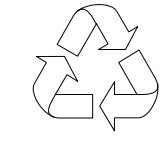
Aspire 3300S
Service Guide

Service guide files and updates are available on the AIPG/CSD web; for more information, please refer to http://csd.acer.com.tw



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Label	Icon	Color	Description
13			Hard disk drive activity LED
14			LAN Activity LED
15			Power LED
16			Power switch

NOTE: *The system has two microphone-in ports (front and rear). However, you cannot use both of them at the same time. The default setting for your system enables the microphone-in port in front and disables the one at the back.

This section has two table lists, system memory specification and the possible combinations of memory module.

System Memory

Item	Specification
Memory socket number	2 slots (4 banks)
Support memory size per socket	64MB~1GB
Support maximum memory size	2GB
Support memory type	DDR SDRAM
Support memory speed	266MHz(PC2100)
Support memory voltage	2.5V
Support memory module package	184 -pin DIMM
Support to parity check feature	Yes
Support to Error Correction Code (ECC) feature.	Yes
Memory module combinations	You can install memory modules in any combination as long as they match the Memory Combination specifications.

Memory Combinations

Slot	Memory Module	Total Memory
Slot 1 (Bank 0 & Bank 1)	64MB, 128MB, 256MB, 512MB, 1GB	64MB~1GB
Slot 2 (Bank 0 & Bank 1)	64MB, 128MB, 256MB, 512MB, 1GB	64MB~1GB
Maximum System Memory Supported		64MB~2GB

Cache Memory

Item	
First-Level Cache Configurations	
Cache function control	Enable/Disable by BIOS Setup (Advanced options)
Second-Level Cache Configurations: Below information is only applicable to system with installed Pentium 4 processor.	
L2 Cache RAM size	Pentium IV processor: 256 KB
L2 Cache RAM speed	The same with the processor core clock frequency
L2 Cache function control	Enable/Disable by BIOS Setup

Video Interface

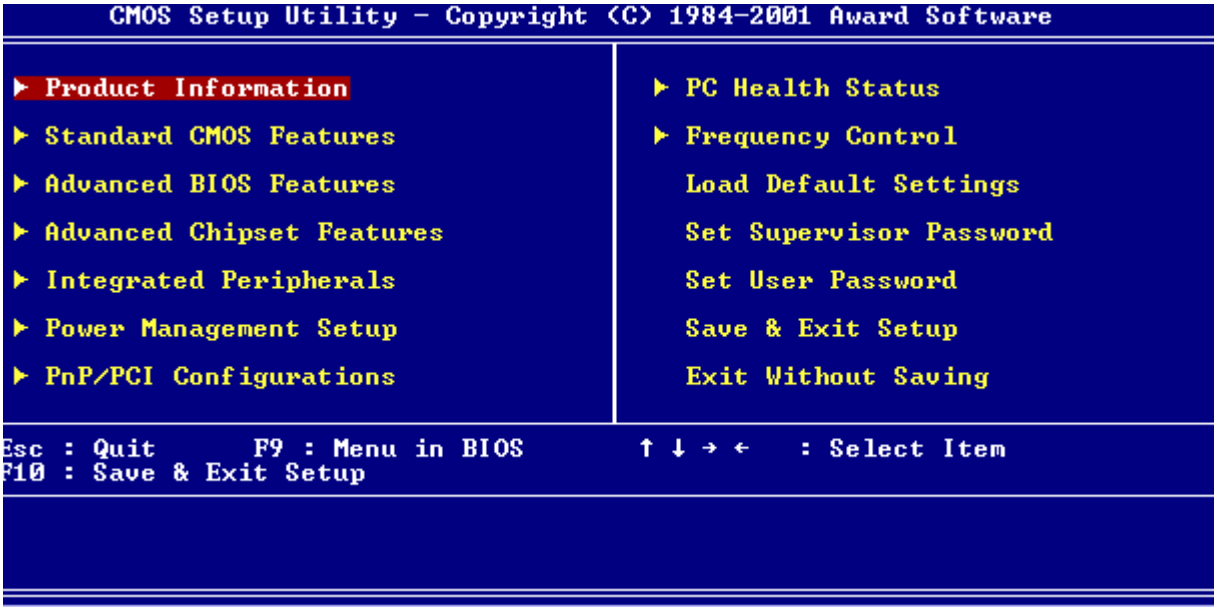
Item	Specification
Video controller resident bus	AGP bus
Video interface support	1x / 2x / 4x AGP Signaling and 2x / 4x Fast Writes The AGP buffers operate only 1.5V mode

Entering Setup

Power on the computer abd the system will start POST (Power On Self Test)prosecc. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

NOTE: If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+Alt+Delete].

