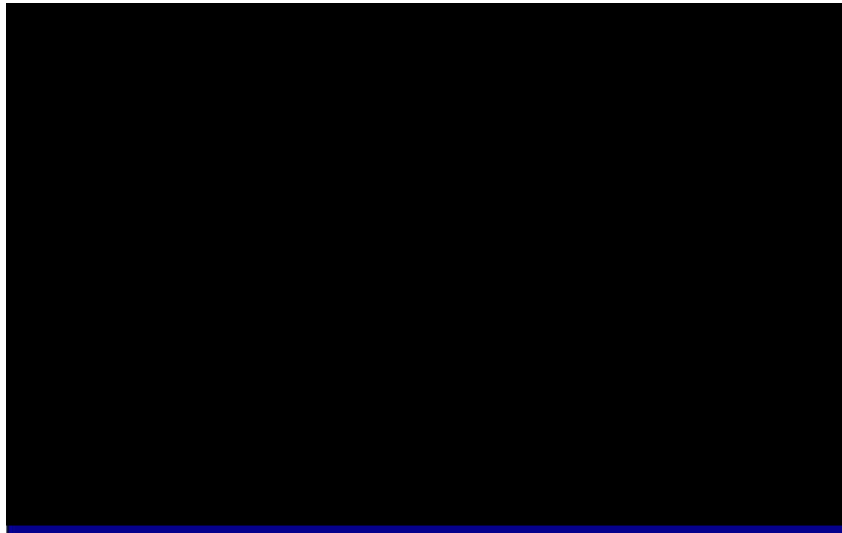
No Errors
All Errors
All, But Keyboard
All, But Diskette
All, But Disk/Key

A0U B1zEEA A1IeE A AoAoI Oi (POST) Ea»R AfEOI A U O•
 E ApC»EE% OSAQ»TEöaöSInçamE All Errors»RÄ 1öA1Ie1~ÇEEÖ
 I A U Ö•ÄÄf»RÄjN~EE% OSAQ»T

AWARD BIOS

3.3 BIOS Features Setup

ÀfÄXÀsçUÙ Í %4Ù Øö “BIOS Features Setup” ÐĬçò»RÁj Ñ“ÀsÙÝÓ %hBÿçòÀf%4İvÇË»X



BIOS Features à Virus Warning

Virus Warning	ÀÓÙ ÐĬçİnĂŠÓ.,ò%ÉwÆ.ĂØĂ%çmÉú»RĂ`BQİŠôeĂÔÐ"Ø ÊéÆ, (Boot Sector) %e%4İİeĂ (Partition Table) %4Ă ÉwÆ.ĂZEq»TĂfË_ÊeÖaİnÆE
Enabled	Enable»RĂ çöÓ.,ò%ÀsÐ"Ø ÓĬİ' %3»RĂfĂİÒ ÈaÖx%4İŠôeÐ"Ø ÊéÆ,»R
Disabled	ĂİİeĂj Ñ“ÊË% ÓSÁQ»RĂYÑ“ÀsÙÝÓ %hçİİ' çY%fĂÔĐİÁzÊeÖÓ»TĂÓÊä»R
	×êçeË×Æ.İ' À»ĂpçİÊ÷YUĂİ Às»T

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

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BIOS Features à External Cache

External Cache	ÀÓÙ ÐĲĲİİnĀŠĀİİèĀéĲèİP%KDĲĀðĀ È`ØèB (ĲðĀvÆPBRAM
Enabled	ĀðĀ È`ØèB »RĲYĲĲĀðÓ,,ð%ĀÔÈ Ā ÈPİ%TĀ È İnĀŠN“İ ÔTĀİİè
Disabled	ĀÔİİĀİ»RĀİĲYĀðPİÈ‘ È_ÈèĀİnÆ Enable»RÈ‘ĀUĀİİèİ, Ĳç%4XÇ
	ĀŠĀÔĀÆf%İnÆ Disable»T

BIOS Features à CPU L2 Cache ECC Checking

CPU L2 Cache ECC Checking	Í, ÇİĲİĲòĲzB È‘ İnĀŠÆ ĀPÈİĲè L2 Cache ECC Checking»T
Enabled	
Disabled	

BIOS Features à Quick Power On Self Test

Quick Power on Self test	ÀÓÐĲĲòĲzİİnĀŠĀİİèð ÓĲÆĀĀİ ÒİÐĲĲò»RĲYĲĲĀðĀðĀóİ Òİ
Enable	(POST) ĀÔİ‘ Āá»TÈèĀóŠİnÇâÆ Enable»T
Disabled	

BIOS Features à Boot Sequence

Boot Sequence	ÀÓÙ ÐĲĲzĀ ĀŠĀİİèD”Ø ÈĀĀÖN{İ^ÐĀĀ»TİŠÔèĀÔYèĀ`xi (ID) Āf
A,C,SCSI	%fĀİĲö»X
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 ÐĲĲzĲY%ÔTĀİ€Ā»ÔèÔèØ ĀÔĀ Ò~»TĀİĀf»RÇjĀİĀüĲ<İ€Ā»Ôè
Enabled	ÔèØ (A»RB) »RÈ‘ ĲzĲYĀ ĀŠİP%QĲ<ÆÔèÔèØ B»RİP%XĲ<ÆÔè
Disabled	ÔèØ A»T

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BIOS Features à Boot Up NumLock Status

Boot Up NumLock Status	ÀÓÙ ÐĬ ĭzĬnĀŠŮp×] %hĀ00āĀ...Ůp ĭ< Āé ĭè Ōi Ā»»TĒ Ēē Ōā Çā Ĭn ĄĒ
On	Or»RĀ ĭō ĭzB ŌāĀ...Ůp ĭ< ĬSĀ ŌāĀ...Ů %Ĭ ĀĀŌB»VĀfĀXĬn ĄĒOf»RĀy
Off	ĀsÐ"Ō ĀūĐāĒūĀé ĭè ĬyŌēĒĒ ĭnĒū»TĒē Ōā ŌŠĬn Çā ĄĒOn»T

BIOS Features à Boot Up System Speed

Boot Up System Speed	Ē' ĭz ĭYŮ ŌōĀĭĬēĀŌĒ Ā ĬĭĀn ĄĒ High Āē Low»TĒē Ōā ŌŠĬn Çā
High	ĄĒ High»T
Low	

BIOS Features à Typematic Rate Setting

Typematic Rate Setting	ÀÓÙ ÐĬ ĭzĬnĀŠĀēĀ Ē Ůp×] Ōi ŮŮÇĀ×ā ŌgŮŌĀŌ ĭnĒū»TĒ ĀŌĒē Ōā
Enabled	Ĭn ĄĒ Enabled»RĀĭĬēĀ ĭzĒĒĀ Ůp×] Ōi ŮŮĬbÇĀ×ā ŌgŮŌĀŌĒā
Disabled	ĀŌ»T

BIOS Features à Typematic Rate (Chars/Sec)

Typematic Rate	ÀÓÙ ÐĬ ĭzĬnĀŠÇĀ×ā ŌgŮŌŮp×] ĀŌĬĭĀn ĄĒē Ōā Çā ĄĒ 6»S3»S10»S
6	12»S15»S20»S24»S30 Ĭ ĭ»TĀĭĬē ŌŠĬn Çā ĄĒĀTĒ 30 Çi Ā...Ō»T
8	
10	
12	
15	
20	
24	
30	

BIOS Features à Typematic Delay (Msec)

Typematic Delay	ÀÓÙ ÐĬ ĭz ĭēĀĬĒĒ Ŭ Ůp×] ĬbÇĀ×ā ŌgŮŌĒā»RĀ...ŌBŷ ĭōĀsŮYŌ
250	%hĀŌĒāĐ»Ēĭ»RĀĬ 250»R250»R500»R750 Ā^ 1000 ms»TŌŠ
500	Ĭn Çā ĄĒ 250 ms »T
750	
1000	

