

İP³XÍÓ İŞB ÀŠÒà

ç0Í0Ě_çYİqÁa0çDzÄ0% À»R0»Ä ÀfÀ ÀŠ0aĚ'Ä0Ä†İè»R×è×e0 ÄæÑíÍ, ÄáÄSa[ÄíÄŠ
0ä»T



×è¼f%ü: ESD (Electrostatic Discharge) ÄĚÚcÓ,,Ä
Ó,,¼ÄÑ_»RçèÄ Ü€B Ó,,0 (IC) ÄöEvÄ Ä Ä ÚcÓ,,Ña
ÚÍÄ00%Be»RÄnÄ0Ñ"ÄéÑ|ÍŠİ'00»R0é0è0 »RÜiçc
çu¾eÄpç]Ä00†ç Ä Ä ÐaEq»TÆ¾W0ŠA0ÚcÓ,,Ä Ó,
ÄíÑ}Ýrİ0% »R×èÜ ÄÆ¼fATÄ00ŠA0Ě0ÄZ»X

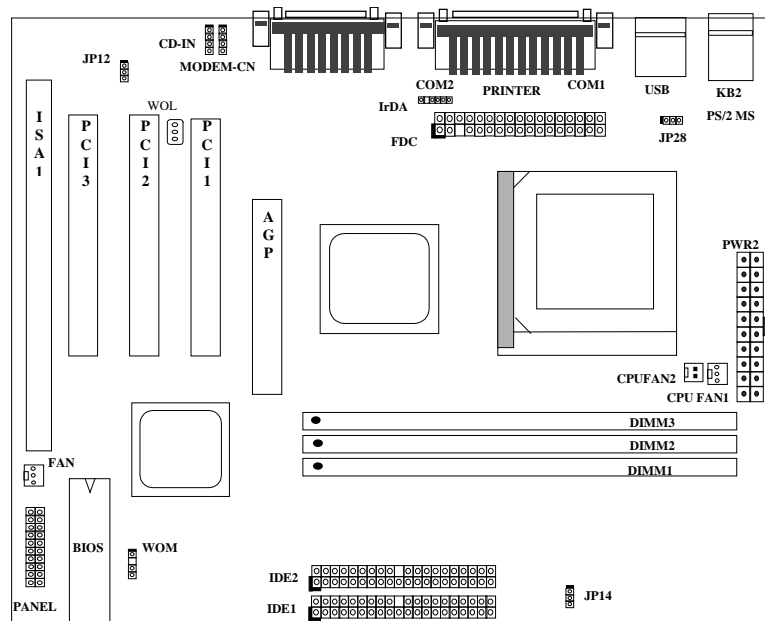
1. È¼ÄÜĚ'¾ŠÑaÍàÀ€Ç€Ð"Ä}ÄŠ0a0†ç »RÄpÄy¾uðf
¾¼Ç€Ě_0†ç ÄöÄ0ÚcÓ,,çn0ä¾¾Ä çi»T

2. ÄsĚ' ÄŠ0a0†ç Èä»RÍæÀ€Ěr¾hÄÍĚİÄr×^Ä0¾ü
Ü »R¾[Í»ç Ä00,,¾¼0†ç Ä Í¼ÄÍÄs× »TÄfÄXÄdÄÍ
¾üÜ »R×èÄéçèç Ä çzçYÄ0% ÚcÓ,,Ä0İÜç_Ä•»RÄí
0aÄ†İè0†ç ¾eçU0 Ä`Ěİpİ»T

İŞB ÅŠÒà

2.1 Jumper ÕaËİÚj ÄÔÀ Ò~

¿Y%F Æ¿U0 Ä`¼Jumper Ä^ ËİÚj (connector) ÄÔË¿Ò~ Óé»X



İŞB ÅŠ0à

Jumpers:

JP12:	Èi ç è/Ý ÍÆ%ÔÀoÇİÈPÎÓ%
JP14:	Ì ^ È%CMOS
JP28:	Ûp×]/ÑaÓÁÐ"Ø

ËİÚj :

PS2:	PS/2 ÑaÓÁËİÚj
KB:	PS/2 Ûp×] ËİÚj
COM1:	COM1 ËİÚj
COM2:	COM2 ËİÚj
PRINTER:	À] Ä Ø ËİÚj
PWR2:	ATX Ó „Ñ×ËİÚj
USB:	USB ËİÚj
FDC:	Floppy drive ËİÚj
IDE1:	ÌP%QÌi IDE Í†ËİÚj
IDE2:	ÌP%XÌi IDE Í†ËİÚj
CPUFAN1:	CPU ÇÑÈÈËİÚj
CDUFAN2:	CPU ÇÑÈÈËİÚj
FAN:	Ø ÎuÇÑÈÈËİÚj
IrDA:	IrDA (Æ ç •×^) ËİÚj
PANEL:	Åv% ÇÈÄ` Å ÛpÓaÛ` òÓÍ†ËİÚj
CD-IN:	CDROM ÇİÑ××^ËİÚj
MODEM-CN:	Mono in (Pin 1-2) Óa Mic out (Pin 3-4)
WOM:	0V Wake On ModemËİÚj
WOL:	Wake On LAN ËİÚj

İŞB AŞÖa

2.2 Jumpers

İ, D ÇUØ Ä`Æ ÈPçèİ jumper İncf»RÈu%QÄÖ jumper Æ İ`È CMOS»RÄpçUÇÈÆ Çè Ä ÄeÈ`È\`xi ÄÖEäÇi»T

