WTP-8866-15/19DPLUS

User's Manual

PN: 205G00WTP88661 *V1.0*

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Greeting & Setup

Thank you for purchasing the WTP-8866-15/19DPLUS Panel PC. We wish that this unit will be durable and reliable in providing your needs. Please follow the instructions below to ensure the unit continues to have high performance

Unpacking

After opening the carton, there will be a unit with an accessory box. Examine the contents to see if there are damages to the unit and if all accessories are present.

Setting up

Please read this manual carefully and remember to keep this manual for future reference.

Safety Instructions & Cleaning

The unit has undergone various tests in order to comply with safety standards. Inappropriate use may be dangerous. Please remember to follow the instructions below to insure your safety during the installation and operating process.

Transporting & Placement of unit

1. *When moving the unit on a cart; be very cautious. Quick stops, excessive forces and uneven surfaces may cause the cart to overturn thus risking the unit to fall to the ground.*
2. *If the Monitor display unit does fall to the ground, immediately turn the power off and disconnect cords. Then contact a service technician for repairs. Continual use of the unit may result*

cause a fire or electric shock. Also, do not repair the unit on your own.

3. *Before suspending the unit, make sure the material used for suspension is sturdy and stable. If not properly suspended, the display unit may fall and cause serious injury to people standing nearby as well as to the unit itself.*
4. *If you wish to mount the display unit, remember to use only the mounting hardware recommended by the manufacturer.*

Electrical and Power Source Related

1. *This Monitor display unit must operate on a power source as shown on the specification label. If you are not sure what type of power supply used in the area, consult your dealer or local power supplier.*
2. *The power cords must not be damaged. Applied pressure, added heat, and tugging may damage the power cord.*
3. *The power cord must be routed properly when setup takes place. We advise that this aspect measure is to prevent people from stepping on the cords or while the unit is suspended to prevent flying objects from getting tangled with the unit.*
4. *Do not overload the AC outlets or extension cords. Electrical shocks or fires may occur from overloading.*
5. *Do not touch the power source during a thunderstorm.*
6. *If your hands are wet, do not touch the plug.*
7. *Use your thumb and index finger, grip firmly on the power cord to disconnect from the electrical socket. By pulling the power cord, may result in damaging it.*
8. *If the unit is not going to be in use for an extended period of*

time, remember to disconnect the unit.

9. *Connect the unit to a power source with the same numerical value as spec. label shown. Please use only the power cord provided by the dealer to ensure safety and EMC compliance.*

Various Factors of Environment

1. *Having liquids seep in or inserting objects into the unit may result in electric shocks from taking and/or short circuiting the internal parts.*
2. *Do not place unit near heat generating sources.*
3. *Do not place the unit in a location where it will come in contact with fumes or steam.*
4. *If water has flow in or seep in, immediately disconnect power. Then contact a service technician for repairs.*

Servicing, Repairing, Maintenance & Safety Checks

1. *If the unit is not functioning properly, observe the performance level of the display closely to determine what type of servicing is needed.*
2. *Do not attempt to repair the unit on your own. Disassembling the cover exposes users' to high voltages and other dangerous conditions. Notify and request a qualified service technician for servicing the unit.*
3. *If any of the following situations occur turn the power source off and unplug the unit. Then contact a qualified service technician*

(a) The unit is soaked with liquids.

(b) The unit is dropped or damaged.

(c) If smoke or strange odor is flowing out of the unit.

(d) If the power cord or plug is damaged.

(e) When the functions of the unit are dysfunctional.

4. When part replacement is needed. Make sure service technician uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. If unauthorized parts are used it may result in starting a fire, electrical shock and/or other dangers.

Battery Installation

Follow below instructions and notice the caution for replacing and disposing of the RTC Lithium battery CR2032 for safety consideration.

CAUTION:

There is danger of explosion, if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction.

The specification is subject to change without notice.

Version Change History

Date	***Version***	***Description***	***Remark***
2013/10/21	*V1.0*	*First release*	

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System Overview(WTP-8866-15D PLUS)

System

CPU	*AMD Fusion processor T40N*
Chipset	*AMD A55E*
Graphic	*AMD Radeon HD6320*
Audio	*Realtek ALC662, HD CODEC*
LAN	*Realtek 8111E x 2*
Memory	*DDR3 1066 MHz (max 4G)*
SATA	*1 x SATA II (Max. Data Transfer Rate 300 MB/s)*

BIOS

Brand: AMI

Flash ROM size: 16M

Display

Brand	***Tianma***
Model	*TM150TDS50*
Resolution (pixel)	*1024x768 XGA*
Active Area (mm)	*304.128 (W) x 228.096 (V)*
Outline Dimensions (mm)	*326.5 (H) ×253.5 (V) ×11.8*
Pixel Pitch (mm)	*0.297*
Mode	*TN*
Number of Colors	*16.7M*
View Angle (H/V)	*160/160*
Brightness (cd/m2)	*400*
Contrast Ratio	*600:1*
Response Time (ms) (at 25°C)	*8*
Backlight	*LED*
Weight (g)	*1000*
life time<Hrs>	*50000*

Touch Screen

AMT 28115 resistive touch screen

Characteristics	*Resistive (5 wire)*
Model name	*AMT 28115*
Touch Resolution	*4096x4096*
Stylus use possible beyond finger	*No Limitation, can use any stylus*
Glove use possible	*Any type glove*
Light transmittance	*80+-3%*
Hardness	*3H*
Response time	*20 ms*
Front Panel Protection –IP65	*V*
Touch screen Life	*36 million activations*
Warranty	*5 wire: 3 years*
Characteristics	*Resistive (5 wire)*
Characteristics	*Resistive (5 wire)*

