

PRIMERGY Econel 200

D2020 Setup Utility

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This manual is printed on
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1 Introduction

Most systems are already configured by the manufacturer or the dealer. There is no need to run the Setup Utility when starting the computer unless you get a Run Setup message.

In the Setup Utility you can set the system functions and the hardware configuration of the device. When it is supplied, the device is set to factory default settings. You can change these settings in the Setup Utility. Any changes you make take effect as soon as you save the settings and quit the Setup Utility.

You can select the following settings in the Setup Utility:

<i>Main</i>	Basic system information
<i>Advanced</i>	Further system information
<i>Security</i>	Security functions
<i>Power</i>	Power management
<i>Exit</i>	Save changes and exit Setup Utility



The individual menus and setting options are described in chronological order in the next chapters. Since the setting options and menus depend on the hardware configuration of your device, some of them may not be offered in the Setup Utility.

1.1 Notational conventions

The meanings of the symbols and fonts used in this manual are as follows:



Pay particular attention to texts marked with this symbol. Failure to observe this warning endangers your life, destroys the system, or may lead to loss of data.



Supplementary information, remarks, and tips follow this symbol.

- Text which follows this symbol describes activities that must be performed in the order shown.

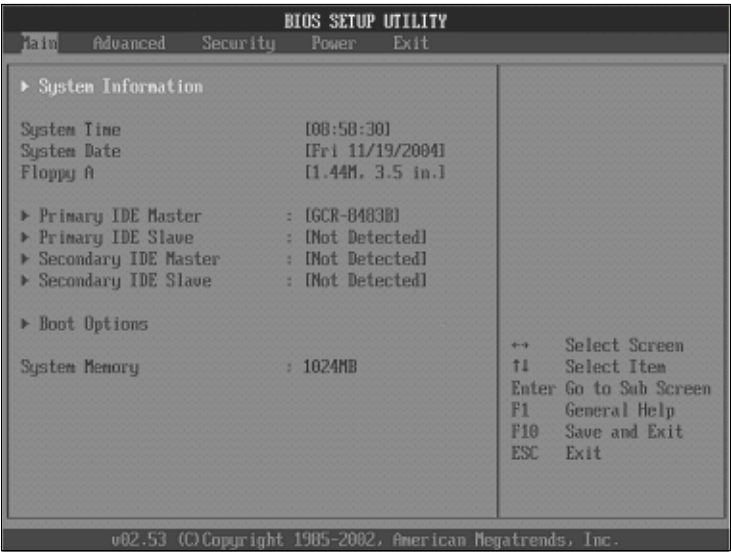
Typewriter text indicates system output.

Italics in continuous text indicate display items.

1.2 Calling the Setup Utility

- ▶ Restart the device (switching On/Off or warm boot).
- ▶ Press the **[DEL]** key to enter the Setup Utility.
- By pressing the **[F12]** key you can start LAN boot.
 By pressing the **[F8]** key you can call the Boot menu immediately (see page 3).
- ▶ If you have assigned a supervisor password, you must enter now this password and confirm it with the **[Enter]** key.

The *Main* menu of the Setup Utility is displayed on the screen:



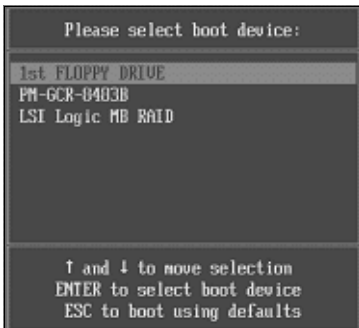
- A **[▶]** to the left of an item indicates that this item contains a submenu.
 By pressing the **[F1]** key, a help window appears on the screen. There you can get general help for BIOS navigation (see section “General help” on page 4).

1.3 Calling the Boot menu immediately

You may use this function if you do not want to boot the system from the drive specified as first device in the *Boot Options* → *Boot Sequence* item of the *Main* menu.

- Press the **[F8]** key.

After a while, the *Boot* menu appears as pop up window on the screen (only if several devices are available).



- Select from which drive you want to boot the operating system by using the keys **[↑]** or **[↓]** and then press the **[Enter]** key or press **[Esc]** to boot using defaults.

i Your selection is only valid for the current system boot. At the next system boot, the options selected in the *Boot Options* → *Boot Sequence* item of the *Main* menu are valid again.

Your computer supports three setup utility levels. The above screen displays the first level (basic level).

1.4 Operating the Setup Utility

To select a menu, press the keys  or .

To select an item in a Setup Utility menu, move the highlight bar by using the keys  or  and then press the  key.

To increase or decrease a value for the selected item, press the keys  or  until the desired value is found.

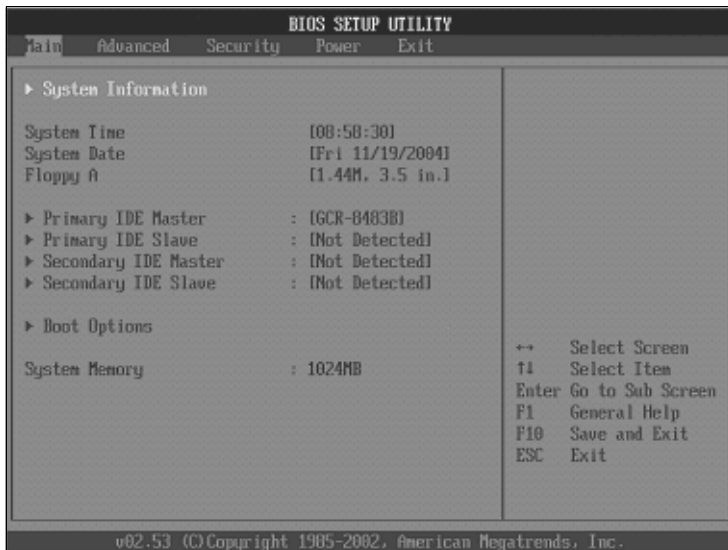


If you change entries in the Setup Utility, make a note of the changed entries!

1.5 General help

Pressing the  key opens a window where all keys which have a function in the BIOS Setup are listed and explained. When you select an item, a brief help is given besides the menu item.

2 Main menu



System Information

calls a submenu which displays various system information (see section "System Information" on page 7).

System Time

indicates the system time of the device in the format *HH:MM:SS*. You also can set the time manually. If the time is frequently wrong when powering up the system, the lithium battery is dead.

System Date

indicates the system date of the device in the format *Weekday MM/DD/YYYY*. You also can set the date manually. If the date is frequently wrong when powering up the system, the lithium battery is dead.