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BIOS Features à Security Option

Security Option	À0ĐİçòçzÍnĂŜĂ†İèÈ\×i»RŪñÁ\ç]¼¼çÖðxÈÜB%ŠAíØiÀöĂéçèÈ'ĂŌŌ,,0¼»T
Setup	ÀfĂXÍnÆ System»RĂ çöÂTÀÔÇĂÑ†Èi ÈăĂ†İèÈă»RÍ¼Ń"ÇÊAUÙ¼¼È\×i»Tç†ç•»RĐz¼[BIOS Setup Ĩ'À»Èă»R¼nŃ"ÇÊAUÙ¼¼È\×i»T
System	ÀfĂXÍnÆ Setup»RĐaŃ"ĂsĐz¼[BIOS Setup Ĩ'À»Èă»RÇÊAUÙ¼¼È\×i»TÀfÇÊĂ È È\×içmĚú»R×èÛ ØöçUÙ Í ĂŌ"Password Setting" Đİçò»R¼¼ÇÊU¼¼ç À Ò Èă»RĂ ¼f <Enter> ŪpÁjçz»T

BIOS Features à PCI/VGA Palette Snoop

PCI/VGA Palette Snoop	ÀŌÙ ĐİçzÇÊAU PCI VGA çuĂŌ×iĂü×] (Palette Snooping) ĨbÀ†Ă ÈăĂ`Ă ĂŜÚc»R¼¼ĂoŪÍç À ĂYŌŌçYŪñÁ\Æ×P»T ÀfĂXÈ'Ăs PCI ŪiçcŌè%hĂSĪ»Ăü¼ ĂaŌă×iĂü×]Ă Ă"ĂŌŪiçççu (ĂiĂf»XMPEG çuĂèŌ%ŌİÈÑÈŌçu)»RçzĚ_Ū ĐİÍnÆ Enabled»RŌŜĂŌŪiçççuÆ×P»T
Enabled	
Disabled	

BIOS Features à OS Select for DRAM > 64MB

OS Select for DRAM > 64MB	ÀfĂXÈ'Ăéçè OS/2 ÁQŃ•Ă†İè»RĂYçSĚ`Øèß ÈvĐ,,ĐhŌ]64MB»RçzĚ_ÈèŌăÇăÍnÆ OS/2»RĂpĂy×èÛ Non-OS/2»T
OS/2	
Non-OS/2	

BIOS Features à Video BIOS Shadow

Video BIOS Shadow	ĂiŪñ VGA BIOS Shadow Ă Ě_ßýçöçuĂŌ BIOS Ō Èă×ăŌ†Ăs DRAM È`Øèß ¼¼RçzçlĂŌĂ†İèĂŌÈ À ĚPİ%ŪĂnÆ DRAMĂŌĂ†Ă Í†Ăñ¼ ROM ŪŌĂŌ»TĚèŌăÍnĂŜÇăÆ Enabled»T
Enabled	
Disabled	

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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`Øeß Å`ÉuİÓÜi çcçuÂéçèÄÖ»TÀfÄXÜ Øö
 Enabled»RÄ†İèÑ"Ê_Üi çcçuÄÖ ROM Code »àÖ†¼Qç Ä çU
 Ê`Øeß (DRAM) ÊéÊ ¾¾»RÄÖÄöİ_ÖöÆ Shadow»RçzÖWÄ Ö
 ÁðÄÖİSİ' İ†Äñ»T ÇjÊ' ¾Ä^Ñ»Üi çcçu ROM Code ÄÖÄ Ä"Ö
 Èà»RçzÊ_ÊëÖäİ¼ÄnÆ Enabled»R¾ Ö ÉúÄ`Ýi Ö ÆÄ ÄiÄİÄÖ
 ROM Code»RÄ È Ð`Ê`Øeß »T



ÄqÑ_: F000 Ä^ E000 Ä Ä"Æ Ê^Ä Ä`ÉuİÓ BIOS
 Code Ö Æ¾Äçè»T

AWARD BIOS

3.4 Chipset Features Setup

"Chipset Features Setup"                                                            

                                                            

                                                            

                                                            

                                                            

                                                            

                                                            

          

AWARD BIOS

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

SDRAM(CAS Lat/RAS-to-CAS)	ÀÓÙ ÐĲzÍnŠ SDRAM CAS Latency Ā^ RAS Ó CAS ĀÖĲzĀ÷ĒāD»TĲ, ĀāÍnŠÇāzŌ%Be SDRAM ĀÖĒ À ĀĀĒP»R ŌŠÍnÇāĒĒ Auto»RĀfĀXĀŠŌāĀū»RSDRAM ĀĲ¼¼ĒĒĒĒĒĒ Āē»R×ēĀ ĒĒ 3/3»T
2/2	
3/3	
Auto	



Ī¼öK1ÇjĒ_ÀÓÙ ÐĲÍnĒĒ Auto»RĀy BIOS N̄“ĀöĒāĀa ŪpĒ' ĀēzēĀŌ SDRAM Ē Āp³pĲĲĲ SPD»TĀfĀXĒ »RĲ_ ĀæŌŌ SDRAM ¼hĀŌŌāŌŌĀĲÍnĀŠĲ, ÇĲ Ū ÐĲ»WÇj ¼¼ Ē »RĀyN̄“ÍnĒĒ 3/3»TĀŌpĲĲĒ ŌāD,, Ū zē¼pĲĲĲ SPD ĀŌ SDRAM»RĲ, ŌāĀSÍnĀŠ¼hN̄“¼ Ō ¼ Ā\»T

Chipset Features à SDRAM RAS# Precharge

SDRAM RAS# Precharge	zēĀĲÍnĀŠ SDRAM RAS ĒēŌŌĀŌ Precharge ĒāD» (zY clock ÇfŌā)»TPrecharge ĒĒ RAS BĀŌxĒāĀQĀvĀŌNāĲāĒā D»»RŌŠÍnÇāĒ Auto»T
2T	
3T	
Auto	

Chipset Features à DRAM ECC Function

DRAM ECC Function	zēĀĲĒĲzēĀĒĒ Ē DRAM ECC zĲĒū»T
Auto	
Disabled	

Chipset Features à Video BIOS Cacheable

Video BIOS Cacheable	ÀÓÙ ÐĲzB Ō%ŌĲ BIOS Ā×ĒĲĒ,,ĀđĀ Ē`ŌēB ĒĲĒā»RzĲĲĲĲ ĲēĀŌĒ À ĲĲĲĲ»T
Enabled	
Disabled	

AWARD BIOS

Chipset Features à Video RAM Cacheable

Video RAM Cacheable

Enabled
Disabled

Í, ÇiÛ ðĬççèĀíĀđĀ Video RAM A000 đa 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

ĀÍ%QĀađ ŪŪĀđ I/O ĪŌ% »RĀsĒ Ā ÁŌ%QÇí I/O Ācç`Āû»RŌ÷
Ç€%QÇíĪpÇ Ēāđ»»R%ÉúĀRP•P Ē Ā %F%QÇí I/O Ācç`»Tçĕ
Ā çđĀvĀđ CPU Ā^ĪŌ% ĪiĪ%Ē_ I/O ĀŌĪSĪ' ĪđĀñçĪĀđ»RĀé
Ē, Ī, ĀaŪŪĀĀĀŌ ISA ĪnĪađ÷Ç€çĪĀđĪpÇ Ēāđ»»TĀŌŪ đĬççB
Ē' Ā ĀSŊ ISA çuĀĒ 8-bit Ēā»R/I/O Ācç`ĀoŪĪĪŌĀđĪĒĀĪŌ÷Ç€
ĀŌĪpÇ Ēāđ»»TĀfĀXĒ' Ī, Ī' ĀiĀSđaĀŌ 16-bit ISA çuĀĪ%Āđ
ĒvĀŌĒ»Āē»RççŌiĪŌĀĪĀ I/O ĪpÇ Ēāđ»»TBIOS ŌSĪnÇaĀĒ 4
ISA clocks»TĀfĀXĒ_ĒēŌaÇaĪnĀĒ NA Ēā»RĪŌ% ĪiŊ"ĀŌĒā
Ū %çĪ 3.5 ĀŌĀđĪĒĒāĒu»T