Touch Controller

RES PENMOUNT 6300, USB TOUCH

Storage

HDD 2.5" SATA HDD drive bay x 1

CF 1 x bootable Compact Flash slot for CF type I/II storages

Expansion slots

Mini-PCIe 52 pin card-edge type x 1 support half/full size (for WLAN module)

External water/dust resistant I/O (rear side)

USB	*USB 2.0 x 3 (one is accessible behind front bezel, 2 at rear sides)*
LAN	*RJ-45 x 1 (Gigabit Ethernet) and PoE power input*
Audio	*Line-out x 1, with 3.5mm phone jack connector*

Power

Power *DC-In connector x 1*

Power Input *DC12V~28V*

Power Adapter *AC 90 ~ 264V / 47 ~ 63 Hz / DC output 12V,*

Power ON/Off and reset buttons at rear side

Mechanical & Environmental

Material construction *SUS304 stainless steel enclosure*

CPU cooling by Heat sink cooling

Gasket between enclosure and touch screen to minimize residual material

Water and dust protection *IP66 / NEMA4X*

Operation Temperature *0~40℃ (IEC60068-2-2, no air flow condition, fanless cooling)*

Storage Temperature *-20~60℃*

Operation Relative Humidity *10%~90%, non-condensing*

Storage Relative Humidity *10%~90%, non-condensing*

Dimensions *395 x 345 x 65 (width, height, thickness)*

Mounting *VESA (100x100 mmxmm)*

WTP-8866-15D PLUS Net weight *8.8 KG*

WTP-8866-15D PLUS +Wall Mount net weight: 12 KG

WTP-8866-15D PLUS +Wall Mount gross weight: 13.5 KG

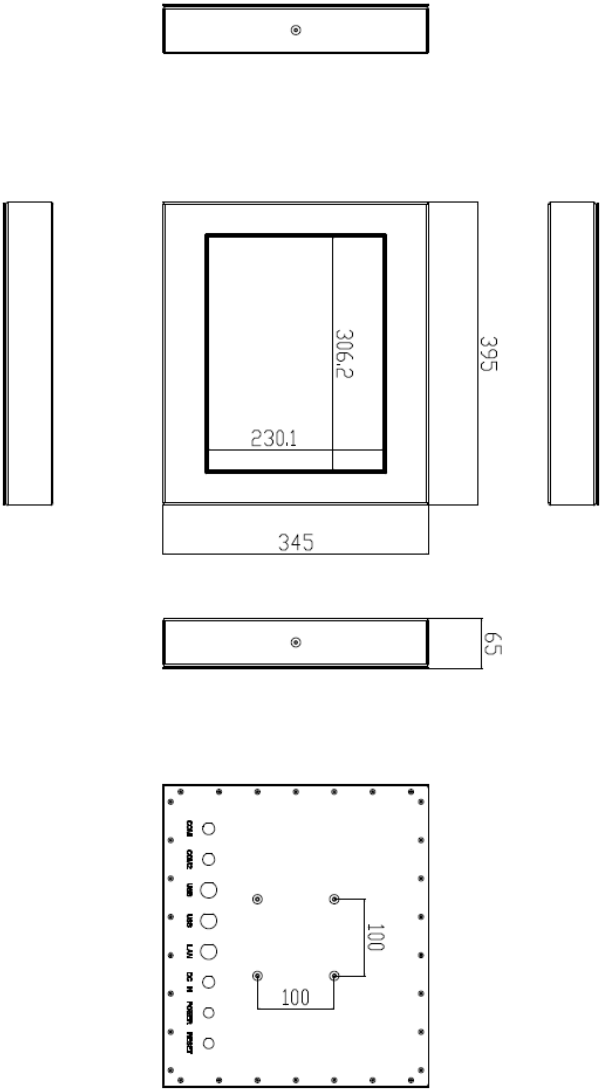
Packing list

1. *WTP-8866-15D PLUS*
2. *CD-Title for driver and manual*
3. *Power adapter*
4. *Power cord*
5. *Options*

Regulatory

FCC-A, CE (EMC)

System View


395
306.2
230.1
345
65
100
100
COM
COM2
USB
USB
LAN
DC IN
POWER
RESET

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SATA	*1 x SATA II (Max. Data Transfer Rate 300 MB/s)*

BIOS

Brand: AMI

Flash ROM size: 16M

Display

Panel AUO G190EG01 V0

Size	*19"*
Model	*G190EG01 V0*
Resolution (pixel)	*SXGA (1280 x 1024)*
Aspect Ratio	*5:4*
Active Area (mm)	*376.32 (H) x 301.06(V)*
Pixel Pitch (mm)	*0.294*
Mode	*Normally White*
Number of Colors	*16.7M*
Color Saturation (NTSC %)	*72*
View Angle (H/V)	*170 / 160*
Brightness (cd/m²)	*450 (Typ. Center point)*
Contrast Ratio	*1000 : 1 (Typ)*
Response Time (ms) (at 25°C)	*5 (Typ)*

Power Consumption (W)(typ)	*26.71 W*
Interface	*2ch LVDS*
Supply Voltage (V)	*5*
Backlight	*CCFL*
Outline Dimensions (mm)	*396.0 x 324.0 x 18.5*
Weight (g)	*2400 (Typ)*