2.2.1 Ü Â CPU Úhİ%

İ, D ÇUØ Ä` ÇÇYÄöEäÈÖİ CPU Ö,Ü%»R ÄYÇSÇZYB È`Äs CMOS setup %ÄİmÄŞ CPU Úhİ%»RÄİİ]DNÄéçèÄ jumper»Tçç•»R%vçYÍ`Ó] %ÄYÍ`Ä»RÈ_çÜxeÄÖ CPU ò ÈeÈ` Ü Â EEPROM %Ä»TÄfÄÖ%QÄİ»RÖf%Q MOS Ü Ç %ÄW»RÈ`İ_ %ÄçèÖü%ÄÇÄİn CPU Ö,Ü`Eäçi %ÄEÜ »R%Ä%çIÄÉChÄÖçID"Ö,Ö%Ø İüÜaİ CPU ÖöY %ÄW»TÄİİ, %ÄE %QÉ ÈPçèİ jumper İncfÄÖ Pentium ÇUØ Ä` ÇUÇÈÄÖÈ÷YU»T

İmÄŞ CPU Úhİ%ÄÖ% Ä|Æ »X

BOIS Setup à Chipset Features Setup à CPU Clock Frequency

(ÇZüÄÖİmÄŞÇâÄİ 66.8, 68.5, 75, 83.3 MHz)

BOIS Setup à Chipset Features Setup à CPU Clock Ratio

(ÇZüÄÖİmÄŞÇâÄİ 1.5x, 2x, 2.5x, 3x, 3.5x, 4x, 4.5x, 5x, 5.5x, 6x, 6.5x, 7x, 7.5x, 8x)

CPU %Öİ»Úhİ%= ÇÜÜh% x Ç•Úh

INTEL Celeron PPGA	CPU %Öİ»Úhİ%	ÇÜÜh%	Ç•Úh
Celeron PPGA 300	300MHz=	4.5x	66MHz
Celeron PPGA 333	333MHz=	5x	66MHz
Celeron PPGA 366	366MHz=	5.5x	66MHz
Celeron PPGA 400	400MHz=	6x	66MHz
Celeron PPGA 433	433MHz=	6.5x	66MHz



PİAz: INTEL 440LX İÖ% İyİæÄçz%pİÄ 66MHz CPU Ç•Úh»RÄpØ}Dä Äe%Öİ»İ Öyçè»Tİ, ÄäİnÄŞÇâ%ŞDhçiİÖ% İyÄÖİhÈ »RçZÈüN"Ö ÄçİeİÇ ÄÄN}Èq»T

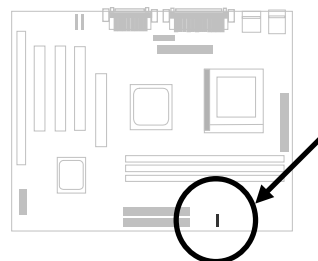
2.2.2 CPU Ó„Ú½

çŒçU0 Ä` %pİÄCeleron PPGA VID çŒú»RçzÀõÊäÊÖİ CPU Èð%üÓ„Ú½»RÂp×uİ Às 1.3V Å 2.05V %ÄD»»T

2.2.3 İ^Ê½CMOS

JP14	İ^Ê½CMOS
1-2	çŒÊç»Äf (ÖŠİn)
2-3	İ^Ê½CMOS

ÀfÄXË' ÄeÊ` Äi İmÅA0ÄİİèÈ\×i Èä»RçİDŒç È_ [aBEİİmÆİC>D»Rİ^ È¹ÄYÇÄİnT^` dİÄÖİmÅŞçä Äü»R%•ÉüÇÄŒİD"Ø »T



JP14



çŒÊç»Äf (ÖŠİn)

JP14



İ^Ê½CMOS

İ^Ê½CMOS ÄÖİ' Äá:

1. Ý İÄİİèÖ„Œ×»T
2. ÄoËÖ PWR2 %ÄÄÖATX Ó„Œ××^»T
3. Äpçİ JP14 Äi ÅsÄÖÀ Ò~»RË_D ×ÄİfÖÄ %fÄİ»RÄ È^Ä-3 Ö"Ä %Ä»T
4. %QŒÄüÈäD»Äü»RÄ %fD ×ÄİfÖÄÄŒİÈ^ ÄoÄ 1-2 Ö"Ä %Ä»RÄ İpÄÄÇ ÄiÄÖÄÆ ÖR»T
5. È_ATX Ó„Œ××^ËİÄo PWR2»T
6. ÇÄŒİçİD"Ö„Ö½Ö„Œ×»T
7. ÀfÄXŒbÇİİmÅŞŒİÄÖÄİİèÈ\×i »RçzÀsÄİİèÈİ ÈäÈä»RÄ %f [DEL] ÜpDz% BIOS Setup İvÇÈ%»RÄÄ ÄŞŒİÄÖÈ\×i »T



İ½ö: ÀfÄXË' ÄÖÄİİèÄnÆDhÜhÄİŒ ÈÖÄeİ]Ä|D"Ø »RçzçYİ^Ê½ CMOS»RB ÄİİèÄoÄ ÖŠİnÄÖÄÆÖR»T

İ½ö: È¹ÄYÇÄİnT^` JP14 %Äç»RË' %nçzçYçè <Home> ÜpÄİİ^Ê½

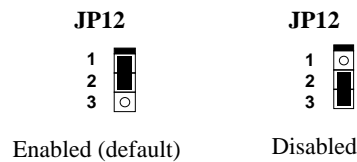
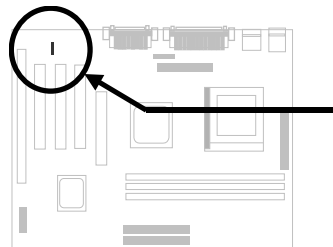
İŞB ÅŠ0à