Chipset Features à 16 Bit I/O Recovery Time

16 Bit I/O Recovery Time

1
2
3
4
NA

ĀŌŪ đĬççĪnĀS ISA çuĀĒ 16-bit Ēā»R I/O Ācç`ĀoŪĪĪŌĀđĪĒĒ
ĀiŌ÷Ç€ĀŌĪpÇ Ēāđ»»TĀfĀXĒ' Ī, Ī' ĀiĀSđaĀŌ 16-bit ISA çu
ĀĪ%ĀđĒvĀŌĒ»Āē»RççŌiĪŌĀĪĀ I/O ĪpÇ Ēāđ»»TBIOS ŌS
ĪnÇaĀĒ 1 ISA clocks»TĀfĀXĒ_ĒēŌaÇaĪnĀĒ NA Ēā»RĪŌ%
ĪiŊ"ĀŌĒāŪ %çĪ 3.5 ĀŌĀđĪĒĒāĒu»T

Chipset Features à Memory Hole At 15M-16M

Memory Hole At 15M-16M

Enabled
Disabled

ĀŌŪ đĬççĀ`ÉuĀđĒ`ŌēB ĒēĒ ĪŌĀ ĀSĀŌ ISA çuĀĒçē»RççŪñ
Ā`Ē`ŌēB Āđ×P»TĪŌ% ĪiççĒĒ,ĀŌĒēĒ ĒĪĀĀ×ĒĪçĒ ISA bus
đāŪ ŌĪĀĪĀŌŌ ĒāĀ^Ōē×i»TĪ,Ēq»RĀŌĒēĒ ĒĒ`ÉuĪŌ I/O çu
Ō ĒĒĒēçē»T

AWARD BIOS

Chipset Features à Passive Release

Passive Release	ÀÓÙ ÐĲzB È' ÈÈÂ PIIx4 ÎÓ% Ĭi (Intel PCI Ø Èİ ISA) ÄÖ
Enabled	ÍbÈaĐaÖÖzmÉu»TÀÖzmÉuÆ ÍbÄeZeÀsÄ†İèÓ[Ä ISA zUĐñÈa
Disabled	ÆÈ ½çÄİÜ »TÄfÄXÈ' ÄÖ ISA zUÄİ¼/ÆÈvÄÖÈ»Äe»R;z;zYÖÜ
	Òi;zYİnÄŠÄeÄ È »T

Chipset Features à Delayed Transaction

Delayed Transaction	ÀÓÙ ÐĲzB È' ÈÈÂ PIIx4 ÎÓ% Ĭi (Intel PCI to ISA
Enabled	bridge) ÄÖÄİÜ z Ä zmÉu»T;eÄ PCIÄÖÖ ÈaĐaÜ Ñ"¼ ISA
Disabled	bus Äð»RÄfÄXÈ' ÄÖ ISA zUÑ"Äİ¼/ÆÈvÄÖÈ»Äe»R;z;zYİnÄŠ
	ÄÖzmÉuß PCIÄÖĐaÜ Ò ÈaÄİÜ »T

Chipset Features à AGP Aperture Size (MB)

AGP Aperture Size (MB)	Í, ÇiĐĲzòZeÄİÄ^ÄŠ AGP Ò ÈaĐaÖÖÈeÈ ÄÖ%¼f»T
4	
8	
16	
32	
64	
128	
256	

Chipset Features à Pentium II Micro Codes

Pentium II Micro Codes	ÀÖ microcode Æ zèÄİÇñzÜ CPU ÄÖ bug»RÈ{ÈaÄoPÍÈ' Ü
Enabled	Øö Enabled»T¼/Ö]Çj È' ÄaÈ ÄİÖ ÈÄÄÖİ†Äñ»R;z;zYÄiÖ' Ü
Disabled	Øö Disabled»T

Chipset Features à Manufacture Frequency Default

Manufacture Frequency Default	Í, ÇiĐĲzòz~Æ zèÄİÈ' Ü CPU ÄÖÈ~zÜÜhİ%TÑ Đ"Ø ÈaÄ
Depends on the CPU type	¼f "Home" Üp»Rİ_N"ÄoİpÄ Ä Í, ÇiÜhİ%TÓŠİnÇaÆ 233
	Mhz»RÇÉÄ Bøİ, ÇiÇa»R;z;zYÄeZe flash.exe Í, Çi¼^Äyİ'
	À»»T

AWARD BIOS

Chipset Features à System Frequency

<u>System Frequency</u>	À0ĐİçòçèÂİ İñÃŠ CPU %Ōİ»Úhİ%»RÇj È' ÑbİñÆÉÁ`ÄÖÇâ»R çzçYÜ "Manual"»Rİ^Äû%ŰÁ` İñÃŠçY%ƒÄÖ "CPU Clock Frequency " %è "CPU Clock Ratio "»T
233 Mhz	
266 Mhz	
300 Mhz	
333 Mhz	
350 Mhz	
400 Mhz	
450 Mhz	
Manual	

Chipset Features à CPU Clock Frequency

<u>CPU Clock Frequency</u>	Í, ÇıÜ ĐİçèÂİ İñÃŠç•Úh (bus clock)»RçòÄVçÄÇÈ%h%ŠÆE Í„ÄÖ Klamath CPU Í½Æ çè 66.8 Mhz»TçYÄûÑ†ÄÖ CPU İñÃŠ% Ä Í½¼/ŰäÆöÄa»RÄi çY×èÈèØmÈ' ÄÖ CPU Ö»Ä Èè»T
66.8 Mhz	
68.5 Mhz	
75.0 Mhz	
83.3 Mhz	
100 Mhz	
103 Mhz	
112 Mhz	
133.3 Mhz	

Chipset Features à CPU Clock Ratio

<u>CPU Clock Ratio</u>	Intel Pentium II ÄÖ%Ōİ» (Èö%ü) Ōaç•Í» (Bus) Úhİ%ÄY%¼Æö Äa»Rİ, ÇıÜ ĐİççèÂİÄ ŠŠ Core/Bus ÄÖ% Äi »TÖŠİñÇâÆ 3.5x»T
1.5	
2.0	
2.5	
3.0	
3.5	
4.0	
4.5	
5.0	
5.5	
6.0	
6.5	
7.0	
7.5	
8.0	

AWARD BIOS

Power Management à PM Controlled by APM

PM Controlled by APM	ÀfÄXÜ Øö "Max Saving"»RĬ_zçYB Ä†İè%pĬĬÄDzDçÓ„Ń×Ôø
Yes	Ĭ' (APM) çmĬü»RçĬĬ{ÆóÓ„ÔøĬ' çmĬü»TĬĬÄf»XĬĬ% CPU %Ô
No	Ĭ»ĬäĬüÔSÄQ»T

Power Management à Video Off After

Video Off After	ÀÓÜ ĐĬçzĬnÄŠBççöØÓŃ"ÀsÀ ÔðÆóÓ„ÔĬÀ»%fY ÍÆÜYÓ »T
N/A	
Doze	
Standby	
Suspend	