Touch Screen

	AMT
Model name	*AD-2511*
Type	*5 wire RES*
Glove	*Any type glove*
Stylus	*No Limitation, can use any stylus*
Interface	*USB*
Light Transmission	*80±3%*
Hardness	*3H*
Glass thickness	*1.8mm*
Linearity	*X≦1.5%, Y≦1.5%*
Active area	*212x159.20*
Resolution	*4096x4096*
Lifetime	*36 million activations*

Touch Controller

RES PENMOUNT 6300, USB TOUCH

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HDD 2.5" SATA HDD drive bay x 1

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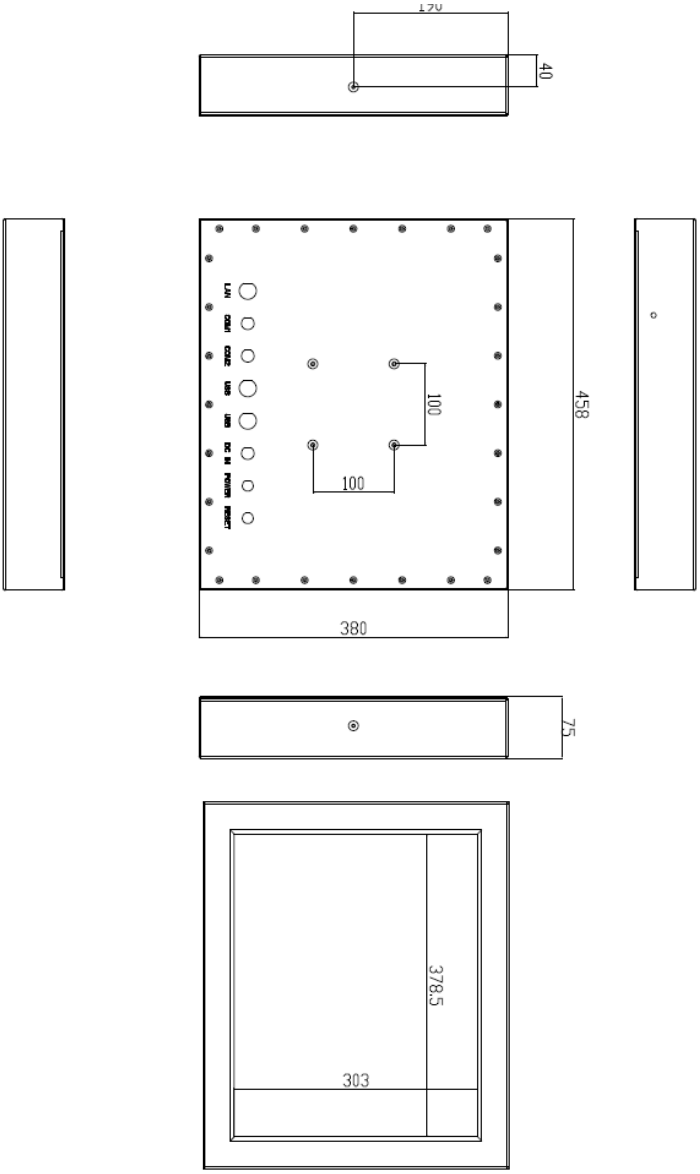
10. *Options*

Regulatory

FCC-A, CE (EMC)

System View


40
LAN
COM1
COM2
USB
USB
DC IN
POWER
RESET
100
100
458
380
75
378.5
303

Setting up the System

The following is a summary of the steps in setting up the system for use.

CAUTION: Make sure that power to the system and each of the devices to be connected is switched OFF before plugging in the connectors.

1. *Make any required external connections such as the keyboard, and mouse.*
2. *Plug the appropriate end of the power cord into the power connector of the system. Then plug the other end of the power cord to an electrical outlet.*
3. *Press the power switch of the system to turn on the system's power.*
4. *If necessary, run the BIOS SETUP program to configure the system (see Chapter 3).*
5. *Install the software drivers if necessary.*

Installing System Software

Recent releases of operating systems from major vendors include setup programs, which load automatically and guide you through hard disk preparation and operating system installation. The guidelines below will help you determine the steps necessary to install your operating system on the Panel PC hard drive.

NOTE: Some distributors and system integrators may have already pre-installed system software prior to shipment of your Panel PC.

Installing software requires an installed HDD. Software can be loaded in the WTP-8866-15/19DPLUS Panel PC using any of below methods:

Method 1: Use the Ethernet

You can use the Ethernet port to download software from the net to the HDD that has been pre-installed in WTP-8866-15/19DPLUS Panel PC

Method 2: Use the COM Port

By connecting another PC to the WTP-8866-15/19DPLUS Panel PC with an appropriate cable, you can use transmission software to transmit Operation System Software to the HDD that has been pre-installed in the WTP-8866-15/19DPLUS Panel PC.

Method 3: Use a External CD-ROM

In order to boot up system from USB-CD/DVD drive, please connect USB-CD/DVD drive, turn on computer power, keep on pressing "F11" key, go into BIOS quick boot menu, select "USB-CD ROM", WAIT FOR 20 SECONDS, then press enter, system OS will boot up from USB-CD/DVD drive directly

Then you can use the external CD-ROM to transmit the software to the HDD that has been pre-installed in the WTP-8866-15/19DPLUS Panel PC

Installing the Drivers

After installing your system software, you will be able to set up the LAN, VGA, Audio and USB functions. All drivers are stored in a CD disc, which can be found in your accessory pack.

