

TA75 UEFI BIOS Manual

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UEFI BIOS Setup

Introduction

The purpose of this manual is to describe the settings in the AMI UEFI BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to NVRAM.

UEFI BIOS determines what a computer can do without accessing programs from a disk. This system controls most of the input and output devices such as keyboard, mouse, serial ports and disk drives. BIOS activates at the first stage of the booting process, loading and executing the operating system. Some additional features, such as virus and password protection or chipset fine-tuning options are also included in UEFI BIOS.

The rest of this manual will to guide you through the options and settings in UEFI BIOS Setup.

Plug and Play Support

This AMI UEFI BIOS supports the Plug and Play Version 1.0A specification.

EPA Green PC Support

This AMI UEFI BIOS supports Version 1.03 of the EPA Green PC specification.

ACPI Support

AMI ACPI UEFI BIOS support Version 1.0/2.0 of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

PCI Bus Support

This AMI UEFI BIOS also supports Version 2.3 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

DRAM Support

DDR3 SDRAM (Double Data Rate III Synchronous DRAM) is supported.

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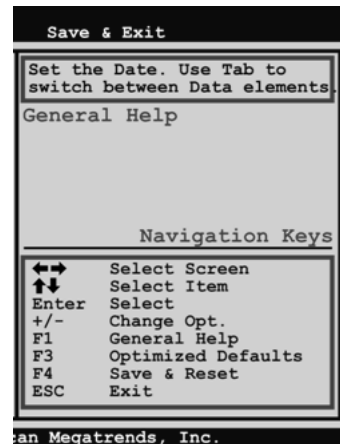
Supported CPUs

This AMI UEFI BIOS supports AMD CPU.

Using Setup

When starting up the computer, press during the **Power-On Self-Test (POST)** to enter the UEFI BIOS setup utility.

In the UEFI BIOS setup utility, you will see **General Help** description at the top right corner, and this is providing a brief description of the selected item. **Navigation Keys** for that particular menu are at the bottom right corner, and you can use these keys to select item and change the settings.



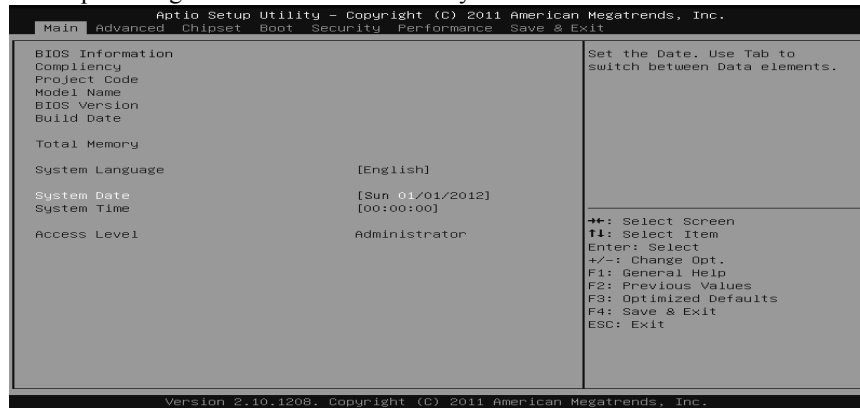
Notice

- The default UEFI BIOS settings apply for most conditions to ensure optimum performance of the motherboard. If the system becomes unstable after changing any settings, please load the default settings to ensure system's compatibility and stability. Use Load Setup Default under the Exit Menu.
- For better system performance, the UEFI BIOS firmware is being continuously updated. The UEFI BIOS information described in this manual is for your reference only. The actual UEFI BIOS information and settings on board may be slightly different from this manual.
- The content of this manual is subject to be changed without notice. We will not be responsible for any mistakes found in this user's manual and any system damage that may be caused by wrong-settings.

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1 Main Menu

Once you enter AMI UEFI BIOS Setup Utility, the Main Menu will appear on the screen providing an overview of the basic system information.



BIOS Information

Shows system information including UEFI BIOS version, Project Code, Model Name, Build Date, etc.

Total Memory

Shows system memory size, VGA shard memory will be excluded.

System Date

Set the system date. Note that the 'Day' automatically changes when you set the date.

System Time

Set the system internal clock.

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2 Advanced Menu

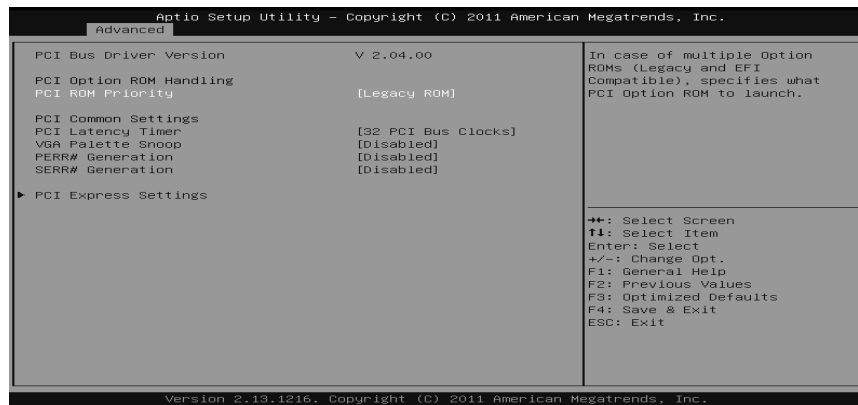
The Advanced Menu allows you to configure the settings of CPU, Super I/O, Power Management, and other system devices.

Notice

Beware of that setting inappropriate values in items of this menu may cause system to malfunction.



PCI Subsystem Settings



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PCI ROM Priority

In case of multiple option ROMs (Legacy and EFI Compatible), this item specifies what PCI Option ROM to launch

Options: Legacy ROM (Default) / EFI Compatible ROM

PCI Latency Timer

This item sets the value to be programmed into PCI Latency Timer Register.