CMOS»T% Å|Æ Å Å <Home> Üpİ^ÅüĐ"ÈiÓ„Ñ×Đ"Ý »RÍ, ÖaÂ†İēİ_Ñ"Àö
ÊäË_ CPU ÍnÆ 300MHz»TÈİ%FÅi»RÈ' çzÀRÅæó ÖöÅÆf»RDz% BIOS
Setup ÍnÅŠ CPU Ühİ%»T

2.2.4 ÇİEPİÓ% Đ"Ý

JP12	ÇİEPİÓ% Đ"Ý
1-2	Enabled (ÖŠÍn)
2-3	Disabled

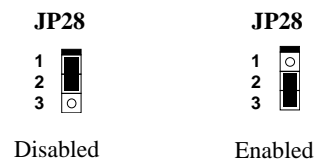
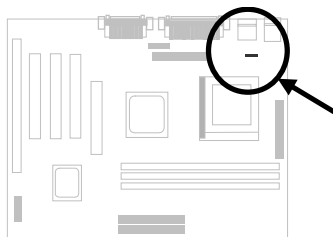
Çj È' %NbÂéçè%ÖÅöÅÖÇİEPİÓ% »RçzçYË_Àó
jumper ÍnÆ Disabled»T



2.2.5 KB/MS Wakeup

JP28	KB/MS Wakeup
1-2	Disabled
2-3	Enabled

çèÅi Èi çèÜp×|/ÑaÓÅĐ"Ø çüú»TÇj ÍnÆ Enabled»R
È' ÜöĐÑË,, BIOS Setup %ÅÍnÅŠĐ"Ø ÖiÀ»»TÇ€Åéçè
ÀÓçüú»R5V Stand By Ó„ÆËİĐÑ%Å 800mA»RÅi
çYÆj ÅaÓ„Ñ×ØÓçÉüÑ"İ|Å|Åéçè»T
×èÅqÑ_»Rç^ÅÍ PS/2 ÑaÓÅ%pİÅÑaÓÅĐ"Ø »T



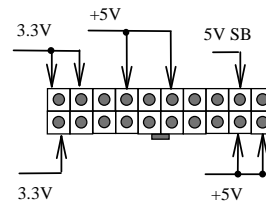
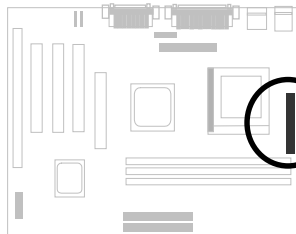
2.3 Í†ËÏÚj

2.3.1 Ó„Ñ×Í†ËÏ×^

ATX Ó„Ñ×ÅeÚÍ00Æ ÅéçèÀf%Ä Å020-pin Í†ËÏÚj »R×ê×eÅŠË'Í»%4Ä0% ÀgÆ çÛ×eÄ0»T



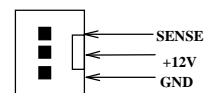
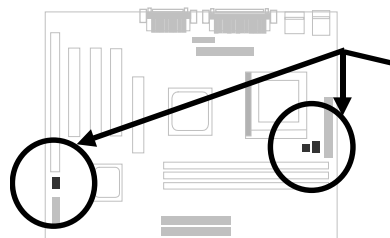
×ê%4%4i: ÀsÍ†ËÏÄeÅ0Ë%0„Ñ×Í†ËÏ×^%4Äv»R×êç Ý ÍÄ†Ìè
Ó„Ñ×»T



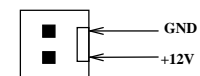
PWR2

2.3.3 ÇÑÈÈ

ÀsçU0 Å`%4i»RÁÍ%QÇi0èçöÄ0CPUFAN1 Òa CPUFAN2 Ä0 CPU ÇÑÈÈËÏÚj »R0a%Q
Çi0èçöÄÆ FAN Ä00 ÍuÇÑÈÈËÏÚj »T