The various drivers and utilities in the disc have their own text files that help users install the drivers and understand their functions.

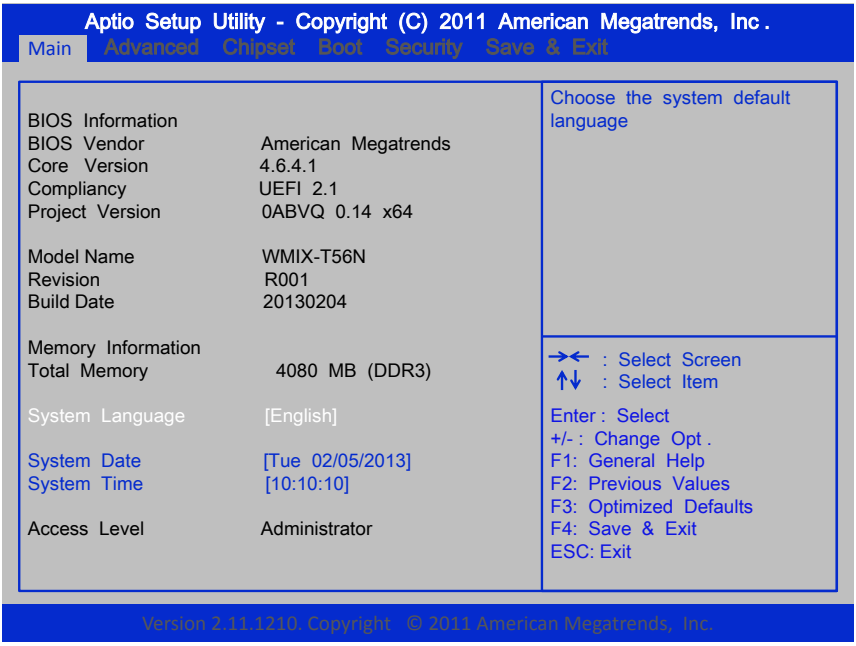
BIOS Setup Information

This chapter introduces BIOS setup information.

Power on or reboot the system board, when screen appears message as “Press DEL to enter SETUP.” Press <DEL> to run BIOS SETUP Utility.

Note: The BIOS configuration for reference only, it may subject to change without prior notice.

2.1 Main Menu



☐ Date

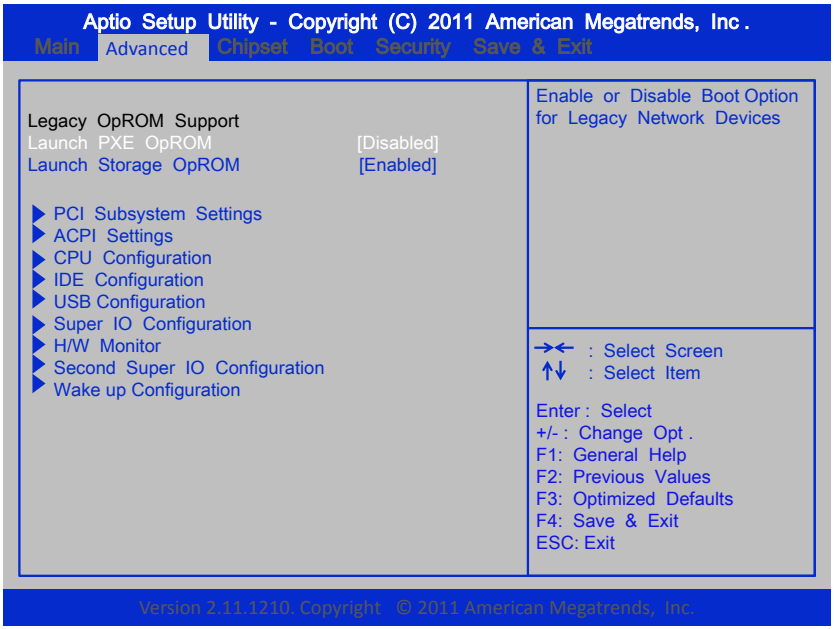
Set system date.

☐ Time

Set system time.

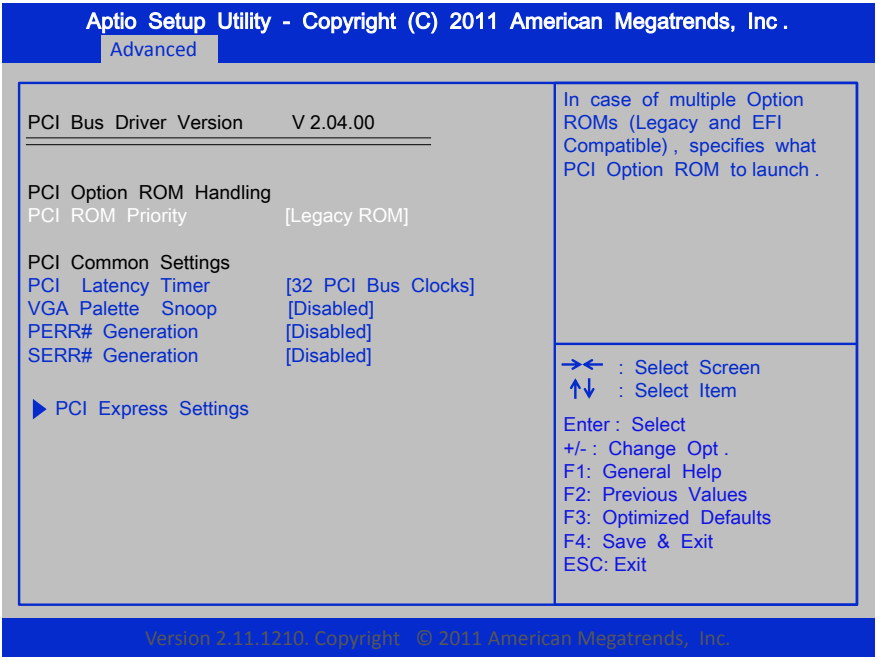
2.2 Advanced Menu

This section allows you to configure CPU and other system devices for basic operation through the following sub-menus.



