

Acer

Aspire E700 Service Guide

Service guide files and updates are available on the ACER/CSD web. For more information, please refer to <http://csd.acer.com.tw>

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Revision History

Please refer to the table below for the updates of Desktop Aspire E700 service guide.

Date	Chapter	Updates
September 8, 2006		first release

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reason, if a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specification

Overview

Main Board

	Description
Size	Max. 244 mm x 244 mm, MicroATX
Processor	<ul style="list-style-type: none"> • Socket type: Intel socket T LGA775 pin • Socket quantity: one • Intel Prescott 775 / Smithfield / Cedar Mill / Presler / Conroe, core speed 533/800/1066MHz
System Chipset	<ul style="list-style-type: none"> • GMCH: Intel G965 • ICH: Intel ICH8DH • Super I/O: ITE8718
Memory	<ul style="list-style-type: none"> • Four DDR2 connectors • Capacity: <ul style="list-style-type: none"> • 256MB to 1GB DDR2 800/667/533 unbuffered SDRAM module support • Feature support 2GB DDR2 800/667/533 unbuffered SDRAM module when memory sample passes validation • Max. 256MB to 4GB memory support • Feature support to 8GB max. memory support when memory sample passes validation. • Dual-channel function enabled when plugging in two same memory size DDR2 memory modules
Onboard Graphic Solution	<ul style="list-style-type: none"> • Intel G965 on-die graphic (Intel GMA X3000) solution • DVMT 4.0 technology support • Enhanced 3D and clear video technology support • Dual view function supported by Intel ADD2/ADD2+ • One D-sub VGA port on the rear side
PCI Express / PCI Slots	<ul style="list-style-type: none"> • One PCI Express x16 slot • One PCI Express x1 slot • Two PCI 2.3 slots
FDD	<ul style="list-style-type: none"> • One slot for FDD • 1.44MB / 3 mode 3.5" devices support
SATA	<ul style="list-style-type: none"> • Six SATA slots • Storage type support: <ul style="list-style-type: none"> • HDD / CD-ROM / CD-RW / DVD-ROM / DVD-RW / DVD+RW / DVD Dual / DVD SuperMultiPlus / Blue-Ray ODD

Audio	<ul style="list-style-type: none"> • Chip: HD audio codec ALC888 HD codec 7.1 with S/PDIF out • Connectors support (at least): <ul style="list-style-type: none"> • Rear six jacks that follow HD audio definition • Front microphone in • Front headphone out • S/PDIF out header (1*4) • AUX-in • Front panel audio header (2*5) support • HD de-pop CKT added • S/N ration: 90 dB at rear output jack
LAN	<ul style="list-style-type: none"> • Controller: Intel ICH8DH
USB	<ul style="list-style-type: none"> • Controller: ICH8DH • Ten port quantity: <ul style="list-style-type: none"> • Four back panel ports • Four ports for front daughter board • Two ports for card reader + IR • Connector pin: standard Intel FPIO pin definition • Date transfer rate support: USB 2.0/1.1
1394	<ul style="list-style-type: none"> • Controller: Ti TSB43AB23PDTG4 • One onboard header • One six-pin 1394 port
Front Panel IO Header	<p style="text-align: center;">2006 acer 14-Pin SW/LED FPIO Header</p> <p style="text-align: center;">Pitch = 2.54</p>
Hardware Monitor	<ul style="list-style-type: none"> • Controller: Super I/O ITE8718 • Intel broadwater: ICH8 SST • Voltage: Vcore / +12V / +5V / +3.3V / +12.5V / 5VSB
System LDE Definition	<ul style="list-style-type: none"> • Power state LED: <ul style="list-style-type: none"> • S0: blue steady • S1/S3: blue blinking • S4/S5: off • Storage state LED: <ul style="list-style-type: none"> • Active: blue blinking • Idle: off • LAN state LED: <ul style="list-style-type: none"> • LAN active: blue blinking • LAN idle: off • Voltage bias: 5V • Current: 10mA to 15 mA

CIR & IR blaster	<ul style="list-style-type: none"> • Follow ITE's pin define to support CIR & IR blaster function for Vista home premium SKU • Two IR blasters support • BIOS needs to have the item to enable/disable this function. The factory default is disabled (for XP MCE).
All Onboard Connectors List	<ul style="list-style-type: none"> • Rear I/O connectors: <ul style="list-style-type: none"> • One PS/2 keyboard port • One PS/2 mouse port • One parallel port • One serial port • One D-sub VGA port • One RJ-45 LAN port • Four USB ports (six audio jacks with MIC in and Line in definition) • One six-pin 1394 port • Onboard connectors: <ul style="list-style-type: none"> • One LGA 775 CPU socket • Four DDR2 memory sockets • One PCI Express x16 socket • One PCI Express x1 socket • Two PCI slots • One FDD slot • Six SATA2 connectors • Three 2*5 pin Intel FPIO specification USB pin connectors (follow Intel FPIO standard specification) • One 2*5 pin Intel FPIO specification microphone-in/headphone-out pin connector • One serial port 2*5 pin connector (2nd serial port) • One AUX-in four-pin connector • One four-pin CPU fan connector • One three-pin system fan connector with linear circuit • One two-pin intrusion alarm connector • One 24-pin + four-pin ATX interface PS3/PS2 SPS connector • One 2*7 pin front panel IO header • One 1394 header • One onboard buzzer • One two-pin OBR header • Color management for onboard connector • Header for CIR & IR blaster function

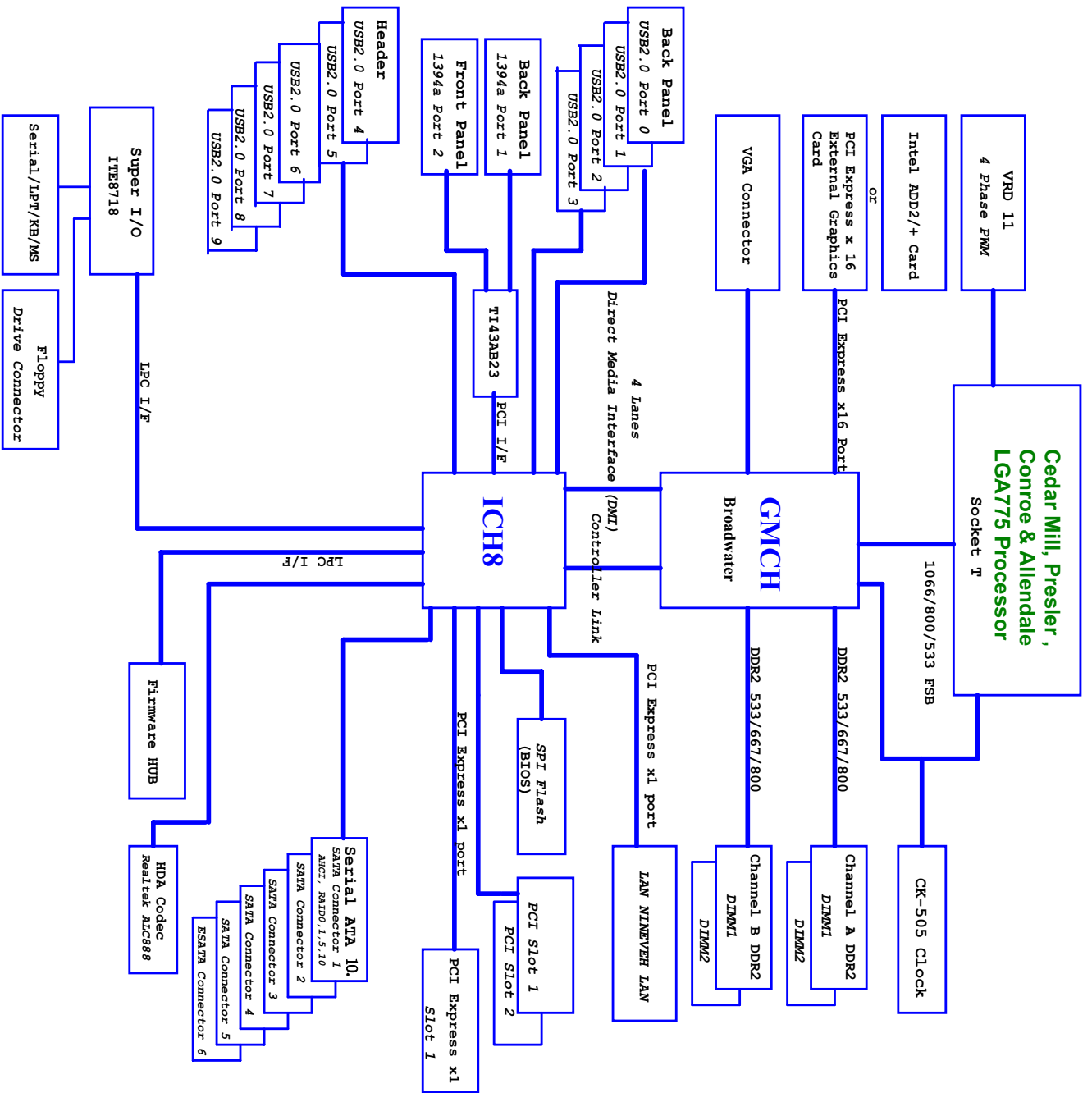
Special Design Specification

	Description
Thermal Design	<ul style="list-style-type: none"> • Intel MTM technology, default read/write enabled • CPU overheat (120°C) power off protection • Compliant with Intel FMB 05A, 05B design • Compliant with Intel 2006 TDP • Slow boot-up fan speed design

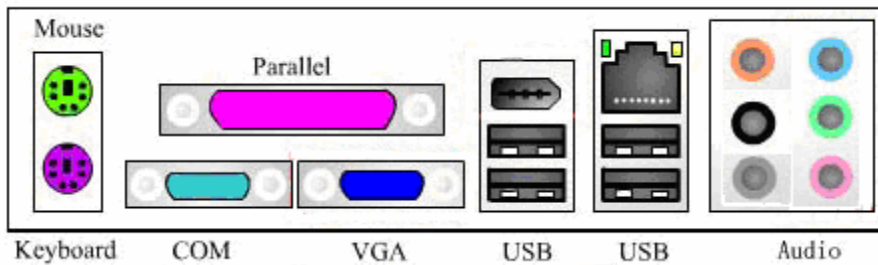
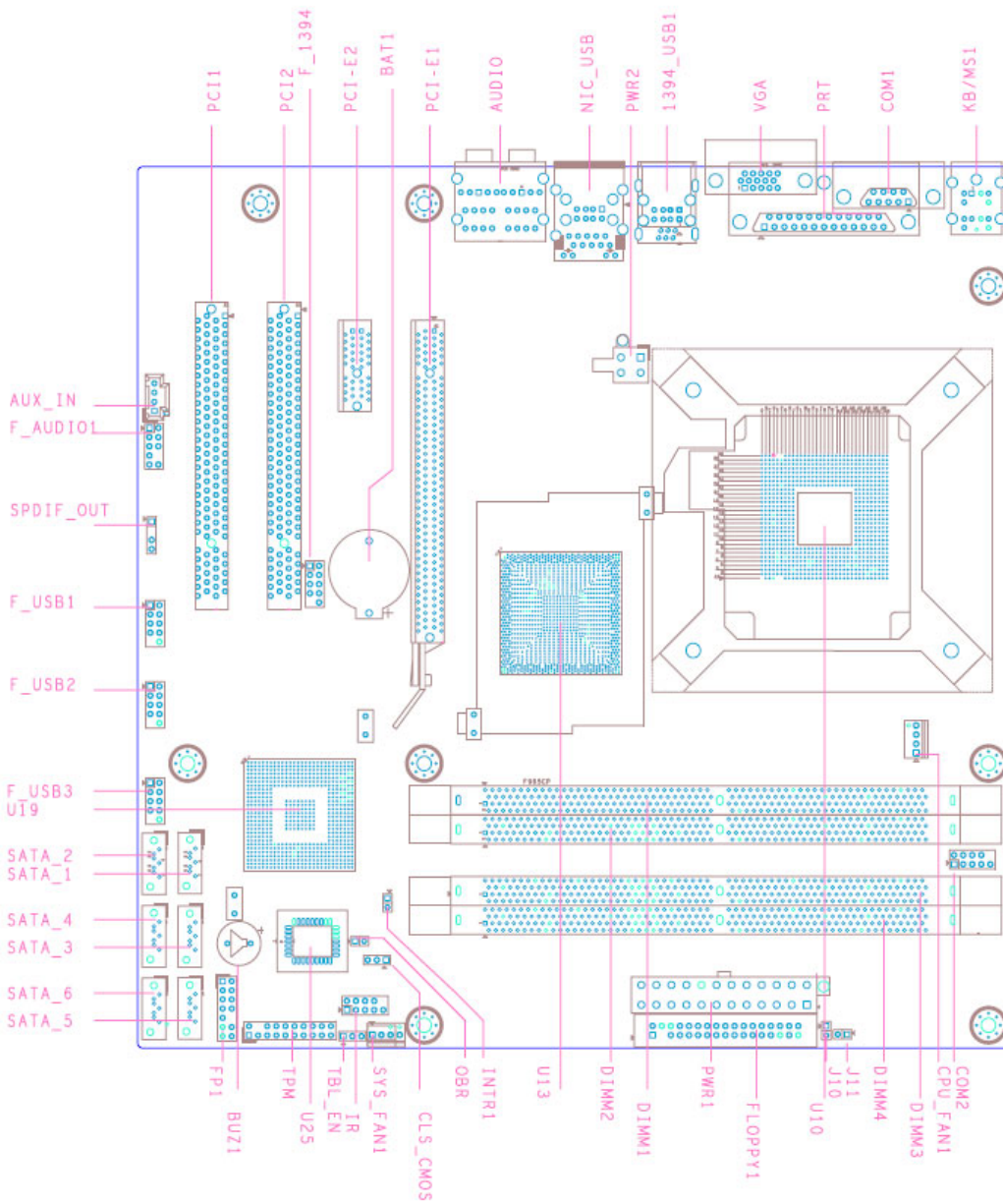
Wake-Up Event Specification (Default Setting in BIOS)

	S1	S3	S4	S5
Power Button	Enabled	Enabled	Enabled	Enabled
PS2 Keyboard/mouse	Disabled	Disabled	n/a	n/a
USB Keyboard/mouse	Enabled	Enabled	Disabled	n/a
PME	Enabled	Enabled	Enabled	Enabled
Modem (Ring)	Disabled	Disabled	Disabled	Disabled
RTC	Disabled	Disabled	Disabled	Disabled

Block Diagram



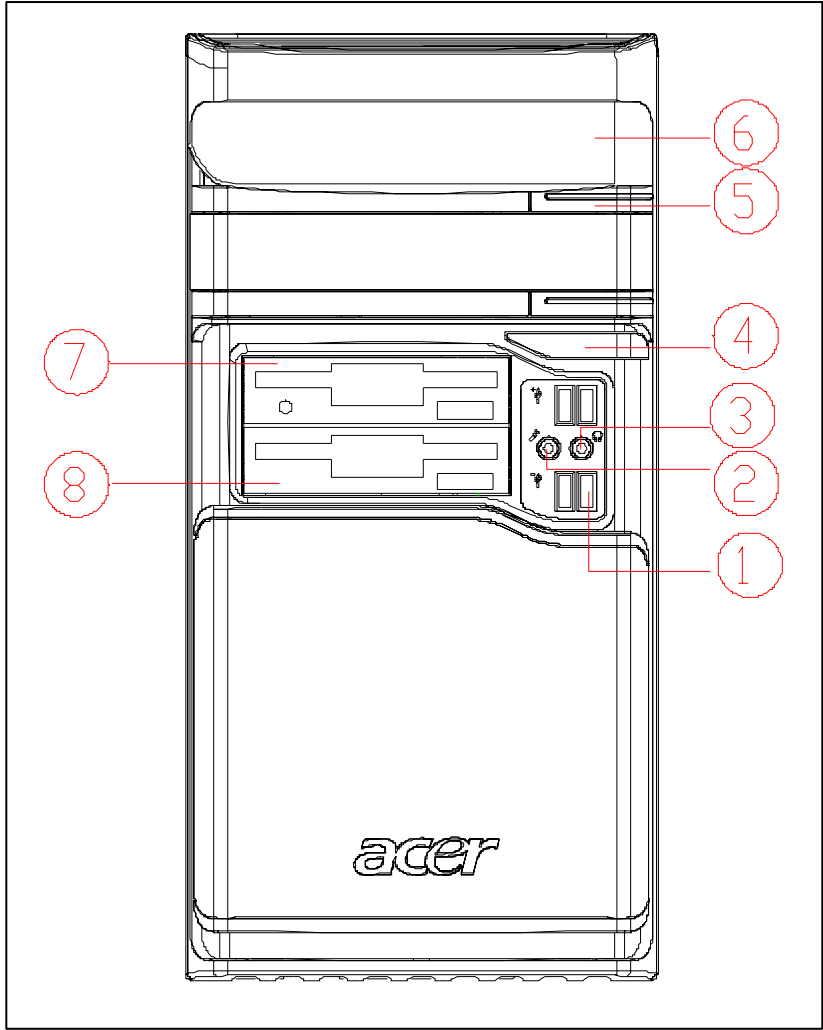
Main Board Placement



Item	Description
CPU_FAN1	CPU fan header
COM2	COM header 2
J11	Acer special requirement
J10	Acer special requirement
PWR1	24-pin power connector
FLOPPY1	Floppy connector 1
SYS_FAN1_1	System fan header 1_1 (three-pin)
CLR_CMOS	Clear CMOS
OBR	One button recovery
INTR1	Chassis intruder
FP1	Front panel switch/LED
TPM	Trusted platform module interface
SATA_5	SATA data transfer connector 5
SATA_6	SATA data transfer connector 6
SATA_3	SATA data transfer connector 3
SATA_4	SATA data transfer connector 4
SATA_1	SATA data transfer connector 1
SATA_2	SATA data transfer connector 2
F_USB3	Front panel USB header 3
F_USB2	Front panel USB header 2
F_USB1	Front panel USB header 1
F_AUDIO1	Audio Aux Input
BIOS_SEL1	SPI & FWH BIOS select
PWR2	Four-pin power connector
KB/MS1	Keyboard & mouse PS2 port
COM1	COM port
PRT	Printer port
VGA	VGA port
1394_USB1	1394 and USB*2 port
NIC_USB	LAN and USB*2 port
Audio	Audio port
PCI-E1	PCI-Express x16 connector
BAT1	Battery connector
PCI-E2	PCI-Express x1 connector
F_1394	Front 1394 header
PCI1, PCI2	PCI connector
U25	FWH BIOS socket
U19	ICH8 series south bridge
U13	965 series north bridge
U10	LGA 775 CPU socket
DIMM1, DIMM2, DIMM3, DIMM4	DDR2 memory connector