CPUFAN1 & FAN

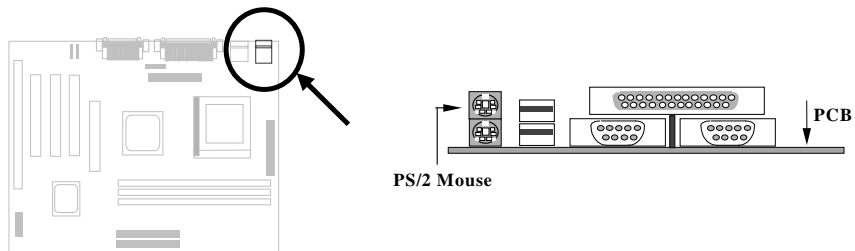


CPUFAN2

İŞB ÅŠÒà

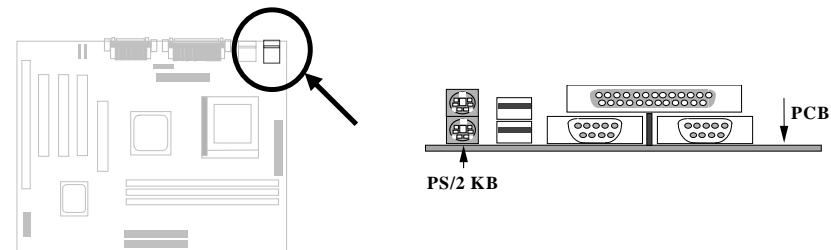
2.3.4 PS/2 ÑàÓĀ

×ēĬ†ĒĬ PS/2ĬÑàÓĀĀ ōēçöĀĒPS2ĬĀŌĒĬŪj ¼ĥ»T



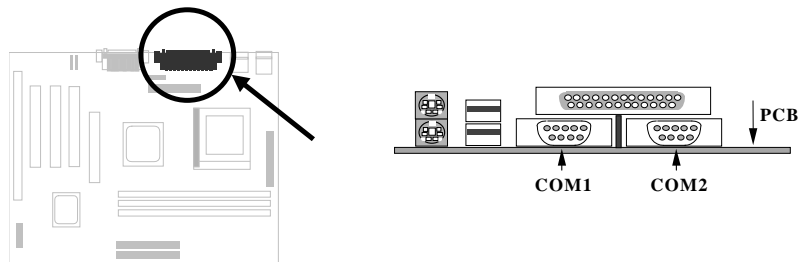
2.3.5 Ūp×]

×ēĒ_PS/2 Ūp×]ĒĬĀ ōēçöĀĒKB ĀŌĬ†ĒĬŪj ¼ĥ»T



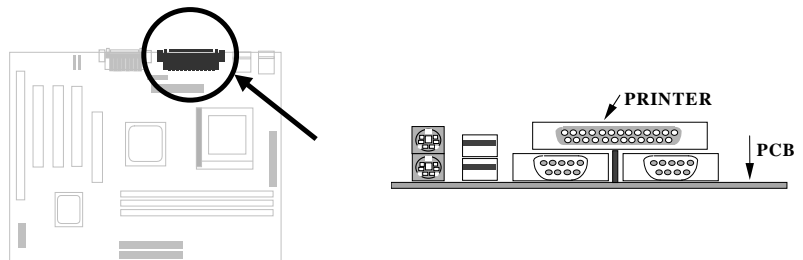
2.3.6 A ÄÊ (COM1/COM2)

Äü% ÇÄÄ` %ııİÄüÇiÖeöÄÊ **COM1** Öa **COM2** ÄÖ 9-pin D-ÄÊ EİÜj »RıçeÄİİtEİÄ
ÄÊ ÄaÖÄ(serial mouse) ÄeÄ Öa000 »TÄp%ııP%QÇiÄ ÄÊ EİÜj ÖeöÄÊ **COM1**»WİP
%XÇiÄyÖeöÄÊ **COM2**»T



2.3.7 ÄÄ Ø

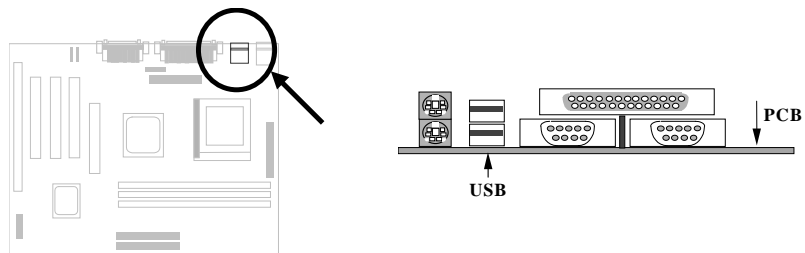
çUØ Ä` Äü% ÇÄÄ` %ııİÄüÇiÖeöÄÊ **PRINTER** ÄÖ 25-pin D-ÄÊ EİÜj »RıçeÄİÄŞİ»ÄYÄT
Ä»ÄÄ Ø »T



İŞB ÅŠ0à

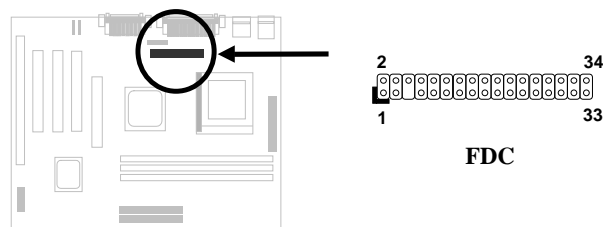
2.3.8 USB 0à0~

È' çĖ_ USB 0à0~İ†ĖİĀ USB ĖİŰj »RĪ,Đ çU0 Å`¼ĥĀĪĀüçUSB ĖİŰj »R0ëç0ÆĖ USB»T



2.3.9 İ€0ê0

ÀsçU0 Å`¼ĥĀĪ¼Qçİ0ëç0ÆFDC Å0 34-pin ĖİŰj »RçZçèĀĪİ†ĖİĀüçİ€0ê0 »T

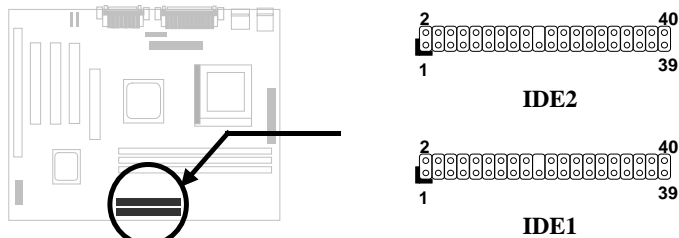


2.3.10 IDE İŞÖeØ Őa CDRÖM

ÀsçUØ Ä`%4»RÊİAİAuÇiÖeçöMIDE1 Ä^ IDE2 ÄÖ 40-pin ÈaÈS»Rçz4A` İ†EİÄüÇi
IDE òaò~»RİaYçzİ†Eİç“Çi IDE òaò~»R%QÉ IDE1 %dÖöÆçUÍ„ÖU (primary
channel)»RIDE2 %dÖöÆÄÖİ„ÖU (secondary channel)»T