The Setup Utility main menu then appears:



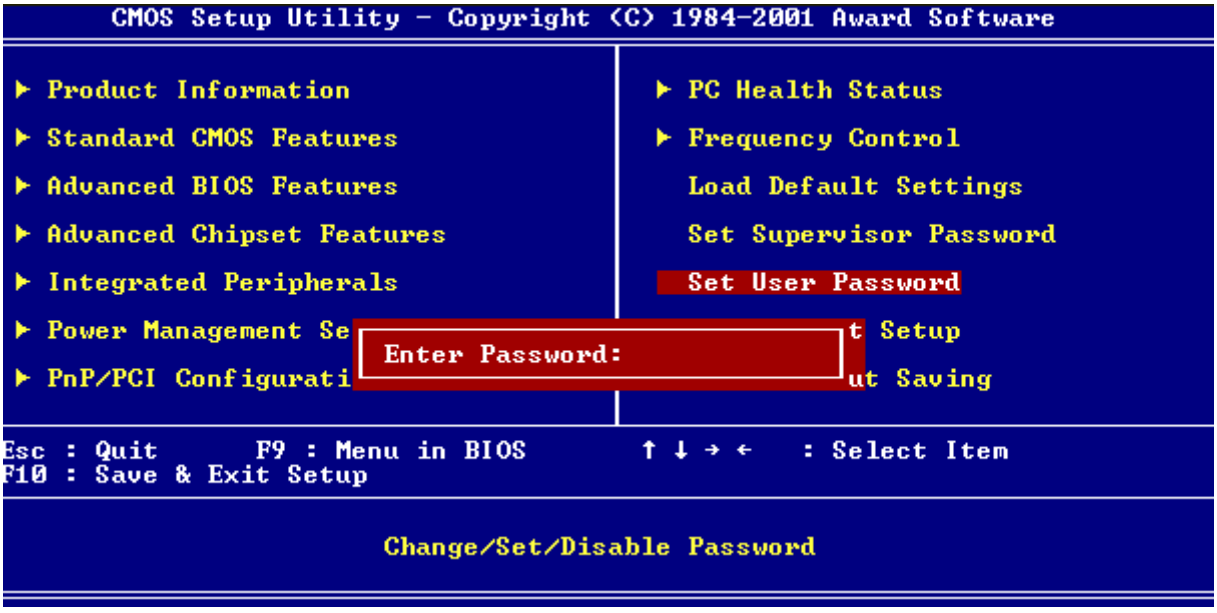
The following table describes each parameter under the sub-menu. Settings in **boldface** are the default and suggested values.

Parameter	Description	Options
System Performance	The DRAM timing is controlled by the DRAM Timing Registers. The timings programmed into this register are dependent on the system design. Slower rates may be required in certain system designs to support loose layouts or slower memory.	**Normal Mode** Safe Mode Fast mode Turbo Mode Ultra Mode
CAS Latency Setting	When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.	2T, **2.5T**, 3T

The other two parameters under the Advanced Chipset Features are presented below. Settings in **boldface** are the deafult and suggested values.