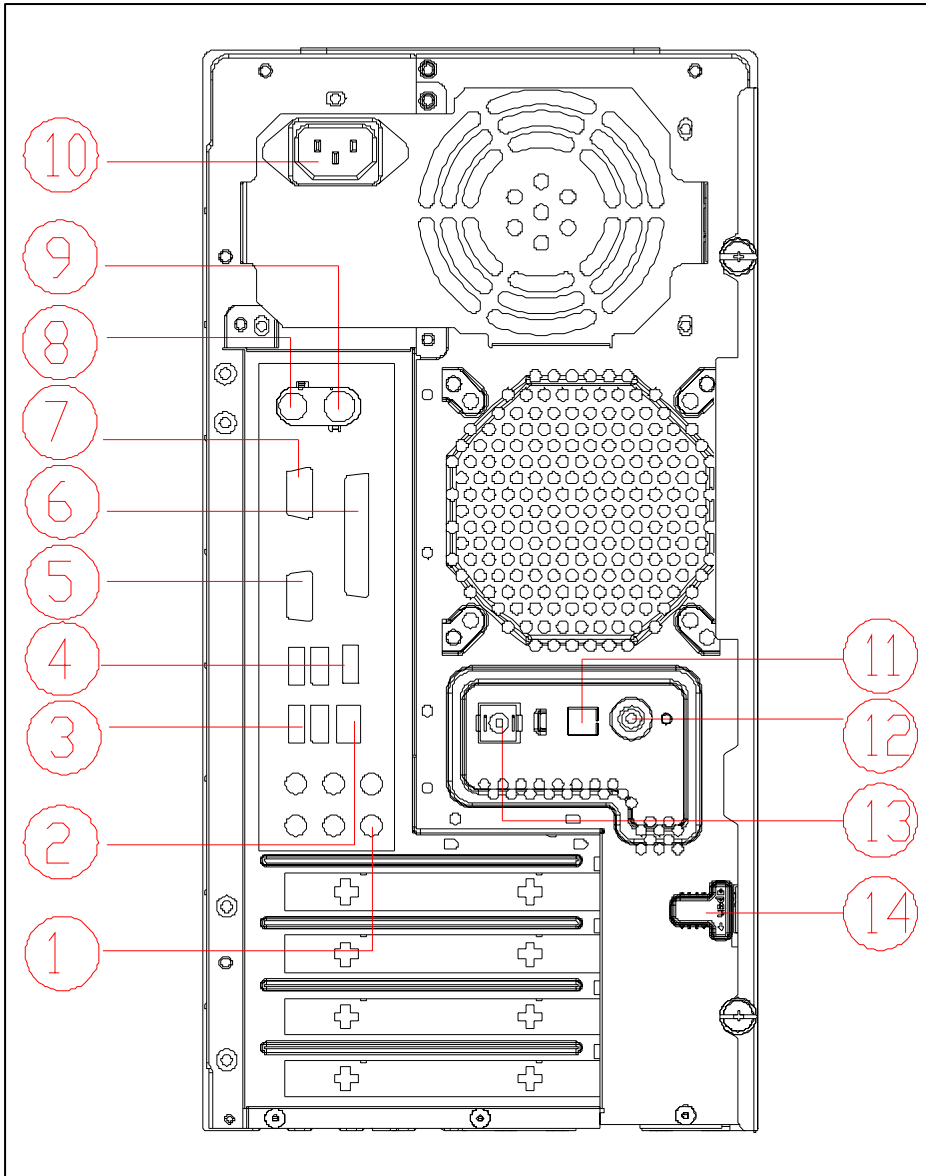
IR	Infrared function header
FLOPPY1	Floppy connector
BUZ1	Buzzer

Front Panel



#	Description
1	USB ports
2	Microphone-in jack
3	Speaker-out/Line-out port
4	Power button
5	CD reject button
6	Optical drive door
7	3.5" floppy disk drive
8	Card reader

Rear Panel



#	Description	#	Description
1	Six audio jacks (7.1 HD audio jack)	2	RJ-45 port
3	USB ports	4	1394 port
5	CRT/LCD port	6	Parallel port
7	Serial port	8	PS/2 keyboard
9	PS/2 mouse	10	Power cord port
11	SPDIF bracket	12	SPDIF port
13	Recovery switch holder	14	Lock handle

Acer Empowering Technology

Acer's innovative Empowering Technology makes it easy for you to access frequently used functions and manage your new Acer notebook. It features the following handy utilities:

- **Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- **Acer eDataSecurity Management** protects data with passwords and advanced encryption algorithms.
- **Acer ePerformance Management** improves system performance by optimizing disk space, memory and registry settings.

For more information, press the **e** key to launch the Empowering Technology menu, then click on the appropriate utility and select the Help or Tutorial function.

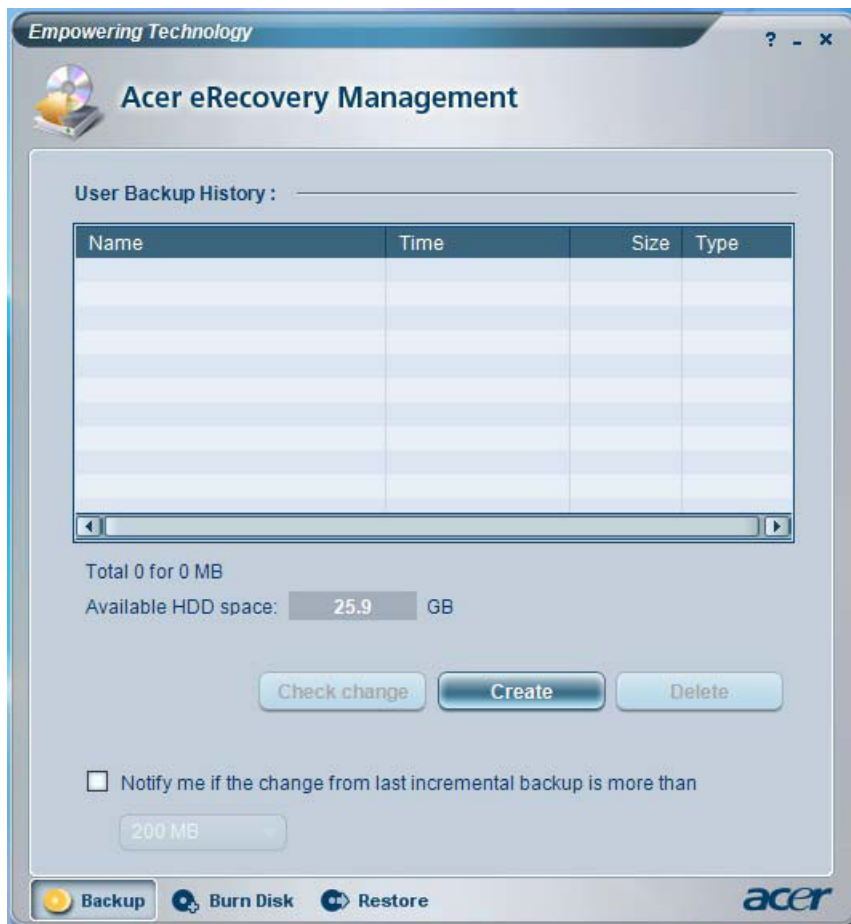
Empowering Technology password

Before using Acer eRecovery Management, you must initialize the Empowering Technology password. Right click on the Empowering Technology toolbar and select **Password Setup** to do so. If you do not initialize the Empowering Technology password, you will be prompted to do so when running Acer eRecovery Management for the first time.

Acer eRecovery Management

Acer eRecovery Management is a powerful utility that does away with the need for recovery disks provided by the manufacturer. The Acer eRecovery Management utility occupies space in a hidden partition on your system's HDD. User-created backups are stored on D:\ drive. Acer eRecovery Management provides you with:

- Password protection
- Recovery of applications and drivers
- Image/data backup:
 - Back up to HDD (set recovery point)
 - Back up to CD/DVD
- Image/data recovery tools
 - Recovery from a hidden partition (factory defaults)
 - Recovery from the HDD (most recent user-defined recovery point)
 - Recovery from CD/DVD



For more information, please refer to **Acer eRecovery Management**.

Note: If your computer does not come with a Recovery CD or System CD, please use Acer eRecovery Management's **System backup to optical disk** feature to burn a backup image to CD or DVD. To ensure the best results when you recover a system by using a CD or Acer eRecovery Management,

detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

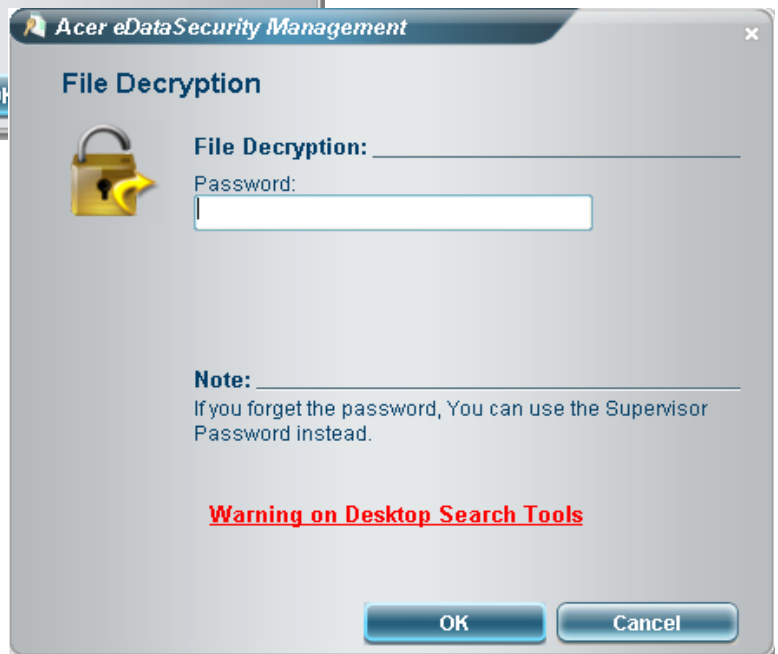
Acer eDataSecurity Management

Acer eDataSecurity Management is a handy file encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows explorer as a shell extension for quick and easy data encryption/decryption and also supports on-the-fly file encryption for MSN Messenger and Microsoft Outlook.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption. This encryption will be used to encrypt files by default, or you can choose to enter your won file-specific password when encrypting a file.

Note: The password used to encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file. **Be sure to safeguard all related passwords!**





Acer ePerformance Management

Acer ePerformance Management is a system optimization tool that boosts the performance of your Acer notebook. It provides and expresses optimization method to release unused memory and disk space quickly. The user can also enable advanced options for full control over the following option:

- Memory optimization: to releases unused memory and check usage
- Disk optimization: to remove unneeded items and files
- Speed optimization: to improve the usability and performance of your Windows XP system



For more information, please refer to **Acer eRecovery Management**.

Note: If your computer does not come with a Recovery CD or System CD, please use Acer eRecovery Management's **System backup to optical disk** feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

Acer eRecovery

Acer eRecovery is a tool to quickly backup and restore the system. Users can create and save a backup of the current system configuration to hard drive, CD, or DVD. Acer eRecovery consists of the following functions:

1. Create backup
2. Restore from backup
3. Create factory default image CD
4. Re-install bundled software without CD
5. Change Acer eRecovery password

Create Backup

Users can create and save backup images to hard drive, CD, or DVD. Please follow the steps below to create backup.

1. Boot to Windows XP.
2. Press <Alt> + <F10> to open the Acer eRecovery utility.
3. Enter the password to proceed. The default password is six zeros.
4. In the Acer eRecovery window, select **Recovery settings** and click **Next**.
5. In the Recovery settings window, select **Backup snapshot image** and click **Next**.
6. Select the backup method:
 - Use **Backup to HDD** to store the backup disc image on drive D:\
 - **Backup to optical device** to store the backup disc image on CD or DVD. This option is only available on systems that include an optical disc burner.
7. After choosing the backup method, click **Next**.

Then follow the instruction on the screen to complete the process.

Restore from Backup

Users can restore backup previously created (as stated in the **Create Backup** section) from hard drive, CD, or DVD. Please follow the steps below to restore from backup.

1. Boot to Windows XP.
2. Press <Alt> + <F10> to open the Acer eRecovery utility.
3. Enter the password to proceed. The default password is six zeros.
4. In the Acer eRecovery window, select **Recovery actions** and click **Next**.
5. Select the desired restore action and follow the instructions on screen to complete the restore process.

Create Factory Default Image CD

When the System CD and Recovery CD are not available, you can create them by using this feature. Please follow the steps below to create factory default image CD.

1. Boot to Windows XP.
2. Press <Alt> + <F10> to open the Acer eRecovery utility.
3. Enter the password to proceed. The default password is six zeros.
4. In the Acer eRecovery window, select **Recovery settings** and click **Next**.
5. In the Recovery settings window, select **Burn image to disc** and click **Next**.

-
6. In the Burn image to disc image, select **Factory default image** and click **Next**.
 7. Follow the instructions on screen to complete the process.

Re-install Bundled Software without CD

Acer eRecovery stores pre-loaded software internally for easy driver and application re-installation.

1. Boot Windows XP.
2. Press <Alt> + <F10> to open the Acer eRecovery Utility.
3. Enter the password to proceed. The default password is six zeros.
4. In the Acer eRecovery window, select **Recovery actions** and **Next**.
5. In the Recovery settings window, select **Re-install applications / drivers** and click **Next**.
6. Select the desired driver / application and follow the instructions on screen to re-install.

After the first launch, Acer eRecovery prepared all the needed software and may take few seconds to bring up the software content window.

Change Password

Acer eRecovery and Acer disc-to-disc recovery are protected by a password that can be changed by users. Follow the steps below to change the password in Acer eRecovery.

1. Boot to Window XP.
2. Press <Alt> + <F10> to open the Acer eRecovery utility.
3. Enter the password to proceed. The default password is six zero.
4. In the Acer eRecovery window, select **Recovery settings** and click **Next**.
5. In the Recovery settings window, select **Password: Change Acer eRecovery password** and click **Next**.

Follow the instructions on screen to complete the process.

Acer Disc-to-Disc Recovery

Restore without a Recovery CD

This recovery process helps you restore the C:\ drive with the original software content that is installed when you purchase your system. Follow the steps below to rebuild your C:\ drive.

Note: The C:\ drive will be reformatted and all data will be erased. It is important to back up all data files before you use this option.

1. Restart the system.
2. While the Acer logo comes out, press <Alt> + <F10> to enter the recovery process.
3. The message **The system has password protection. Please enter 000000:** will be displayed.
4. Enter six zeros and continue.
5. The Acer Recovery main page appears.
6. Use the arrow keys to scroll through the items (operating system versions) and press <Enter> to select.

Multilingual Operating System Installation

Follow the instructions to choose the operating system and language you prefer when you first power on the system.

1. Turn on the system.
2. Acer's multilingual operating system selection menu will pop up automatically.
3. Use the arrow keys to scroll to the language version you want. Press <Enter> to confirm your selection.
4. The operating system and language you choose now will be the only option for future recovery operations.
5. The system will install the operating system and language you choose.

Hardware Specification and Configuration

Processor

Item	Specification
Type	Intel Prescott 775 / Smithfield / Cedar Mill / Presler / Conroe
Feature	<ul style="list-style-type: none">• FSB: 533/800/1066MHz• Socket type: Intel socket T LGA 775-pin• HyperThreading Technology and FSB Dynamic Bus Inversion (DBI) support• 36-bit host bus addressing support, allowing the CPU to access the entire GMCH memory address space

System Main Chipset

Item	Specification
Core logic	Intel G965 + Intel ICH8DH
Super I/O controller	ITE IT8718DX with hardware monitor
LAN controller	Intel 82566
Memory controller	Intel 965G
1394 controller	TI TSB43AB23PDTG4
Serial ATA	Six pendent SATA2 controller embedded in ICH8 each supporting two devices
Audio subsystem controller	Realtek ALC888 (high definition audio)
VGA controller	Intel G965

North Bridge

Item	Specification
General information	North bridge Broadwater is a Graphics Memory Controller Hub (GMCH) designed for use with a LGA 775 (Land Grid Array) socket T processor. The GMCH provides the CPU interface, DDR2 interface, PCI Express interface, DMI (Direct Media Interface) and integrated graphics with display interfaces. It communicates with the I/O Controller Hub (ICH8) over DMI (Direct Media Interface).
Feature	<ul style="list-style-type: none">• 1210 ball FC-BGA package• Single processor support with 533/800/1066MHz data transfer rate• Min. 128 MB memory capacity, assuming single channel mode by using 256MB technology• Max. 8GB memory capacity in dual channel interleaved mode by using 1GB technology• DMI 1.0 support• PCI Express x16 graphics interface• One 16-lane PCI Express port intended for graphics attach, fully compliant to the PCI Express Base Specification revision 1.0a

South Bridge

Item	Specification
General Information	The Intel ICH8 is the other main component of the Intel Broadwater chipset that integrates many I/O functions and provides the I/O subsystem with access to the rest of the platform.
Feature	<ul style="list-style-type: none">• 609-pin BGA package• Direct Media Interface (DMI) to the GMCH• PCI Express specification, revision 1.0 compliant• Four PCI Express Root ports support• PCI local bus specification, revision 2.3 compliant with support for 33MHz PCI operations (seven PCI Request/Grant pairs support)• ACPI power management logic support• Enhanced DMA controller, interrupt controller, and timer functions• Integrated Serial ATA host controller with independent DMA operation on four ports and AHCI support• USB host interface with support for eight USB ports; four UHCI host controllers; one EHCI high speed USB 2.0 host controller• System Management Bus (SMBus) specification, version 2.0 with additional support for I²C devices• Azalia specification support• Low pin count (LPC) interface support• I/O APIC 2.0

System Clock

Item	Specification
General information	All clocks are generated by G965 and CK505.
Clock synthesizer	<ul style="list-style-type: none">• Host: 133/200/266MHz (system bus 533/800/1066MHz)• Memory system (DDR2): 533/667/800MHz• PCI: 33MHz• PCI Express: 100MHz• DMI: 100MHz• USB: 48MHz• 1394: 33MHz• SIO: 33MHz• ICH8: 14.318, 33, 48, and 100MHz• RTC: 32.768KHz• LAN: 25MHz

System Memory

Item	Specification
Feature	<ul style="list-style-type: none"> • The GMCH system memory controller directly supports one or two channels of memory (each channel consisting of 64 data lines). • DDRII memory 533/667/800MHz support • I/O voltage of 1.8V for DDRII • Only unbuffered DIMMs support • Max. memory bandwidth of 6.4GB/s in single channel or dual channel asymmetric mode, or 12.8GB/s in dual channel interleaved mode assuming DDRII 800MHz • Four banks for all DDRII devices up to 512MB density support, eight banks for 1GB DDRII devices • Using 256MB technology, min. 128MB memory capacity, assuming single channel mode • Using 1GB technology dual channel interleaved mode, max. 8GB memory capacity • Max. 8GB DRAM address decode space • Up to 32 simultaneous open pages per channel support (assuming four banks of eight bank devices) • Improved flexible memory architecture

Super I/O

Item	Description
Chip	ITE IT8718DX
Feature	<ul style="list-style-type: none"> • Meets LPC specification 1.0 • PS/2 keyboard and PS/2 mouse support • Up to four 3.5" disk drives support • Two serial ports, one EPP/ECP parallel port support • Three fans support (including fan speed control, speed monitoring inputs) • IrDA 1.0 SIR protocol with maximum baud rate up to 115.2K bps • Hardware monitor support

USB Interface

Item	Description
Chip	ICH8DH
Feature	<ul style="list-style-type: none"> • Eight USB 2.0 ports support • Dual stack with RJ-45 back panel connector • Dual stack with 1394 connector in rear side • Two header supporting two USB ports for front panel cabling

Audio Interface

Item	Description
Chip	Realtek ALC888 (high definition audio)
Feature	<ul style="list-style-type: none"> • 48-pin LQFP green package • High performance DACs with 95dB SNR (A-Weighting), ADCs with 85dB SNR (A-Weighting) • Meets performance requirements for audio on PC2001 systems and Microsoft WLP 2.x • Ten DAC channels 16/20/24bit PCM format support for 7.1 sound playback, plus two channels of independent stereo sound output (multiple streaming) through the front panel output • Two stereo ADCs 16/20/24bit PCM format support, one for stereo microphone, one for legacy mixer recording • All DACs 44.1/48/96/192KHz sample rate support • 16/20/24bit S/PDIF out supports 44.1/48/96/192KHz sample rate. • 16/20/24bit S/PDIF in supports 44.1/48/96KHz sample rate. • Up to four channels of microphone array input are supported for AEC/BF application. • High-quality analog differential CD input • External PCBEEP input and built-in digital BEEP generator • Reserve analog mixer architecture for backward compatibility with AC'97 • Wide range (-80dB ~ +42dB) volume control with 1.5dB resolution of analog to analog mixer gain • Two GPIOs (General Purpose Input/Output) for customized applications • Digital power support: 3.3V • Analog power support: 3.5V ~ 5.25V • Enhanced S/PDIF in circuitry ensures compatibility with consumer DVD players. • Pin compatible with the ALC880 and ALC882

1394 Interface

Item	Description
Chip	TSB43AB23PDTG
Feature	<ul style="list-style-type: none"> • Compliant with the IEEE 1394-1995 Release 1.0 and support IEEE 1394a P2000 specifications with full 1394a P2000 • Compliant with the PCI V2.2 specification and card bus interfaces support • Three 1394a ports enable connections at 100/200/400Mbps • Equipped with an OHCI compliant programming interface and I²C EEPROMs or four-wire serial ROMs

LAN Interface

Item	Description
Chip	Intel 82566
Feature	<ul style="list-style-type: none"> • 81-pin, 1.0 mm pitch, 10 mm x 10 mm FCMMAP (BGA) package • IEEE 802.3ab compliant • Robust end to end connections over various cable length • Full duplex at 10/100/1000Mbps and half duplex at 10 or 100Mbps • IEEE 802.3ab auto-negotiation with next page support • 10/100 downshift: automatic link speed adjustment with poor quality cable • Automatic MDI crossover • Advanced cable diagnostics • Footprint compatible with 82562V devices for a single-board dual design (Gigabit and 10/100) • LCI interface for a very low power 10/100 link • Gigabit LAN connect interface: low pin count, high speed interface with special low power idle modes and allows PHY placement proximity to I/O back panel • Three LED outputs • Clock supplied to MAC • Full chip power down: lowest power state support • Power consumption less than 1.16W

Hardware Monitor Function

Item	Description
Feature	<ul style="list-style-type: none"> • Smart fan control system, Thermal Cruise and Speed Cruise support • Six VID input pins for CPU Vcore identification • Two thermal inputs from optionally remote thermistors or 2N3904 transistors or Pentium 4 thermal diode output • Four external voltage detect inputs • Three intrinsic voltage monitoring (typical for Vbat, +5VSB, +5CC) • Two fan speed monitoring inputs • Two fan speed control (DC analog output) • WATCHDOG comparison of all monitored items • Overheat indication output • Issue SMI#, IRQ, OVT# to activate system protection

BIOS ROM

Item	Description
Type	SST 39VF080
Package	40-pin TSOP
Block Size	64KB per block
Supply current	Active current: 15mA (typical) Standby current: 4uA (typical)
Remark	The 32-pin PLCC package 1MB Flash ROM SST 39VF080 is used for BIOS, keyboard encoder and power controller codes. It occupies system memory area E0000-FFFF. After posting system, the shadow RAM function will be enabled.