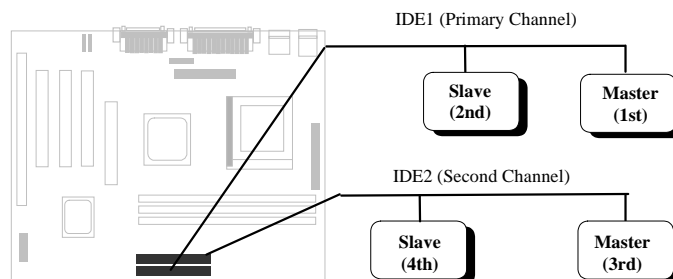
İ†EİÄ ç %Qİ„ÖUÄÖİP%Qç<òàò~çİDÑİnÆmaster mode»WİP%Xç<òàò~çİDÑİnÆ
slave mode»Tç %QÇiòàò~Ä»zÆİSÖeØ Äèç ÖeØ »T

×eÈ_È`İP%Qç<òàò~İnÆmaster mode ÄYÈİÄ IDE1»RİP%Xç<òàò~İnÆ slave
mode ÄaÖaÈİÄ IDE1»TÄfÄXÈ`ÄİP%eç<%èİPç“ç<»R×eÄaÄaÈİÄÄ IDE2 ÄÖ master
%e slave mode»T



×e%4%4u: IDE İhÈ ÄöPİÈa×`İaÄ %4çzDhÖ] 46 %4
%4 (18ÇöÄe)»RçYÄ\Ö ÈaĐaÜ %4Ä”»T

×e%4%4u: ÄÊÖWÄ İaÄeÄÖÄYÖÖÄ•× »RÈa×`İaÖNÖ÷ÄÖ
òàò~İaÄİnÄÄ master mode»RÄYÄaÑi %fÖeÄöPİÄÖ
ĐDÄaÄSÖaÑ†òàò~»T

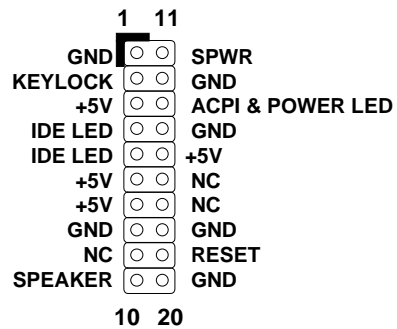


İŞB ÅŠ0à

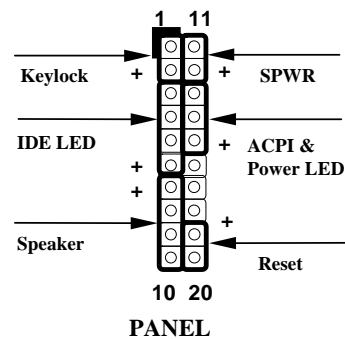
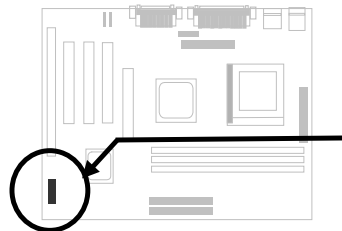
2.3.11 Åv¾ ÇĖÄ`ĖİÚj

Åv¾ ÇĖÄ`ĖİÚj 20-pin ĖaĖŠ»R0ĖġöÀÅ
PANEL»TÀ0Ėä×`ĖİÚj ġACPI & Power
 LED Å ġöŮ` »RŮp×]Ů (keylock)»RÇÅŇ†
 Đ"0 (reset) Å Đ†»Rİüġ' (speaker)
 İġ»TĖ'ġŲYÄæ|0éAiÅŠ0à»T

Çj Ė' ÅÍ Ås BIOS ¾¾İnÅŠ "suspend
 mode"»RÄyŇ Đ¾¾ suspend 0iÅ»Ėä»R
 ACPI & Power LED Å ġöŮ` Å\ŇĐ"Å}
 Ė'Ų'»T



PANEL

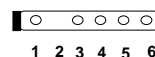
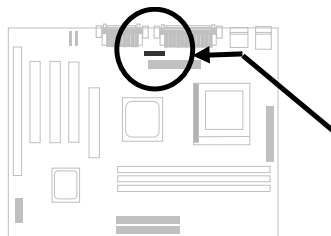


2.3.12 Å•×^ĐaÙ Ê (IrDA)

çŒçU0 Ä`Ä0İP%XA`ÀTÊ (serial port 2) çŒŒİÄ IrDA Å•×^Œiİi»TÄiÜn IrDA (Infrared Data Association) Ç çŒÆ çë HP»SCompaq»SIBM İçŒfÄi ÄÄçüÄ0%Q ÇiİiÜİ»RçëÄiËÜŒŒSçëÆ ç•×^Đa×^Œ ÈaÄ0ÄŒİ_ŒaÜİçë»TÄüÄiİÊP ÄİŒiËiçİ ¼»R IrDA Ä\İ%ÄSÄeÄÄÆ ç•×^ĐaÜ ÄŒŒeÑa»Tç^ÇËË'ÄŒŒ„Œ%ÄýİaÆ ç•×^ĐaÜ çm Èü»RçSİBÄi IrDA İmÄŠ»Rİ_ÈüÊ Äs%QÄŠĐkÜ ¼Œ»R¼ŒŒ-ÇËİ†Ëİ×^%ÄŒİ†Ëİ»RÄj çÄŒÈaŒaİÄÊ`ÄŒŒ„Œ%Äçİ%YŒaÄ Äfİ' (PDA) ÄŒ%Äİ†×^»SĐaŒŒÜaÈnŒ ÈaÄeË_ ¼ç ÈvÄ ¼ŒİÄ IrDA ÄŒÄ]Ä Œ ÄTÄ]»TçŒçU0 Ä`çŒŒİÄHPSIR (115Kbps, 1 meter) Œa ASK-IR (56Kbps) İçİhÈ »T