Power Management à Doze Mode

Doze Mode	ÀÓÜ ĐĬçzB Ĭ' ĬnÄŠÄ†ĬèDz%[ÔèĬ%ÔĬÀ»ÄÔĬäD»»TÀsÀÓÜĬÀ»
Disabled	%f»RCPU ÄÔÔSÄQĬäĬüŃ"ßöÔT»TçĬÄ Ä†ĬèÆ ÀsĬ„Ó„ÄÆÔR
1 Min	%ç»RĬĬ çYĬÔĬ Ä ç Ä ĬäÄQĬä»RĬ'Ä"çùÄjÄ ĬpÄ çÜĬqÄÆÔR
2 Min	%f»TÄ†ĬèÆ ÜäçöÖäĬ IRQ ĬeÔÔÄĬĬÔĬ Æ»Ĭä»T
4 Min	
8 Min	
12 Min	
20 Min	
30 Min	
40 Min	
1 Hour	

AWARD BIOS

Power Management à Modem Wake Up

Modem Wake Up	Í‘ Ó] AOpen ÄÖÉdÈ ×^ò ÍnÇf»RÍ, Ð çUØ Ä`çzçYÀöÊäÊÖ
Enabled	Î ÖaØ6Ø ÄÖÊeð0»RÄYçzðxçè ATX Soft Power ÄöÊäÐ”
Disabled	Ø »RÍ, ÐÍçmÉúÄUËqØRÄi çèÄí Õi ÚÚÐäÉ`Ø ÖaÍÄÜ Ø »TÖaÐä

Ìè Green PC suspend mode ¼ÄaÄÖÆ »RÄíÌèçzçYÉ`çÜ
 Ý Ø (ÄaÜp¼ Ä»Æ ÚaÆuÖ,,Ñ»ÄèÚÍØÖÄÇÑÈÈÆ ÄpÈÈ¼ ÖS
 Úú)»Tç•ÈÌÄ»Äè»ÖÈÌÄ»ÖaØ6çu (AOpen MP56/F56) Í½çz
 çY¼pÍÄ modem ring-on ÄÖçmÉú»R¼Ø]ÄoÇæÄoPÍÈ‘ ØÄçzÉú
 ÈÐçè MP56/F56»RÄnÆ MP56/F56 ÄÍÉdÈ ÄÖÖ,,ð ÍnÇfçz
 çYÖaçUØ Ä`ÄÖÆ ÄÖÑwÈþ»RÑ ÄíÌèÝ Ø Èä»R¼Ä÷Ç€Ä çèÝS
 ç•ÄÖÖ,,Ñ»»T

Power Management à LAN Wake Up

LAN Wake Up	Í, ÇiÐÍçòçèÄí ÍnÄŠÆ ÄpÈi çè LAN Wake Up çmÉú»T
Enabled	
Disabled	

Power Management à Suspend Mode Option

Suspend Modem Option	çÖÄíÌèÍ½Äè¼fÄT»XÖð suspend ÕiÀ»RÄèÈ‘ È À ÄöÖ,,ÖoÍ‘
PowerOn Suspend	çmÉú»TÑ ÄíÌèÐz¼] Power On Suspend ÄöÖ,,ÕiÀ»Èä»R
Suspend to Disk	ÐäÌèÄÖ Green PC Ñ”BöÄÄÖaÈä¼¼¼ ÄÄÖR»RCPU ÈäÈüÈÈ¼

ÖSÜú»RÄi ÄÍÄÖÍnÍà¼nÍ½ ÍÆ»T¼ÄØ]ÄíÌèÑ”Ä`Ä Í,,Ö,,ÄÆ
 ÖR»RçYÄ\ÖaØ6Ø »SÜp×]»SÄèÑaÖÄÈÖÍ Ä ÄÈÈäÈä»RçzçYÈÄ
 ¼Ä ÍpÄ çÜËqÕiÀ»¼¼Tçç•RÖäÍ IRQ ÄÖÆ»Èä¼nçzçYB
 ÄíÌèÖaÈÈÖiÀ»Ä ÄoçÜËqÕiÀ»»TSuspend to Disk çzçYÄs
 ÖaÈäÝ Ø Äv»RÈ_ÄíÌèÄÄÖR»RÈ`ØeB Ä^ÜYÓ Ö%ÖÍÍçÜ<ÄíÄs
 ÍSÖe¼¼RÑ Ö,,Ñ»ÇÄÑíÐ”Èi Èä»RÄíÌèÍ_Ñ”Ä AoÄ È‘ Ç ç ¼
 ÄQÄÖÄÄÖR¼¼TÈ‘ çÌÖ÷Äéçè AOZVHDD ¼çèÍ’ Ä»ÄíÄ`Èü
 ÍSÖeÄBÐ»»T

Power Management à VGA Active Monitor

VGA Active Monitor	ÄÖÜ ÐÍçzÈÖÍ VGA BýçöØÖÄsÄöÖ,,ÄÄÖRÈäÄÖÈäÄQ»T
Enabled	
Disabled	

AWARD BIOS

Power Management à Power Button Override

Power Button Override	Í,Æ ACPI %ÄÖÍhÈ %Á%Q»TÑ Ù 0ö Enabled Èä»RÄv% ÇÈ
Enabled	Ä` %hÄÖ soft power switch çzçYçèÄiÈÈÄ ÄþÌeÐ"Ø »SÖäÈÈ
Disabled	(Suspend) ÄeÝ Ø »TÄsÐ"Ø ÄÖÄÄÖR%f»RÇj Ä %f switch»R
	çSÈäÐ»%ðÄ 4 Æ »RÄþÌeÄ\Ñ"Ðz%[Suspend ÖiÄ»»WÇj Ä
	%fÄÖÈäÐ»ÐhÓ] 4 Æ »R ÄþÌeÄ\Ñ"Ý Ø »TÖŠÍnÄÖÄÄÖR%fÆ
	Disabled»R soft power switch ç^ÉúçèÄiÐ"Ý Ø »RÄdÄÍ
	Suspend»RÄìçY%ñÄdÄÍ 4 Æ ÞÜÄÖÇÇÄ »T

Power Management à RTC Wake Up Timer

RTC Wake Up Timer	RTC WakeUp Timer çzçYB È' Ä ÄŠ%QÇiÉdÄŠÄÖ% ÎÜ/Èä
Enabled	Ð»»RÄþÌeÑ"ÄsÍ, ÇiÈäÐ»ÄöÈäÐ"Ø »TÍ, Çi% ÎÜ/ÈäÐ»Æ Äs "
Disabled	WakeUp Date (of Month)" %è "WakeUp Time
	(hh:mm:ss)" Ù Ðİ%Ä ÄŠÄÖ»T

Power Management à WakeUp Date (of Month)

WakeUp Date (of Month)	ÊþÄi "RTC WakeUp Timer" Ù ÐİÄéçè»RçèÄiÄ ÄŠÄTÇi%
0	%ÄÖÄ% %Q%è»TÄi Äf 15 ÎçÄ ÄTÇi% ÄÖÄÖ 15 ÖÖ»RÍnÆ 0
1	ÄyçÄ Ä ÄT%Q%è»T
.....	
31	



×èÄqÑ: È ÄÖÐİçòÍnÆ 0»RçzÄéÄþÌeÄT%èÄsÄa%Q
ÇiÈäÐ» (çzçè WakeUp Time Ä ÄŠ) ÄöÈäÐ"Ø »T

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

WakeUp Time (hh:mm:ss)	ÊþÄi "RTC WakeUp Timer" Ù ÐİÄéçè»RçèÄiÄ ÄŠÄöÈäÐ"
hh:mm:ss	Ø ÄÖÈäÐ»»TÄþÈ Ä»Æ hh:mm:ss»R×èÄqÑ_Äþ%Ä%ÄÄÄÖÄ
	çö% Ä»Æ 1 Ä 24»T