Options: 32 PCI Bus Clocks (Default) / 64 PCI Bus Clocks / 96 PCI Bus Clocks / 128 PCI Bus Clocks / 160 PCI Bus Clocks / 192 PCI Bus Clocks / 224 PCI Bus Clocks / 248 PCI Bus Clocks

VGA Palette Snoop

This item enables or disables VGA Palette Registers Snooping.

Options: Disabled (Default) / Enabled

PERR# Generation

This item enables or disables PCI Device to Generate PERR#.

Options: Disabled (Default) / Enabled

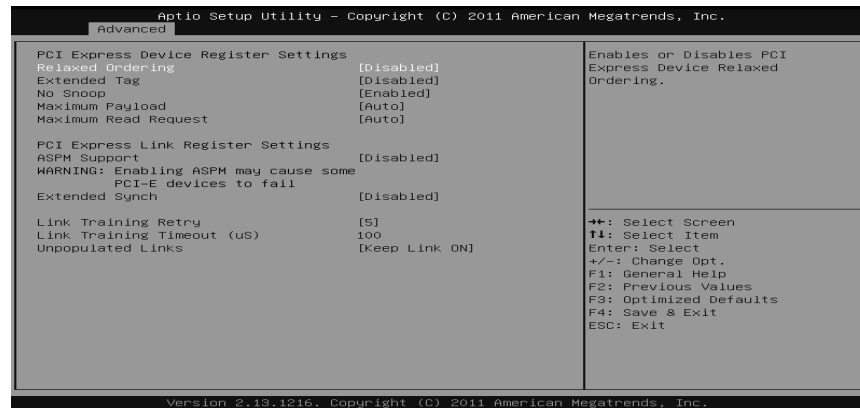
SERR# Generation

This item enables or disables PCI Device to Generate SERR#.

Options: Disabled (Default) / Enabled

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PCI Express Settings



Relaxed Ordering

This item enables or disables PCI Express Device Relaxed Ordering.

Options: Disabled (Default) / Enabled

Extended Tag

If ENABLED allows Device to use 8-bit Tag field as a requester.

Options: Disabled (Default) / Enabled

No Snoop

This item enables or disables PCI Express Device No Snoop option.

Options: Enabled (Default) / Disabled

Maximum Payload

This item sets Maximum Payload of PCI Express Device or allows System BIOS to select the value.

Options: Auto (Default) / 128 Bytes / 256 Bytes / 512 Bytes / 1024 Bytes / 2048 Bytes / 4096 Bytes

Maximum Read Request

This item sets Maximum Read Request Size of PCI Express Device or allows System BIOS to select the value.

Options: Auto (Default) / 128 Bytes / 256 Bytes / 512 Bytes / 1024 Bytes / 2048 Bytes / 4096 Bytes

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ASPM Support

This item sets the ASPM Level: Force LO – Force all links to LO State; Auto – BIOS auto configures; Disabled – Disables ASPM.

Options: Disabled (Default) / Auto / Force L0s

Extended Synch

If ENABLED allows generation of Extended Synchronization patterns

Options: Disabled (Default) / Enabled

Link Training Retry

Defines number of Retry Attempts software will take to retrain the link if previous training attempt was unsuccessful.

Options: Disabled (Default) / 2 / 3 / 5

Link Training Timeout (uS)

Defines number of Microseconds software will wait before polling “Link Training” bit in Link Status register. Value range from 10 to 1000 uS.

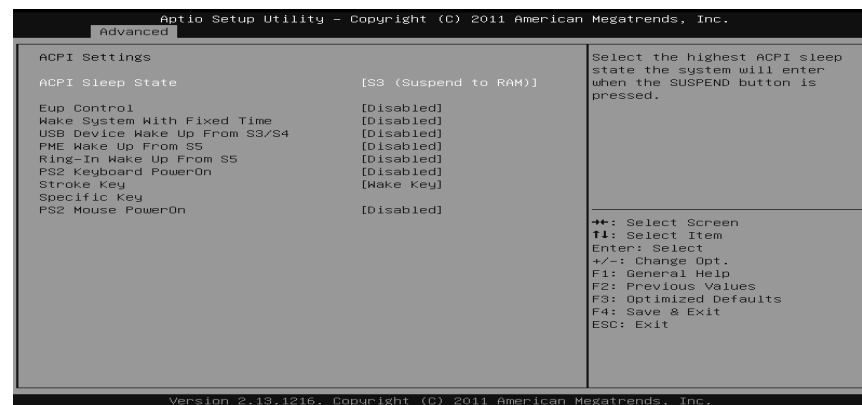
Options: 100 to 1000 uS

Unpopulated Links

In order to save power, the software will disabled unpopulated PCI Express links, if this option set to ‘Disabled Link’.

Options: Keep Link ON (Default) / Disabled

ACPI Settings



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ACPI Sleep State

This item selects the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

Options: S3 (Suspend to RAM) (Default) / Suspend Disabled

EuP Control

When EuP is enabled, the system will meet EuP requirement.

Options: Disabled (Default) / Enabled

Wake system with Fixed Time

This item enables or disables the system to wake on by alarm event. When this item is enabled, the system will wake on the hr::min::sec specified.

Options: Disabled (Default) / Enabled

Wake up date

You can choose which date the system will boot up.

Wake up hour / Wake up minute / Wake up second

You can choose the system boot up time, input hour, minute and second to specify.

USB Device Wakeup from S3/S4

This item allows you to enable or disabled the USB resume from S3/S4 function.

Options: Disabled (Default) / Enabled

PME Wake up from S5

The item enables the system to wake from S5 using PME event.

Options: Disabled (Default) / Enabled

Ring-In Wake up from S5

This item enables the system to wake from S5 using Ring-In event.

Options: Disabled (Default) / Enabled

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PS2 Keyboard PowerOn

This item allows you to control the keyboard power on function.

Options: Disabled (Default) / Any Key / Stroke Key / Specific Key

Stroke Keys Selected

This item will show only when Keyboard PowerOn is set “Stroke Key.”

Options: Wake Key (Default) / Power Key / Ctrl+F1 / Ctrl+F2 / Ctrl+F3 / Ctrl+F4 / Ctrl+F5 / Ctrl+F6

Specific Key Enter

This item will show only when Keyboard PowerOn is set “Specific Key.” Press Enter to set Specific key.