Floppy A

specifies the Legacy Diskette A disk drive. The value depends on the drive installed. If *Disabled* is shown, no floppy disk drive is installed.

Primary IDE Master / Primary IDE Slave

calls a submenu for setting the current configuration of the IDE device connected to the master/slave port of the primary IDE channel (see section “Primary IDE Master / Primary IDE Slave” on page 8).

Secondary IDE Master / Secondary IDE Slave

calls a submenu for setting the current configuration of the IDE device connected to the master/slave port of the secondary IDE channel. The parameters to be set are the same as with *Primary IDE Master / Primary IDE Slave*.

Third IDE/SATA / Fourth IDE/SATA

calls a submenu for setting the current configuration of third (fourth) IDE/SATA. The parameters to be set are the same as with *Primary IDE Master / Primary IDE Slave*.

These items are only available if the *IDE Configuration* → *Configure S-ATA as RAID* item of the *Advanced* menu is set to *Yes*.

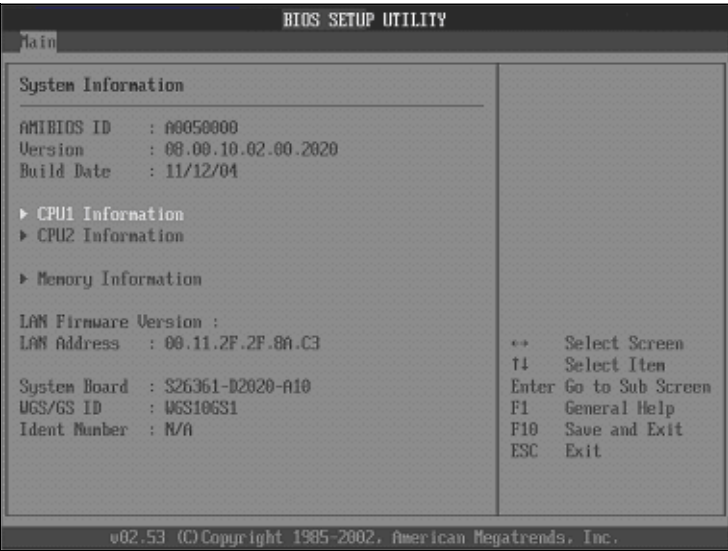
Boot Options

calls a submenu for setting the boot parameters (see section “Boot Options” on page 10).

System Memory

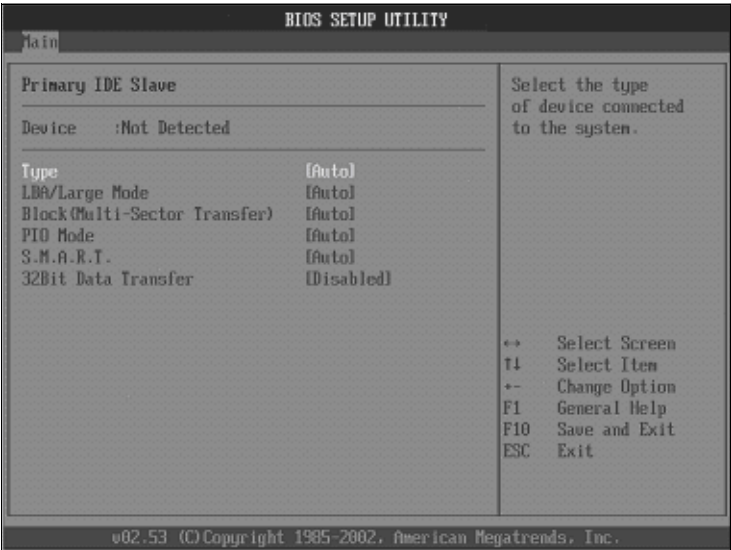
indicates the size of the system memory.

2.1 System Information



This submenu displays information about the BIOS, the LAN and the system board as shown in the figure above. Furthermore it contains three submenues displaying information about the CPU's (type, speed, caches etc.) and the memory (DIMM type, DIMM 1A, 1B ...).

2.2 Primary IDE Master / Primary IDE Slave



Type specifies the type of installed disk drive:

Auto, *CDROM*, *ARMD*

If the disk drive supports the corresponding mode, the setup utility reads the parameters from the disk itself. You do not need to set the parameters yourself.

Not installed

No disk drive installed.

LBA/Large Mode

converts the physical formatting of disks in cylinders, heads and sectors so that the generated logical values lie within the BIOS limitations. This means that a disk capacity of over 528 Mbyte can be supported.

Auto If the disk supports LBA and it has a capacity of more than 528 Mbytes, BIOS translates the disk parameters.

Disabled

BIOS uses the disk parameters and supports a maximum capacity of 528 Mbytes.

Block (Multi-Sector Transfer)

specifies whether multiple sectors per bloc are transferred at a time:

Auto Multiple sector transfer is activated. If the device supports this feature, multiple sectors are transferred at a time.

Disabled

Multiple sector transfer is not activated. Only one sector is transferred at a time.

If *LBA/Large Mode* is set, blocks are transmitted, otherwise sectors.

PIO Mode

specifies the transfer rate of the disk drive.

Auto BIOS determines the best possible transfer rate for the disk drive

0 1 Mbyte to 2Mbyte per second

1 2 Mbyte to 4 Mbyte per second

2 4 Mbyte to 5 Mbyte per second

3 5 Mbyte to 10 Mbyte per second

4 10 Mbyte to 16 Mbyte per second



If transfer rates are set incorrectly, the disk drive will be either too slow, does not boot correctly or does not respond.

DMA Mode

specifies the DMA transfer mode for the IDE hard disk drive.

Mode #

The corresponding DMA transfer mode is set.

Disabled

No DMA transfer mode is set.