AWARD BIOS

PNP/PCI Configuration à Reset Configuration Data

Reset Configuration Data	ÀfÀXÈ' ÀiÀŠÒaÀŦ ISA çuAdÀÍ PnP çmÉú»RĬ_çĬĐÑÀ ĀŠ IRQ
Enabled	Āē»RĬ_çĬÈ_ÀÓŦ ĐĬĬnÆE Enabled»RĬ ĀĬĬèÇĀÑ†Æ ŦtĀŦĬ, çÇÆ»pĀŦŦ»
Disabled	ĀŠÑ†ĀŦ 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	ÀfÀXÈ' ÀiÀŠÒaÀŦ ISA çuAdÀÍ PnP çmÉú»RĬ_çĬĐÑÀ ĀŠ IRQ
Legacy ISA	Āi çpĬĬÀçĀŦçmÉú»TĬ, ĀaŦ ĐĬçzB È' ĀæĀāĀ ĀŠ IRQ ĬŦ
PCI/ISA PnP	Legacy ISA çuĀ^ PCI/ISA PnP çuĀéçè»TŦ È' Ā ĀŠÆççQ
	IRQ ÆE Legacy ISA Èā, ĀĬĬèÑ"Ĭ, ĀŦ PnP BIOS È_ĀiĬn
	ĀŦIRQ Ā`ÉuĬŦŦÀŠŦaÀŦ ISA çuĀéçè»TÈèŦaŦŦçĀÆ
	PCI/ISA PnP»RèĀqŦ_ĀĬĀā PCI çu (Ŧ ŦŦĀÆŦPCIçuĒ½ç)
	ĀŦŦŦŦŦçÇĀéçè IRQ»RĬ_çĬzĀ`ÉuĬŦ ISA çuĀéçè»T

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

DMA 0	ÀfÀXÈ' ÀiÀŠÒaÀŦ ISA çuAdÀÍ PnP çmÉú»RĬ_çĬĐÑÀ ĀŠ DMA Ĭ,,
Legacy ISA	ŦŦĀi çpĬĬÀçĀŦçmÉú»TĬ, ĀaŦ ĐĬçzB È' ĀæĀāĀ ĀŠ DMA Ĭ,,ŦŦĬŦ
PCI/ISA PnP	Legacy ISA çuĀ^ PCI/ISA PnP çuĀéçè»TŦ È' Ā ĀŠÆççQ DMA Ĭ,,
	ŦŦÆE Legacy ISA Èā»RĀĬĬèÑ"Ĭ, ĀŦ PnP BIOS È_ĀŦ DMA Ĭ,,ŦŦ
	Ā`ÉuĬŦŦÀŠŦaÀŦ ISA çuĀéçè»TÈèŦaŦŦçĀÆ PCI/ISA PnP»Rè
	ĀqŦ_ĀĬĀā PCI çuĀŦŦŦŦçÇĀéçè DMA Ĭ,,ŦŦ»RĬ_çĬzĀ`ÉuĬŦ ISA çu
	Āéçè»T

AWARD BIOS

PNP/PCI Configuration à PCI IDE IRQ Map To

PCI IDE IRQ Map To	
ISA	ÀÍ%QÀaò ÜÜÂÔ PCI IDE Üi¿c¿u%4¿pÎÃ PnP ¿mÉú»TÍ, Áá
PCI-Slot1	¿uÕ÷Ç€ÀŠòàÀsÁ ÁŠÄÖÜi¿cÖë%¿R%•ÉúB BIOS ÇÄÑ†ÆÔt
PCI-Slot2	PnP Ò Ñ×»TÄÖ¿mÉú%ÓÍnÈ‘ Û Øö PCI Î»ÖëÍÓ PCI IDE Üi
PCI-Slot3	¿c¿uÄé¿¿ÍnÄŠ Auto Ñ“ÀöÊäÆÔt%ŠÀŠòàÄÔ PCI -IDE I Üi
PCI-Slot4	¿c¿u»T
PCI-Auto	

PNP/PCI Configuration à Primary IDE INT#

PNP/PCI Configuration à Secondary IDE INT#

Primary IDE INT#	
A	Í, ÄüÇíÜ ĐĲ¿ÌĐÑÊ‡ “PCI IDE IRQ Map To” ĐĲ¿òÄé¿è»T
B	È‘ ¿Z¿YÄ ÁŠ IDE %¿ĲpÍÓ PCI IDE Üi¿c¿uÄÔ primary Ä^
C	secondary Í„ÓUÄé¿è»TÄT%QÇí PCI Î»ÖëÍ%ÄÍ¿“Çí PCI %¿
D	Ûp¿ZÍbÄ ÁŠ »TÈ‘ ¿ÌĐÑ¿ ÍnÄŠ "PCI IDE IRQ Map To" Äi
	Äé¿èÄÖÎ»Öë»RÄRÄaÄÓÄ ÁŠPCI%¿ĲpÍÓÄi ÁŠòàÄÖÜi¿c¿uÄé
	¿è»T

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	ÀÓÜ ĐĲ¿ÌĐÑÊ‡Äi "Used MEM Length" ĐĲ¿òÄé¿è»TÄfÄX
C800	È‘ Äi ÁŠòàÄÖ ISA ¿uÄdÄÍ PnP ¿mÉú»RÎ¿ÌĐÑÄ ÁŠÈ`ØëB
CC00	ÈvĐ„Äi %¿pÎÃ¿ÄÄÖ¿mÉú»RÄi ÀÓÜ ĐĲÄy¿ZÄ ÁŠÍbÄ`ÉuÄÖÈ`Øë
D000	B ÄBĐ»Đ”Ä}Ä Ä”»T
D400	
D800	
DC00	

AWARD BIOS

PNP/PCI Configuration à Used MEM Length

Used MEM Length	
8K	ÀfÄXË' ÄiÄŠðàÄÖ ISA çuÄdÄÍ PnP çmÉú»RÎ_çÌðÑÄ ÄŠË`
16K	Øeß Èvð„Äi%pÎÄçÄÄÖçmÉú»TÀÓÙ ðÏçzÍnÄŠÄiÖ÷Ç€Ë`Øeß
32K	Èvð„»RÄÝÍ„ÄØ PnP BIOS È_È`Øeß ÄBð»Ä`ÉuÍÓÄiÄŠðà
64K	ISA çuÄéçè»T

PNP/PCI Configuration à PCI Slot1 IRQ (Right)

PNP/PCI Configuration à PCI Slot2 IRQ

PNP/PCI Configuration à PCI Slot3 IRQ

PNP/PCI Configuration à PCI Slot4 IRQ (Left)

PCI Slot1 IRQ	
3	Í, ÇiðÏçòçzçYB È' çY%üÊäÄÖ% Ä»ÎnÄŠÄT%Qð PCI Ä çl
4	çuÄÖ IRQ Çà»TÇj Û Øö Auto»RÄ†ÎeÎ_Ñ"ÀöÊä%ÄÆçzçèÄÖ
5	Çà»T
7	Cj ÄdÄÍÉdÄ`ÄÖÇ Än»RÄòPÍË' ÍæÄÄéçèÓŠÍnÇà Auto»T
9	
10	
11	
12	
14	
15	
Auto	

3.7 Load Setup Defaults

A0U D1AY3/4A1/E, E 1aAŠ; A0A†1e1nAŠ»RAi;YQj A†1eI, ;c3/4YČAŠA0AÄf»RE' ;z;Y;è
 3u1EÄA0% A»As "BIOS Features Setup" Ä^ "Chipset Features Setup" Ü D13/4R1nAŠ
 0 0TÄ^0 YČAŠA0I1nAŠ»T