BIOS

Item	Description
BIOS code programmer	Phoenix Award
Version	Phoenix BIOS 6.00 PG
Feature	<ul style="list-style-type: none">• ROM type: flash ROM• ROM size: 4MB• Protocol supported: PCIX 1.0, PCI 2.2, APM 1.2, VESA/DPMS (VBE/PM V1.1), SMBIOS 2.3, E-IDE 1.1, ACPI 1.0b, ESCD 1.03, PnP 1.0a, Bootable CD-ROM 1.0• Boot from CD-ROM feature: yes• LS-120 FDD drive support: yes• BIOS boot block feature: yes

Note: The BIOS can be overwritten/updated by using the flash utility.

BIOS Hotkey List

Hotkey	Description
DEL	To enter BIOS Setup Utility: press the DEL key while the system is booting to enter BIOS Setup Utility.

Environment Requirements

Item	Specification
Temperature	
Operating	+5°C ~ +35°C
Non-operating	-20°C ~ +60°C (storage packed), -10°C ~ +60°C (unpacked)
Humidity	
Operating	15% to 80% RH, non-condensing
Non-operating	10% to 90% RH, non-condensing at 40°C
Vibration	
Operating	5 ~ 500Hz, 2.20g RMS random, 10 minutes per axis in all three axes
Non-operating	5 ~ 500Hz, 1.09g RMS random, one hour per axis in all three axes

Power Management Function (ACPI Support Function)

Device Standby Mode

- Independent power management timer for hard disk drive devices (zero to 15 minutes, time step = one minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method: device activated (keyboard for DOS, keyboard & mouse for Windows).
- Resume recovery time: three to five seconds.

Global Standby Mode

- Global power management timer (two to 120 minutes, time step = 10 minutes).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Resume recovery time: seven to 10 seconds.

Suspend Mode

- Independent power management timer (two to 120 minutes, time step = 10 minutes) or pushing external switch button.
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant state.
- LED on the panel turns amber color.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Return to original state by pushing external switch button, modem ring in and USB keyboard for ACPI mode.

ACPI

- ACPI specification 1.0b
- S0, S1, S3 and S5 sleep state support
- Onboard device power management support
- Onboard device configuration support

Setup Utility

About the Setup Utility

The computer uses the Phoenix Award BIOS (Basic Input and Output System) with support for Windows Plug and Play. The CMOS chip on the main board contains the ROM setup instructions for configuring the main board BIOS.

The BIOS Setup Utility displays the system's configuration status and provides you with options to set system parameters. The parameters are stored in Battery-backed-up CMOS RAM that saves this information when the power is turned off. When the system is turned back on, the system is configured with the values you have stored in CMOS. The BIOS Setup Utility enables you to configure:

- Hard drives, diskette drives and peripherals
- Video display type and display options
- Password protection from unauthorized use
- Power management features

The settings made in the Setup Utility affect how the computer performs. Before using the Setup Utility, ensure that you understand the Setup Utility options. This Setup Utility should be used:

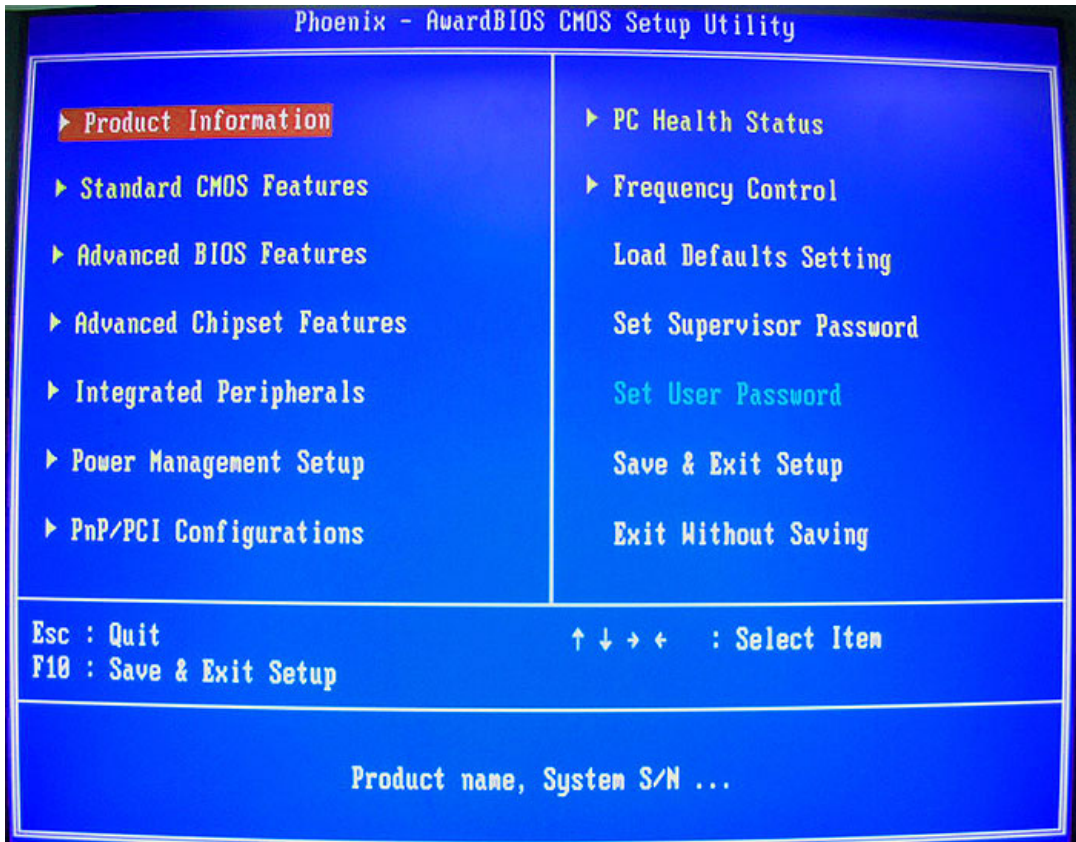
- when changing the system configuration
- when a configuration error is detected and you are prompted to make changes to the Setup Utility
- when trying to resolve IRQ conflicts
- when making changes to the Power Management configuration
- when changing the password or making other changes to the Security Setup

Control Keys

Item	Description
←↑↓→	Move to the item you want to select
ENTER	Select the item you want or enter the sub-menu
ESC	Retreat from the current page
Pg Up	Increase the numeric value or make changes
Pg Dn	Decrease the numeric value or make changes
F1	General help
F5	Restore the previous CMOS value from CMOS
F7	Load the factory default setting
F10	Save all the CMOS changes
Exit	Leave the Setup Utility

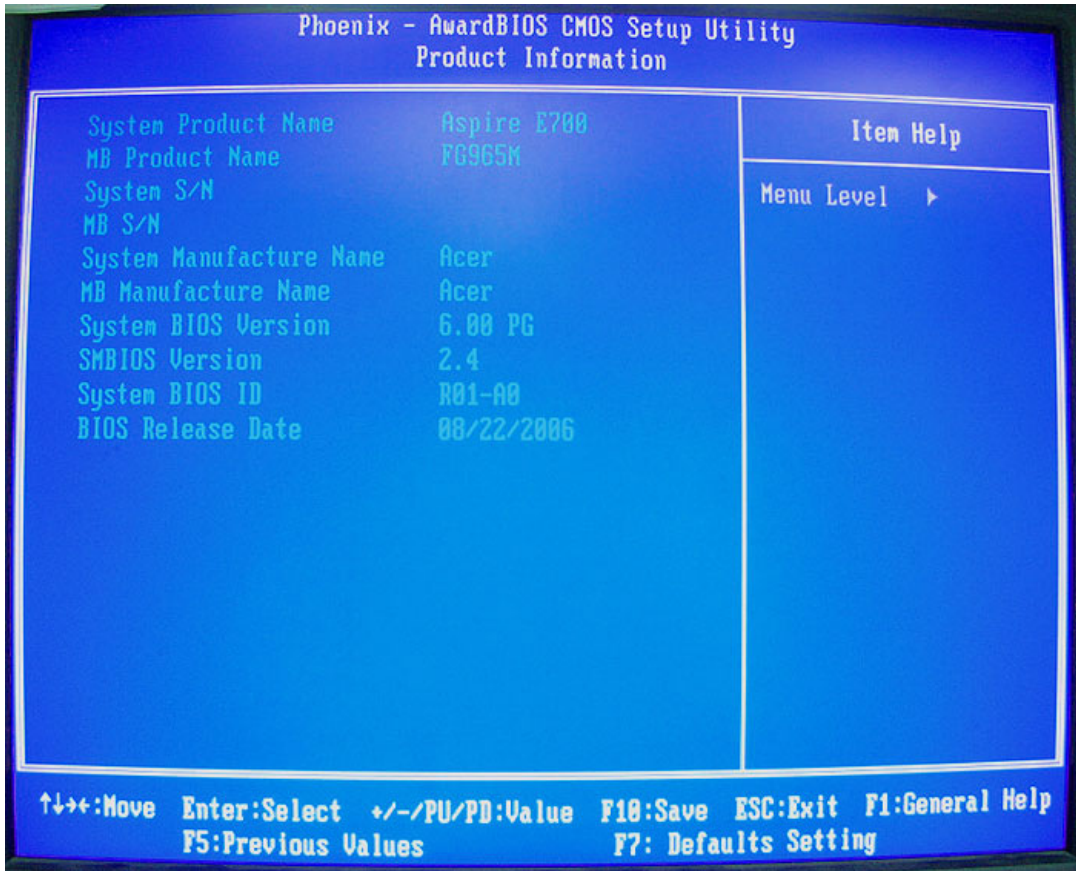
Entering the Setup Utility

Power on the computer and the system will start POST (Power On Self Test). When the message **Press DEL to enter SETUP** appear on the screen, press the key **DEL** to enter the setup menu. Once you enter the Phoenix Award BIOS CMOS Setup Utility, the main menu will appear on the screen. Use arrow keys to select the item you want and press **ENTER** to make the setting or enter the sub-menu.

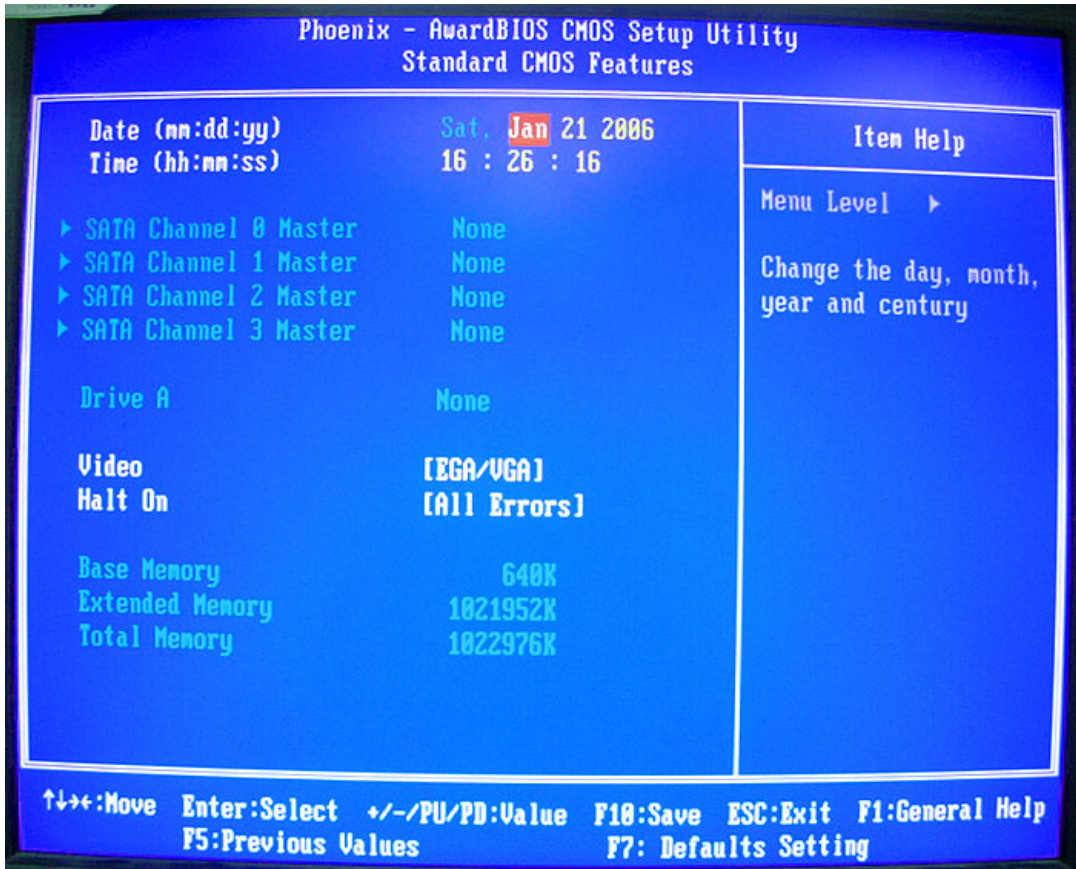


Product Information

This page displays product information about your system. You can press **ESC** to return to the main menu setting page.



Standard CMOS Features



Date and Time

The Date and Time items show the current date and time set on the computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

SATA Devices

This main board features four SATA connectors supporting four SATA drives. SATA refers to Serial ATA (Advanced Technology Attachment), the standard interface for the IDE hard drives which are currently used in most PCs.

Drive A

This item will identify the type of floppy disk drive A that has been installed.

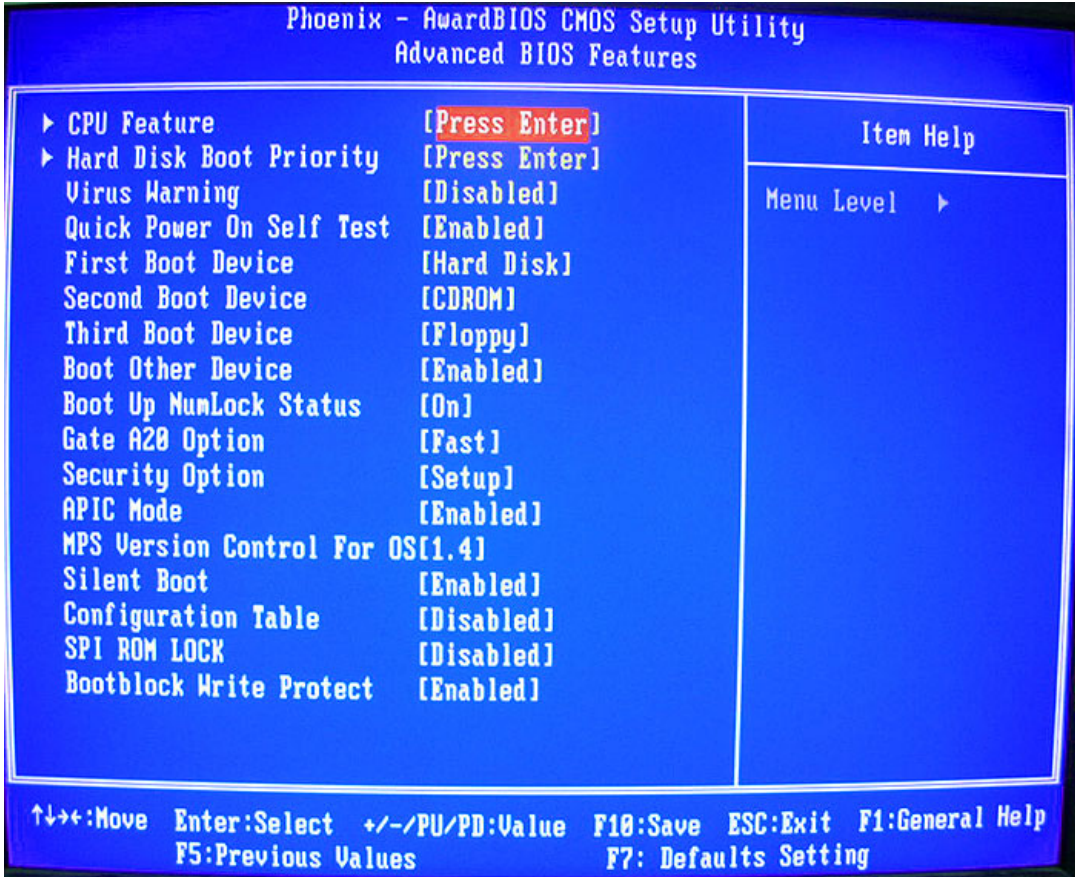
Halt On

This item determines whether the system stops or not if an error occurs during system boot-up. At defaults **All, But Keyboard**, the boot will be interrupted for all errors except a keyboard error.