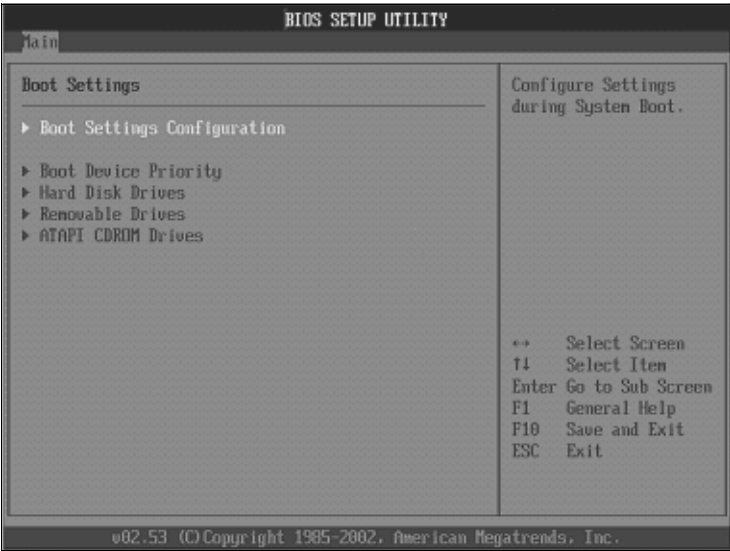
S.M.A.R.T

specifies whether the SMART Technology function is set (*Enabled*) or not (*Disabled*). If *Auto* is specified, the function is set automatically if the device supports this.

32Bit Data Transfer

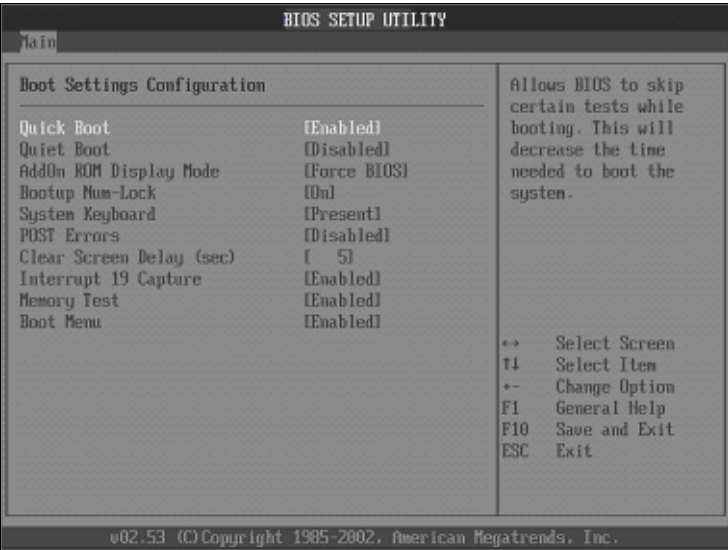
specifies the width of data transmission between the processor and the controller (*Enabled* = 32 Bit, *Disabled* = 16 Bit).

2.3 Boot Options



This submenu contains further submenues described in the following sections.

2.3.1 Boot Settings Configuration



Quick Boot
specifies whether a quick self-test is carried out (*Enabled*) or the complete device configuration is tested (*Disabled*) when the device is switched on.

Quiet Boot
specifies whether a logo (*Enabled*) or the POST information (*Disabled*) is displayed on the screen during the boot routine.

AddOn ROM Display Mode
specifies whether users see the initialization of PCI option ROM during POST.

Force BIOS
BIOS will switch logo screen to text screen during PCI option ROM initialization.

Keep current
BIOS doesn't switch logo screen to text screen during PCI option ROM initialization.

Condition: *Quiet Boot* is enabled.

Bootup Num-Lock

specifies whether the NumLock function is switched on (*On*) or not (*Off*) during power-on.

System Keyboard

determines whether there is a keyboard connected to the computer (*Present*) or not (*Absent*).

POST Errors

specifies whether the system start-up is to be aborted and the system halted when an error is detected during the self-test (*Enabled*) or not (*Disabled*). If *Disabled* is set, the error is ignored as far as possible.

Clear Screen Delay (sec)

specifies the delay time in seconds before clearing the screen to boot (0-9 seconds).

Interrupt 19 Capture

allows the option ROMs to trap Interrupt 19 (*Enabled*) or not (*Disabled*).

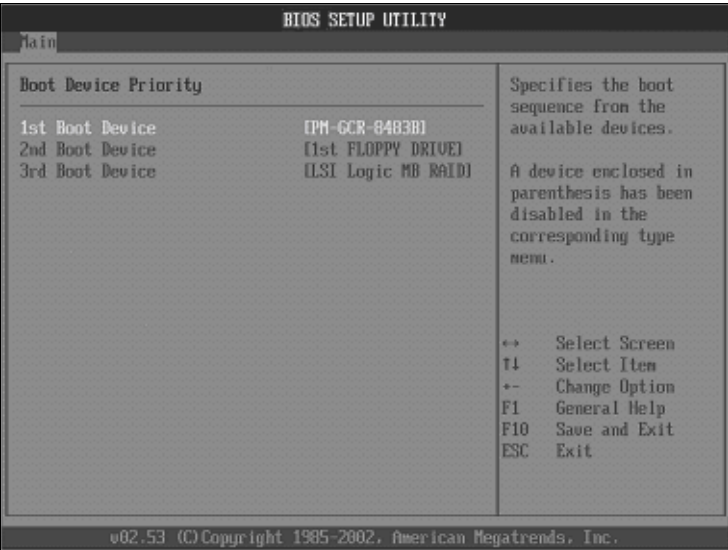
Memory Test

specifies whether a memory test is running during the boot routine of the BIOS (*Enabled*) or not (*Disabled*).

Boot Menu

specifies whether the boot menu can be invoked with **F8** during the POST (*Enabled*) or not (*Disabled*).

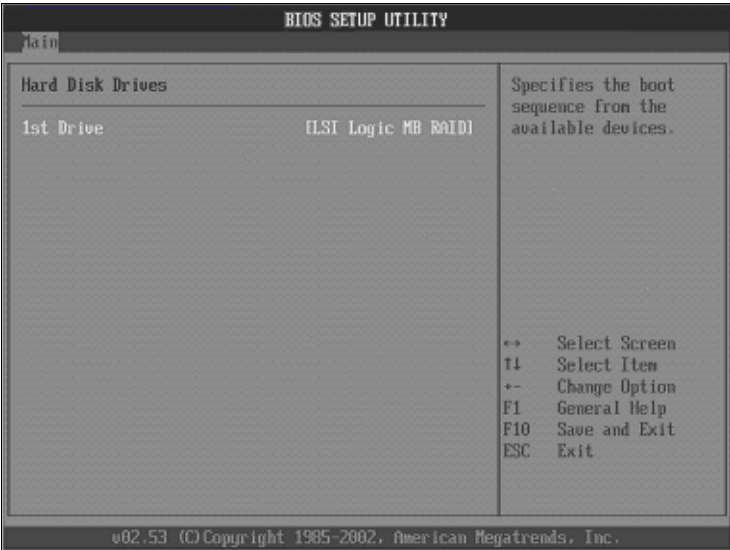
2.3.2 Boot Device Priority



1st Boot Device / 2nd Boot Device / ...
specifies the sequence of the boot devices during booting. The sequence can be changed with the cursor.