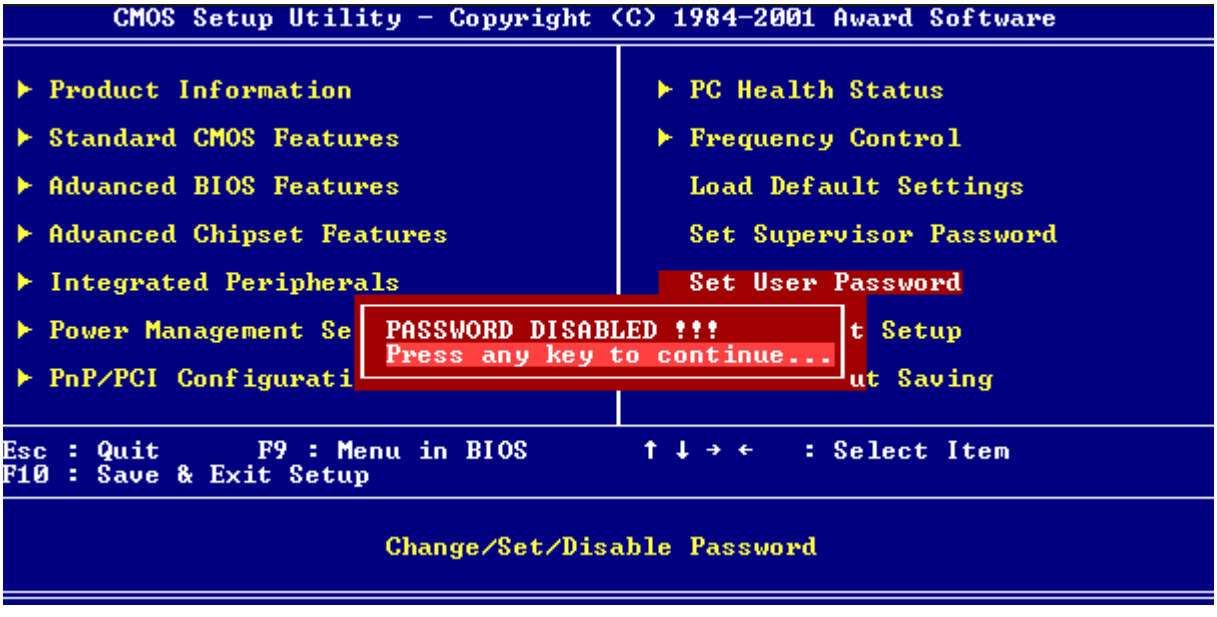
Parameter	Description	Options
Memory Hole at 15M-16M	You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. The user information of peripherals that need to use this area of system memory usually discuss their memory requirements.	**Disabled** Enabled
AGP Aperture Size (MB)	This item lets you determine the effective size of the AGP Graphic Aperture.	**64**, 4,8,16,32,128 and 256.

If you select Set User Password, a message as below will appear:

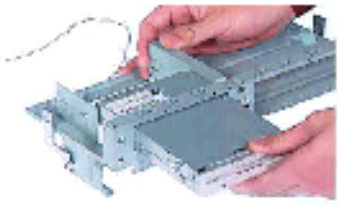


At the prompt, type your password. Your password can be up to **six** characters in length. After typing the password, press “Enter”. At the next prompt, re-type your password and press “Enter” again to confirm the new password. After the password entry, the screen automatically reverts to the main screen.

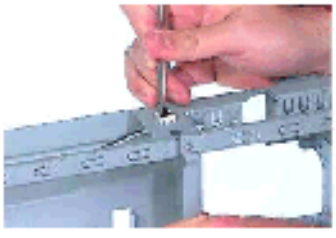
To disable User Password, press “Enter” when prompted to enter the password. The following screen will display a message confirming that the password has been disabled.

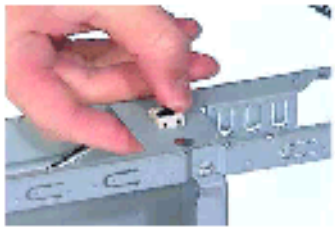


8. Remove the four screws as shown here then detach the floppy disk drive from the frame.



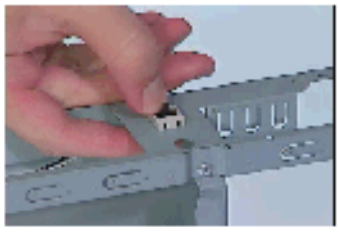
9. Disconnect micro switch cable from the FDD and DVD frame.





Removing the Intrusion Alarm Cable

1. See “Opening the Housing” on page 51
2. See “Removing the FDD and DVD Frame” on page 53”
3. Detach the intrusion alarm cable from the FDD and DVD Frame.