Base Memory, Extended Memory, and Total Memory

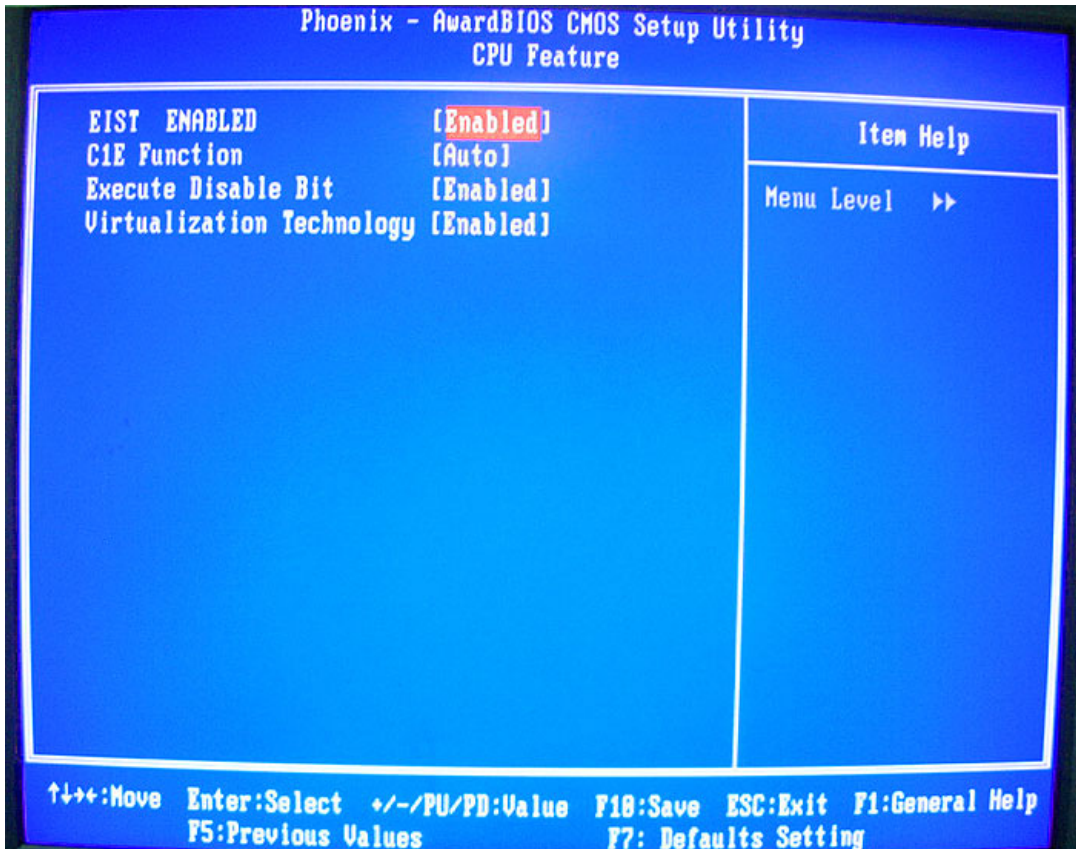
These items are automatically detected by the system at start-up time. You can not make changes to these fields.

Advanced BIOS Features



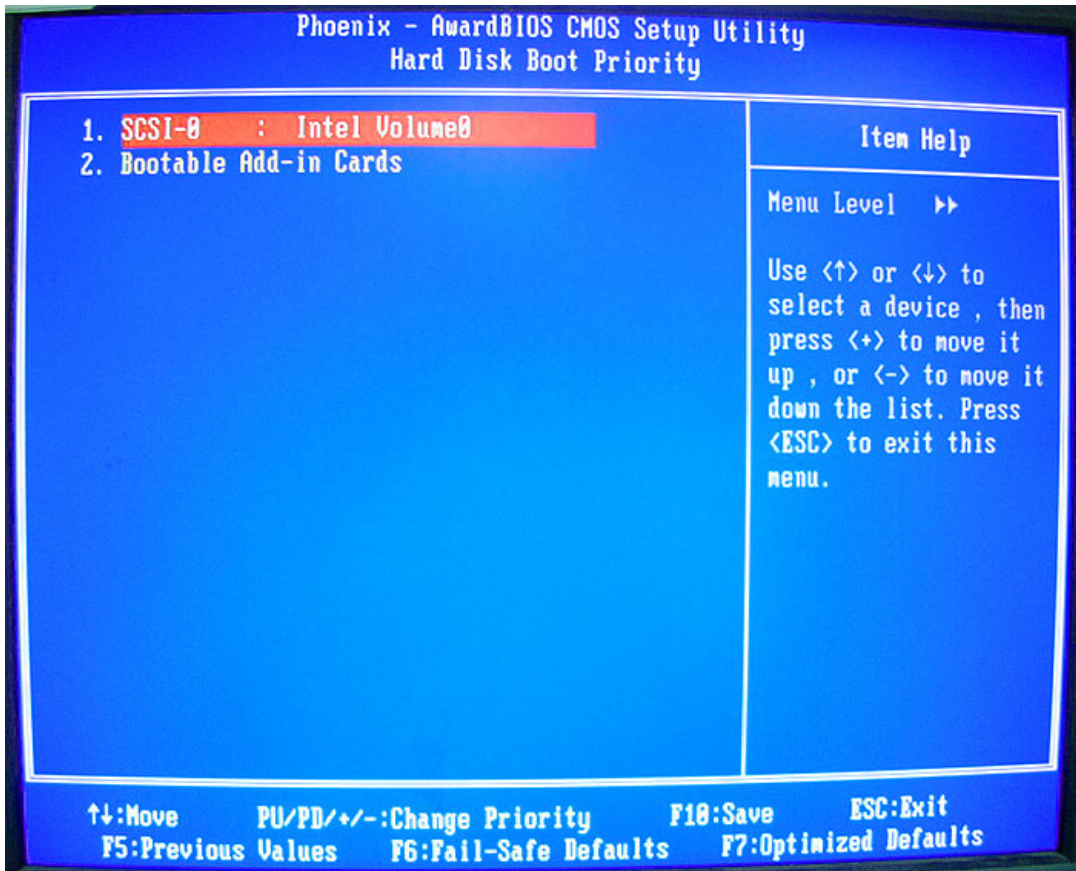
CPU Features

Scroll to this item and press **ENTER** to enter the sub-menu.



Hard Disk Boot Priority

Scroll to this item and press **ENTER** to enter the sub-menu on next page.



Virus Warning

This item enables or disables the boot sector virus protection.

Quick Power On Self Test

You can enable this item to shorten the POST and have your system startup faster. You might like to enable this item after you are confident that your system hardware is operating smoothly.

First / Second / Third Boot Device

Use these three items to select the priority and order of the devices that your system searches for an operating system when the system is powering on.

Boot Other Device

When it is enabled, the system searches all other possible locations for an operating system. If it fails to find one in the devices specified under the first, second, and third boot devices.

Boot Up NumLock Status

This item defines if the keyboard NumLock key is active when your system is booted.

Gate A20 Option

This item defines how the system handles legacy software that was written for an earlier generation of processors. Set this item for the default value.

Security Option

If you have installed password protection, this item defines if the password is required at system start up, or if it is only required when a user tries to enter the Setup Utility.

APIC Mode

This item allows you to enable or disable the APIC (Advanced Programmable Interrupt Controller) mode. APIC provides symmetric multi-processing (SMP) for systems.

MPS Version Control For OS

This item specifies which version of MPS (Multi-Processor Specification) this main board will use. Set this item for its default setting.

Silent Boot

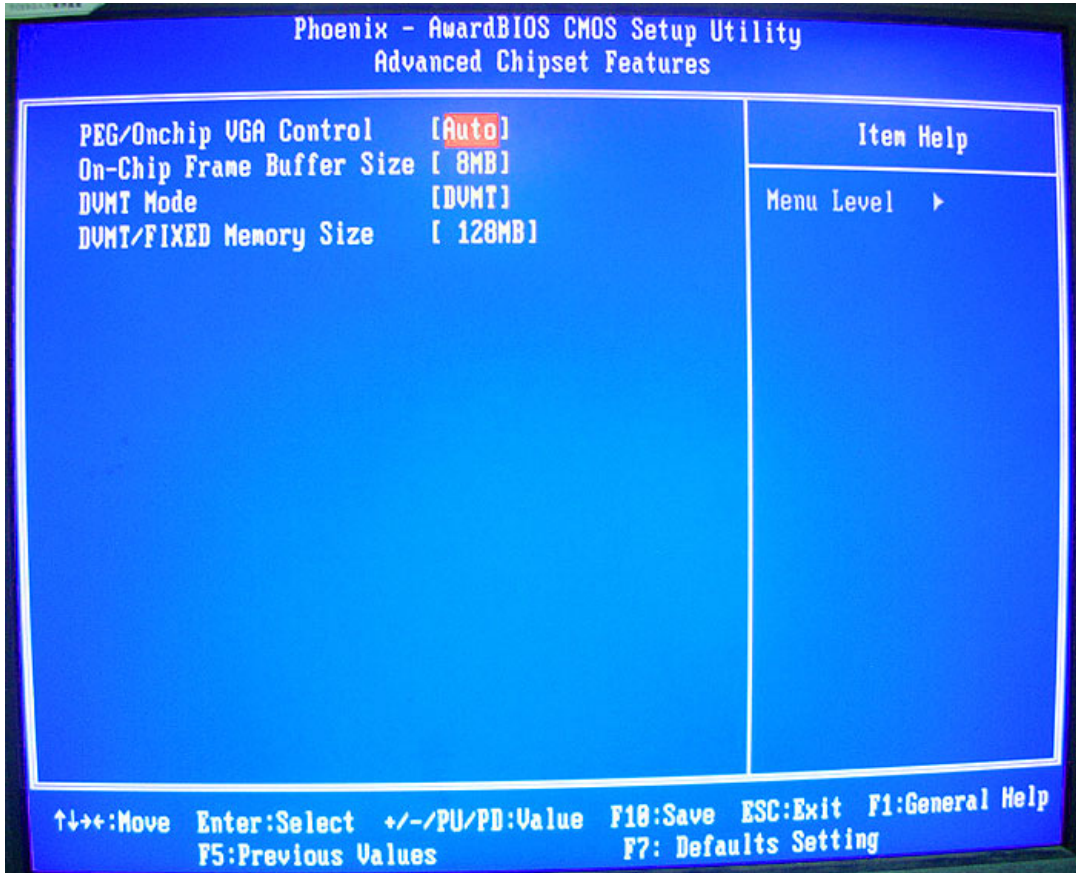
This item enables or disables the Silent Boot function.

Configuration Table

This item enables or disables the Configuration Table in BIOS setting.

Advanced Chipset Features

These items define critical timing parameters of the main board. You should set these items for their default values unless you are very familiar with the technical specification of your system hardware. If you change the values incorrectly, you may introduce fatal errors or recurring instability into your system.



PEG / OnChip VGA Control

This item allows you to choose the primary display card.

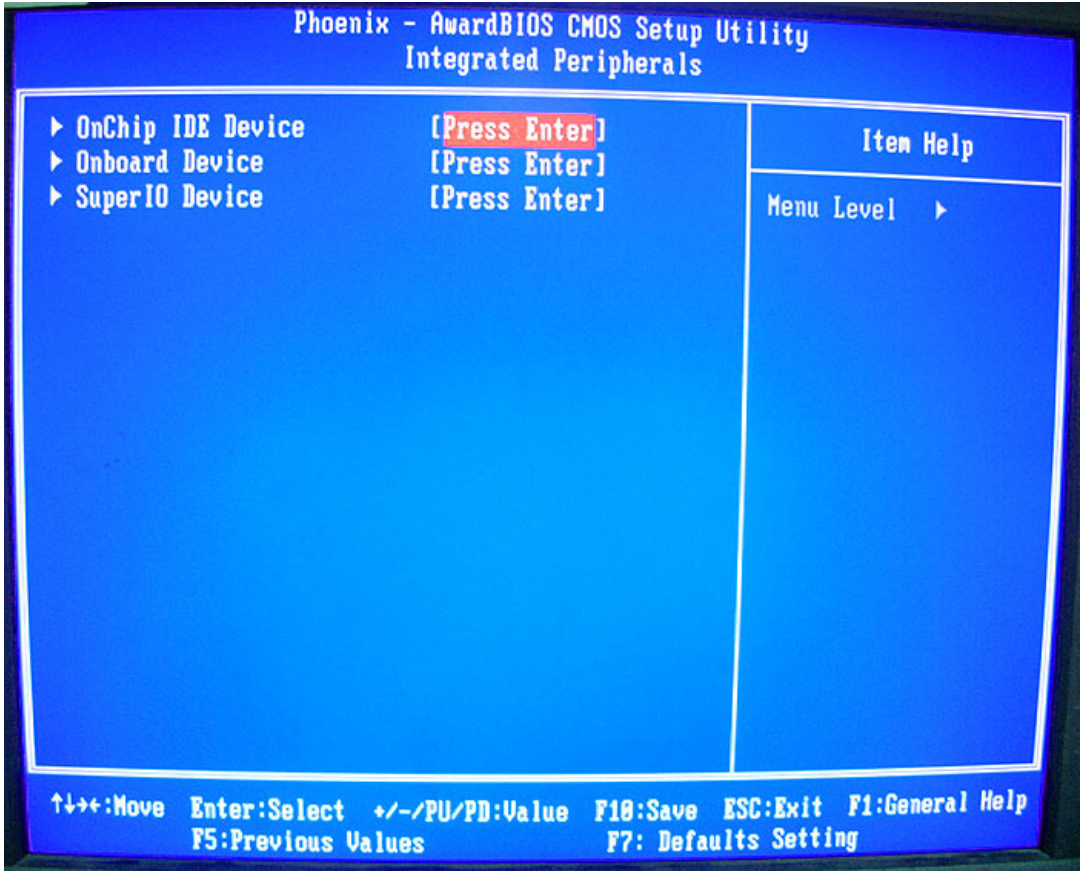
OnChip Frame Buffer Size

This allows you to set the VGA frame buffer size.

DVMT Mode

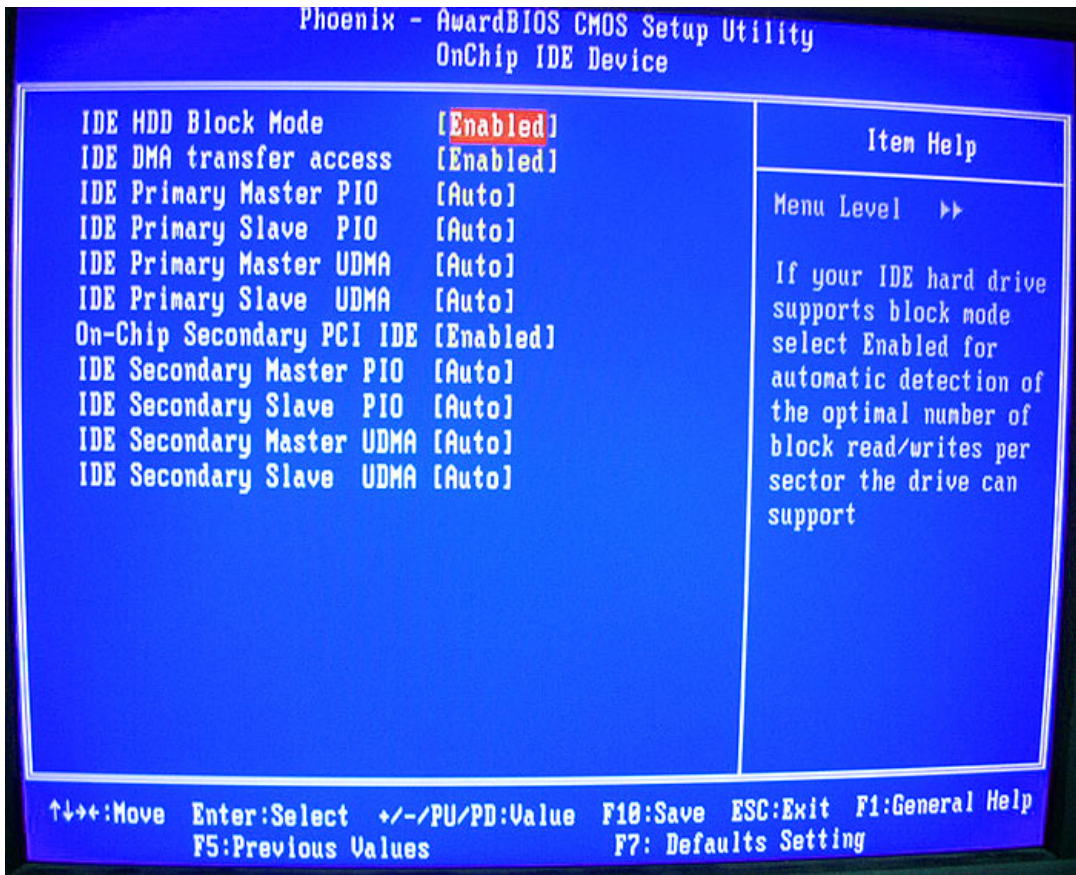
DVMT is Dynamic Video Memory Technology. This item helps you select video mode.

Integrated Peripherals



OnChip IDE Device

Scroll to this item and press **ENTER** to enter the sub-menu shown as below.



IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode, select Enabled for automatic detection of the optimal number of block read/write per sector the drive can support.

IDE DMA Transfer Access

This item allows you to enable the transfer access of the IDE DMA.

On-Chip Primary/Secondary PCI IDE

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select Enabled to activate each channel separately.

IDE Primary/Secondary Master/Slave PIO

Each IDE channel supports a master device and a slave device. These four items let you assign which kind of PIO (Programmed Input/Output) is used by IDE devices. Choose Auto to let the system auto detect which PIO mode is optimal, or select a PIO mode from zero to four.

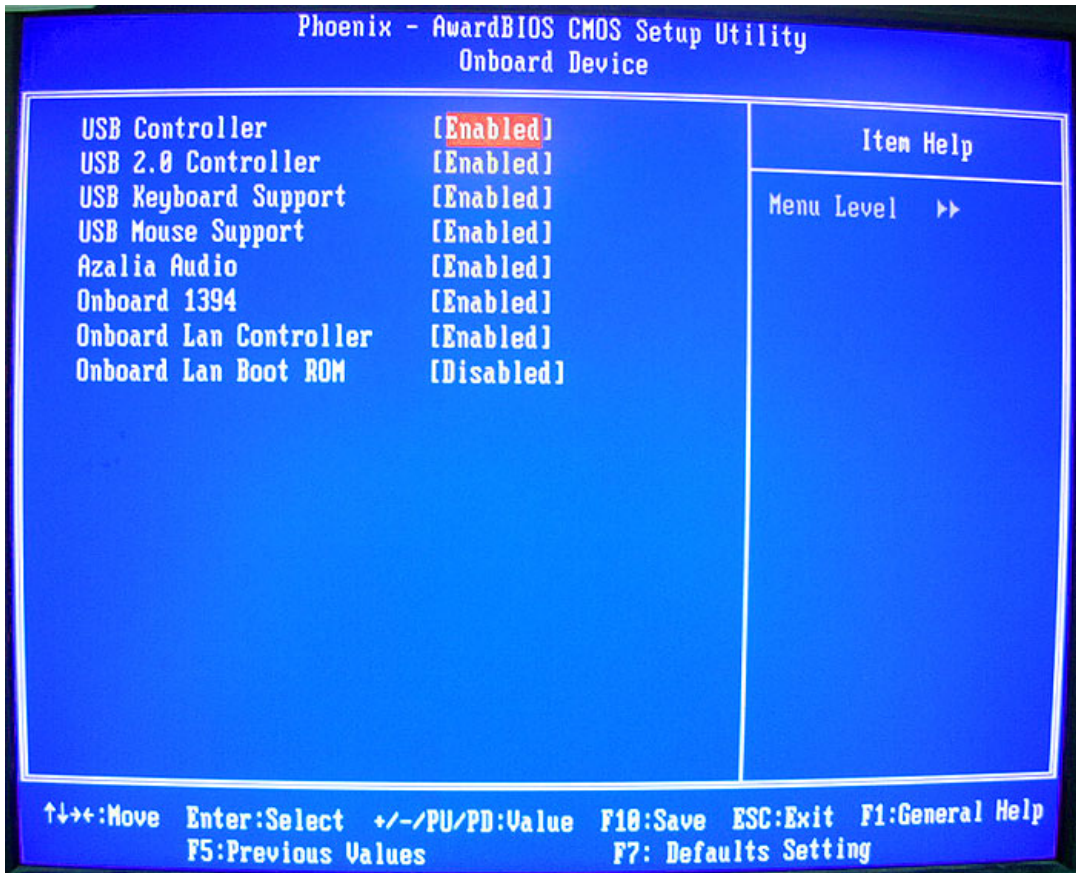
IDE Primary/Secondary Master/Slave UltraDMA

This main board supports UltraDMA technology, which provides faster access to IDE devices. If you install a device that supports UltraDMA, you can change the item on this list to Auto. You

may have to install the UltraDMA driver supplied with this main board in order to use an UltraDMA device.

Onboard Device

Scroll to this item and press **Enter** to enter the sub-menu shown as below.



USB Controller

You can enable or disable the onboard USB controller. We recommend users to keep the default value. Disabling it might cause the USB devices not to work properly.

USB 2.0 Support

This item enables or disables the onboard USB 2.0.

USB Keyboard Support

You can enable this item if you want to use a keyboard connected through the USB port in a legacy operating system (such as DOS) that does not support Plug and Play.