- CDROM* The system is booted from a CD-ROM.
- Floppy* The system is booted from a floppy disk.
- HDD* The system is booted from a hard disk.
- LAN* The system is booted via LAN.

2.3.3 Hard Disk Drives



The items in this submenu specify the boot device priority sequence from the available hard disk drives. The number of items that appear on the screen depends on the number of devices installed in the system.

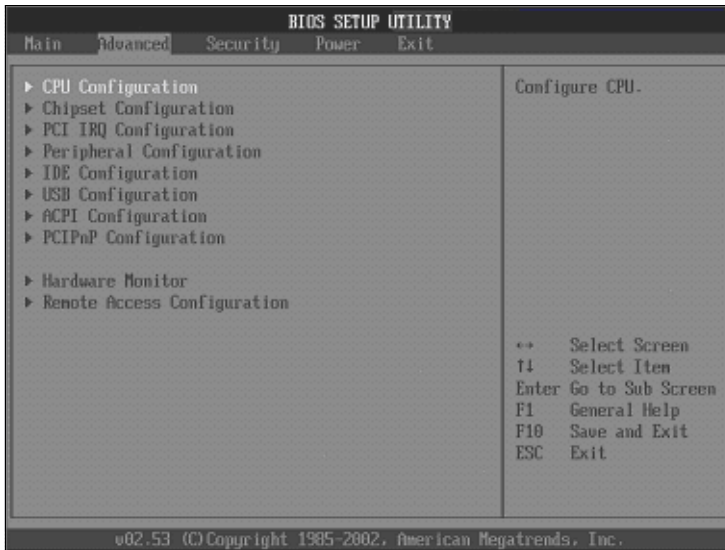
2.3.4 Removable Drives

The items in this submenu specify the boot device priority sequence from the available removable drives. The number of items that appear on the screen depends on the number of devices installed in the system. The display of this submenu is analogous to *Hard Disk Drives*.

2.3.5 ATAPI CDROM Drives

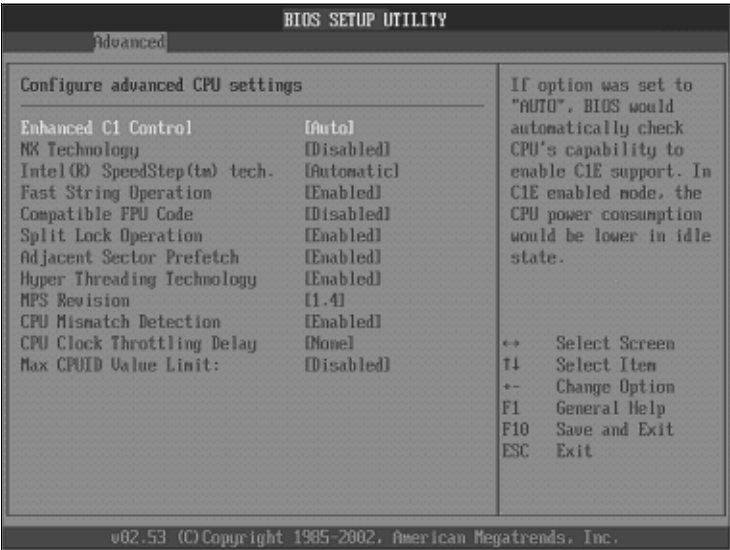
The items in this submenu specify the boot device priority sequence from the available ATAPI CD-ROM drives. The number of items that appear on the screen depends on the number of devices installed in the system. The display of this submenu is analogous to *Hard Disk Drives*.

3 Advanced menu



i Change the default settings in the advanced menu only for special applications. Incorrect settings can cause your system to malfunction.

3.1 CPU Configuration



- Enhanced C1 Control**
specifies whether BIOS checks the CPU capability automatically to enable CE1 support (*Auto*) or not (*Disabled*). In C1E mode the power consumption would be lower in idle state.
- NX Technology**
activates (*Enabled*) or deactivates (*Disabled*) No-Execution page protection technology.
- L3 Cache**
specifies whether the caching of L3 cache is enabled or disabled. This item is only visible by a CPU that contains L3 cache.
- Fast String Operation**
activates (*Enabled*) or deactivates (*Disabled*) an adjustment option of the CPU to effect optimised string operations. Cache procedures are optimised and interrupts are only admitted on cacheline boundaries.
- i** You will find more information under www.intel.com in the document "IA-32 Intel Architecture Software Developers Manual Vol 1-3" under the keyword "Out-of-Order Stores for String Operations".

Compatible FPU Code

activates (*Enabled*) or deactivates (*Disabled*) P6, the compatible FPU operation code register model.



You will find more information under www.intel.com in the document "IA-32 Intel Architecture Software Developers Manual Vol 1-3" under the keyword "Guidelines for writing x87 FPU Exception Handlers".

Split Lock Operation

activates (*Enabled*) or deactivates (*Disabled*) a feature which specifies whether an alignment check exception is activated during a transaction which splitts an acheline or a page.

Adjacent Sector Prefetch

specifies whether the CPU reads complete cache lines (*Enabled*) or only the sector of a cache line (*Disabled*) which contains the required data.



With this option you can make performance settings for exceeding applications. Fujitsu Siemens Computers recommends for standart applications not to deviate from the default settings.

Hyper Threading Function

specifies whether an ACPI operating system can use all logical CPUs within a physical CPU (*Enabled*) or only the first logical CPU of the physical CPU (*Disabled*).

Hyper-threading technology allows a single physical processor to appear as several logical processors. This setting has no effect on operating systems that do not support ACPI.

MPS Revision

specifies the Multiprocessor Specification Revision.

CPU Mismatch Detection

enables/disables detection of CPU frequency change and front side bus frequency mismatch.