A0U Df_z0 %A+T BIOS ROM %D EAEPI%AOOSInCa`Ti, AAd %A AOOSInCaN`OBeAi
AI AO Setup Df_o»REI%WONeNAO CMOS InAS_ZY.»TEAEPI%AOfnASCaO AtLeAiAzZ
Eu%IE AeAOInASCa»RAfAXE`AOE`ObB EvD,,%R%AdAIASoaAoAyUi c_u»RI_zz
ZYai O`AO DIInAS`T

E`n_zz_Yz«uEA0% AAs "BIOS Features Setup" AA "Chipset Features Setup" U
DIAnASEoCa»B AtLeU E, A AEAOE A EPi%F40JE`CZ URoeAiAI AOUDf_inEU»R
AnEEAIAtInASCaAelO% IiAUl exui %Aa>R_ziI/E4 3% A 10% AOE A EPi%T

AWARD BIOS

3.9 Integrated Peripherals

ÀfÄXÀs¿UÙ Í %¼ Øö “Integrated Peripherals” ÐĬ¿ò»RÁjÑ“ÀsÙÝÓ %hBy¿öÀf%Ĭv ÇĚ»X

ROM PCI/ISA BIOS (00000006) INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.	
IDE HDD Block Mode : Disabled	Onboard IR Controller : Disabled
IDE Primary Master UDMA : Disabled	
IDE Primary Slave UDMA : Disabled	
IDE Secondary Master UDMA: Disabled	
IDE Secondary Slave UDMA: Disabled	
On-Chip Primary PCI IDE: Disabled	
On-Chip Secondary PCI IDE: Disabled	
USB Legacy Support : Disabled	
USB IRQ Released : Yes	
Onboard FDC Controller : Disabled	
Onboard Serial Port 1 : Disabled	ESC : Quit ↑↓←→ : Select Item
Onboard Serial Port 2 : Disabled	F1 : Help PU/PD/+/- : Modify
Onboard Parallel Port : Disabled	F5 : Old Values (Shift)F2 : Color
	F6 : Load Setup Defaults
	F7 : Load Turbo Defaults

Integrated Peripherals à IDE HDD Block Mode

IDE HDD Block Mode	ÀÓÐĬ¿ò¿zĬnÃŠĬŠÖē¿YÀyÖēĚē¼ À»ÐaĚvØ Èa»RÁY¿zÈ Ê%ÂT
Enabled	ÇiÖēÖēÄÖ¾¼ĬpĬSĬ‘ ÈaÐ»»T¾Ĭ¿¿ ÄÖ IDE ĬŠÖēĬ½¿z¾pĬÄÄÖ
Disabled	ÐĬ¿mĚu»RĚ½¼WØ ÀÇĚÜ¿iÄÖĬŠÖē¿zĚuÂdÄĬĬnc¿fAÖÖoÐaÜ Õi
	À»»T

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

IDE Primary Master UDMA

Auto
 Disabled

ÀfÄXÄSöaÀs IDE Í†ËÏØØ%hÄÖ IDE ÍŠÖeÄÍ%pIÄ UDMA Öi
 À»»RçzË ËëÖaInÆ Auto»RçYËi Êa Ultra DMA/33 ÊÄÍ†Đa
 Û ÖiÀ»»T

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

On-Chip Primary PCI IDE

Enabled
 Disabled

ÀÖÙ ĐİçzÍnÄŠÄeÄ È Í†ËÏÀs primary IDE Í†ËÏØØ%hÄÖ
 IDE ÍnIä»T

Integrated Peripherals à USB Legacy Support

USB Legacy Support

Enabled
 Disabled

ÀÖÙ ĐİçzÍnÄŠÄeÄ È USB Ûp×]ÄÖBi ÊaI' À»»TÀfÄXNßÇÈ
 Äeçè USB Ûp×]»R%dlÄlIÖRÀi ÄÖBi ÊaI' À»»RçzË ËëÖaIn
 Æ Enabled»TÀÖÙp×]Bi ÊaI' À»»ÖÄöÀs BIOS %Ö»RçzÖi ÚÚ
 ĐaIèÛp×]Äcç`»RÄYçSÄsĐ"Ø È À POST Ý' ÁaÊaEi Êa
 USB Ûp×]çnÉú»TËëÖaÖSÍnÇaÆ Disabled»T



×e%f%û: ×e%4ÇeÄaÊaÄeçè USB ÍnIäÄ^ USB ĐaIè
 Ûp×]»TÀfÄXÄQÑ•Ä†Iè%ŠÄSöaUSBBi ÊaI' À»»R×eÄ
 È "USB Legacy Support" çnÉú»T

Integrated Peripherals à USB IRQ Released

USB IRQ Released

Yes
 No

USB ÍnIäÄÖ INTD# Öa PCI slot4 ÆÄa»TÀfÄXÄs slot4 %h
 ÄSöa PCI çw»RÄYÇeÄeçè INTD# È»R×eË ËëÖaInÆYes»R
 ÁjÑ"Ä È USB ÍnIäÄiÀ çèÄÖ INTD# (%4ÛpÄ Á)»T



×eÄqÑ_: %QÉ ÄiÖ»»PCI VGA çu%4Ö÷çèÄ PCI %4Ûp»R
 È' çzçYÄü PCI VGA çuI»Às slot4»T

AWARD BIOS

Integrated Peripherals à Onboard FDC Controller

Onboard FDC Controller

Enabled
Disabled

ÀÓÙ ÐĲĲİİnĀŠİ€À»ÔēÔēØ ÄÔİmÉú»TÀfĀXÑbĀēĲēĲ•ËİĀ»ÄÔ
ËËĀ Ĳu»R×ēË_Û ÐĲİİnÆ Disabled»TËËÖàÓŠİİnÇàÆ
Enabled»RĲzß ÔēÔēØ ĲÛËqÓŠÁQ»T

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 ÐĲĲzĀ ĀŠĲUØ Ā`%hĀÖÀ ĀTİ†ËËØÖÀ Ā"Ā^%4p»TÖŠİİn
ÇàÆ Auto»T



×ēĀqÑ_: ĀfĀXË'ĀİĀēĲēÔ Ò Ĳu»R×ē×ēĀŠ%4pÀ Ā"
ÖaĀpĲĀÖÖİİnİāĀË%4p×p»T

Integrated Peripherals à Onboard Parallel Port

Onboard Parallel Port

3BC/IRQ7
378/IRQ7
278/IRQ5
Disabled

Í, ÇİÛ ÐĲĲzĲYËËĀ %ÖĀòĲÇÀ Ê ÄÖÀ Ā"Öa%4p»T

AWARD BIOS

Integrated Peripherals à Parallel Port Mode

Parallel Port Mode	ÀÓĐĬ Ķò ĶzB Ē' Ā ĀŠĀYĀTÊ ĶYĀ ŌòŌŌÁQŌi Ā»Āi ĐáŨ Ò
SPP	Èà»TÊÈŌàŌŠĬnÇàÆ Normal , %nĬ_Æ SPP (Stand Parallel
EPP	Port) Ōi Ā»»RÆ IBM AT Ā^ PS/2 ÆÈvŌi Ā»»RĶz%ŌĬmĀYĀT
ECP	Ê ĀsĬ ĀgŌi Ā»%fĶYĶÛÈqĬ†ĀñŌŌÁQ»TEPP (Enhanced
ECP + EPP	Parallel Port) Ōi Ā»»R%ŌĬmĀYĀTÊ ĀsŬ ĀgŌi Ā»%fĶYĬa%Ĭ†
	ĀñŌŌÁQ»TECP (Extended Parallel Port) Ōi Ā»»R%ĬaÈĀĬ†
	ĀñĀ ĀđĀŌŬ ĀgĀYĀTÊ ŌŌÁQ»RÆ ĶY DMA Ā^ RLE (Run
	Length Encoded) ŬĬĬjĀ^ŌeŬĬĬjĀŌ% Ā»Āi ĐáŨ Ò Èà»T