USB Mouse Support

You can enable this item if you want to use a mouse connected through the USB port in a legacy operating system (such as DOS) that does not support Plug and Play.

Onboard 1394

This item allows users to enable or disable the onboard 1394 function.

Onboard LAN Controller

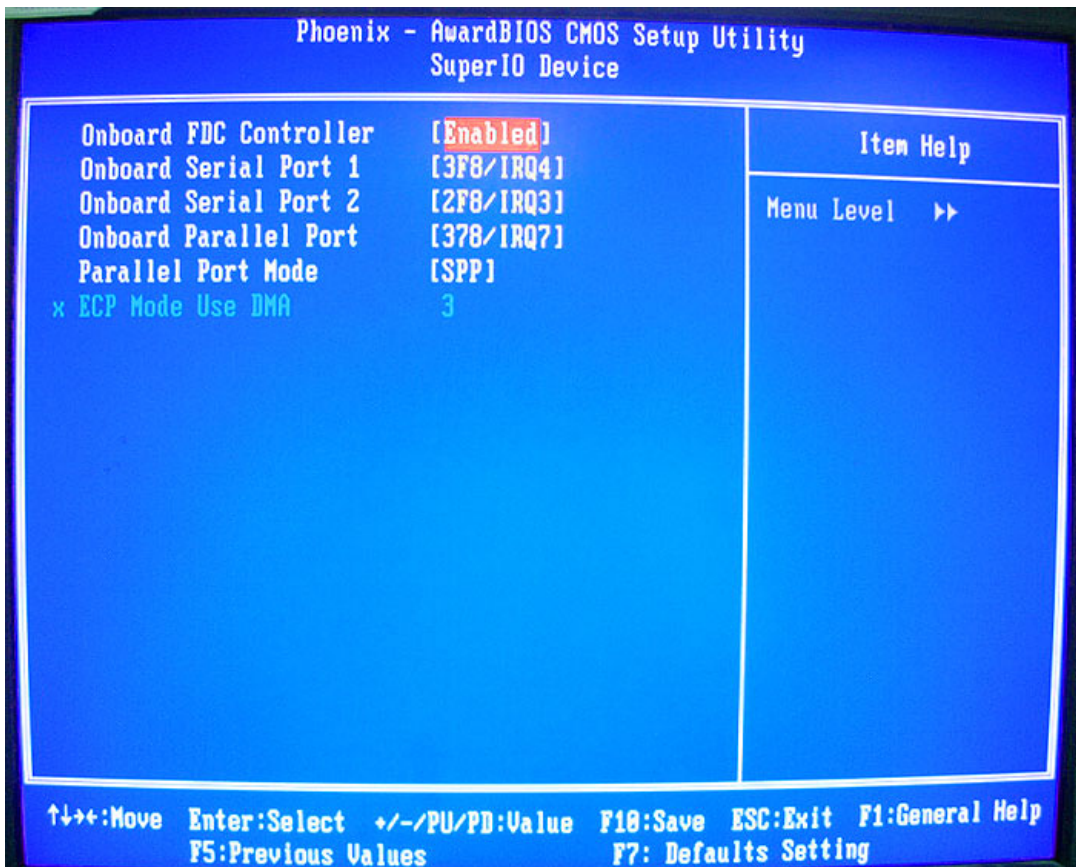
This item allows users to enable or disable the onboard LAN Controller function.

Onboard LAN Boot ROM

This item allows you to enable or disable the onboard LAN Boot ROM function.

Super I/O Device

Scroll to this item and press **ENTER** to enter the sub-menu shown as below.



Onboard FDC Controller

If your system has a floppy disk controller (FDC) installed on the system board and you want to use it, you can select Enabled. If you install an add-in FDC or the system has no floppy drive, select Disabled in this field.

Onboard Serial Port 1

This option is used to assign the I/O address and interrupt request (IRQ) for onboard serial port 1 (COM1).

Onboard Serial Port 2

This option is used to assign the I/O address and interrupt request (IRQ) for onboard serial port 2 (COM2).

Onboard Parallel Port

This option is used to assign the I/O address and interrupt request (IRQ) for the onboard parallel port.

Parallel Port Mode

This item enables you to set the data transfer protocol for your parallel port. There are four options: SPP (Standard Parallel Port), EPP (Enhanced Parallel Port), ECP (Extended Capabilities Port), and ECP + EPP. SPP allows data output only. ECP and EPP are bi-directional modes, allowing both data input and output. ECP and EPP modes are only supported with EPP- and ECP-aware peripherals.

ECP Mode Use DMA

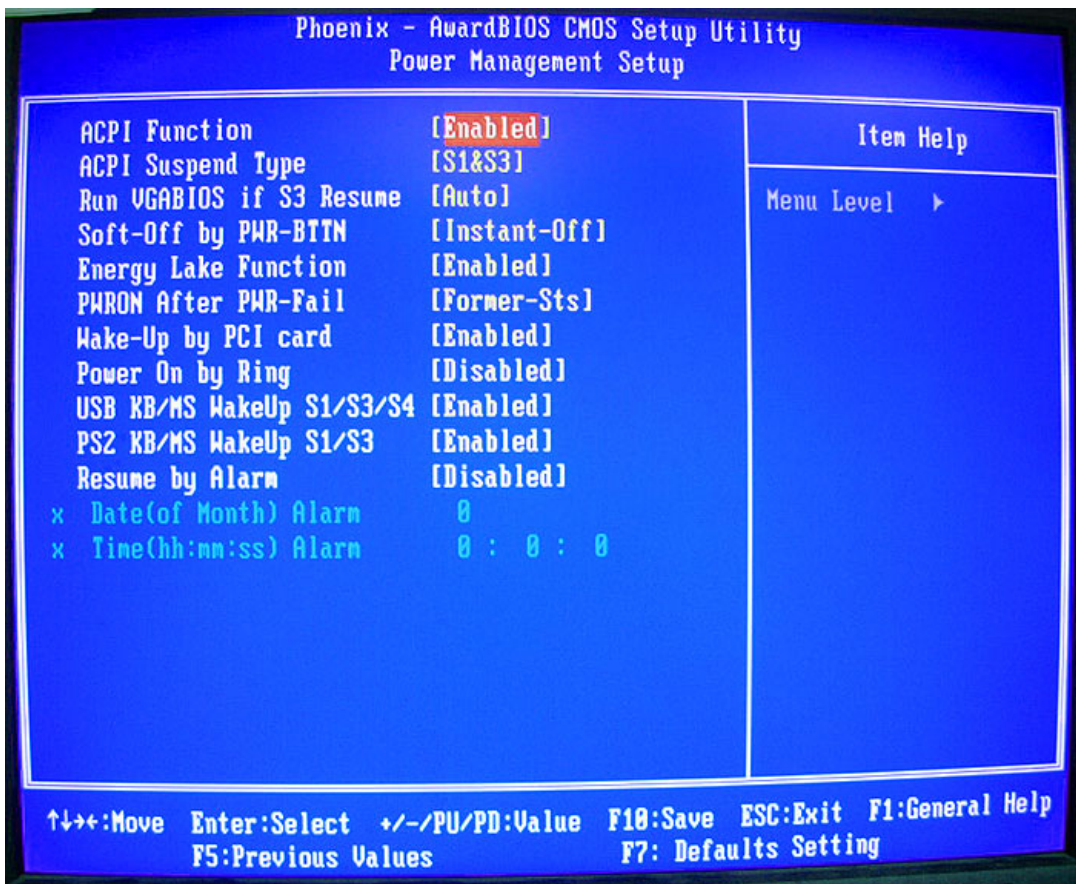
When the onboard parallel port is set for ECP mode, the parallel port can use DMA3 or DMA1.

Power Management Setup

The system has various power-saving modes including powering down the hard disk, turning off the video, suspending to RAM, and software power down that allows the system to be automatically resumed by certain events.

The power-saving modes can be controlled by time-outs. If the system is inactive for a while, the time-outs begin counting. If the inactivity continues so that the time-out period elapses, the system enters a power-saving mode. If any item in the list of Reload Global Timer Events is Enabled, then any activity on that item will reset the time-out counters to zero.

If the system is suspended or has been powered down by software, it can be resumed by a wake up call that is generated by incoming traffic to a modem, a LAN card, a PCI card, or a fixed alarm on the system real-time clock.



ACPI Function

This item allows users to enable or disable the ACPI power management function.

ACPI Suspend Type

You can use this item to define how your system suspends.

Run VGA BIOS if S3 Resume

This item allows the system to initialize the VGA BIOS from S3 (Suspend to RAM) sleep state.

Soft-Off by PWR-BTTN

Under ACPI (Advanced Configuration and Power Management Interface) you can create a software power down. In a software power down, the system can be resumed by Wake Up Alarms. This item lets you install a software power down that is controlled by the power button on your system. If the item is set for Instant-Off, then the power button causes a software power down. If the item is set for Delay four Sec., then you have to hold the power button down for four seconds to cause a software power down.

Energy Lake Function

This item enables or disables the Energy Lake Function.

Wake Up On LAN

When it is Enabled, you can remotely wake up a PC in Soft-Off condition via a LAN card that supports the wake up function.

Power On by Ring

An input signal on the serial Ring indicator (RI) line (in other words, an incoming call on the modem) awakens the system from soft off state.

USB KB/MS Wake-up S1/S3/S4

This option allows the activity of the USB devices (keyboard and mouse) to wake up the system from S1/S3/S4 status.

PS2 KB/MS Wake-up S3

This option allows the activity of the PS2 keyboard and mouse to wake up the system from S3 status.

Resume by Alarm

When it is Enabled, additional fields become available and you can set the date, hour, minute and second to turn on your system. When it is set for zero in the column of date, the alarm will power on your system every day at the specified time.

PnP/PCI Configurations

It configures how PnP (Plug and Play) and PCI expansion cards operate in your system. Both the ISA and PCI buses on the main board use system IRQs (interrupt requests) and DMAs (direct memory access). You must set up the IRQ and DMA assignments correctly through the PnP/PCI Configurations Setup Utility for the main board to work properly. Selecting PnP/PCI Configurations on the main program screen displays the menu below.



PCI/VGA Palette Snoop

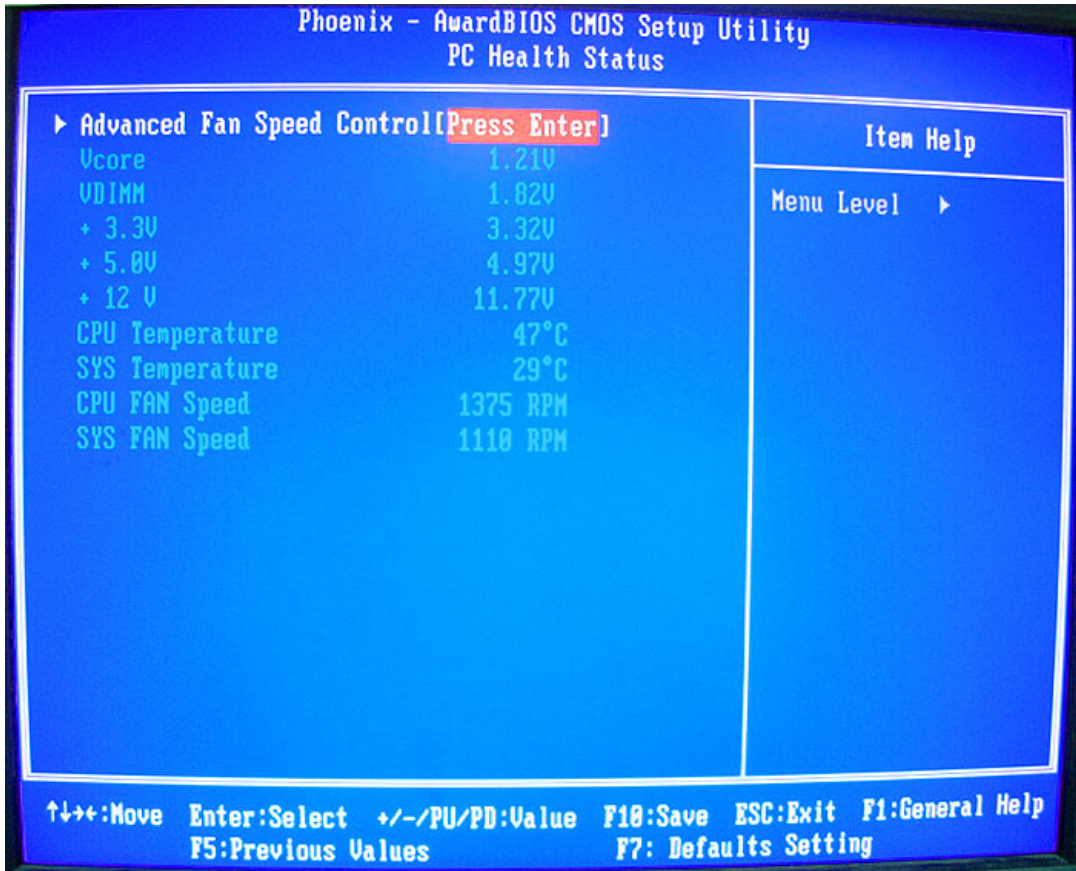
This item is designed to overcome problems that can be caused by some non-standard VGA cards. This board includes a built-in VGA system that does not require palette snooping so you must leave this item disabled.

Maximum Payload Size

This item specifies the maximum TLP payload size for the PCE Express devices.

PC Health Status

On the main board that supports hardware monitoring, you can monitor the parameters of critical voltage, temperature and fan speed.

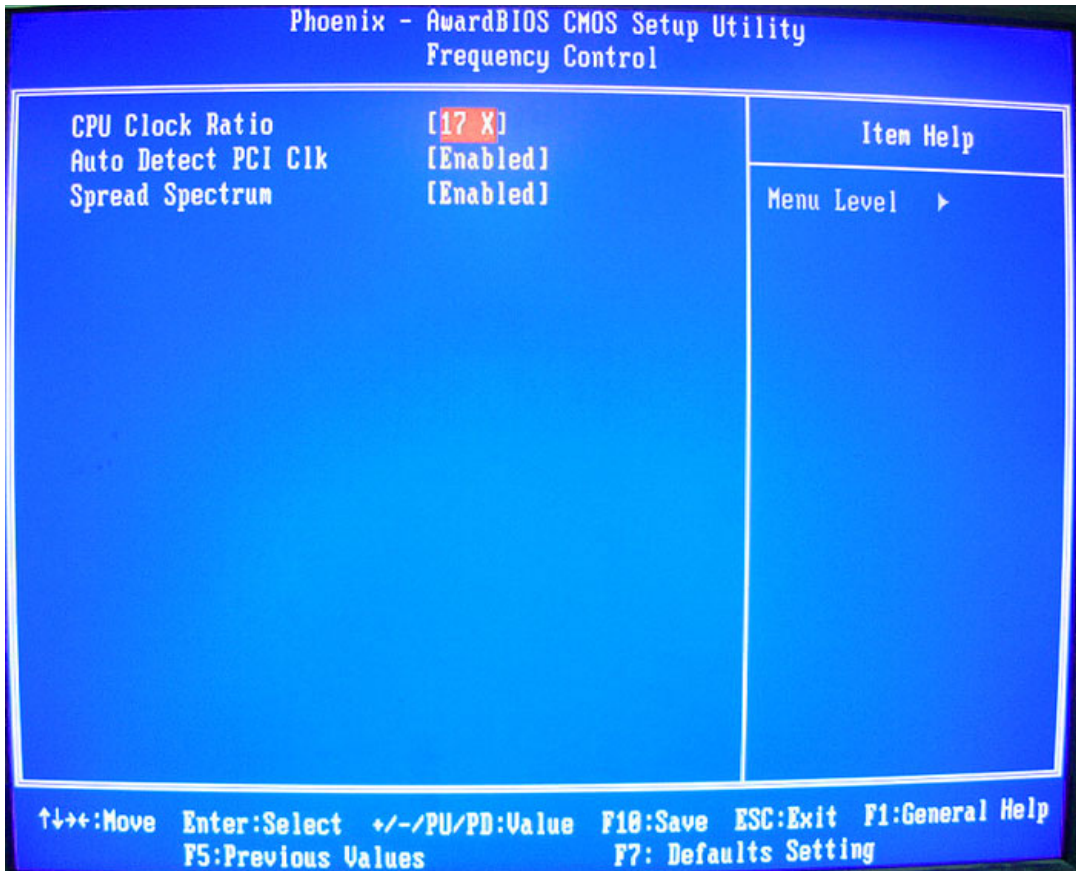


Advanced Fan Control

This item incorporates linear control metrics to provide optimal cooling. Under normal condition, Advanced Fan Control keeps the fan speed low, minimizing acoustic noise. When the load increases, Advanced Fan Control increases the fan speed to provide optimal cooling.

Frequency Control

It enables you to set the clock speed and system bus for your system. The clock speed and system bus are determined by the processor you have installed in your system.



CPU Clock Ratio

This item allow you to adjust the CPU clock to 200MHz. You can key in the number within the range to make a precise and ideal adjustment.

Auto Detect PCI Clk

When it is enabled, BIOS will disable the clock signal of free DIMM and PCI slots.

Spread Spectrum

If you enable spread spectrum, it can significantly reduce the EMI (Electro-Magnetic Interference) generated by the system.

Load Default Settings

This option opens a dialog box that lets you install optimized defaults for all appropriate items in the Setup Utility. Press **OK** and then **ENTER** to install the defaults. Press **CANCEL** and then **ENTER** to not install the defaults. If you only want to install setup defaults for a specific option, select and display that option, and then press **F9**.

Set Supervisor/User Password

When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

Enter Password

Type the password, up to eight characters, and press **ENTER**. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press **ENTER**. You can press **ESC** to abort the selection.

To disable password, just press **ENTER** when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

Password Disabled

If you have selected **System** in **Security Option** of **BIOS Features Setup** menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected **Setup** in **Security Option** of **BIOS Features Setup** menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

Save and Exit Setup

You can highlight this item and press **ENTER** to save the changes that you have made in the Setup Utility and exit the Setup Utility. When the Save and Exit dialog box appears, press **OK** to save and exit, or press **CANCEL** to return to the main menu.

Exit without Saving

You can highlight this item and press **ENTER** to discard any changes that you have made in the Setup Utility and exit the Setup Utility. When the Exit without Saving dialog box appears, press **OK** to discard changes and exit, or press **CANCEL** to return to the main menu.

NOTE: If you have made settings that you do not want to save, choose the **Discard Changes and Exit** and press **OK** to discard any changes you have made.

Machine Disassembly and Replacement

General Information

This chapter contains step-by-step procedures on how to disassemble the Aspire E700 for maintenance and troubleshooting.

To disassemble the notebook, you need the tools below:

- Wrist ground strap and conductive mat for preventing electrostatic discharge
- Small Philips screw driver
- Flat head screw driver
- Hexagonal driver
- Tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the stripe cover, please be careful not to scrape the cover.

Before You Begin

Before proceeding with the disassembly procedure, you have to make sure that:

- The system and all peripherals are powered off.
- The AC adaptor and all power and signal cables from the system are unplugged.
- The battery pack is removed.

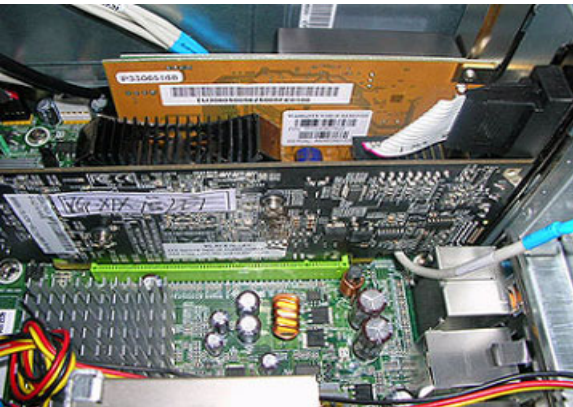
NOTE: There are several types of screws used to secure the main unit. The screws vary in length. Please refer to the screws table after the flowchart. Group the same type of screws together during service disassembling. Please also remember the screw location for each screw type. If you fasten the screws on the wrong location, the long screws may cause irrecoverable damage to the main board.