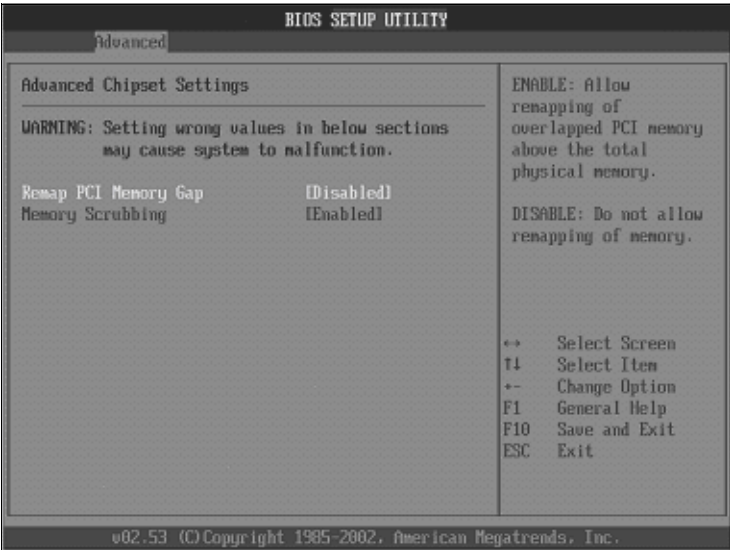
CPU Clock Throttling Delay

specifies the throttling delay of the CPU clock in minutes (*None, 1, 5, 10, 20, 30, 60*).

Max CPUID Value Limit

specifies whether legacy operating systems are booted (*Enabled*) or not (*Disabled*). Legacy operating systems are unable to support CPU's with extended CPUID function.

3.2 Chipset Configuration



Remap PCI Memory Gap

specifies whether the PCI Memory Gap is assigned addresses above 4 Gbytes (*Enabled*) or not (*Disabled*).

 This entry must set to *Disabled* if you are using aPROMISE S150 TX4 SATA RAID ccontroller in your system.

The memory addresses directly below 4 Gbyte are used for accessing PCI devices. The size of this area depends on the number of PCI devices and the devices themselves. This address area is called *PCI Memory Gap*.

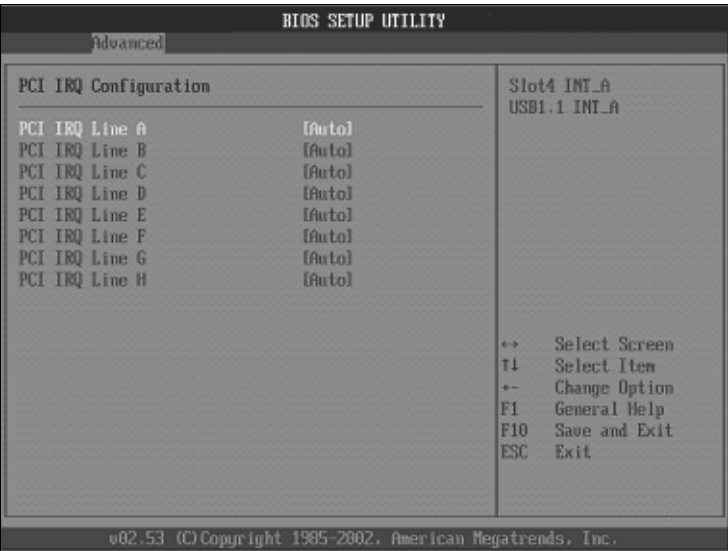
If the system is equipped with a main memory of 4 Gbytes or more, it is not possible to access the part of the main memory with addresses reserved for accessing PCI devices that lie in the PCI Memory Gap.

 Not all operating systems support memory addresses above the 4 Gbyte limit. Special boot parameters may also be necessary for the operating system to make main memory above 4 Gbytes usable.

Memory Scrubbing

specifies whether memory will be screened and one-bit errors will be corrected (*Enabled*) or not (*Disabled*).

3.3 PCI IRQ Configuration



PCI IRQ Line ...

defines the port-specific allocation from PCI interrupts to ISA interrupts.

- Auto* The PCI interrupts are assigned automatically in accordance with the Plug and Play guidelines.
- #* The PCI interrupt is switched to the selected ISA interrupt. You may not select an ISA interrupt that is used by an ISA component on the mainboard (e.g. controller) or an ISA board.

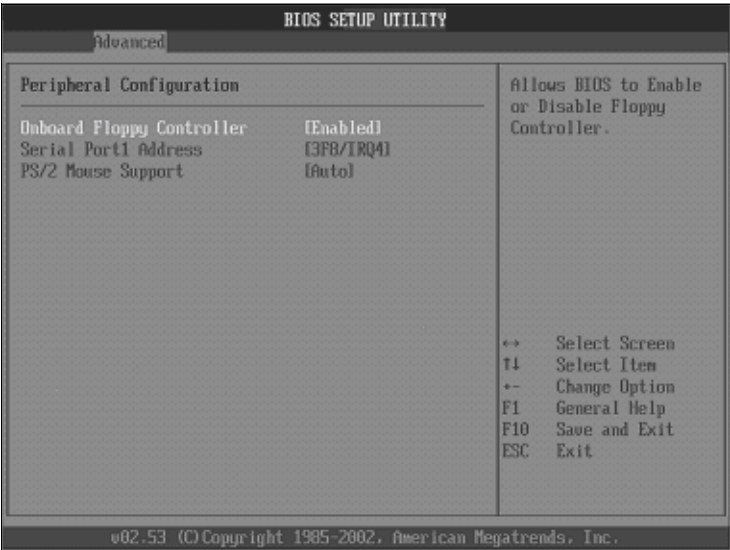
Disabled

No ISA interrupt is assigned to the PCI interrupt.



If you use a setting other than *Auto*, the Plug and Play functionality of the System BIOS for the corresponding PCI boards is deactivated.

3.4 Peripheral Configuration



OnBoard Floppy Controller
specifies whether the built-in floppy disk controller on the system board is enabled (IRQ 6 is used) or disabled (IRQ 6 is free).

Serial Port1 Address
specifies the address and the interrupt used to access the serial port1.

3F8/IRQ4, 3E8/IRQ4, 2F8/IRQ3
The port is set to the corresponding address and interrupt.
Additional lines are displayed for setting the configuration.

Disabled
The port is disabled.

PS/2 Mouse Support

specifies whether the built-in mouse controller on the system board is enabled .

Enabled

The mouse controller is enabled (IRQ 12 is used).