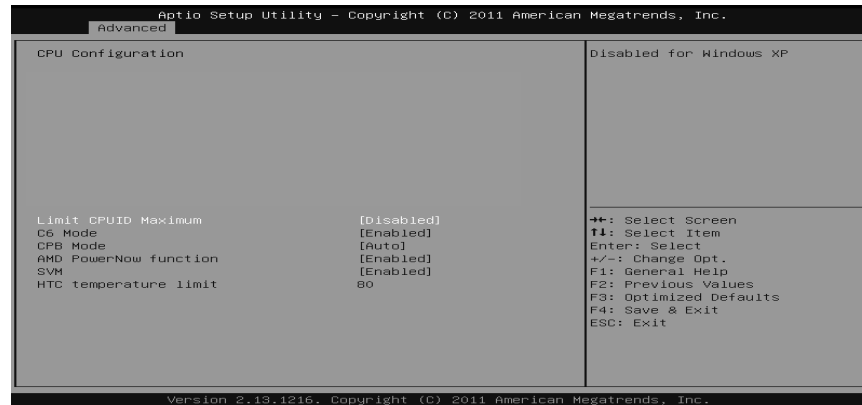
PS2 Mouse PowerOn

This item allows you to control the mouse power on function.

Options: Disabled (Default) / Enabled

CPU Configuration

This item shows CPU Information



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Limit CPUID Maximum

When the computer is booted up, the operating system executes the CPUID instruction to identify the processor and its capabilities. Before it can do so, it must first query the processor to find out the highest input value CPUID recognizes. This determines the kind of basic information CPUID can provide the operating system.

Options: Disabled (Default) / Enabled

C6 Mode

This item allows you to enable or disable C6.

Options: Enabled (Default) / Disabled

CPB Mode

This item allows you to enable or disable CPB.

Options: Auto (Default) / Disabled

AMD PowerNow function

This item allows you to enable or disable the PowerNow power saving technology.

Options: Enabled (Default) / Disabled

SVM

This item allows you to enable AMD virtualization in CPU. This secure virtual mode will let you run multiple OS (guest) on the same physical hardware by decoupling OS and physical hardware with the hypervisor layer.

Options: Enabled (Default) / Disabled

HTC temperature limit

This item allows you to set HTC temperature limit. Range: 70°C - 95°C

Options: 80°C (Default)

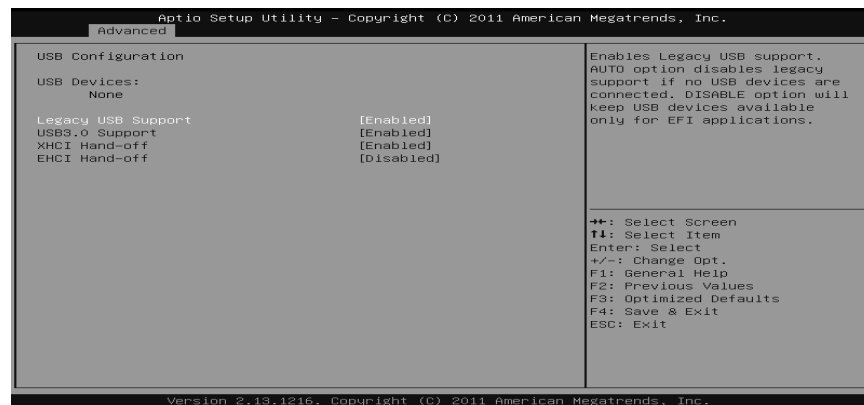
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SATA Configuration

The BIOS will automatically detect the presence of SATA devices. There is a sub-menu for each SATA device. Select a device and press <Enter> to enter the sub-menu for detailed options.



USB Configuration



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Legacy USB Support

This item determines if the BIOS should provide legacy support for USB devices like the keyboard, mouse, and USB drive. This is a useful feature when using such USB devices with operating systems that do not natively support USB (e.g. Microsoft DOS or Windows NT).

Options: Enabled (Default) / Disabled / Auto

USB3.0 Support

The item allows you to enable or disable USB3.0 (XHCI) Controller support.

Options: Enabled (Default) / Disabled

XHCI Hand-Off

This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.

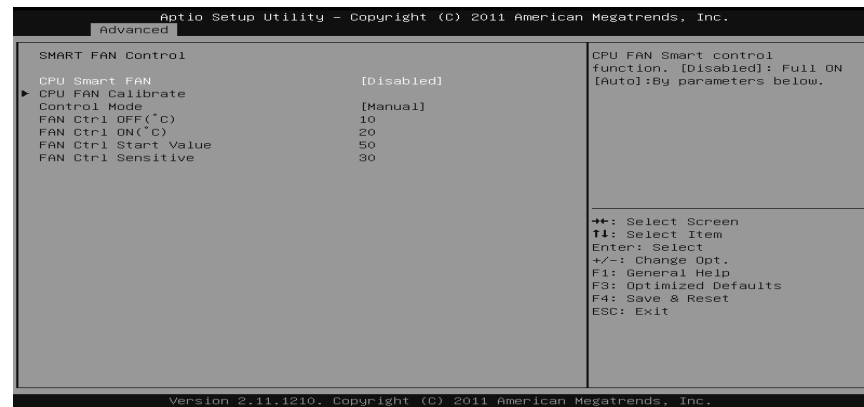
Options: Enabled (Default) / Disabled

EHCI Hand-Off

This is a workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

Options: Disabled (Default) / Enabled

SMART FAN Control



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CPU Smart FAN

This item allows you to control the CPU Smart Fan function.

Options: Disabled (Default) / Auto / 4Pin / 3Pin

CPU FAN Calibrate

Press [ENTER] to calibrate CPU FAN.

Control Mode

This item provides several operation modes of the fan.

Options: Quiet / Aggressive / Manual

Fan Ctrl OFF(°C)

When CPU temperature is lower than this value, the CPU fan will keep lowest RPM.