- ☐ **PCI Subsyatem Settings**
- ☐ **ACPI Settings**
- ☐ **CPU Configuration**
- ☐ **IDE Configuration**
- ☐ **USB Configuration**
- ☐ **Super IO Configuration**
- ☐ **H/W Monitor**
- ☐ **Second Super IO Configuration**
- ☐ **Wake up Configuration**

2.3 PCI Subsystem Setting



☐ PCI ROM Priority

In case of multiple optional ROMs (Legacy and EFI Compatible), specifies what PCI option ROM to launch.

☐ PCI Latency Timer

Choices: 32 PCI, 64 PCI, 96 PCI, 128 PCI, 160 PCI, 192 PCI, 224 PCI, 24 8 PCI Bus Clocks.

☐ VGA Palette Snoop

Enable or Disable VGA palette registers snooping.

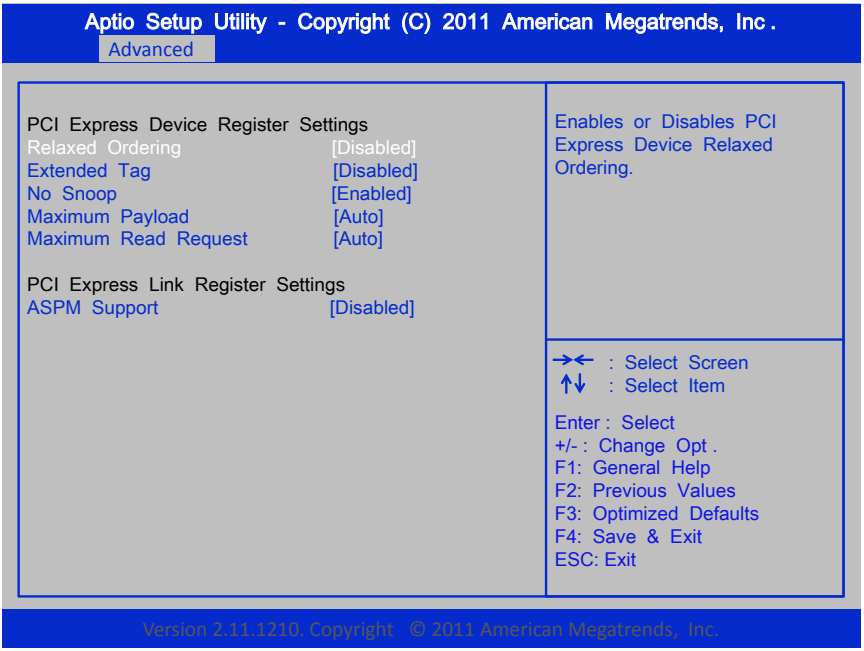
☐ PERR# Generation

Choices: Disabled, Enabled.

☐ SERR# Generation

Choices: Disabled, Enabled.

2.4 Advanced BIOS Feature Setup



☐ **Relaxed Ordering**

Choices: Disabled, Enabled.

☐ **Extended Tag**

Choices: Disabled, Enabled.

☐ **No Snoop**

Choices: Disabled, Enabled.

☐ **Maximum Payload**

This item can be supported by the motherboard chipset PCI express controller.

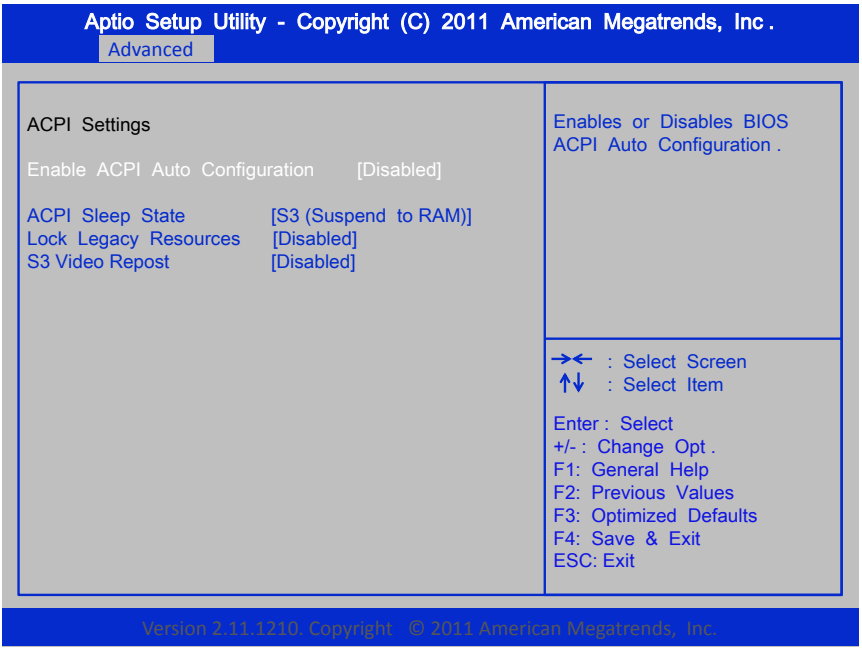
☐ **Maximum Read Request**

It is size for the device as a requester.