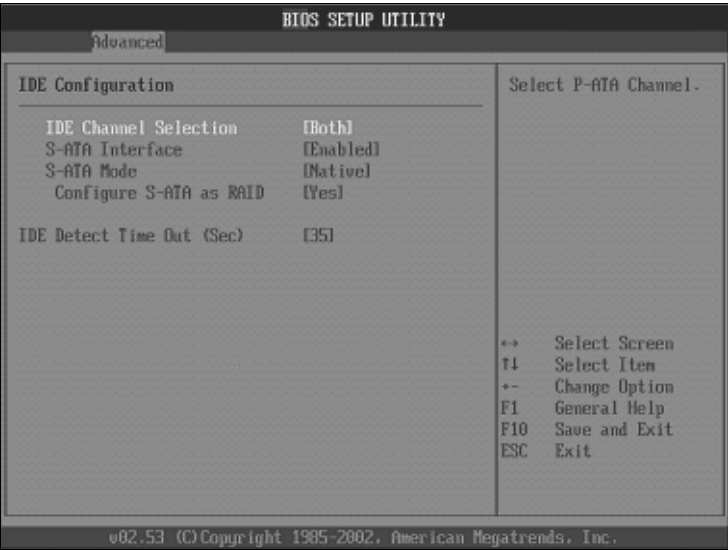
Disabled

The mouse controller is disabled (IRQ 12 is free).

Auto

The connected mouse is automatically detected and activated. Operating systems that support Plug & Play automatically configure the mouse.

3.5 IDE Configuration



IDE Channel Selection

specifies the IDE channel(s) which is(are) to be enabled (*Primary, Secondary, Both, Disabled*). If Disabled is specified, no IDE channel is enabled.

S-ATA Interface

specifies wheter the S-ATA interfaces on the system board are enabled (*Enabled*) or not (*Disabled*).

S-ATA Mode

specifies whether both S-ATA interfaces can be mapped as primary IDE master/slave interface if the operating system cannot handle the S-ATA hard disks in native mode.

Native

The S-ATA interfaces are working as native PCI devices.

Legacy

The S-ATA interfaces are mapped as legacy primary IDE master/slave.



When set to Legacy, the primary IDE interface is disabled on the system board and the S-ATA hard disks will appear as Primary IDE Master and Primary IDE Slave in the Main Menu after reboot.

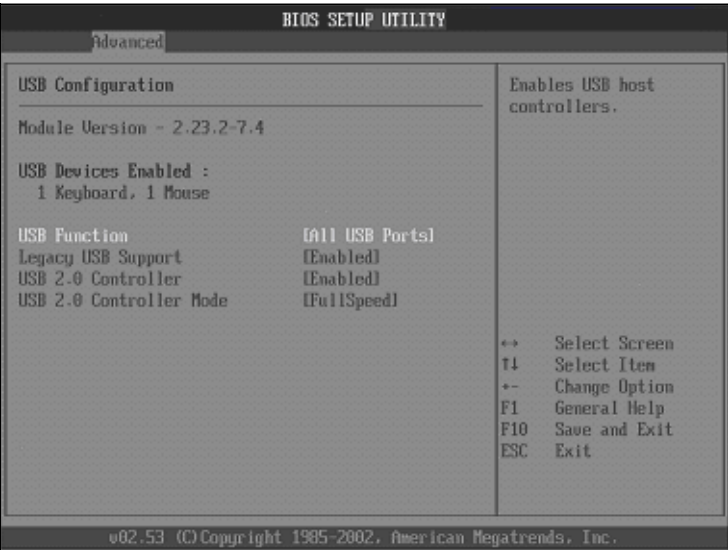
Configure S-ATA as RAID

specifies whether the serial ATA interfaces are used as a RAID system with RAID 0 (*Yes*) or not (*No*). Two identical serial ATA hard disk drives must be connected. Additional settings are made in the *RAID Configuration Utility*. This utility can be started when booting the system with a key combination. A message to this effect appears on screen.

IDE Detect Time Out (Sec)

specifies the time interval for detecting ATA/ATAPI devices.

3.6 USB Configuration



- Module Version*
shows the module and the version number of USB chipset devices. If no USB device is detected, the item shows *None*.
- USB Devices Enabled*
shows the enabled USB Devices. If no USB device is detected, the item shows *None*.
- USB Function*
specifies the number of activated USB ports (*2 USB Ports*, *All USB Ports*, *Disabled*). If *Disabled* is specified, no USB port is activated.
- Legacy USB Support*
specifies whether the support for legacy USB devices is enabled or disabled. If *Auto* is specified, the legacy support is disabled if no USB devices are connected.
- USB 2.0 Controller*
specifies whether the USB controller is active (*Enabled*) or inactive (*Disabled*).

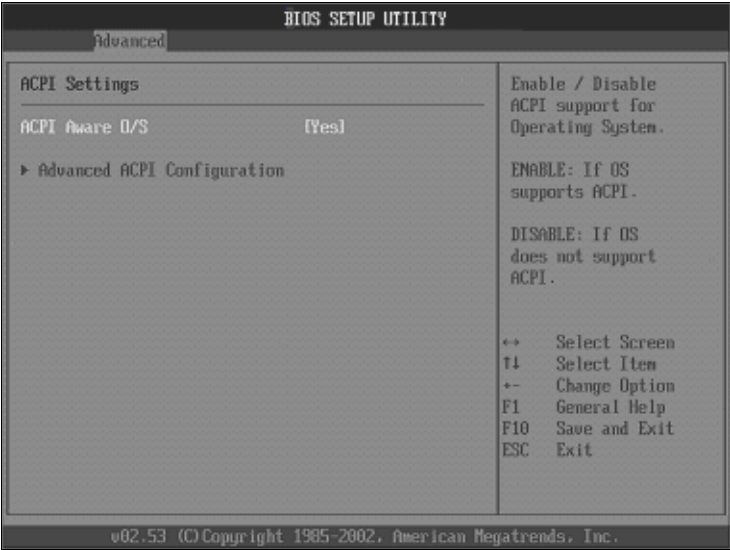
USB 2.0 Controller Mode

configures the controller with 12 Mbps (*Fullspeed*) or with 480 Mbps (*HiSpeed*).



This Item is only available if *Legacy USB Support* and *USB2.0 Controller* are set to *Enabled*.