Options: 10 (°C) (default)

Fan Ctrl On(°C)

When CPU temperature is higher than this value, the CPU fan controller will turn on.

Options: 20 (°C) (Default)

Fan Ctrl Start Value

This item sets CPU FAN Start Speed Value.

Options: 50 (Default)

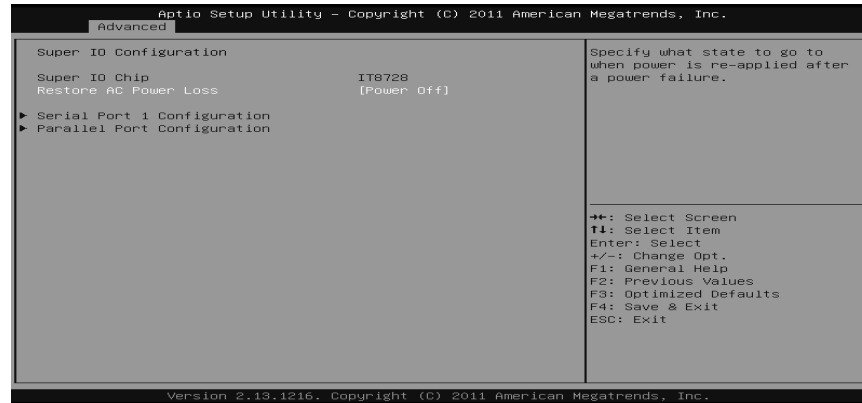
Fan Ctrl Sensitive

The bigger the numeral is, the higher the FAN speed is.

Options: 30 (Default)

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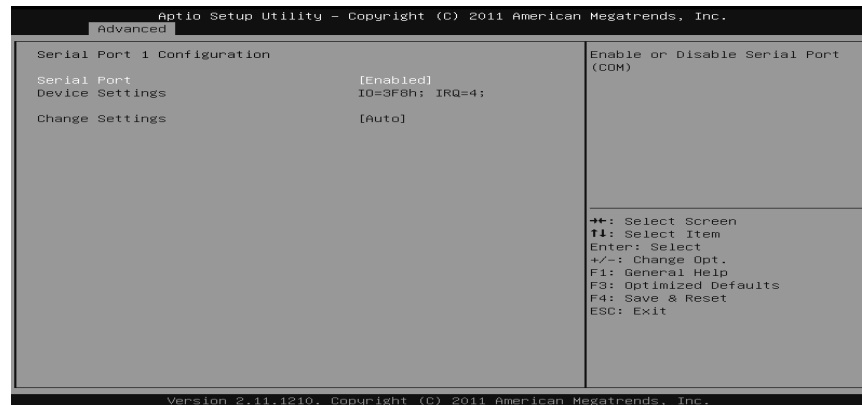
Super IO Configuration



Restore AC Power Loss

This setting specifies how your system should behave after a power fail or interrupts occurs. Power Off: Leaving the system in power-off status after power recovers. Power ON: Powering on the system immediately when power returns. Last State: 1. Leaving the system in power-off if the system shuts down at DC off status; 2. Powering on the system immediately if the system shuts down at DC on status. Options: Power Off (Default) / Power On / Last State

Serial Port 1 Configuration



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Serial Port

This item enables or disables Serial Port (COM).

Options: Enabled (Default) / Disabled

Change Settings

This item selects an optimal setting for Super IO device.

Options: Auto (Default) / IO=3F8h; IRQ=4 / IO=3F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12 / IO=2F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12 / IO=3E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12 / IO=2E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12

Parallel Port Configuration



Parallel Port

This item enables or disables Parallel Port (LPT/LPTE).

Options: Enabled (Default) / Disabled

Change Settings

This item allows you to select an optimal setting for Super IO device.

Options: Auto (Default) / IO=378h; IRQ=5 / IO=378h; IRQ=5, 6, 7, 9, 10, 11, 12 / IO=278h; IRQ=5, 6, 7, 9, 10, 11, 12 / IO=3BCh; IRQ=5, 6, 7, 9, 10, 11, 12

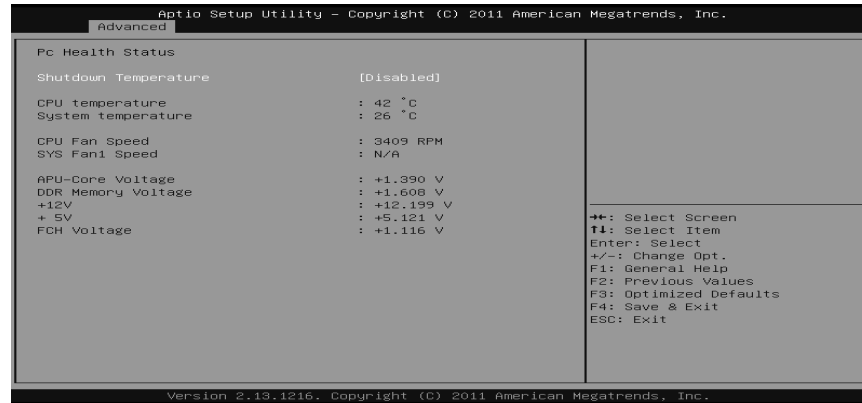
Device Mode

This item allows you to change the Printer Port mode.

Options: STD Printer Mode (Default) / SPP Mode / EPP-1.9 and SPP Mode / EPP-1.7 and SPP Mode

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H/W Monitor



Shutdown Temperature

This item allows you to set up the CPU shutdown Temperature.

Options: Disabled (Default) / 70°C/158°F / 75°C/167°F / 80°C/176°F / 85°C/185°F / 90°C/194°F

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Launch PXE OpROM

This item enables/disables Boot Option for Legacy Network Devices.

Options: Disabled (Default) / Enabled

Launch Storage OpROM

This item enables/disables Boot Option for Legacy Mass Storage Devices with Option ROM.

Options: Enabled (Default) / Disabled

Onboard LAN

This item enables/disables Onboard Gigabit LAN 0

Options: Enabled (Default) / Disabled

North Bridge



Primary Video Device

This item allows you to select Primary Video Device that BIOS will use to for output.