ÄŠŒaÈa»R×eË IrDA Å•×^ŒiİiÄŠİ»Ä çU Œ Ä`¼ŒŒeÄİIrDA ÄŒÈaÈŠ»TÄŠŒa%ÄÄü»RË' ÜŒçİŒŒŒ"ÈiİSZ dİdv†fİŒÄŒÆ ç•×^çmü»R ¼ çŒÜËq¼ÄQ»T

Pin	Description
1	+5V
2	NC
3	IRRX
4	GND
5	IRTX
6	NC



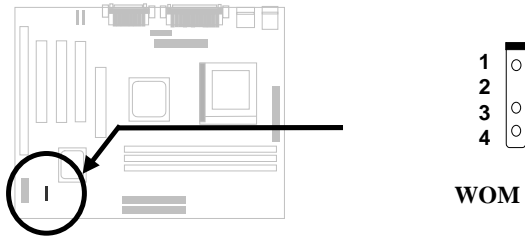
IrDA

İŞB AŞÖà

2.3.13 Wake On Modem EİÜj

çÖçU0 Ä` %hÄyÄÍEdÈ x`ð Ìncf»Rçz%pİÄÖà060 00ÈÈÐ"0
(0V Wake On Modem) çmü»R%ÖEİÄ» (AOpen MP56) Äè
ç•EİÄ»Öà060 Ä»ç0Rçè»TçèÄ Äèçè%ÖEİÄ»Öà06çuÄ00ö»RçÇ
Èä%40÷EİÐ` Ó„Ñ»»RÄiçYÄoÇæ% ò ÄoPİÈ'Äèçè»TÇj È'ÈPçèÄ0
Æ AOpen MP56»RÄy»èÄèçè 4-pin ÍtEİx`»RÍtEİ MP56
Ä0 RING EİÜj ÖaçU0 Ä` %hÄWOM EİÜj »T

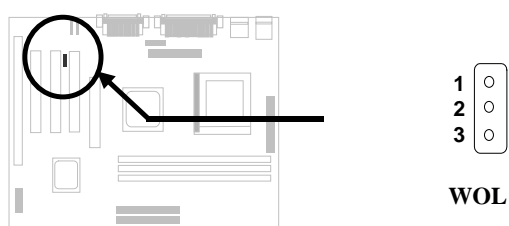
Pin	Description
1	+5V SB
2	NC
3	RING
4	GND



2.3.14 Wake On LAN EİÜj

çÖçU0 Ä` ÄyÄÍWOL EİÜj »R ÇÈÄèçèWake On LAN çm
Éü»RçİDÑWçpİÄÄ0çmüÄ00 ò çu0a0 00İÈB »T

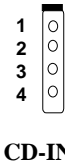
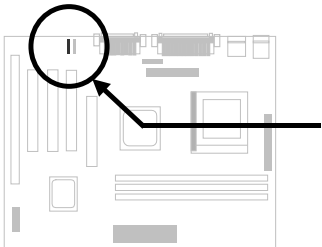
Pin	Description
1	+5V SB
2	GND
3	LID



2.3.15 CD ÇİÑ××^ËİÚj

İ, ÇİËİÚj Æ çèÁİİ†Ëİ CDROM Å0ÇİÑ××^»T

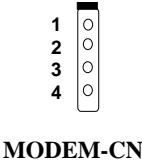
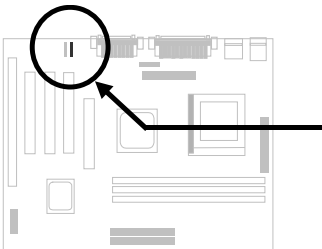
Pin	Description
1	L
2	GND
3	GND
4	R



2.3.16 Mono In/Mic Out ËİÚj

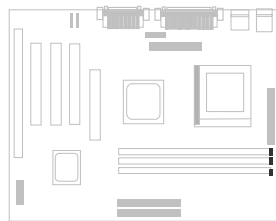
İ, ÇİËİÚj ççèÁİ İ†Ëİ Å0ËİÀ»0à06çuÅ0 Mono In/Mic Out ËİÚj »TÅp»çç» Pin 1-2 Æ Mono In»Rpin 3-4 Æ Mic Out»TÇÈÀqÑ_Å0Æ »RçðÁvÍ, %QÝ Å0ËİÚj ÅÝÁdÁÍÁe ÅŠÅ00èÑà»Rç^ÁÍ%ð0àÅ00à06çuÁÍÍ%ÁeÍ, ÇİËİÚj »T Û ÜàÁv×èç Èè0q |¼ Å0Ëİ0"ÅŠ0,,»RÁÝÁg0à06çuÅ00iËİ ÒüÈ÷Ì^Ñ»»T