3.7 ACPI Configuration



ACPI Aware O/S

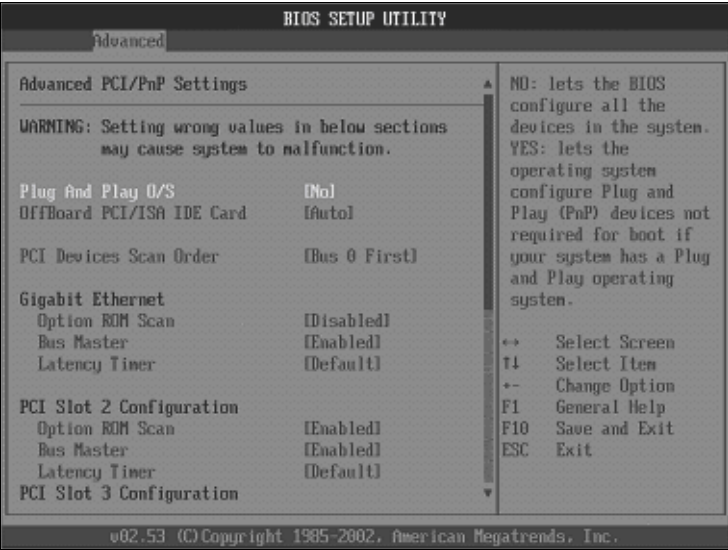
specifies whether the ACPI support for the operating system is enabled or disabled. Select *Yes* if the operating system supports ACPI otherwise select *No*.

Advanced ACPI Configuration

calls a submenu containing the following items:

- ACPI 2.0 Support*
specifies whether tables can be added according to the ACPI 2.0 specifications (*Yes*) or not (*No*).
- BIOS --> AML ACPI table*
specifies whether the inclusion of the BIOS -> AML exchange pointer to (X)RSDT pointer list is active (*Enabled*) or inactive (*Disabled*).
- Headless Mode*
specifies whether the headless operation mode through ACPI is active (*Enabled*) or inactive (*Disabled*).
- ACPI EMS Support*
specifies whether the support for the Emergency Management Services is active (*Enabled*) or inactive (*Disabled*).

3.8 PCIPnP Configuration



Plug & Play O/S

specifies whether BIOS configures all the devices in the system (*No*) or, if a Plug & Play operating system is installed, the operating system configures the Plug & Play devices which are not required for boot.

OffBoard PCI/ISA IDE Card

specifies the PCI slot number as required by some PCI IDE cards (*PCI Slot1 ... PCI Slot5, Auto*). If *Auto* is specified, the PCI slot number is set automatically.

*Gigabit Ethernet**Option ROM Scan*

enables or disables the initialization of the expansion ROM.

Bus Master

enables or disables the selected device as a PCI bus master.

Latency Timer

specifies a value in units of PCI clocks for the PCI device latency timer register (*Default, 32, 64, 96, 128, 160*).

PCI Slot 2 ... 6 Configuration

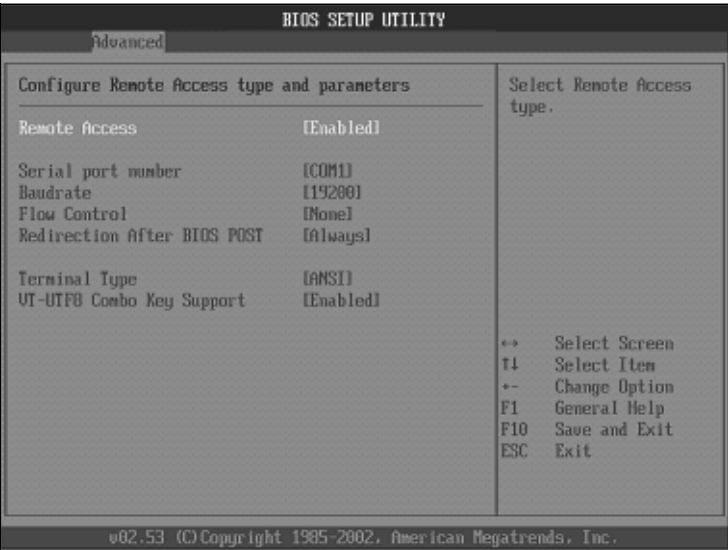
Option ROM Scan, Bus Master, Latency Timer

see above

3.9 Hardware Monitor

This submenu shows the values of various hardware parameters.

3.10 Remote Access Configuration



Remote Access
specifies whether the remote access via *Serial Port Console Redirection* is active (*Enabled*) or not (*Disabled*).

 The following items are only available if *Remote Access* is set to *Enabled*.

Serial Port Number
specifies the serial port for console redirection.

Baud Rate
specifies the baud rate of the serial port used for console redirection.
This setting must be identical on both the terminal and the server.

Flow Control

specifies how the transfer via the port is controlled. The setting must be the same on both the terminal and the server.

None The port is operated without transfer control.

XON/XOFF

The port transfer control is carried out by software.

CTS/RTS

The port transfer control is carried out by hardware. This mode must be supported by the cable.

Redirection After BIOS POST

specifies whether or not the console redirection is run after the Power-On Self Test (POST).

Always

Redirection is always active.



Some operating systems may not work if this item is set to *Always*.

Boot Loader

Redirection is only active during POST.

Disabled

Redirection is deactivated.

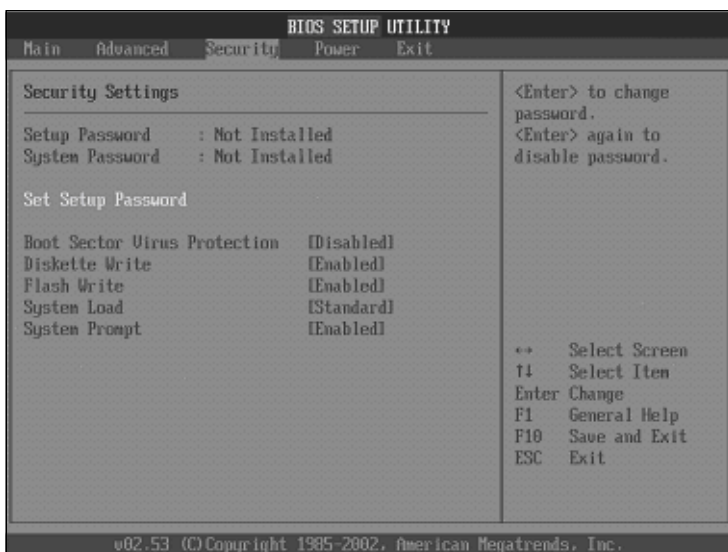
Terminal Type

specifies the terminal type (*ANSI*, *VT100*, *VT-UTF8*). This setting must be identical on both the terminal and the server.

VT-UTF8 Combination Key Support

disables or enables the VT-UTF8 combination key support for ANSI/VT100 terminals.

4 Security menu



Setup Password / System Password

displays whether a setup password and a system password is set (*Installed*) or not (*Not Installed*).

Set Setup Password

opens a window after pressing the **[ENTER]** key. Here you can assign the setup password. The setup password prevents an unauthorized calling of the BIOS Setup. If you want to delete the setup password without assigning a new one, enter a blank instead of a new password.