Integrated Peripherals à Onboard IR Controller

Onboard IR Controller	Èi ĶèĀeY ĬÆĬR (Æ Ķ•×^) ÈÈĀ ŌŌ»T
Enable	
Disable	

Integrated Peripherals à IR Address Selection

IR Address Selection	ĶèĀĬŬ ŌŌ ĬR ÈÈĀ ŌŌĀŌĀ Ā»»T
2E0H	
2E8H	
2F8H	
3E0H	
3E8H	
3F8H	

Integrated Peripherals à IR Mode

IR Mode	ÀŌŬ ĐĬĶzĶYĀ ĀŠÆ Ķ•×^ĐáŨ ĀŌŌi Ā»»T
ASKIR	
IrDA	

- IrDA - ĬnĀŠ serial port 2 ĀŌŌŌÁQÆĶÛÈqŌi Ā»»RĀŌŬ ĐĬ%ñÆ ÈÈŌàŌŠĬnÇà»T
- ASKIR - ĀfĀXĀsŌ,Ō%ĀŌ ĬrDA Ĭ†ÈĬŌŌ%Ĥ%ŠĀŠŌa%WE Ķ•×^ÈĬĀŌŌ (ĬrDA)»RĬ_Ķz ĶYĀeĶèĀŌŬ ĐĬ»RĬ, ŌòĬnĀŠĶzĐáÈvĀ ĀTÊeÈĀŌW19.2K ĀzÈđ»T

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Integrated Peripherals à IR IRQ Select

IR IRQ Selection
IRQ3
IRQ4
IRQ10
IRQ11

¿èÁíÙ Øö IR ÐáÙ Ê ÄÖ IRQ»T



×éÄqÑ: Cj È' ÁÍÄŠÖaÖ Ò ¿u»R×é×eÖ' IRQ ÄdÄÍÆ
×pÆ »T

3.10 Password Setting

Ë\×i ÍnÄŠ¿zÜñÁ\¿]¼¿¿ÖÖxËÜB%»SÄíØiÀöÄé¿èË' ÄÖÖ,,Ö¼»TÄfÄXÍnÄŠÄ€Ë\×i»RÄ†ìèÑ"
ÄsÄTÄÖÐ"Ø ÄèÐz¼BIOS¼¿¿¿¿' Ä»Eä»R¿i Ì' ¼QÇíÍ¼¿¿öÌBÖÖ»RÇ€ÄUË' Ü ¼¿¿¿Ü×eÄÖË\
×i»T

ÍnÄŠË\×i »X

1. ÄsÍ¼¿¿öÌBÖÖ¼¿¿RÜp¼¿Íäy 8 ÇíÄ...¿ÖÄÖË\×i»RË' Äi Üp¼ÄÖÄ...¿ÖÄsÜYÓ ¼¿¿¿¿¿"¿¿
Ì' ÄaÖÖ»T
2. Üp¼¿Ë\×iÄü, ×éÄ Enter Üp»T
3. ËÍÏö¼dÑ"¿¿i Ì' Í¼¿¿öÌBÖÖ»R×eÄRÜp¼¿¼QÄÖË\×i»R¿Y×eÖ' Ë\×iÄÖ¿Ü×eÄä»TÄ Enter
Üp»RÄjÑ"Ä×ËÍÄoÄ ¿Üí¿Ë»T

ÄfÄXÇ€Ä È ¼¿ÍnÄŠÄÖË\×i»R×eÄs¿¿i Ì' Ü ¼¿Ë\×iÄÖÍ¼¿¿öÌBÖÖÄü»RÄ×ËÍÄ Enter Üp»R
ÍvÇË¼ÄÍ_N"¿¿i Ì' ¼QÇíËeÄÄzÐUË' Ë\×i¼ŠÍbÄ È »T

3.11 IDE HDD Auto Detection

ÄÖ¿mÉú¿¿¿YÄöËäÊÖÎ IDE ÍŠÖeÄÖÄÆÖR»RÄYË ÊÖÎ Ä ÄÖËeÖaÇaÐaÄ "Standard
CMOS Setup" ÄÖ "Hard Disk" Ü ÐÍ¼¿¿TÄÍÄa IDE ÍŠÖe¿¿pÍÄÄyÍiÄÖËeÖaÍnÄŠ»RÄf
ÄXË' ÄÖÍŠÖe¼¿¿R¿¿¿, ÄaÄöËäÊÖÎ Ä ÄÖËeÖaÇa»R×eÜ N ¼¿¿¿€Äé¿¿¿Ä¿»RÄYÐz¼¿
"Standard CMOS Setup" Ü ÐÍ¼¿¿Üp¼¿¿¿Ü×eÄÖËeÖaÇa»T

AWARD BIOS

3.12 Save & Exit Setup

ÀÓÙ ÐÏÑ "ÀsË' Ü Ð" Setup %KçèÏ' À»Àv»RÀöÊäÚ<À†AiÀÍÃÖ CMOS Çà»T

3.13 Load EEPROM Default

Ê¼W"Load Setup Default" Õa "Load Turbo Default" %Áç•»RË' %nçzçYË_Àö¼ÃÖÍnÃŠ ÇàÀ†¼ EEPROM %¼RÃÝÁbçèÀÓÙ ÐÏÇÃÑ†Ö %¼»T

3.14 Save EEPROM Default

ÀÓÙ ÐÏçzË_Ë' Àö¼ÃÖÍnÃŠÇàÀ†¼ EEPROM %¼R¼ ÅúÇj CMOS Ò ÈaÙ ç¼ÀeË' ÀeËÖ ÄfÀ Ç ç ÍnÃŠÈa»RçzÜáçè¼hÇ' ÃÖ "Load EEPROM DEFAULT" ÇÃÑ†Ö %¼»T

3.15 Exit without Saving

Ü Ð" Setup %KçèÏ' À»»RÀ %ÄÑ"Ú<À†Á Á ÓJÃÖ CMOS Çà»TÀfÄXË' ÇËÚ<À†Ñ†ÃÖÍnÃŠ Çà»R<è¼ÇËÄéçèÀÓÙ ÐÏ»T

3.16 NCR SCSI BIOS and Drivers

NCR 53C810 SCSI BIOS %QÖaËq0€ÀsÆÀaÃÖÄöË' Ê`0eB ÍÖ¼ %¼RÑ ÅÅÄ†Ëè BIOS Äéç`T€ÄéçèÄ' %hÃÖ NCR BIOS»Ë' çÏÐç ÀsÄ†Ëè¼BÄSÖa¼Q¼ NCR 53C810 SCSI ÈÈÄ çu»T

ÄiÄÍÄSÖaÄ Ä†Ëè¼ÃÖ SCSI ÍnÍà»RÍ¼F Ö=ÇËÍ€B BiËäÏ' À»»TNCR SCSI BIOS çzÄ× ÈÏÄs DOS %F¼pÍÄ SCSI ÍŠÀ»ÖéÖè0 »RWindows %e OS/2»T%nçzçYÁbçè NCR 53C810 SCSI ÈÈÄ çuÄiÄ ÄÖÍ€À»ÖéÖè0 BiËäÏ' À»»RçY DOS È À»%e SCO UNIX È À»ÄiÄéçèÍ€À»ÖéÖè0 »IDOS È À»ÄÖBiËäÏ' À»%ÄÄ SCSI ÍnÍà»RË çzçYçèÀs DOS»R Windows NT»Novell NetWare %e OS/2»TÄi SCO UNIX È À»ÄÖBiËäÏ' À»%ÄÄ SCSI ÍnÍà»RçzçèÄ SCO UNIX»TÍ, ÄaBiËäÏ' À»% çèÄ×ËÏ BIOS Äi %pÍÄÄÖÈPÉúÜöÈÄ»T