Options: IGD Video (Default) / NB PCIe slot Video

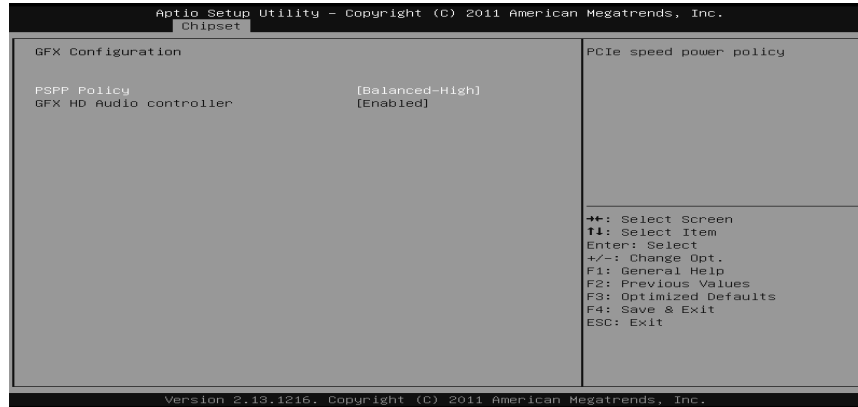
Surround View

It support multi-display function recommend video output connect with IGD first

Options: Disabled (Default) / Enabled

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GFX Configuration



PSPP Policy

This item allows you to set PCIe speed power policy.

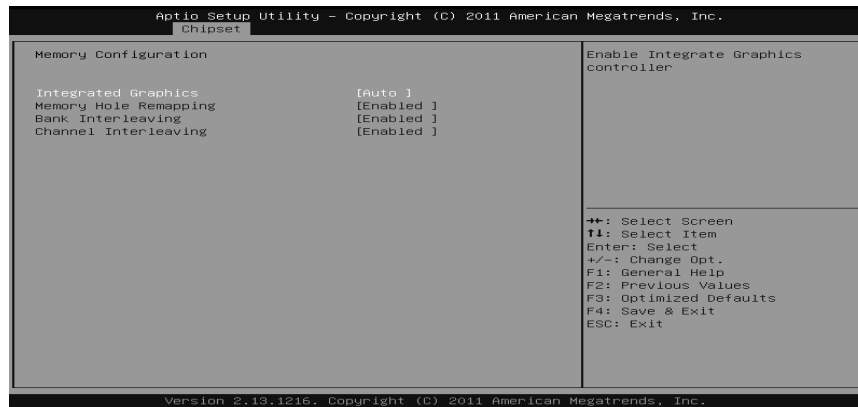
Options: Balanced-High (Default) / Disabled / Performance / Balanced-Low / Power Saving

GFX HD Audio controller

This item allows you to enable or disable GFX HD Audio controller.

Options: Enabled (Default) / Disabled

Memory Configuration



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Integrated Graphics

This item set integrated graphics controller.

Options: Auto (Default) / Disabled / Force

Memory Hole Remapping

This item allows you to enable or disable the remapping of the overlapped PCI memory above the total physical memory. Only 64-bit OS supports this function.

Options: Enabled (Default) / Disabled

Bank Interleaving

Bank Interleaving is an advanced chipset technique used to improve memory performance. Memory interleaving increases bandwidth by allowing simultaneous access to more than one piece of memory.

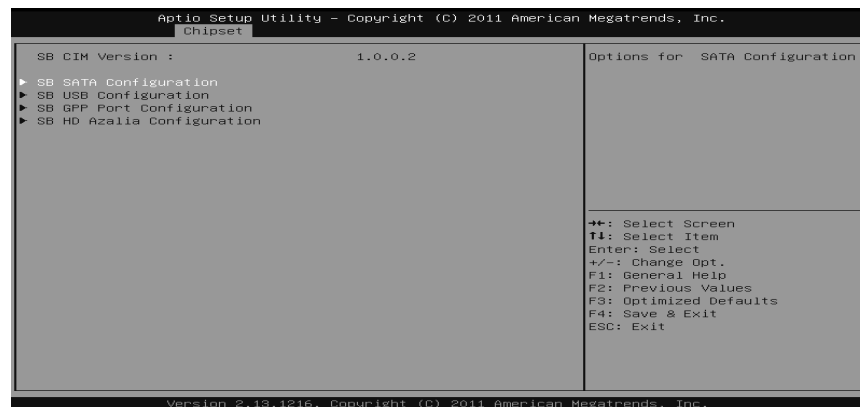
Options: Enabled (Default) / Disabled

Channel Interleaving

This item allows you to control the DDR3 dual-channel function.

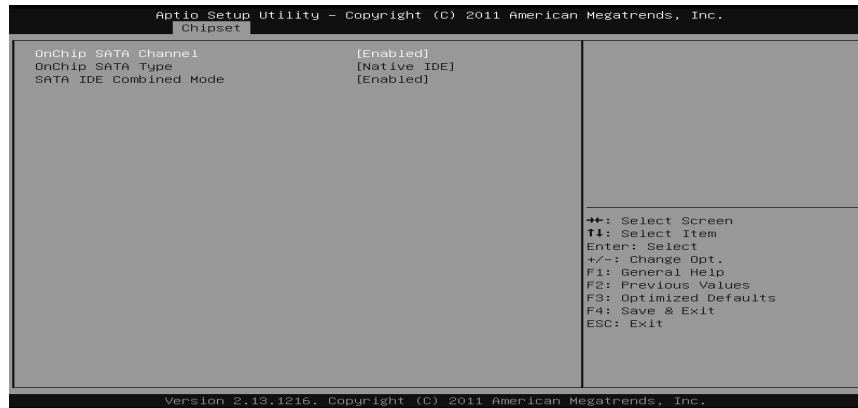
Options: Enabled (Default) / Disabled

South Bridge Configuration



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SB SATA Configuration



OnChip SATA Channel

This option allows you to enable the on-chip Serial ATA.