With the deletion of the setup password the system password is also deleted.

Set System Password

opens a window after pressing the **[ENTER]** key. Here you can assign the system password. The system password prevents the unauthorized access to the system. Condition: A setup password is set.

Clear System Password

opens a window after pressing the **[ENTER]** key. Here you can delete the system password. Condition: A system password is set.

Security menu

Boot Sector Virus Protection

allows to check the boot sectors of the hard disk to see if any changes have been made since the previous system boot. If the boot sectors have been changed and the reason for this is unknown, a program for finding computer viruses should be loaded.

Enabled

If the boot sector has been changed since the previous system boot (e.g. new operating system or virus attack), a warning is displayed. The warning stays on the screen until you acknowledge the changes with *Confirm* or deactivate the function.

Disabled

The boot sectors are not checked.

Diskette Write

activates (*Disabled*) or deactivates (*Enabled*) the diskette write protection.

Flash Write

activates (*Disabled*) or deactivates (*Enabled*) the BIOS write protection.

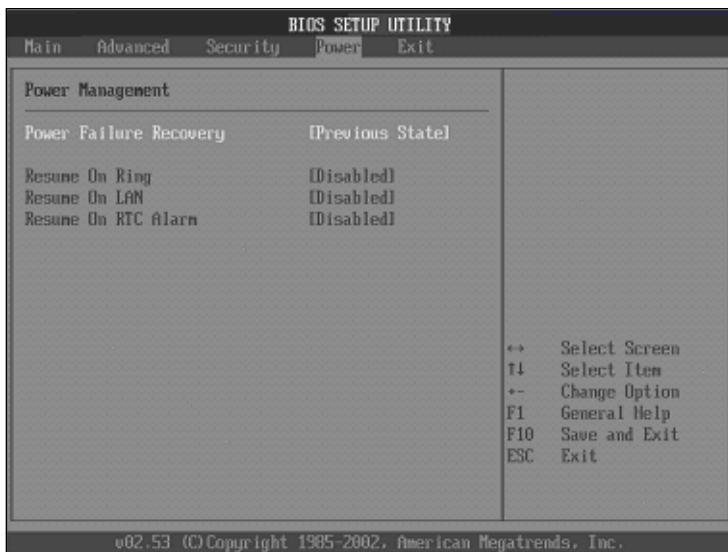
System Load

Allows booting from a floppy disk or an ATAPI-CD-ROM (*Standard*) or prevents booting from these drives (*Diskette / CDROM Lock*).

SETUP Prompt

specifies whether the setup prompt is displayed while booting (*Enabled*) or not (*Disabled*).

5 Power menu



Power Failure Recovery

sets the system status after an AC fail recovery.

Power Off

System stays in off state after an AC power loss.

Power On

System goes on after an AC power loss.

Previous State

System goes either into off or on state whatever the system state was before the AC power loss.

Resume on Ring

specifies whether the server can be switched on by a modem (*Enabled*) or not (*Disabled*).

Resume on LAN

specifies whether the server can be switched on by Onboard LAN Controller/PCI LAN card (*Enabled*) or not (*Disabled*).

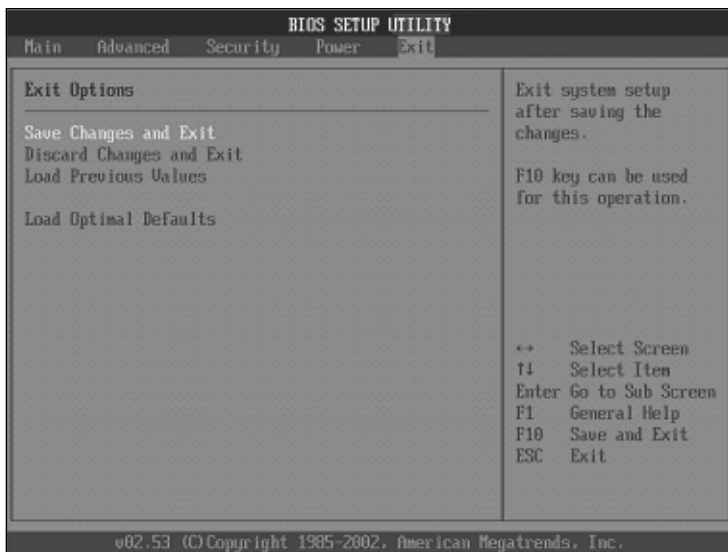
Resume on RTC Alarm

specifies whether the server can be switched on by the internal system clock (*Enabled*) or not (*Disabled*).



When the item is set to *Enabled*, the items *RTC Alarm Date*, *RTC Alarm Hour*, *RTC Alarm Minute*, and *RTC Alarm Second* appear on the screen.

6 Exit menu



Save Changes & Exit

saves the settings you have made into CMOS, exits BIOS Setup and reboots the computer. When you boot the computer the next time, the BIOS will reconfigure the system according to the data in CMOS. You can press the **[F10]** key alternatively.

Discard Changes & Exit

exits BIOS Setup without saving the modified settings and reboots the computer.

Load Previous Values

sets the values which were in effect when BIOS Setup was called.

Load Optimal Defaults

sets the optimal values for the best system performance. You can press the **[F5]** key alternatively.

After selecting an item and pressing **[Enter]** a window appears on the screen where you have to confirm the execution.

Abbreviations

ACPI	Advanced Configuration and Power Interface
AML	ACPI Machine Language
ARMD	Atapi Removeable Media Device
ATAPI	Attachment Packet Interface
BIOS	Basic Input Output System
CMOS	Complementary Metal Oxide Semiconductor
CTS/RTS	Clear To Send/Ready To Send
EMS	Expanded Memory Specification
FPU	Floating-Point Unit
IDE	Integrated Drive Electronics
IRQ	Interrupt Request Line
ISA	Industry Standard Architecture
LBA	Logical Block Addressing

Abbreviations

PCI	Peripheral Component Interconnect
PIO	Programmed Input Output
PnP	Plug and Play
POST	Power-On Self Test
RAID	Redundant Array of Independent Disks
RSDT	Root System Description Table
RTC	Real-Time Clock
S-ATA	Serial-Advanced Technology Attachment
SMART	Self-Monitoring, Analysis and Reporting Technology
USB	Universal Serial Bus
UTF	Universal Transformation Format,

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Comments
Suggestions
Corrections

Comments on PRIMERGY Econel 200
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