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



İŞB ÅŠ0à

2.4 ÅŠ0à:UE`0êß



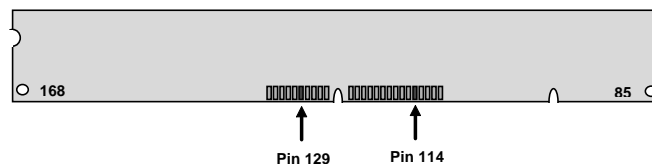
ÅŒ çU 0 Ä` ÅÍ 3 Ě DIMM (Dual-in-line Memory Module) Ĩ» Œë »R ççY %p ĨÄ EDO (Extended Data Out) Ä^ SDRAM (Synchronous DRAM) »R ĨæĒÄ Ėv Đ„ çzŒWÄ 768MB EDO DRAM Äè 384MB SDRAM»T

çŒçU0 Ä` ççY%pĨÄŒeÑa64bit ÅŒ DIMM Œi Ĩi»T

- I. %ç %f: Ĩ ÇĚÆĒ 1Mx64 (8MB)»S2Mx64 (16MB)»S4Mx64 (32MB)»S8Mx64 (64MB) »S 16Mx64 (128MB) »WĹi Ū ÇĚÆĒ 1Mx64x2 (16MB) »S2Mx64x2 (32MB)»S4Mx64x2 (64MB)»S8Mx64x2 (128MB)»T



Ĩ½ö: ÅÍçi¼ Ä|çççYŪaÆuĒ` ÅŒ DIMM Æ Ĩ ÇĚŪ6Æ Ū ÇĚ -- ÆÆDIMM %hÇĚÄŒ pin 114 Œa pin 129»RÄfÄX ÅÍĒ±0-Œ„Œ »RĨ, Ē DIMM çzĒúĨ_Æ Ū ÇĚÄŒ»WpÄy Ĩ_Æ Ĩ ÇĚÄŒ»T×eĒeÑi %ÇĚÄŒŒŒŒ»T



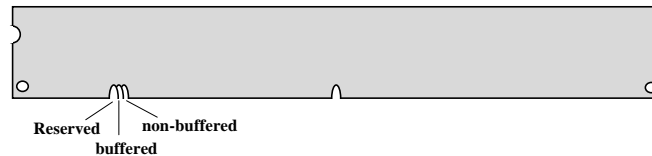
II. Speed:

SDRAM: %QÉ Æ Œëçö\çf-12 Ĩ,ŒŒÄÆÄ»»RĨ,Ä çöÄ†Ä Ĩ†Äñ (clock cycle time) Æ 12ns»RÄiçYÄŒSDRAM Ĩæ%ÄŒ clock Æ 83MHz»TŪŒÄĨççQŒŒŒçöÆ ÄfÄa-67 Ĩ,ŒŒÄÆÄ»»RÄ çöÄaÄSŒ ÈaĐaŪ ĨæÄöçÄ 67MHz»T

EDO: EDO RAM ÅŒÄ†Ä Ĩ†Äñ (access time) Æ 50ns Äè 60ns»T

İŞB ÅŠ0à

III. Buffered 0a non-buffered: ç0çU0 Å` 4pİÄnon-buffered DIMM»TÈ' ççYÄæ0ô
DIMM 4hÇÈÈä4M0Ä 0~»RÄiÄaÄ non-buffered DIMM 0a buffered DIMM»T×è
ÈèÑi4f0éÄiç0»X



çèÄ Èä4M0Ä 0~4Äa»Rç^ÄÍ non-buffered DIMM ççYÎ»4çU0 Å` 4hÄDIMM
Î»0è»TÛ Î^ ç0ÄvçÄÇÈ4hÆ÷Ä Ä0DIMM Í14S0xÆ non-buffered Ä04WRAôÇæ4ÄÄ
PÍÈ'ÄsÛ ÜaÈäÍaÄçU0Æ 0 ÄÈÈr0üÈ÷Î^Ñ»»T

IV. 2-clock 0a 4-clock signals: Û Î^ 2-clock 0a 4-clock Ä0 DIMM Í1ççYçèÄsÍ,
Ð çU0 Å` 4h»RÄ Æ4WÄÎèYÇÄSÄaÏ0Ñb»RAôÇæ4ÄÄPÍÈ' ÍaÄçÄè4-clock Ä0
SDRAM»T



Î1çö: ÇçÜaÄuÈ' Ä0 SDRAM Æ 2-clock ÜóÆ 4-clock
Ä0»RççYÆ÷Æ÷ pin 79 0a pin 163»RAfÄXÄÍÈ÷0~0,0
Î_ÜÍ0iÆ 4-clock»WpÄyÄ\Æ 2-clock Ä0»T

V. ÄaÄ 40: 4pİÄ0èÑaÄ0 64 bit wide (Î] parity) SDRAM»T

BIOS çÄ0ÈäÈ0Î È`0èß Ä0ÈvD,4èÄÄ»»R440÷Äéçè Jumper ÍnÄ»TÍa4Ä0È`0èß
ÈvD,,Æ 768MB»T

LX Î04 Îiç^ÈuÄéçè 3V EDO Äè SDRAM»T

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

İŞB ÀŞÒà

¿Y¾fÀT¿ÀòPÍÂé:èÄÔ DRAM ÌïÀi »X

DIMM Data chip	Bit size per side	Single/ Double side	Chip count	DIMM size	Recommended
1M by 16	1Mx64	x1	4	8MB	Yes
1M by 16	1Mx64	x2	8	16MB	Yes
2M by 8	2Mx64	x1	8	16MB	Yes
2M by 8	2Mx64	x2	16	32MB	Yes
4M by 16	4Mx64	x1	4	32MB	Yes
4M by 16	4Mx64	x2	8	64MB	Yes
8M by 8	8Mx64	x1	8	64MB	Yes
8M by 8	8Mx64	x2	16	128MB	Yes