Options: Enabled (Default) / Disabled

OnChip SATA Type

This option allows you to select the on-chip Serial ATA operation mode.

Options: Native IDE (Default) / RAID / AHCI / Legacy IDE

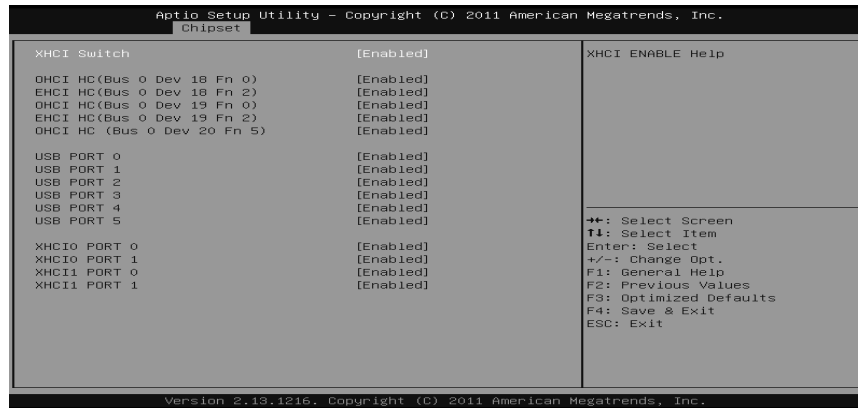
SATA IDE Combined Mode

This option allows you to select SATA IDE Combined Mode.

Options: Enabled (Default) / Disabled

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SB USB Configuration



XHCI Switch

This item allows you to switch XHCI

Options: Enabled (Default) / Disabled

OHCI HC (Bus 0 Dev 18/19/20 Fn 0/5)

This item allows you to control OHCI host controller. (USB 1.1 Device)

Options: Enabled (Default) / Disabled

EHCI HC (Bus 0 Dev 18/19 Fn 2)

This item allows you to control EHCI host controller. (USB 2.0 Device)

Options: Enabled (Default) / Disabled

USB PORT 0 ~ 5

Options: Enabled (Default) / Disabled

XHCI0 PORT 0/1

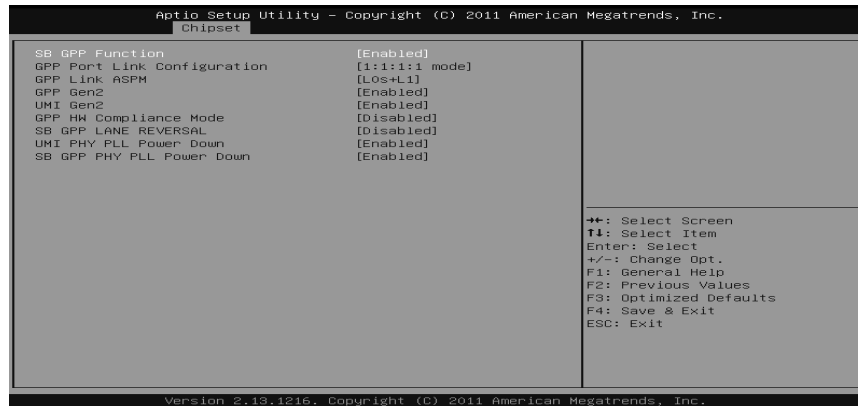
Options: Enabled (Default) / Disabled

XHCI1 PORT 0/1

Options: Enabled (Default) / Disabled

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SB GPP Port Configuration



SB GPP Function

Options: Enabled (Default) / Disabled

GPP Port Link Configuration

Options: 1:1:1:1 mode (Default) / x4 mode / 2:2 mode / 2:1:1 mode

GPP Link ASPM

Options: Disabled (Default) / L0s / L1 / L0s+L1

GPP Gen2

Options: Enabled (Default) / Disabled

UMI Gen2

Options: Enabled (Default) / Disabled

GPP HW Compliance Mode

Options: Disabled (Default) / Port A / Port B / Port C / Port D

SB GPP LANE REVERSAL

Options: Disabled (Default) / Enabled

UMI PHY PLL Power Down

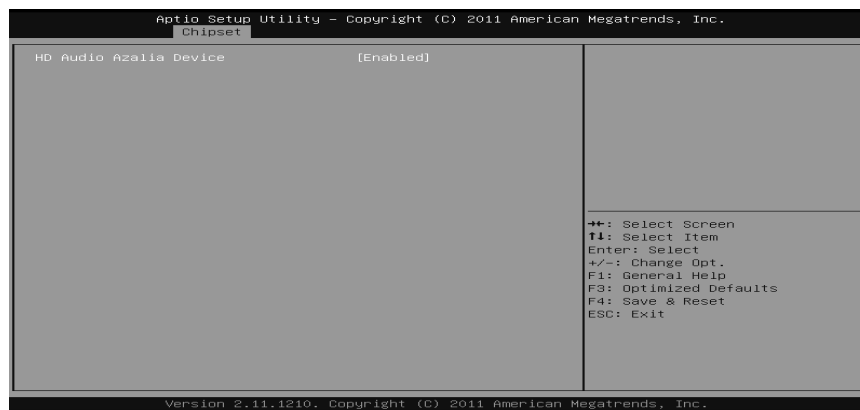
Options: Enabled (Default) / Disabled

SB GPP PHY PLL Power Down

Options: Enabled (Default) / Disabled

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SB Azalia Audio Configuration



HD Audio Azalia Device

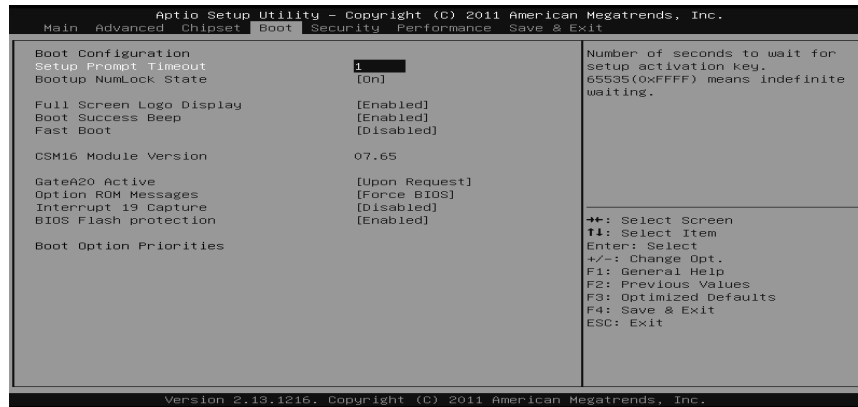
This item allows you to control the HD audio device.