Aspire E700 Disassembly Procedure

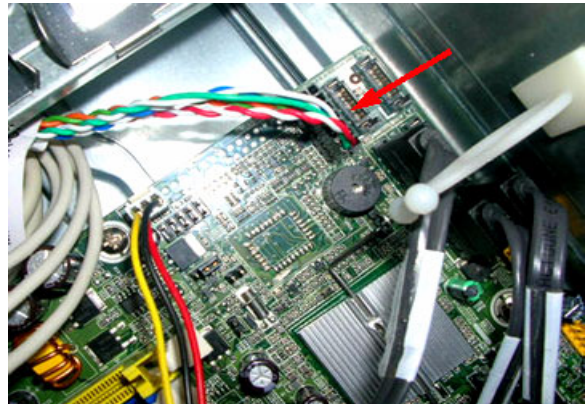
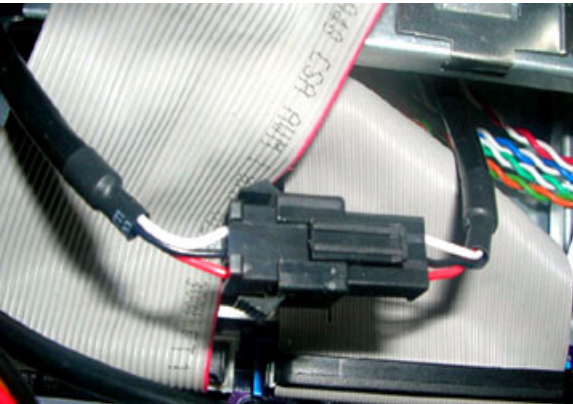
1. Place the system unit on a flat, steady and nonskid surface.
2. Release the lock handle then slide the left cover out.



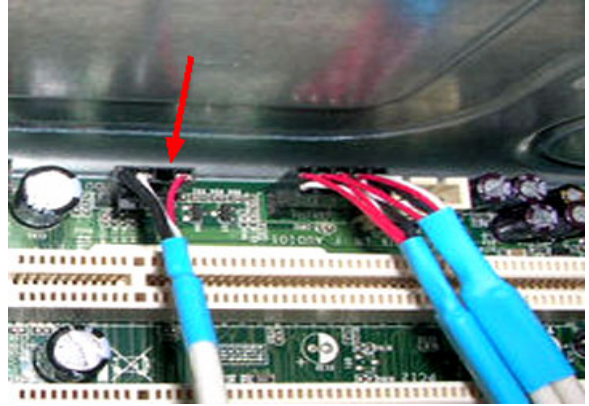
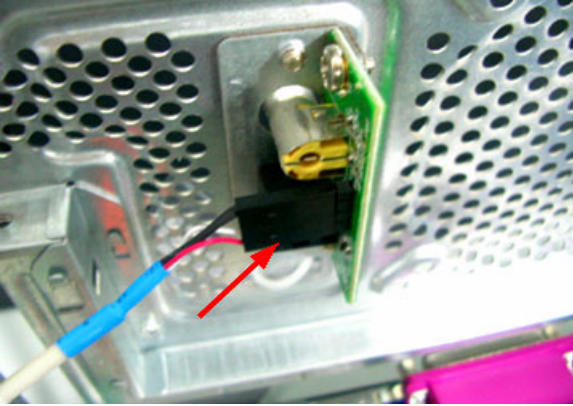
3. Detach the VGA card.
4. Detach the modem card.



5. Disconnect the IR cable.
6. Disconnect the front bezel LED cable.

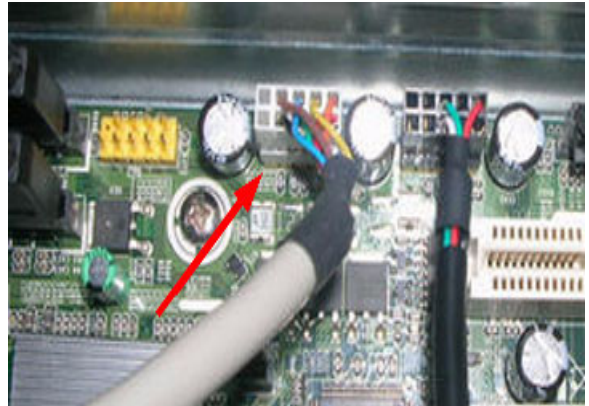
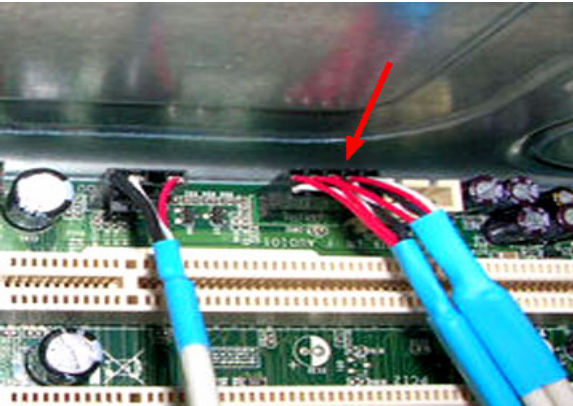


7. Disconnect the SPDIF cable.

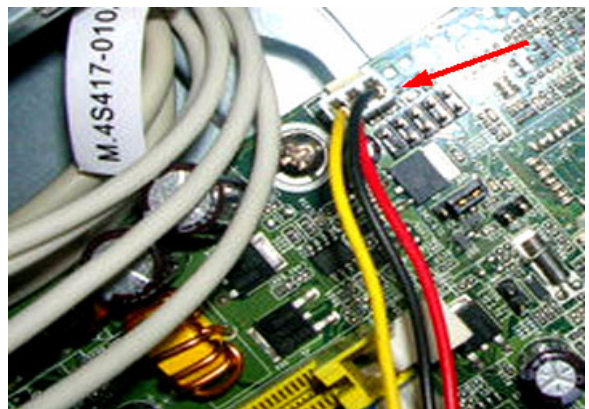
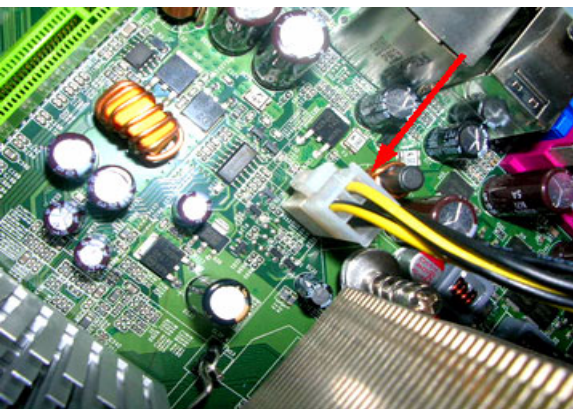


8. Disconnect the audio cable.

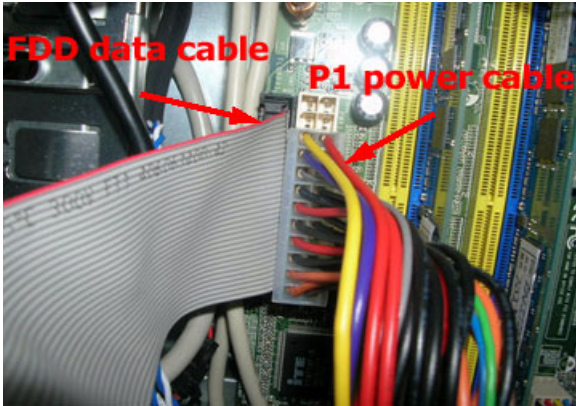
9. Disconnect the USB cables.



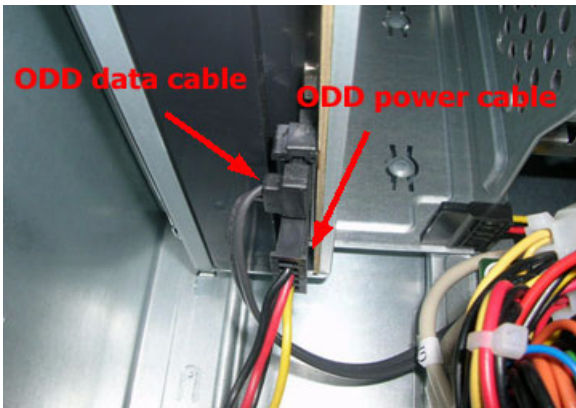
10. Disconnect the PA and the PD cables linked to the main board.



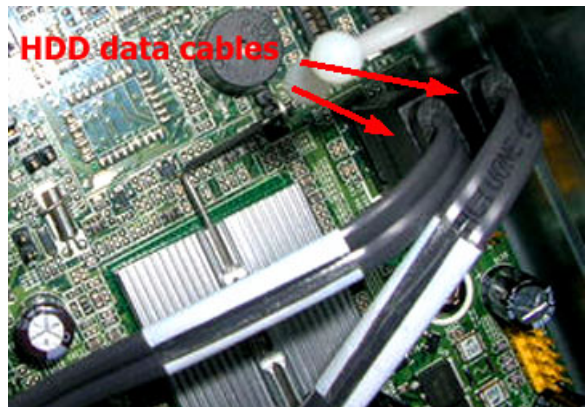
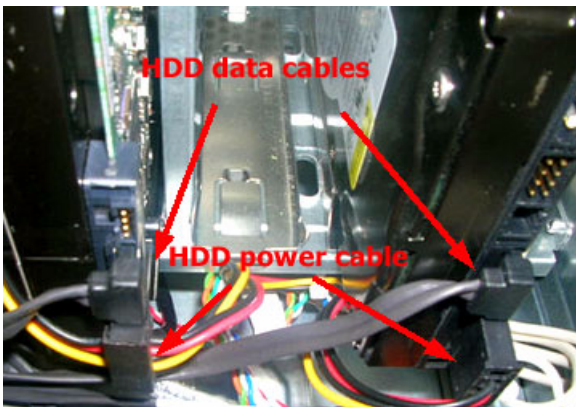
11. Disconnect the P1 power supply cable and FDD data cable.



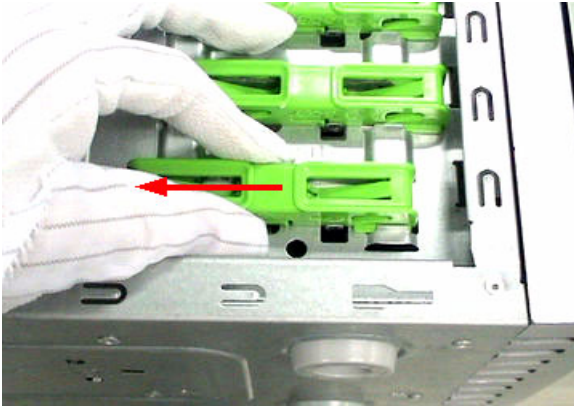
12. Disconnect the ODD power cable and the ODD data cable.



13. Disconnect the HDD power cable and the HDD data cable.



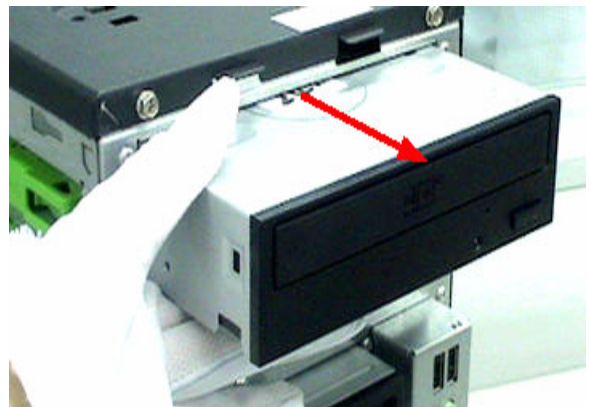
14. Slide the HDD holder as shown below then take the HDD out from the chassis.



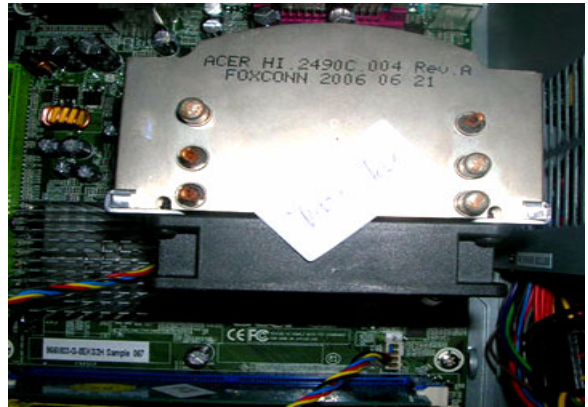
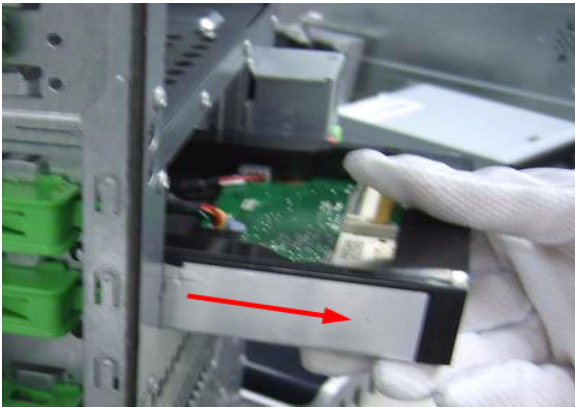
15. Release the three latches holding the front panel then remove the front panel.



16. Slide the ODD holder as shown below then take the ODD out from the chassis.



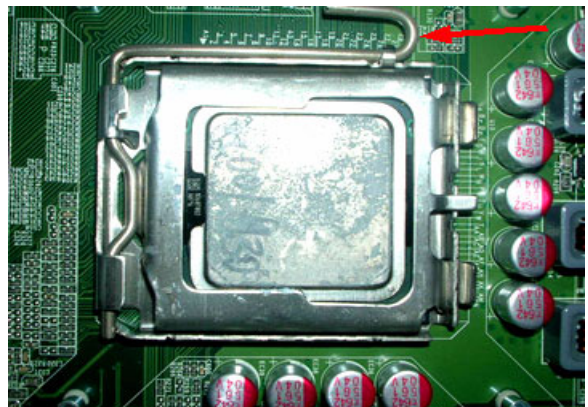
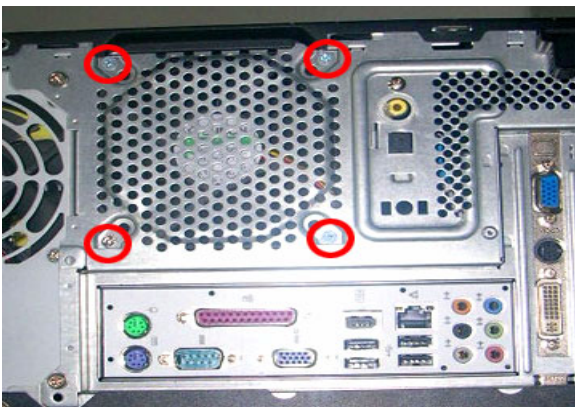
17. Detach the card reader.
18. Detach the CPU cooler from the main board.



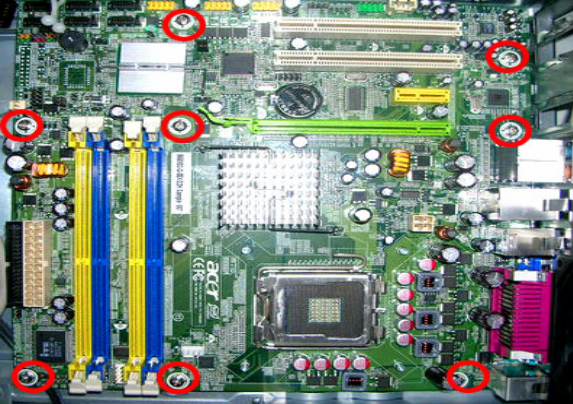
19. Pull the two latches at the same time to release the memory. Repeat this step to remove another memory.



20. Release the four screws fastening the system fan then remove the system fan.
21. Push and release the CPU latch then detach the CPU.



22. Release the screws marked below then remove the main board.



23. Release the four screws marked below then remove the system power supply.



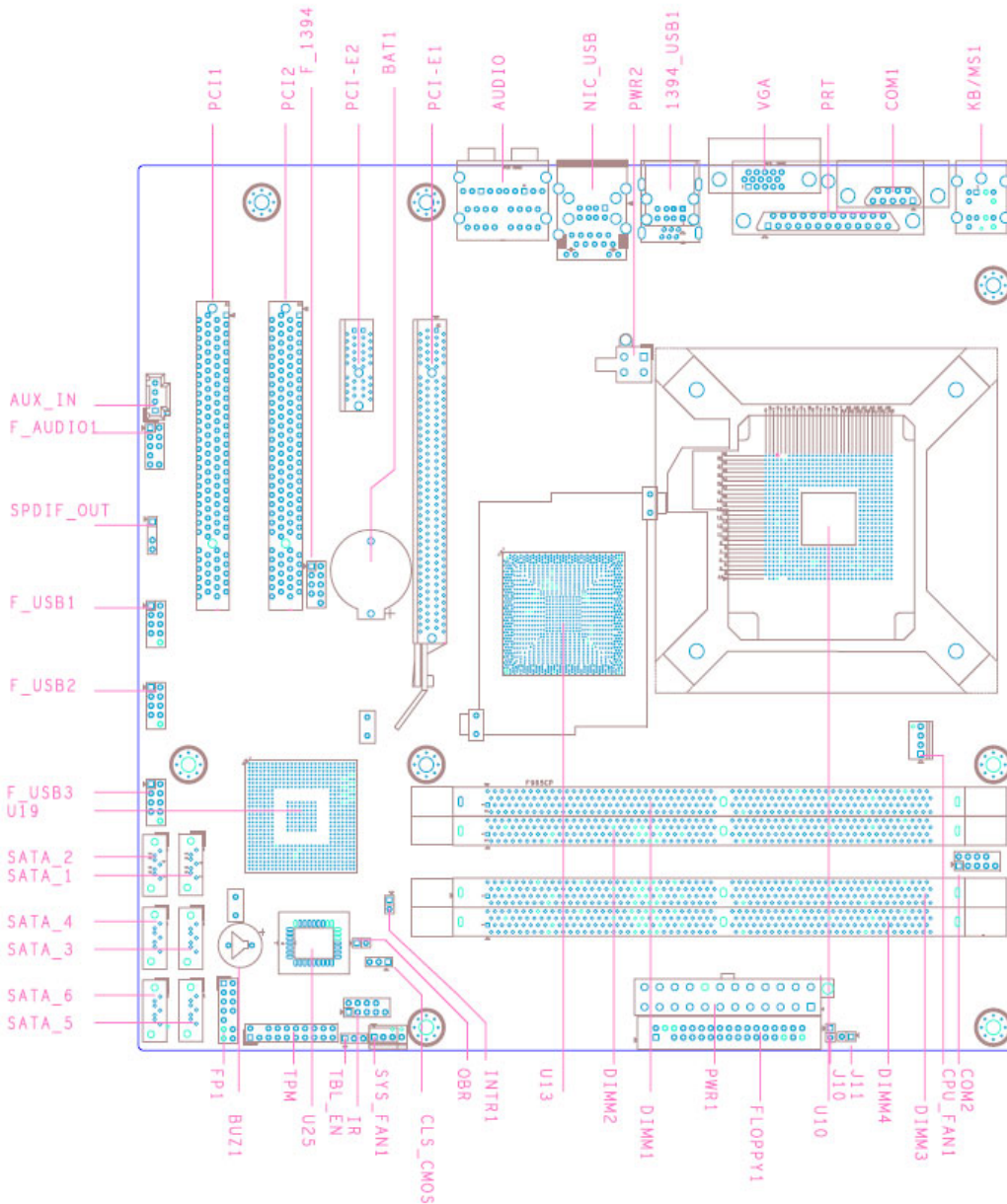
Troubleshooting

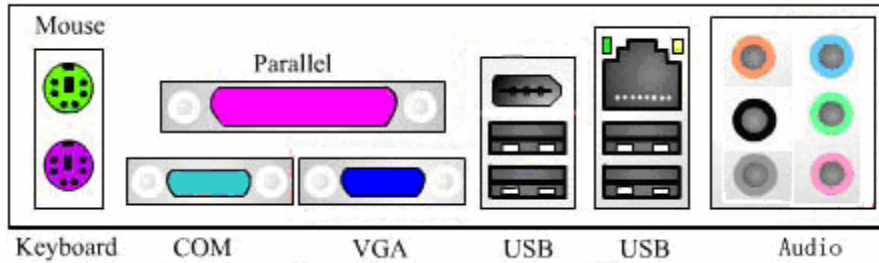
Please refer to generic troubleshooting guide in the service guide database for information with respect to following items:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List