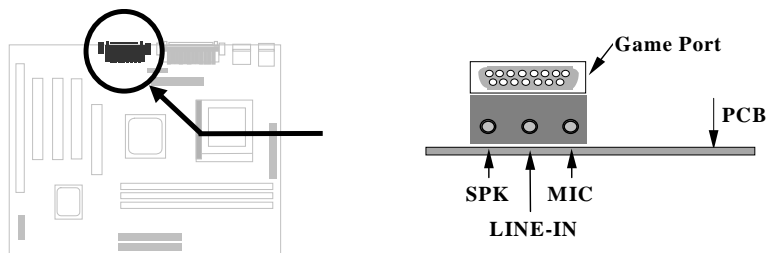
DIMM Data chip	Bit size per side	Single/Double side	Chip count	DIMM size	Recommended
2M by 32	2Mx64	x1	2	16MB	Yes, but not tested.
2M by 32	2Mx64	x2	4	32MB	Yes, but not tested.

¿Y¾f ÀT¿¼/ÀòPÍÂé¿èÄÔ DRAM ÌïÀi »X

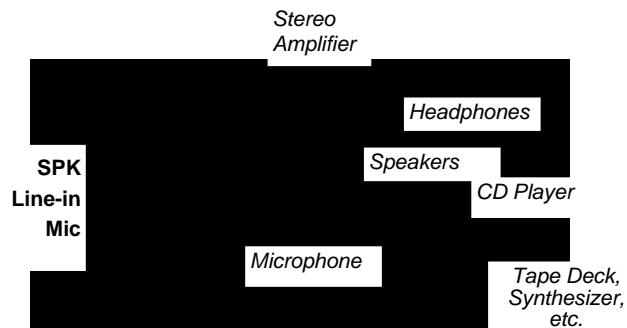
DIMM Data chip	Bit size per side	Single/ Double side	Chip count	DIMM size	Recommended
4M by 4	4Mx64	x1	16	32MB	No
4M by 4	4Mx64	x2	32	64MB	No
16M by 4	16Mx64	x1	16	128MB	No
16M by 4	16Mx64	x2	32	256MB	No

2.5 30ÅòÇİÈPçu

Í, ¼ çU0 Å` 30ÅòçU 6-bit Å0ESS Solo-1 ÇİÈPİSİ`İ0¼ »T



È' çÈ0¼ Ç0èÀİİ`ÈİÅY DxYpİnà»T



İŞB ÅŠòà

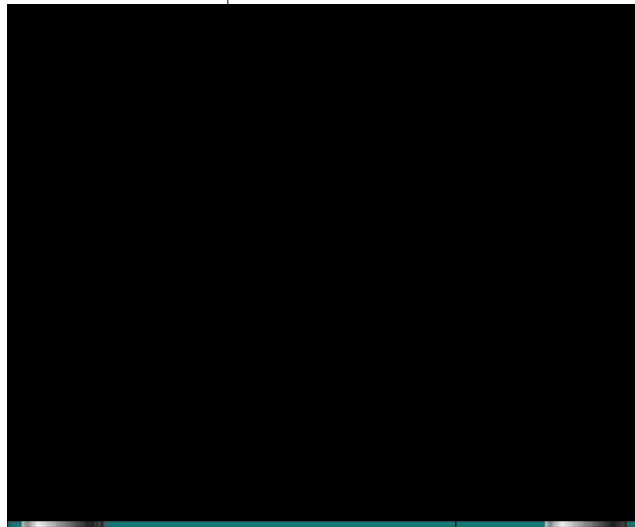
ÅŒÇİÊPİŒŒ ÅŒBi Êäİ'À»ŒaŒİçèİ'À»İ½ŒŒÅsçUŒ Å`ÚYÅ ÅŒAOpen Bonus Pack
CD-ROM ¼¼»RÅpŒ ÈÅf¼f Åİçö»X

Bi Êäİ'À»	X:\Mx3\Sound\Driver
Œİçèİ'À»	X:\Mx3\Sound\App

X: Å çöÊ'ÅŒç ŒeŒ ç_ŒŒ»TÅsBi Êäİ'À»¼ ÇÊ»RÊ½¼Windows 95/98 ¼Åç•»RÅŒÇæ¼n
Î½Åe¼Windows 3.1»SWindows NT 3.51 Œa Windows NT 4.0 ÅŒBi Êäİ'À»»R¼ Å\
Ê'Åeç¼¼ÅaÅŒÅQÑ•ÅİÈ»T

ÅİÅsŒİçèİ'À»¼ ÇÊ»RÅyÅİ Music Center (Åf¼f ŒeÅİçö)»SMIDI Board Œa MIDI
Player»TŒİİİÅeç¼ Å»»R×êÊeŒŒİİ€B ÅŒx^¼hŒ»Å »T

MIDI Player: çèÅİŒxÅ MIDI Œä



**3D
Controller:**
ÊÊÅ 3D ÊPÅX

CD Player:
ŒxÅ ÇİŒŒ CD

Wave Player:
ŒxÅ Wave È
Å»ÅŒÇİŒŒ

Multimedia Mixer: çèÅİÊÊÅ ŒeÇİ¼ŒÅ¼¼ÅaŒeŒŒ çİ Èä
ÅŒÊPÅX