Options: Enabled (Default) / Auto / Disabled

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4 Boot Menu

This menu allows you to setup the system boot options.



Setup Prompt Timeout

This item sets number of seconds to wait for setup activation key.

Options: 2 (Default)

Bootup NumLock State

This item selects the keyboard NumLock state.

Options: On (Default) / Off

Full Screen LOGO Display

This item allows you to enable/disable Full Screen LOGO Show function.

Options: Enabled (Default) / Disabled

BOOT Success Beep

When this item is set to Enabled, BIOS will let user know boot success with beep.

Options: Enabled (Default) / Disabled

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Fast Boot

This item enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

Options: Disabled (Default) / Enabled

GateA20 Active

Upon Request – FA20 can be disabled using BIOS services. Always – do not allow disabling GA20; this option is useful when any RT code is executed above 1MB

Options: Upon Request (Default) / Always

Option ROM Messages

This item sets the display mode for option ROM.

Options: Force BIOS (Default) / Keep Current

Interrupt 19 Capture

Interrupt 19 is the software interrupt that handles the boot disk function. When set to Enabled, this item allows the option ROMs to trap interrupt 19.

Options: Disabled (Default) / Enabled

BIOS Flash protection

While enabled, it can't flash write and flash erase by SMI.

Options: Enabled (Default) / Disabled

Boot Option #1/#2/#3

The items specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.

CD/DVD ROM Drive BBS Priorities

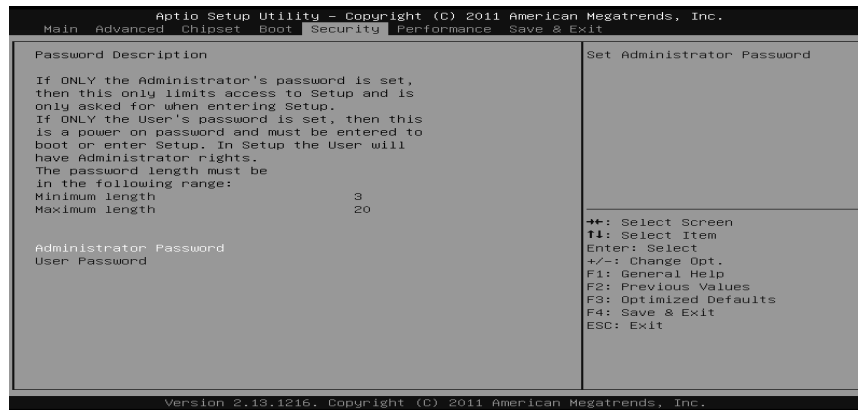
This item sets the order of the legacy devices in this group.

Hard Drive BBS Priorities

This item sets the order of the legacy devices in this group.

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5 Security Menu



Administrator Password

This item sets Administrator Password.

User Password

This item sets User Password.

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6 Performance Menu

This submenu allows you to change voltage and clock of various devices.
(However, we suggest you use the default setting. Changing the voltage and clock improperly may damage the device.)

Notice

Beware of that setting inappropriate values in items of this menu may cause system to malfunction.



IGD Clock Control

This item allows user to adjust IGD clock.

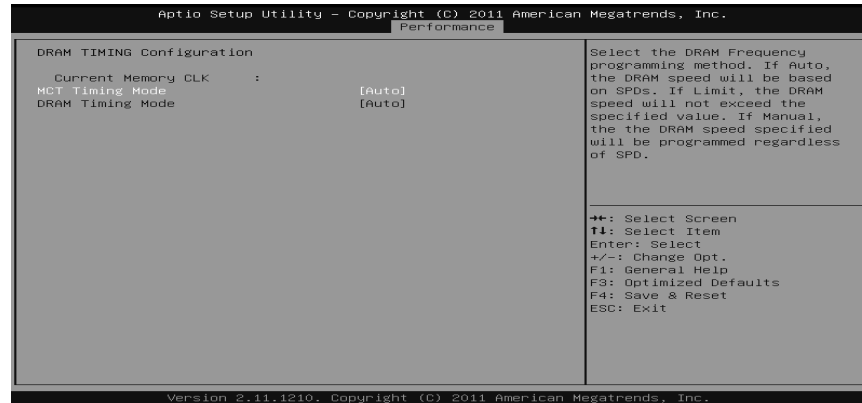
Options: Auto (Default) / Enabled

IGD Clock

This item allows BIOS to select IGD clock. Range: 300MHz-1200MHz

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DRAM Timing Configuration



MCT Timing Mode

This item allows you to select the DRAM Frequency programming method. If Auto, the DRAM speed will be based on SPDs. If Limit, the DRAM speed will not exceed the specified value. If Manual, the DRAM speed specified will be programmed regardless of SPD.

Options: Auto (Default) / Limit / Manual

*Note: The following items appear only when you set the **MCT Timing Mode** item to [Limit] or [Manual]*

Memclock Value

This item allows you to set the Memory Clock.

Options: DDR-800 / DDR-1066 / DDR-1333 / DDR-1600 / DDR-1866

DRAM Timing Mode

This item allows you to choose to manually or automatically regulate the DRAM Timing.