Jumper and Connector Location

Main Board Placement





Item	Description	Item	Description
CPU_FAN1	CPU fan header	BIOS_SEL1	SPI & FWH BIOS select
COM2	COM header 2	PWR2	Four-pin power connector
J11	Acer special requirement	KB/MS1	Keyboard & mouse PS2 port
J10	Acer special requirement	COM1	COM port
PWR1	24-pin power connector	PRT	Printer port
FLOPPY1	Floppy connector 1	VGA	VGA port
SYS_FAN1_1	System fan header 1_1 (three-pin)	1394_USB1	1394 and USB*2 port
CLR_CMOS	Clear CMOS	NIC_USB	LAN and USB*2 port
OBR	One button recovery	Audio	Audio port
INTR1	Chassis intruder	PCI-E1	PCI-Express x16 connector
FP1	Front panel switch/LED	BAT1	Battery connector
TPM	Trusted platform module interface	PCI-E2	PCI-Express x1 connector
SATA_5	SATA data transfer connector 5	F_1394	Front 1394 header
SATA_6	SATA data transfer connector 6	PCI1, PCI2	PCI connector
SATA_3	SATA data transfer connector 3	U25	FWH BIOS socket
SATA_4	SATA data transfer connector 4	U19	ICH8 series south bridge
SATA_1	SATA data transfer connector 1	U13	965 series north bridge
SATA_2	SATA data transfer connector 2	U10	LGA 775 CPU socket
F_USB3	Front panel USB header 3	DIMM1, DIMM2, DIMM3, DIMM4	DDR2 memory connector
F_USB2	Front panel USB header 2	IR	Infrared function header
F_USB1	Front panel USB header 1	FLOPPY1	Floppy connector
F_AUDIO1	Audio Aux Input	BUZ1	Buzzer

Introduction of Connectors and Headers

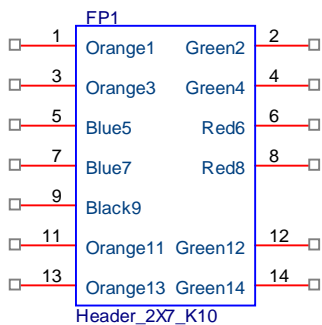
System Board Jumper Setting

Features	Default Setting	Remark (color and other)
Intruder pin (1*2) & default setting	No active	Short will have the warning message The case has been opened, press F1 to continue.
BIOS_SEL1 (1*2) & default setting	Enable SPI	
Clear CMOS (1*3) & default setting	2-3: normal (default)	
OBR (1*2) & default setting	No active	

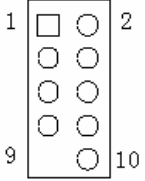
System Board Header Setting

Front Panel

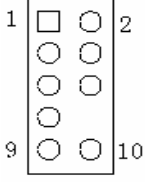
#	Pin Definition	Description
1	5V_SYS	Hard disk LED pull-up (330 ohm) to 5V_SYS
2	GPIO_GRN_HDR_R	Pull-up (330 ohm) to 5V_SB_SYS and connect To to SIO GPIO
3	HDD_LED_R	Hard disk active LED
4	GPIO_YLW_HDR_R	Pull-up (330 ohm) to 5V_SB_SYS and connect to SIO GPIO
5	GND	Reset button
6	PSIN	Power button
7	ICH_SYS_RSTJ	ICH_SYS_RSTJ
8	GND	Ground
9	5V_SYS	5V_SYS
10	Key	Key
11	NC	Reserved
12	GND	Ground
13	NC	Reserved
14	LAN_ACTJ	LAN active LED



Front USB

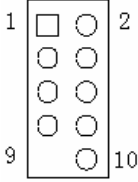
	#	Pin Definition	Description
	1	VREG_FP_USBPWR0	Front panel USB power (ports 0 & 1)
	2	VREG_FP_USBPWR0	Front panel USB power (ports 0 & 1)
	3	USB_FP_P0-	Front panel USB port 0 negative signal
	4	USB_FP_P1-	Front panel USB port 1 negative signal
	5	USB_FP_P0+	Front panel USB port 0 positive signal
	6	USB_FP_P1+	Front panel USB port 1 positive signal
	7	GND	Ground
	8	GND	Ground
	9	Key	Key
	10	USB_FP_OC0	Front panel USB over current signal (port 0 & 1)

Front Audio (AC'97)

	#	Pin Definition	Description
	1	AUD_MIC	Front panel microphone input signal
	2	AUD_GND	Ground used by analog audio circuits
	3	AUD_MIC_BIAS	Microphone power
	4	AUD_VCC	Filtered +5V used by analog audio circuits
	5	AUD_FPOUT_R	Right channel audio signal to front panel
	6	AUD_RET_R	Right channel audio signal return from front panel
	7	HP_ON	RSVD for future use to control headphone amplifier
	8	Key	No pin
	9	AUD_FPOUT_L	Left channel audio signal to front panel
	10	AUD_RET_L	Left channel audio signal return from front panel

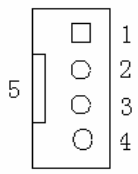
Front 1394

#	Signal Name
1	TPA+
2	TPA-
3	Ground
4	Ground
5	TPB+
6	TPB-
7	+12V (fused)
8	+12V (fused)
9	Key
10	Ground



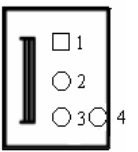
AUX_IN

#	Description
1	CD left channel
2	Ground
3	Ground
4	CD right channel
5	Key



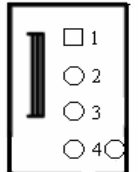
System Fan

#	Description
1	Ground
2	FANOUT
3	SIO FANSPD
4	Key






CPU Fan

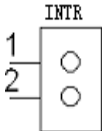
#	Description
1	Ground
2	FAN POWER 12V
3	SIO FANSPD
4	FANOUT
5	Key



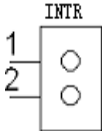
Clear CMOS

	#	Description
 3-pin	1	Ground
	2	RTCSTJ (Connect to ICH)
	3	Connect to VCC_RTC
Normal (Default)  Set pin 2 and Pin 3 closed		Pin 2-3: normal
Clear CMOS  Set pin 1 and Pin 2 closed		Pin 1-2: clear CMOS

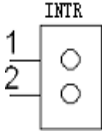
Intruder

	#	Description
 INTR	1	INTRUDERJ
	2	Ground

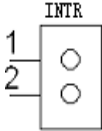
J10

	#	Description
 INTR	1	AGPIO1
	2	Ground

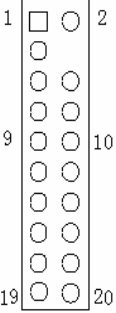
J11

	#	Description
 INTR	1	AGPIO2
	2	Ground

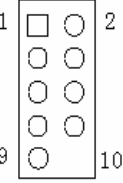
One Button Recovery (OBR)

	#	Description
 INTR	1	ICH_GPIO8_PU
	2	Ground

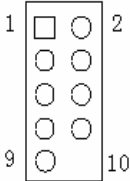
TPM

		#	Description
	1	1	LCLK
	2	2	GND
	3	3	LFRAME#
	4	4	KEY
	5	5	LREST
	6	6	NC_3
	7	7	LAD3
	8	8	LAD2
	9	9	VDD
	10	10	LAD1
	11	11	LAD0
	12	12	GND
	13	13	NC_1
	14	14	NC_4
	15	15	NC_2
	16	16	SERIRQ
	17	17	GND
	18	18	CLKRUN
	19	19	LPCPD
	20	20	NC_6

CMO HEADER

		#	Description
	1	1	COM_SER2_RLSD
	2	2	COM_SER2_SIN
	3	3	COM_SER2_SOUT
	4	4	COM_SER2_DTR
	5	5	Ground
	6	6	COM_SER2_DSR
	7	7	COM_SER2_RTS
	8	8	COM_SER2_CTS
	9	9	COM_SER2_RI
	10	10	Key

IR

	#	Description
	1	5V
	2	IR_26
	3	SIO_RSMRSTJ
	4	RESETCONJ
	5	IR_20
	6	IR_27
	7	IR_RE
	8	IR_21
	9	IR_RE
	10	Key

FRU (Field Replaceable Unit) List

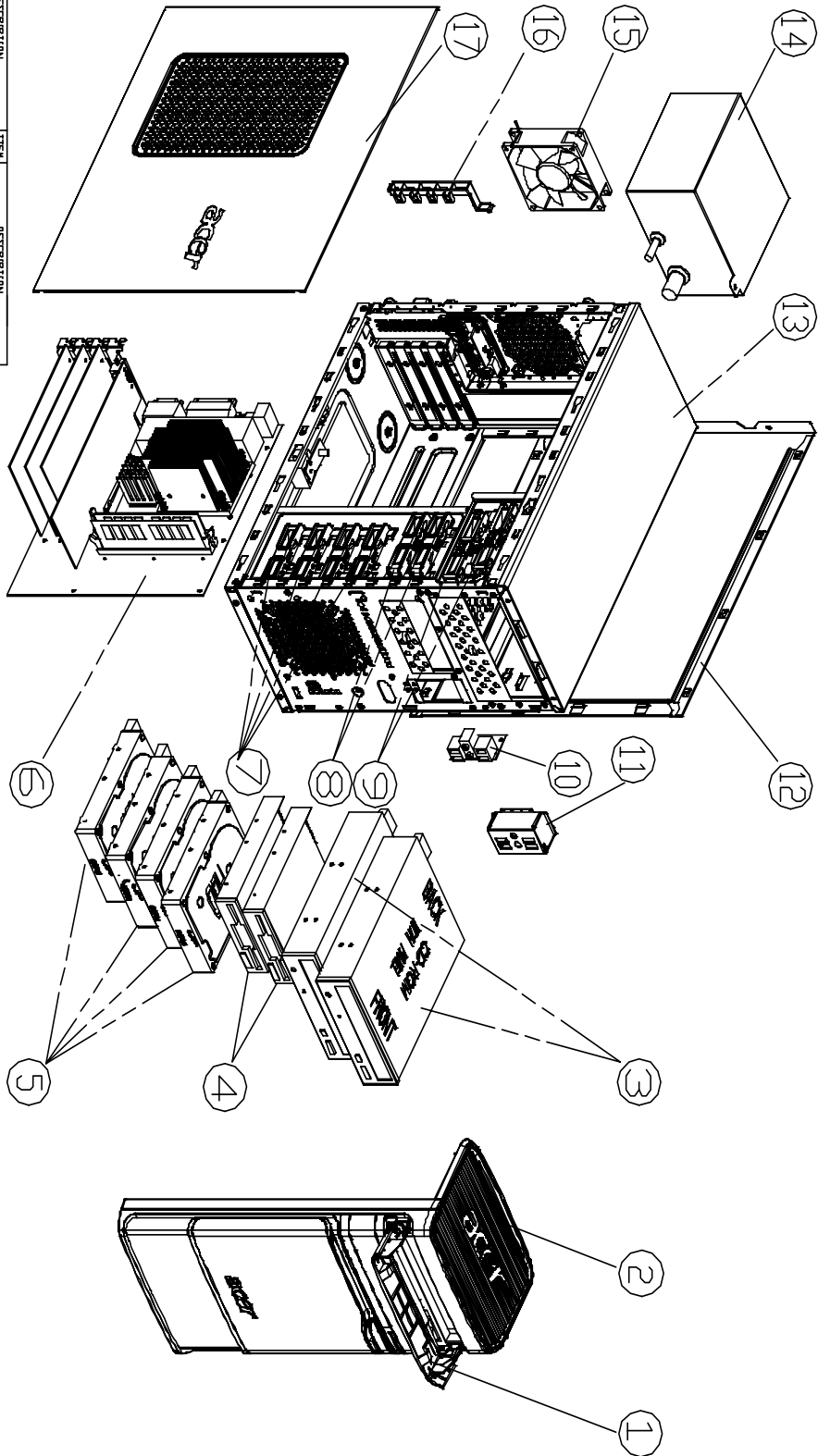
This chapter offers the FRU (Field Replaceable Unit) list in global configuration of Aspire E700 desktop. Refer to this chapter whenever ordering the parts to repair or for RMA (Return Merchandise Authorization).

Please note that when ordering FRU parts, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number is changed, it will NOT be noted on the printed service guide. For Acer authorized service providers, your Acer office may have a different part number code from those given in the FRU list of this printed service guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for service.

Note: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose them properly, or follow the rules set by your regional Acer office on how to return it.

Exploded Diagram

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	5.25" ROTATE COVER	12	RIGHT-SIDE
2	ACSI BEZEL	13	CHASSIS
3	CD-ROM	14	POWER-SUPPLY
4	FDD-WITH-PANEL	15	FAN
5	HDD-DISK	16	PCI-BKT
6	MOTHER BOARD	17	LEFT-SIDE
7	HDD-LOCK-SLIDE		
8	FDD-LOCK-SLIDE		
9	CARD-LOCK-SLIDE		
10	USB BRAD		
11	USB BKT		



Item	Description
1	5.25" ROTATE COVER
2	A451 BEZEL
3	CD-ROM
4	FDD WITH PANEL
5	HDD-DISK
6	MOTHER BOARD
7	HDD-LOCK-SLIDE
8	FDD-LOCK-SLIDE
9	CDROM-LOCK-SLIDE
10	USB BOARD
11	USB BKT
12	RIGHT-SIDE
13	CHASSIS
14	POWER-SUPPLY
15	FAN
16	PCC-BKT
17	LEFT-SIDE

Parts

PARTNAME	DESCRIPTION	ACER PART NO.
BOARD		
DAUGHTER BOARD USB/AUDIO	USB BOARD	55.S46VF.001
MAINBOARD		
MB FG965M FOR P4 LGA775 CPU INTEL G965+ICH8DH DDR2 Gigabit LAN HD codec W/I 1394 W/I CPU RM	FG965M	MB.S5909.002
"MB FG965M FOR P4 LGA775 CPU INTEL G965+ICH8DH DDR2 Gigabit LAN HD codec W/I 1394, CPU RM, I/O SHIELDING (4 USB PORTS)"	FG965M	MB.S5909.001
CARD READER		
"KYE CARD READER+1394+IR, CR503U2, W/I HOUSING, W/I 1394 CABLE+USB CABLE"	CR503U2-5101	PZ.CR50J.001
"KYE CARD READER+1394+IR, CR503U2, W/I HOUSING, W/I 1394 CABLE+USB CABLE"	CR503U2-5111	PZ.CR50J.003
RF RECEIVER		
LOGITECH WIRELESS BOARD	LOGITECH WIRELESS BOARD	RV.GPY01.005
LOGITECH WIRELESS RECEIVER	LOGITECH WIRELESS RECEIVER	RV.GPY01.006
CABLE		
POWER SWITCH/ HDD /LAN LED CABLE	POWER SWITCH/ HDD /LAN LED CABLE	50.S55VF.001
HDD CABLE SATA_1	"SATA-HDD DATA CABLE, ROHS"	50.S46VF.001
SERIAL ATA DATA CABLE FOR ODD	SERIAL ATA DATA CABLE FOR ODD	50.P37VF.001
SERIAL ATA POWER CABLE FOR ODD	SERIAL ATA POWER CABLE	50.P37VF.002
USB CABLE	"USB CABLE (460MM) , ROHS"	50.S46VF.002
AUDIO CABLE	"AUDIO CABLE (560MM), ROHS"	50.S46VF.004
IDE FDD CABLE 34PIN	"FDD DATA CABLE, ROHS"	50.S46VF.007
SPDIF BOARD W/ CABLE	SPDIF BOARD W/ CABLE	55.S46VF.002
LED CABLE FOR THE LOGO	LED CABLE FOR THE LOGO	50.S46VF.005
IR CABLE	IR CABLE	50.S46VF.006
CASE/ COVER/ BRACKET ASSEMBLY		
"FRONT BEZEL W/ POWER BUTTON, 5.25" " 3.5" " EMPTY COVER"	A451 BEZEL ASSY	60.S46VF.001
POWER BUTTON	POWER BUTTON	42.S46VF.001
ODD COVER 1 W/ HOLDER	A451 ODD-UPPER DOOR W/ HOLDER	42.S46VF.002
ODD COVER 2 W/ HOLDER	A451 ODD-LOWER DOOR W/ HOLDER	42.S46VF.003
TOP COVER ASSY	TOP COVER ASSY	60.S46VF.002
FRONT COVER WITH ACER LOGO	FRONT COVER WITH ACER LOGO	60.S46VF.003
"FILLER COVER FOR 3 1/2" " DEVICE"	"3.5" " FILLER PANEL"	42.S46VF.009

PARTNAME	DESCRIPTION	ACER PART NO.
CHASSIS W/O SIDE DOOR W/O I/O SHIELD H401	H401 CHASSIS W/O SIDE DOOR W/O I/O SHIELD	60.S46VF.004
SIDE DOOR-LEFT	LEFT-BKT-DOOR (PAINTING)	60.S46VF.005
SIDE DOOR-RIGHT	RIGHT-BKT-DOOR (PAINTING)	60.S46VF.006
S-LOCK-HANDLE	S-LOCK-HANDLE	42.S46VF.004
ODD HOLDER ASSY	ODD HOLDER ASSY	42.S46VF.005
FDD HOLDER ASSY	FDD HOLDER ASSY	42.S46VF.006
HDD HOLDER ASSY	HDD HOLDER ASSY	42.S46VF.007
IO BRACKET HOLDER	PCI-BKT	42.S46VF.008
I/O BRACKET	COVER SLOT	33.S45VF.001
REAR I/O SHIELDING FOR FG965M MB	I/O SHIELDING	PZ.S5908.001
ADD-ON CARD		
"PRONET PCI MODEM CARD HPI56M3F W/ATX BKT, ROHS"	HPI56M3F	FX.56M03.003
MODEM CARD D-1156#A7A LITEON	D-1156#/A7A	FX.15602.001
"PRONET WIRELESS PCI CARD WP61R CHIP REALTEK RTL8185L W/ATX BTK, ROHS"	WP61R	NI.61R08.002
WINTV-HVR1100 DVB-T PAL OXFORD 94500 REV C2A0 LF	WINTV-HVR-1100	TV.HAUDV.BT3
WINTV-HVR1110 DVB-T PAL OXFORD2 67559 REV B1B4	WINTV-HVR-1110	TV.HAUOX.BT2
ANALOGUE MULTI PAL / FM / HW MPEG2 ENCODER / ATX BRACKET REV: F089 LF	WINTV-PVR150MCE	TV.AMITY.HR1
HYBRID TV CARD (WW. ANALOGUE / DVB-T) / CABLES / FM ANTENNA	LR306N	TU.30605.005
"SP RADEON X1300 512MB HM (ONBOARD 64MB) DDR(INFINEON) 32-BITS VGA+TVO PAL W/ATX BKT,88-AC94-0A-AC,ROHS"	88-AC94-0A-AC	54.X1300.H17
"SP RADEON X1300 512MB HM (ONBOARD 64MB) DDR(INFINEON) 32-BITS VGA+TVO NTSC W/ATX BKT,88-AC94-0A-AC,ROHS"	88-AC94-0A-AC	54.X1300.H18
"SP RADEON X1300 512MB HM (ONBOARD 64MB) DDR(INFINEON) 32-BITS VGA+TVO PAL W/ATX BKT,88-AC--94-0A-AC,ROHS, REV 0.2"	88-AC94-0A-AC	54.X1300.H19
"SP RADEON X1300 512MB HM (ONBOARD 64MB) DDR(INFINEON) 32-BITS VGA+TVO NTSC W/ATX BKT,88-AC94-0A-AC,ROHS, REV 0.2"	88-AC94-0A-AC	54.X1300.H20
"SAPPHIRE RADEON X1600 SE 256MB 128BIT DDR(INFINEON) VGA+TVO+DVI-I PAL W/ATX BKT ROHS, REV 0.1"	88-8C87-11-AC	54.X16SE.013
"SAPPHIRE RADEON X1600 SE 256MB 128BIT DDR(INFINEON) VGA+TVO+DVI-I NTSC W/ATX BKT ROHS, REV 0.1"	88-8C87-11-AC	54.X16SE.014