Checkpoint	Description
23h	1. Check validity of RTC value: e.g. a value of 5Ah is an invalid value for RTC minute. 2. Load CMOS settings into BIOS stack. If CMOS checksum fails, use default value instead. 3. Prepare BIOS resource map for PCI & PnP use. If ESCD is valid, take into consideration of the ESCD's legacy information. 4. Onboard clock generator initialization. Disable respective clock resource to empty PCI & DIMM slots. 5. Early PCI initialization -Enumerate PCI bus number -Assign memory & I/O resource -Search for a valid VGA device and VGA BIOS, and put it into C000:0
24h	Reserved
25h	Reserved
26h	Reserved
27h	Initialize INT 09 buffer
28h	Reserved
29h	1. Program CPU internal MTRR (P6 & PII) for 0-640K memory address. 2. Initialize the APIC for Pentium class CPU. 3. Program early chipset according to CMOS setup. Example: onboard IDE controller. 4. Measure CPU speed. 5. Invoke video BIOS.
2Ah	Reserved
2Bh	Reserved
2Ch	Reserved
2Dh	1. Initialize multi-language 2. Put information on screen display, including Award title, CPU type, CPU speed...
2Eh	Reserved
2Fh	Reserved
30h	Reserved
31h	Reserved
32h	Reserved
33h	Reset keyboard except Winbond 977 series Super I/O chips.
34h	Reserved
35h	Reserved
36h	Reserved
37h	Reserved
38h	Reserved
39h	Reserved
3Ah	Reserved
3Bh	Reserved
3Ch	Test 8254.
3Dh	Reserved
3Eh	Test 8259 interrupt mask bits for channel 1
3Fh	Reserved
40h	Test 8259 interrupt mask bits for channel 2.
41h	Reserved
42h	Reserved

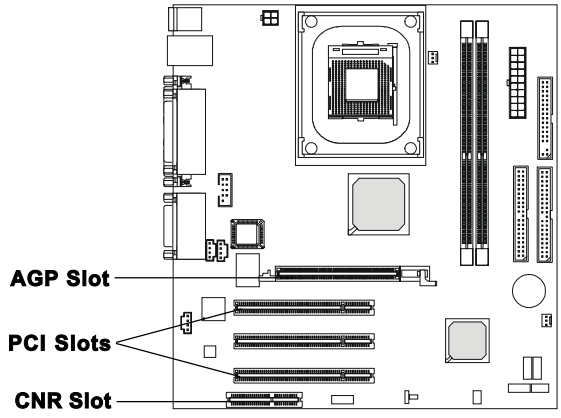
Undetermined Problems

If an error message is present, go to “POST Error Messages List” on page 69. If you did not receive any messages, see if the symptom is listed in “Error Symptoms List” on page 71. If you still cannot solve the problem, continue with this check:

1. Check the power supply voltages. If the voltages are correct continue with the following steps:
2. Power off the system unit.
3. Perform the following checks, one by one, until you have isolated the problem FRU.
4. Load default settings in setup.
5. Check all main board jumper positions and switch settings.
6. Check all adapter card jumper positions.
7. Check all device jumper positions.
8. Check all cables and connectors for proper installation.
9. If the jumpers, switches and voltage settings are correct, remove or disconnect the following, one at a time:
10. Non-Acer devices
    - ❑ External devices
    - ❑ Any adapter card (modem card, LAN card or video card, if installed)
    - ❑ CD/DVD-ROM drive
    - ❑ Diskette drive
    - ❑ Hard disk drive
    - ❑ DIMM
    - ❑ Processor
    - ❑ Main board
11. Power on the system unit.
12. Repeat steps 2 through 5 until you find the failing device or adapter.

Slots

The motherboard provides three 32-bit Master PCI bus slots, one AGP slot and one CNR slot.



AGP (Accelerated Graphics Port) Slot

The AGP slot allows you to insert the AGP graphics card. AGP is an interface specification designed for the throughput demands of 3D graphics. It introduces a 66MHz, 32-bit channel for the graphics controller to directly access main memory. The slot only supports **4x** AGP card.

PCI Slots

Three PCI slots allow you to insert the expansion cards to meet your needs. When adding or removing expansion cards, make sure that you unplug the power supply first. Meanwhile, read the documentation for the expansion card to make any necessary hardware or software settings for the expansion card, such as jumpers, switches or BIOS configuration.

CNR (Communication Network Riser)

The CNR slot allows you to insert the CNR expansion cards. CNR is a specially designed network, audio, or modem riser card for ATX family motherboards. Its main processing is done through software and controlled by the motherboard's chipset.