Options: Auto (Default) / Manual

*Note: The following items appear only when you set the **DRAM Timing Mode** item to [Manual]*

CL

Options: Auto (Default) / 5~14 CLK

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2TCMD

Options: 1T (Default) / 2T

TRCD

Options: Auto (Default) / 5~14 CLK

TRP

Options: Auto (Default) / 5~14 CLK

TRTP

Options: Auto (Default) / 4~8 CLK

TRAS

Options: Auto (Default) / 15~36 CLK

TRC

Options: Auto (Default) / 20~49 CLK

TWR

Options: Auto (Default) / 5~8 / 10 / 12 / 14 / 16 CLK

TRRD

Options: Auto (Default) / 4~8 CLK

TRWTO

Options: Auto (Default) / 3~17 CLK

TWRRD

Options: Auto (Default) / 1~11CLK

TWTR

Options: Auto (Default) / 4~8 CLK

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TWRWR

Options: Auto (Default) / 1~10 CLK

TRDRD

Options: Auto (Default) / 2~10 CLK

TRFC0

Options: Auto (Default) / 90ns / 110ns / 160ns / 300ns / 350ns

TRFC1

Options: Auto (Default) / 90ns / 110ns / 160ns / 300ns / 350ns

MCT Configuration



Bank Interleaving

Bank Interleaving is an advanced chipset technique used to improve memory performance. Memory interleaving increases bandwidth by allowing simultaneous access to more than one piece of memory.

Options: Auto (Default) / Disabled

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Channel Interleaving

This item allows you to control the DDR2 dual-channel function.

Options: Auto (Default) / Disabled

Clock to All DIMMs

This item enables unused clocks to DIMMs even memory slots are not populated.

Options: Disable (Default) / Enabled

MemClk Tristate C3/ATLVID

This item enables or disables the MemClk Tristate function in C3 Mode.

Options: Disable (Default) / Enabled

Memory Hole Remapping

This item allows you to enable or disable the remapping of the overlapped PCI memory above the total physical memory. Only 64-bit OS supports this function.

Options: Enabled (Default) / Disable Link

Unganged Mode support

This item controls the DRAM controller ganged (128bit*1) / unganged (64bit*2) dual-channel operation mode. If two DRAM modules with different size are installed, using unganged mode can still make it run in dual-channel operation.

Options: Enabled (Default) / Disable Link

Power Down Enable

This item controls the DRAM power down function.

Options: Disable (Default) / Enabled

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P-States Configuration



Custom P-States

This item tells BIOS whether to use the setup option below this to configure the P-States, or whether to configure the P-States automatically.

Options: Disabled (Default) / Enabled

*Note: The following items appear only when you set the **Custom P-State** item to [Enabled]*

Core FID

This item sets the frequency to use for Core P-State selected. Value is saved in the _PSS object.

Options: x16 1600MHz ~ x63 6300MHz

Core VID

This function allows you to adjust the voltage of Core.

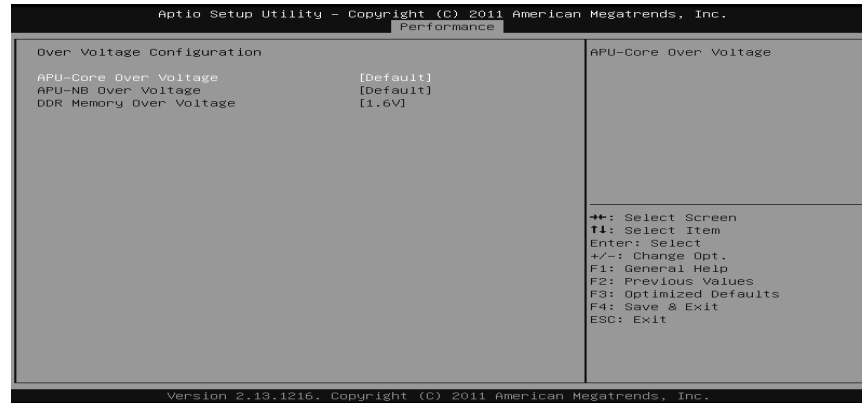
Core DID

This is the Core Divider.

Options: Divided by 1 (Default) / Divided by 1.5 / Divided by 2 / Divided by 3 / Divided by 4 / Divided 6 / Divided by 8 / Divided 12 / Divided by 16

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Over Voltage Configuration



APU-Core Over Voltage

This item allows you to select APU-Core Voltage Control.

Options: Default / +0.05V / +0.10V / +0.15V

APU-NB Over Voltage

This item allows you to select APU-NB Voltage Control.

Options: Default / +0.05V / +0.10V / +0.15V

DDR Memory Over Voltage

This item allows you to select DDR Memory Voltage Control.

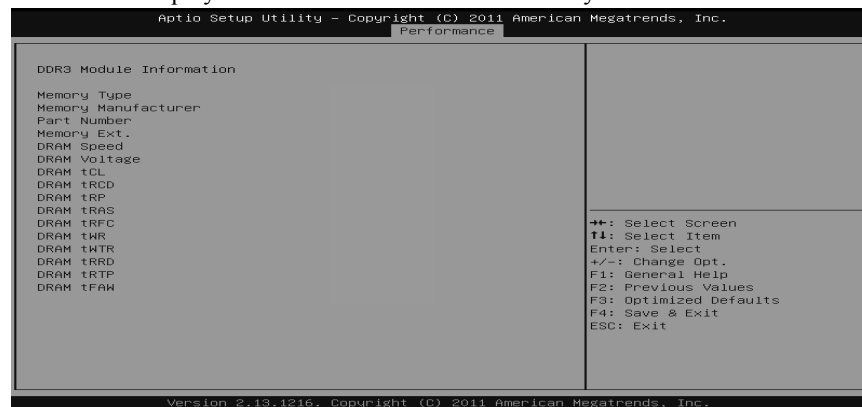
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DDR3 Memory Insight



DDR3_A1/B1

These items display SPD information of DDR3 memory.



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7 Exit Menu

This menu allows you to load the optimal default settings, and save or discard the changes to the BIOS items.



Save Changes and Reset

Reset the system after saving the changes.

Discard Changes and Exit

Abandon all changes made during the current session and exit setup.

Restore Defaults

This selection allows you to reload the BIOS when problem occurs during system booting sequence. These configurations are factory settings optimized for this system.

Launch Shell from device

This item attempts to EFI Shell application (Shellx64.efi) from one of the available devices.