AWARD BIOS

Ç€ÂéçèBiÊäÏ'À»»RÊ'çÌDÑĚ_Í, ÂáÍ'À»ÀŠŌáÂ Â†İēİŠĚ»ŌēŌēŌ ¼¼»RÂÝçSĚ_¼ÁçlÂ Ě' ÂŌÂ†İēİnÂŠŪá¼¼»TÂŏÂ ŌİİİÂŠŌá¼ Â|»R×ēÆ=Í, ÂáBiÊäÏ'À»ÂİÂ ÂŌ README ŪāĚñ ¼¼»ÂŌŌ»Â »T

3.17 BIOS Û_Û ¼^Âý

çYÁŌÂŌçUŌ Â'Í¼ÆĚ BIOS Â Ąs¼QŌŏŌŏÆĚ EPROM ÂŌĚ`ŌēB ¼¼»Ĥ Ō=Ç€Á Ñ† BIOS ÂŌĚāÇİ»RçÌDÑĚēçēĚ EPROM Û_Û ŌŌ»RÂİçY¼QĚ ÂéçèĚāĚÝİ|Ě|ÂŏÂ Â Ñ† BIOS»T ÂİÑ†¼Qç_ÂŌçUŌ Â`¼Šİ¼ŌçÁ çè Flash ROM ÂİÛ<À† BIOS»RÂpÛ^ŪZĚĚ ÂéçèĚāçç^Ç€ Í'Ō|¼^Âýİ'À»»RÂ\çZĚĚ Â Ñ†Ñ†ĚĚÂŌ BIOS»RÂŪĚq¼ Â\»T

Â Ñ† BIOS ÂŌçŏÂŌĚĚ Î¼ÆēÑ†ÂŌçmĚū»RĚè¼pĬĚ¼QĚĚ¼hÑ†ĚŪçİiÂŌİŠB »TĚ'çZĚé çè BIOS Û_Û İ'À»ÂİÂ Ñ† BIOS ÂŌĚĚçŌ»RÇ€Ě Ě, ÍæÑ†ÂŌ BIOS ŪāĚñŏāÛ_Û İ'À»»R ×ēÆ¼DuĚ'ÂŌŌxŌāĚİ»RĚĚæ¼nçZçYBz¼[ÂŏÇæĚŌŌ ĚŌ (<http://www.aopen.com.tw>) ¼F Ō (download)»TÛ_Û Âv×ē×ēĚŠĚ'ÂİÂ Ě, ÂŌ BIOS ŪāĚñÆ çÛ×ēÂŌĚĚçŌ»R¼QĚ ÂİŌ»»R Ě'çZçYĚ,, ŪāĚñĚĚŌŏÂİĚĚĚp»TÂİĚf»Xçj ŪāĚñÆ AP5TR110.BIN»Rç_ç_Ě Í, Æ AP5T çU Ō ÂĚÂŌ BIOS»RÂpĚĚçŌĚ 1.10»T

Âŏ ÇæĚQ Î¼ĚĚ ¼WĚū Çİ ¼^Âý İ'À» »X CHECKSUM.EXE ¼ē AOpen Û_Û İ'À» AOFLASH.EXE»TĚéçè¼ Â|×ēĚēĚİ çY¼FĚŌĚĚĚ[»X

[CHECKSUM.EXE]

Í, Çİ¼^Âýİ'À»çZçYŪĚĚ'×ēŌ'¼FŌ ÂŌ BIOS ŪāĚñ chechsum Æ ÁpçÛ×e»T

1. ×ēĚ Â CHECKSUM Biosfile.bin
Biosfile.bin Â ÂŌÆ BIOS ŪāĚñÂŌĚĚŏŏ (Ěf AP5TR110.BIN)»T
2. İ'À»Ñ"ßýçŏ "Checksum is ssss"»T
3. ×ē¼ Ō Ç ¼ĚĚĚĚ AOpen Ō ĚŌĚĚ BBS ¼hĚŌ checksum "sss"»RĚ=Æ=Æ ÁpçÛ×e»T
ĚfĚX¼ççÛ×ēĚŌŌŏ»R×ē¼BĚ Â Û_Û ÂŌĚĚĚQ»RÂÝÇĚĚÑ†¼FŌ ¼QĚĚ»T

[AOFLASH.EXE]

Ě Â CHECKSUM İ|Ō•Ěŏ»RÂ\çZçYĚéçè AOFLASH.EXE ÂİÛ_Û Ñ†ĚĚÂŌ BIOS ¼W»T Í, ÇİÛ_Û İ'À»Ñ"ç ŪāĚñçUŌ Â`¼ē Super/Ultra I/O IC ÂŌĚĚŌŏ»RçY×ēĚ` BIOS ŪāĚñÆ çÛ×ēĚŌ»T×ēĚqÑ_»XÛ_Û ÁŌĚĚĚū»RÇ BIOS Ě_Ñ"ÍbŪēŌmĚŌ»T

1. çē A ŌēŌēçY DOS Đ"Ō ¼ Đ"Ō »RÂÝçS×ē¼BĚ Â ĚfŌŏĚ`ŌēB Ōŏİ'İ'À» (Ěf HIMEM»S EMM386»SQEMM386, ...)»T
2. ×ēĚ Â AOFLASH Biosfile.bin

AWARD BIOS

Biosfile.bin Å ÄÖÆ BIOS ÚaÈñÄÖÀhÖö (Àf AP5TR110.BIN)»T

3. ÀsÖ %[Ñ†ÄÖ BIOS ÚaÈñÄö»RÍ' À»Ñ"Ê÷Ê' Æ ÁpÇ€È_ÜÜÄÄÄÖ BIOS À†Ä ÔéÖe%»R×é
Ù Øö "Y" È_ÄpÄ†ÆE "BIOS.OLD"»T
4. Ú<À†ÜÜÄÄ BIOS ÁÖÍÄÄö»R×éÄ %f "Y" Ð"Ä}ÐzÄ Ù_Ù »T
5. ÀsÜ_Ù ÓJÍ' %»RÜYÓ Ñ"Byö%QÄ "FLASHING" ÄÖÈeÄÄ (Ü_Ù %»RÄÖÈä%uÖf%
¿ZY Ø »T
6. Às "FLASHING" ÈeÄÄÈ ¿Äö»R×éY ÍÄÖ,,Ñ×ÄYÇÄÑ†Ð"Ø »T
7. Ð"Ø ÄöÄ %f "DEL" ÜpÐz% BIOS Setup ÍvÇÈ»T
8. ÇÄÑ†Ü ÄŠ "BIOS SETUP DEFAULT" Ù ÐÍ»RÈ_Ä†ÌeÍnÄŠÄsÍæYÇÄŠÄÖÄÄÖR»WÄè
ÄæÈ' %n¿z¿Y×iØyÄÄÇ ¿ ÄÖÍnÄŠÇä»T
9. Ù Øö "Save & Exit"»RÄ ÄÖÍ_%¿¿mÁzÄÄÈi»Z



ÐÍ Äz: ×é %Ç€ÀsÜ_Ù ÓJÍ' % (Í_Æ Ñ ÜYÓ %Byö
"FLASHING" Èä) Y Ø »T ÀfÄXÄdÄÍÜ_Ù ÄÖÄÄÍ_Y Ø »RÄ†
ÌeÈ_ÍJÄ|ÇÄÑ†ÈiÈä»RÈ' Í_¿ÌÐÑÄ ÍÄ BIOS Flash ROM
%ÄT



Í½ö: È' %n¿z¿YÄæÍqÄaÖaÄÖÍ' Ää»R È_ÜÜÄÄÄÖ BIOS
"BIOS.OLD" ÖxÄo»T