PARTNAME	DESCRIPTION	ACER PART NO.
SAPPHIRE RADEON X1600 SE 256MB 128BIT DDR(INFINEON) VGA+TVO+DVI- I PAL W/ATX BKT ROHS	88-8C87-11-AC	54.X16SE.011
SAPPHIRE RADEON X1600 SE 256MB 128BIT DDR(INFINEON) VGA+TVO+DVI- I NTSC W/ATX BKT ROHS	88-8C87-11-AC	54.X16SE.012
"SP ATI RADEON X1650SE 512MB HM ONBOARD 256M 64BIT DDR2(HYNIX) VGA+TVO+DVI-I PAL W/ATX BKT, 88- 9C92-0C-AC, ROHS"	88-9C92-0C-AC	54.X1650.S01
"SP ATI RADEON X1650SE 512MB HM ONBOARD 256M 64BIT DDR2(HYNIX) VGA+TVO+DVI-I NTSC W/ATX BKT, 88- 9C92-0C-AC, ROHS"	88-9C92-0C-AC	54.X1650.S02
DVD-ROM DRIVE		
"16X DVD-ROM SHD-16S1S , LF , SATA"	SHD-16S1S	KV.01604.009
COMBO MODULE		
"52X COMBO , HLDS GCC-H10N , LF, SATA"	GCC-H10N	KO.0520A.005
DVD DUAL DRIVE		
"16X DVD DUAL LAYER GSA- H31N,LF,SATA"	GSA-H31N	KU.0160D.013
"16X DVD DUAL LAYER SHW-160S6S, LF, SATA"	SHW-160S6S	KU.01604.009
CPU/ PROCESSOR		
CORE 2 DUO E6600 (2.4G 4M 1066FSB) B2	HH80557PH0564M	KC.66001.DE0
CORE 2 DUO E6300 (1.86G 2M 1066FSB) B2	HH80557PH0362M	KC.63001.DE0
PENTIUM D 945 (3.4G 2X2M 800FSB) C1		KC.DC001.945
PENTIUM D 940 (3.2G 2X2M 800FSB) C1	HH80553PG0884MH	KC.DC001.940
PENTIUM D 930 (3.0G 2X2M 800FSB) C1	HH80553PG0804MH	KC.DC001.930
PENTIUM D 915 (2.8G 2X2M 800FSB) C1	HH80553PG0724MN	KC.D0001.915
PENTIUM D 945 (3.4G 2X2M 800FSB) C1	945	KC.DC001.945
PENTIUM D 925 (3.0G 2X2M 800FSB) C1	925	KC.D0001.925
FAN SINK		
FOXCONN CPU COOLER PKP249GB1U12 + PMD1208PKV1-A	"PKP249GB1U12 + PMD1208PKV1- A P/N:B1411.F(8020+4P), 80*80*20 (REV5)"	HI.2490C.004
FOXCONN CPU COOLER PKP367G01U12 + SUNON 9225 4200RPM FAN	PKP367G01U12 + SUNON 9225 4200RPM FAN	HI.3670C.001
"THERMALFLY CPU COOLER, V2.0, ROHS"	P300L	HI.P300L.001
SYSTEM FAN KDE 1209/GP 92*92*25 (ROHS)	KDE1209PTV3	HI.S150F.002
HARD DISK DRIVE		
"160GB ST3160812AS W/NCQ, SATAII, 8MB, ROHS"	ST3160812AS	KH.16001.018

PARTNAME	DESCRIPTION	ACER PART NO.
"200GB ST3200827AS W/NCQ, SATAII, 8MB, ROHS"	ST3200827AS	KH.20001.007
"250GB ST3250824AS W/NCQ, SATAII, 8MB, ROHS"	ST3250824AS	KH.25001.005
"300GB ST3300822AS W/NCQ, SATAII, 8M, ROHS"	ST3300822AS	KH.30001.008
"400GB ST3400833AS W/NCQ, SATAII, 8M, ROHS"	ST3400833AS	KH.40001.005
"200GB WD2000JS-22NCB1 W/NCQ, SATAII, 8M, ROHS"	WD2000JS-22NCB1	KH.20008.019
"XL80III,250G,WD2500JS-22NCB1 W/ NCQ, SATAII, 8M, ROHS"	WD2500JS-22NCB1	KH.25008.015
"320GB HDT725032VLA380 SATAII 8M,ROHS"	HDT725032VLA380	KH.32007.001
"400GB HDT725040VLA380 SATAII 8M,ROHS"	HDT725040VLA380	KH.40007.006
KEYBOARD		
USB KEYBOARD SK-9610 US VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.045
USB KEYBOARD SK-9610 T.CHINESE VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.046
USB KEYBOARD SK-9610 S.CHINESE 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.047
USB KEYBOARD SK-9610 INL US VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.048
USB KEYBOARD SK-9610 ARABIC VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.049
USB KEYBOARD SK-9610 THAI VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.050
USB KEYBOARD SK-9610 SPANISH VER. 105KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.051
USB KEYBOARD SK-9610 PORTUGESE VER. 105KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.052
USB KEYBOARD SK-9610 CANADIAN/ FRENCH VER. 105KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.053
USB KEYBOARD SK-9610 BRAZILIAN VER. 107KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.054
USB KEYBOARD SK-9610 JPNESE 109KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.055
USB KEYBOARD SK-9610 GERMANY VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.056
USB KEYBOARD SK-9610 ITALIAN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.057
USB KEYBOARD SK-9610 FRENCH VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.058
USB KEYBOARD SK-9610 SWEDEN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.059
USB KEYBOARD SK-9610 UK VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.060

PARTNAME	DESCRIPTION	ACER PART NO.
USB KEYBOARD SK-9610 DUTCH VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.061
USB KEYBOARD SK-9610 SWISS VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.062
USB KEYBOARD SK-9610 BELGIUM VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.063
USB KEYBOARD SK-9610 ICELAND VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.064
USB KEYBOARD SK-9610 NORWEGIAN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.065
USB KEYBOARD SK-9610 HEBREW VER. 104KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.066
USB KEYBOARD SK-9610 POLISH VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.067
USB KEYBOARD SK-9610 SLOVENIAN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.068
USB KEYBOARD SK-9610 SLOVAKIAN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.069
USB KEYBOARD SK-9610 TURKEY Q-TYPE VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.070
USB KEYBOARD SK-9610 RUSSIAMVER. 104KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.071
USB KEYBOARD SK-9610 HUNGARIA VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.072
USB KEYBOARD SK-9610 GREEK VER. 104KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.073
USB KEYBOARD SK-9610 DENMARK VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.074
USB KEYBOARD SK-9610 CZECH VER. 104KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.075
USB KEYBOARD SK-9610 ROMANIAN VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.076
USB KEYBOARD SK-9610 TURKEY F-TYPE VER. 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.077
USB KEYBOARD SK-9610 FRENCH+ARABIC 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.078
USB KEYBOARD SK-9610 SPANISH LATIN VER. 105KS(WITH EKEY VISTA) ROHS	SK-9610	KB.9610B.079
USB KEYBOARD SK-9610 ITALIAN VER. S1 105KS (WITH EKEY) ROHS	SK-9610	KB.USB0B.002
USB KEYBOARD SK-9610 ITALIAN VER. S1 105KS (WITH EKEY VISTA) ROHS	SK-9610	KB.USB0B.001
USB KEYBOARD KU-0355 US VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.222
USB KEYBOARD KU-0355 T.CHINESE VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.223

PARTNAME	DESCRIPTION	ACER PART NO.
USB KEYBOARD KU-0355 S.CHINESE 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.224
USB KEYBOARD KU-0355 INL US VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.225
USB KEYBOARD KU-0355 ARABIC VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.226
USB KEYBOARD KU-0355 THAI VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.227
USB KEYBOARD KU-0355 SPANISH VER. 105KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.228
USB KEYBOARD KU-0355 CANADIAN/ FRENCH VER. 105KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.230
USB KEYBOARD KU-0355 BRAZILIAN VER. 107KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.231
USB KEYBOARD KU-0355 JPNese 109KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.232
USB KEYBOARD KU-0355 FRENCH VER. 105KEYS (WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.262
USB KEYBOARD KU-0355 SPANISH LATIN VER. 105KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.264
USB KEYBOARD KU-0355 US VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.233
USB KEYBOARD KU-0355 INL US VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.234
USB KEYBOARD KU-0355 ARABIC VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.235
USB KEYBOARD KU-0355 GERMANY VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.236
USB KEYBOARD KU-0355 ITALIAN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.237
USB KEYBOARD KU-0355 FRENCH VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.238
USB KEYBOARD KU-0355 SWEDEN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.239
USB KEYBOARD KU-0355 UK VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.240
USB KEYBOARD KU-0355 SPANISH VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.241
USB KEYBOARD KU-0355 DUTCH VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.242

PARTNAME	DESCRIPTION	ACER PART NO.
USB KEYBOARD KU-0355 PORTUGESE VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.243
USB KEYBOARD KU-0355 SWISS VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.244
USB KEYBOARD KU-0355 BELGIUM VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.245
USB KEYBOARD KU-0355 ICELAND VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.247
USB KEYBOARD KU-0355 NORWEGIAN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.248
USB KEYBOARD KU-0355 HEBREW VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.249
USB KEYBOARD KU-0355 POLISH VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.250
USB KEYBOARD KU-0355 SLOVENIAN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.251
USB KEYBOARD KU-0355 SLOVAKIAN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.252
USB KEYBOARD KU-0355 TURKEY VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.253
USB KEYBOARD KU-0355 RUSSIAMVER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.254
USB KEYBOARD KU-0355 HUNGARIA VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.255
USB KEYBOARD KU-0355 GREEK VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.256
USB KEYBOARD KU-0355 DENMARK VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.257
USB KEYBOARD KU-0355 CZECH VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.258
USB KEYBOARD KU-0355 ITALIAN NEW LAYOUT 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.259
USB KEYBOARD KU-0355 ROMANIAN VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.260

PARTNAME	DESCRIPTION	ACER PART NO.
USB KEYBOARD KU-0355 TURKEY/ FRENCH VER. 105KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.261
USB KEYBOARD KU-0355 FRENCH+ARABIC 105KS (WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.263
"USB KEYBOARD,KU-0355,US VER.,104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.177
"USB KEYBOARD,KU-0355,T.CHINESE VER.,104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.178
"USB KEYBOARD, KU-0355, S.CHINESE, 104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.179
"USB KEYBOARD,KU-0355,INL US VER.,104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.180
"USB KEYBOARD,KU-0355,ARABIC VER.,104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.181
"USB KEYBOARD,KU-0355,THAI VER.,104KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.182
"USB KEYBOARD,KU-0355,SPANISH VER.,105KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.183
"USB KEYBOARD,KU-0355,PORTUGESE VER.,105KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.184
"USB KEYBOARD,KU-0355,CANADIAN/ FRENCH VER.,105KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.185
"USB KEYBOARD,KU-0355,BRAZILIAN VER.,107KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.186
"USB KEYBOARD,KU- 0355,JPNESE,109KS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.187
"USB KEYBOARD,KU-0355,US VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.188
"USB KEYBOARD,KU-0355,INL US VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.189
"USB KEYBOARD,KU-0355,ARABIC VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.190
"USB KEYBOARD,KU-0355,GERMANY VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.191
"USB KEYBOARD,KU-0355,ITALIAN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.192
"USB KEYBOARD,KU-0355,FRENCH VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.193
"USB KEYBOARD,KU-0355,SWEDEN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.194

PARTNAME	DESCRIPTION	ACER PART NO.
"USB KEYBOARD,KU-0355,UK VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.195
"USB KEYBOARD,KU-0355,SPANISH VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.196
"USB KEYBOARD,KU-0355,DUTCH VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.197
"USB KEYBOARD,KU-0355,PORTUGESE VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.198
"USB KEYBOARD,KU-0355,SWISS VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.199
"USB KEYBOARD,KU-0355,BELGIUM VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.200
"USB KEYBOARD,KU-0355,HOLLAND VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.201
"USB KEYBOARD,KU-0355,ICELAND VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.202
"USB KEYBOARD,KU-0355,NORWEGIAN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.203
"USB KEYBOARD,KU-0355,HEBREW VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.204
"USB KEYBOARD,KU-0355,POLISH VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.205
"USB KEYBOARD,KU-0355,SLOVENIAN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.206
"USB KEYBOARD,KU-0355,SLOVAKIAN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.207
"USB KEYBOARD,KU-0355,TURKEY VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.208
"USB KEYBOARD,KU-0355,RUSSIAMVER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.209
"USB KEYBOARD,KU-0355,HUNGARIA VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.210
"USB KEYBOARD,KU-0355,GREEK VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.211

PARTNAME	DESCRIPTION	ACER PART NO.
"USB KEYBOARD,KU-0355,DENMARK VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.212
"USB KEYBOARD,KU-0355,CZECH VER.,104KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.213
"USB KEYBOARD,KU-0355,ITALIAN NEW LAYOUT,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.214
"USB KEYBOARD,KU-0355,ROMANIAN VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.215
"USB KEYBOARD,KU-0355,TURKEY/ FRENCH VER.,105KS,JPN ABS(WITH EKEY),ROHS"	KU-0355	KB.KUS03.216
"USB KEYBOARD, KU-0355, FRENCH VER., 105KEYS (WITH EKEY), ROHS"	KU-0355	KB.KUS03.217
"USB KEYBOARD, KU-0355, FRENCH+ARABIC, 105KS (WITH EKEY), ROHS"	KU-0355	KB.KUS03.218
"WIRELESS KB, COCOON, TC VER., 104 KEYS(WITH EKEY) ROHS, WITH STK LABE"	Y-RAJ56A	KB.CCN04.030
"WIRELESS KB, COCOON, US VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.029
"WIRELESS KB, COCOON, TC VER., 104 KEYS(WITH EKEY) ROHS, WITH STK LABE"	Y-RAJ56A	KB.CCN04.030
"WIRELESS KB, COCOON, INTL US VER., 104 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.031
"WIRELESS KB, COCOON, ARABIC VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.032
"WIRELESS KB, COCOON, THAI VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.033
"WIRELESS KB, COCOON, GERMANY VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.034
"WIRELESS KB, COCOON, ITALIAN VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.035
"WIRELESS KB, COCOON, FRENCH VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.036
"WIRELESS KB, COCOON, SWEDEN VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.037
"WIRELESS KB, COCOON, SPANISH VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.038
"WIRELESS KB, COCOON, UK VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.039
"WIRELESS KB, COCOON, SWISS VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.040
"WIRELESS KB, COCOON, BELGIUM VER., 105 KEYS(WITH EKEY) ROHS"	Y-RAJ56A	KB.CCN04.041

PARTNAME	DESCRIPTION	ACER PART NO.
"WIRELESS KB, COCOON, CZECH VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.042
"WIRELESS KB, COCOON, RUSSIAN VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.043
"WIRELESS KB, COCOON, DENMARK VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.044
"WIRELESS KB, COCOON, DUTCH VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.045
"WIRELESS KB, COCOON, PORTUGESE VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.046
"WIRELESS KB, COCOON, SLOVAK VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.047
"WIRELESS KB, COCOON, ICELAND VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.048
"WIRELESS KB, COCOON, NORWEGIAN VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.049
"WIRELESS KB, COCOON, HEBREW VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.050
"WIRELESS KB, COCOON, POLISH VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.051
"WIRELESS KB, COCOON, SLOVENIAN VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.052
"WIRELESS KB, COCOON, TURKEY VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.053
"WIRELESS KB, COCOON, HUNGARIA VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.054
"WIRELESS KB, COCOON, GREEK VER., 104 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.055
"WIRELESS KB, COCOON, CANADIAN/ FRENCH VER., 105 KEYS(WITH EKEY) ROHS "	Y-RAJ56A	KB.CCN04.056
WIRELESS KB COCOON US VER. 104 KEYS(WITH EKEY) SILVER HEAD ROHS	Y-RAJ56A	KB.CCN04.057
WIRELESS KB COCOON US VER. 104 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.087
WIRELESS KB COCOON TC VER. 104 KEYS(WITH EKEY VISTA) ROHS WITH STK LABEL	Y-RAJ56A	KB.CCN04.088
WIRELESS KB COCOON INTL US VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.089
WIRELESS KB COCOON ARABIC VER. 104 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.090
WIRELESS KB COCOON THAI VER. 104 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.091
WIRELESS KB COCOON GERMANY VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.092
WIRELESS KB COCOON ITALIAN VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.093
WIRELESS KB COCOON FRENCH VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.094

PARTNAME	DESCRIPTION	ACER PART NO.
WIRELESS KB COCOON SWEDEN VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.095
WIRELESS KB COCOON SPANISH VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.096
WIRELESS KB COCOON UK VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.097
WIRELESS KB COCOON SWISS VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.098
WIRELESS KB COCOON BELGIUM VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.099
WIRELESS KB COCOON CZECH VER. 104 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.100
WIRELESS KB COCOON RUSSIAN VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.101
WIRELESS KB COCOON DENMARK VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.102
WIRELESS KB COCOON DUTCH VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.103
WIRELESS KB COCOON PORTUGESE VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.104
WIRELESS KB COCOON SLOVAK VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.105
WIRELESS KB COCOON ICELAND VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.106
WIRELESS KB COCOON NORWEGIAN VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.107
WIRELESS KB COCOON HEBREW VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.108
WIRELESS KB COCOON POLISH VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.109
WIRELESS KB COCOON SLOVENIAN VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.110
WIRELESS KB COCOON TURKEY VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.111
WIRELESS KB COCOON HUNGARIA VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.112
WIRELESS KB COCOON GREEK VER. 104 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.113
WIRELESS KB COCOON CANADIAN/ FRENCH VER. 105 KEYS(WITH EKEY VISTA) ROHS	Y-RAJ56A	KB.CCN04.114
MEMORY		
"DDR2 533 256MB, 32MX64,HYS64T32000HU-3.7-B (0.09U), ROHS"	HYS64T32000HU-3.7-B	KN.25602.033
"DDR2 533 512MB,NT512T64U88A0BY-37B(PB-FREE)"	NT512T64U88A0BY-37B	KN.51203.021

PARTNAME	DESCRIPTION	ACER PART NO.
"DDR2 533 1024MB,NT1GT64U8HA0BY-37B (PB-FREE)"	NT1GT64U8HA0BY-37B	KN.1GB03.007
"HYNIX DDR2 533 256MB,HYMP532U64BP6-C4 (0.09UM)"	HYMP532U64BP6-C4	KN.2560G.015
"HYNIX DDR2 533 512MB,HYMP564U64BP8-C4 (0.09UM)"	HYMP564U64BP8-C4	KN.5120G.016
MOUSE		
"USB OPTICAL MOUSE, N12ROU, ROHS"	N12ROU	MS.N1204.001
"USB OPTICAL MOUSE, MUV ACR1, W/ STK LABEL, ROHS"	M-UV ACR1	MS.MUV01.005
"LOGITECH WIRELESS MOUSE, M- RAU95, ROHS"	M-RAU95	MS.RAF01.004
POWER SUPPLY		
POWER SUPPLY FSP ATX-250PA(1) (NON-PFC) (250W)	ATX-250PA(1)	PY.25008.018
POWER SUPPLY FSP ATX-250PA(1PF) (PFC) (250W)	ATX-250PA(1PF)	PY.25008.019
SPEAKER		
"JS 2.0 SPEAKER, USB, M-1118B, ACER LOGO,ROHS"	"M-1118B,LF"	SP.11805.003