☐ **ASPM Support**

Choices: Disabled, Enabled.

2.5 ACPI Settings



☐ **ACPI Sleep Auto Configuration**

Choices: Disabled, Enabled.

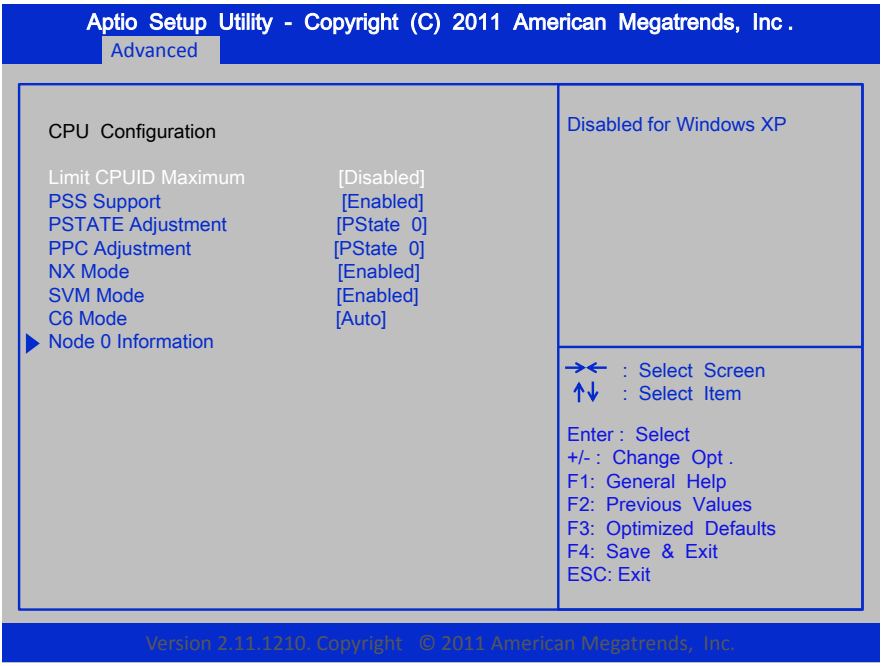
☐ **Lock Legacy Resources**

Choices: Disabled, Enabled.

☐ **S3 Video Repost**

Choices: Disabled, Enabled.

2.6 CPU Configuration



☐ Limit CPUID Maximum

Choices: Disabled, Enabled.

☐ PSS Support

Choices: Disabled, Enabled.

☐ PSTATE Adjustment

This item is used to adjust startup P-state level, the choice is PState 0-7.

☐ PPC Adjustment

This item is provided to adjust startup P-state level.

☐ NX Mode

Choices: Disabled, Enabled.

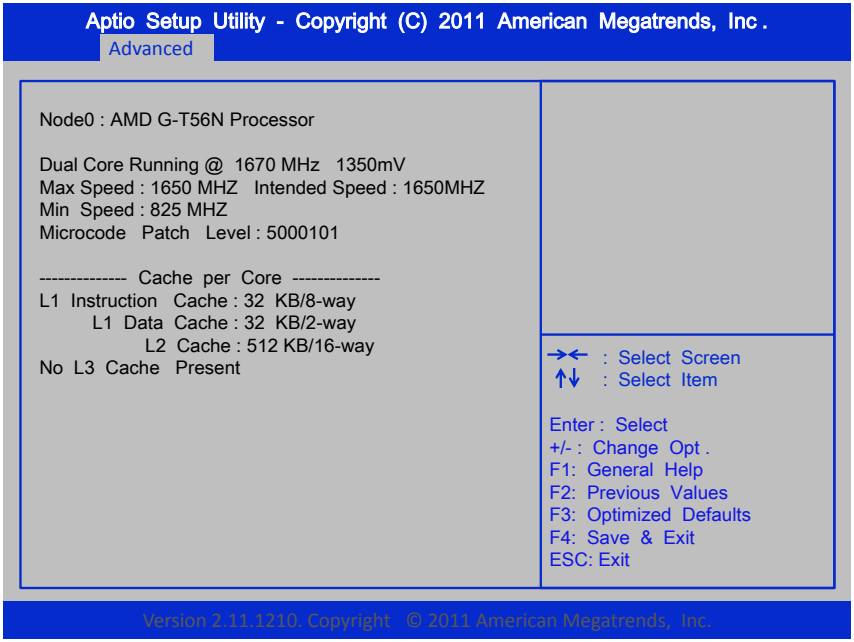
☐ SVM Mode

Choices: Disabled, Enabled.

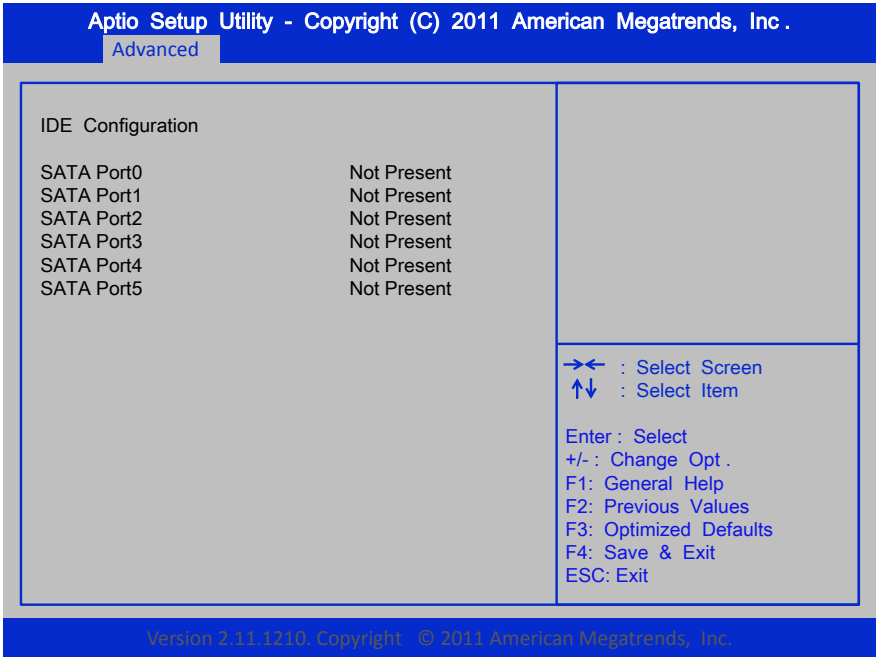
☐ C6 Mode

It is the option to enable “C6 mode” is added to the BIOS setup.

2.7 AMD G-T56N Processor

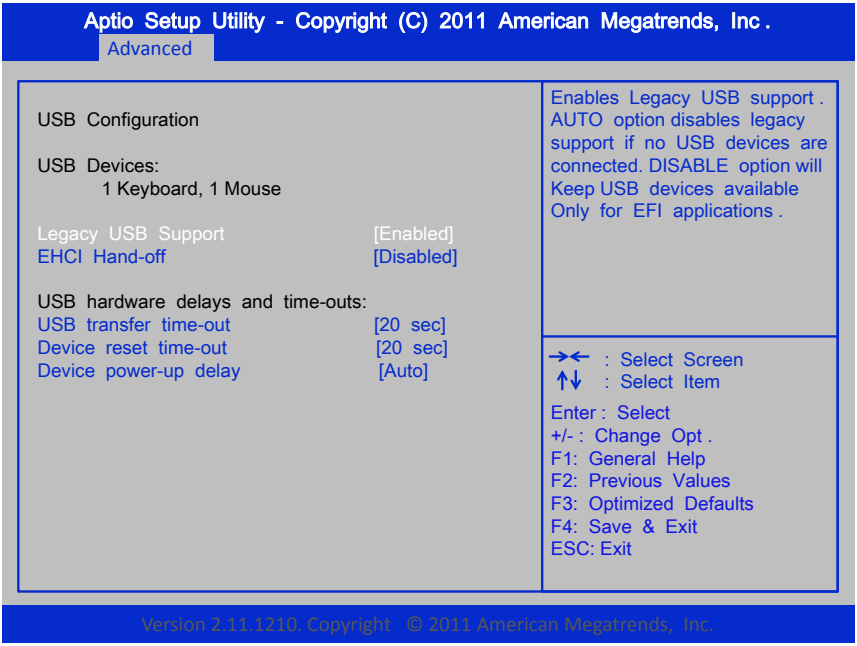


2.8 IDE Configuration



- ☐ **SATA Port0**
- ☐ **SATA Port1**
- ☐ **SATA Port2**
- ☐ **SATA Port3**
- ☐ **SATA Port4**
- ☐ **SATA Port5**

2.9 USB Configuration



☐ Legacy USB Support

Set [Enabled] if you need to use any USB 1.1/2.0 devices in the operating system that does not support or have any USB 1.1/2.0 drivers installed. Such as DOS and SCO Unix.

☐ EHCI Hand-off

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

☐ USB transfer time-out

Choices: 1, 5, 10, 20 sec.

☐ Device Reset time-out

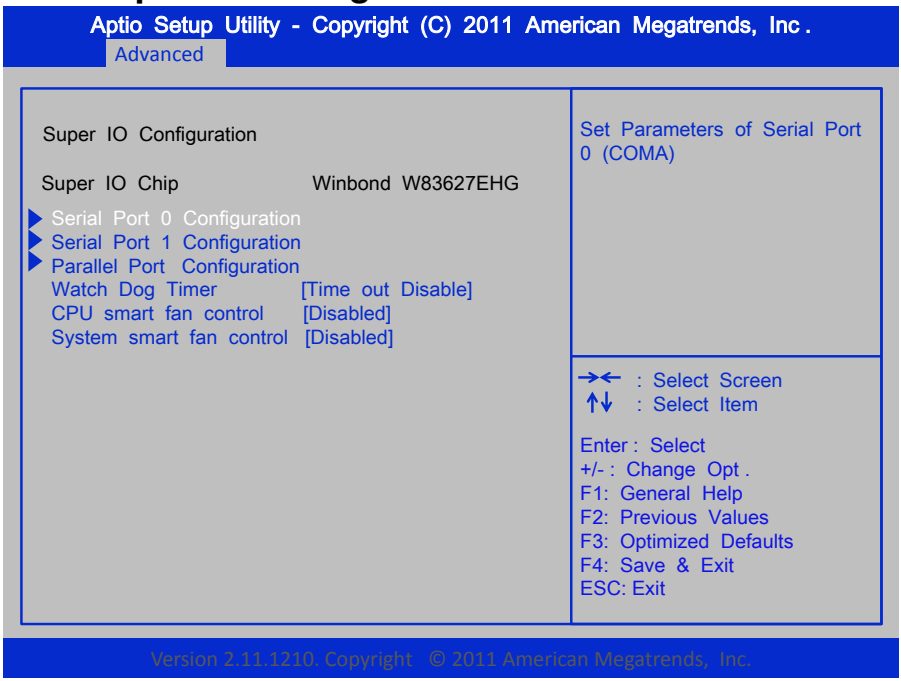
USB mass storage device starts unit command timeout.

Choices: 10, 20, 30, 40 sec.

☐ **Device power-up delay**

This setting determines the maximum time for USB device will take before reporting to the controller.

2.10 Super IO Configuration



☐ **Watch Dog Timer**

This option will determine watch dog timer.

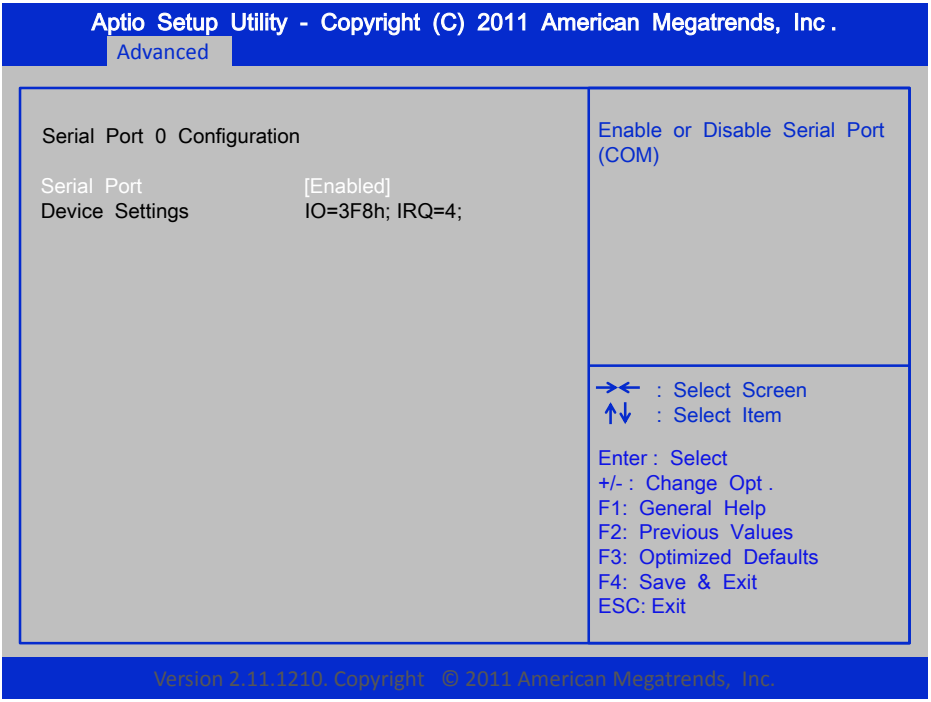
☐ **CPU smart fan control**

This option allows user to enable/disable the control of CPU fan speed by changing the fan voltage.

☐ **System smart fan control**

This option allows user to enable/disable the control of smart fan speed by changing the fan voltage.

2.11 Serial Port 0 Configuration



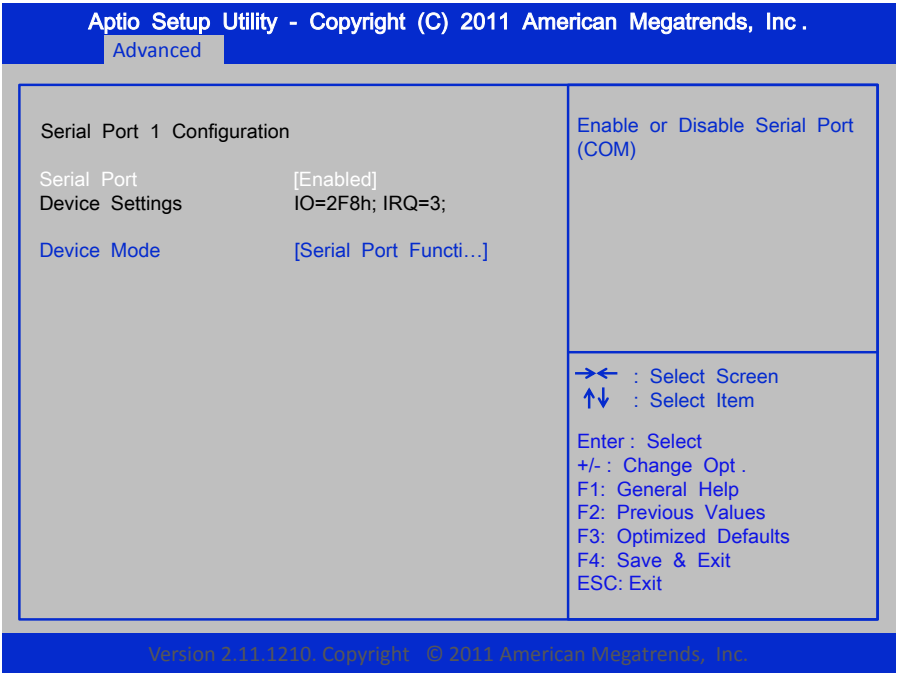
☐ Serial Port

Use this option to enable or disable the serial port.

☐ Device Settings

Use this option to show the serial port IO port address and interrupt address.

2.12 Serial Port1 Configuration



☐ Serial Port

Use this option to enable or disable the serial port.

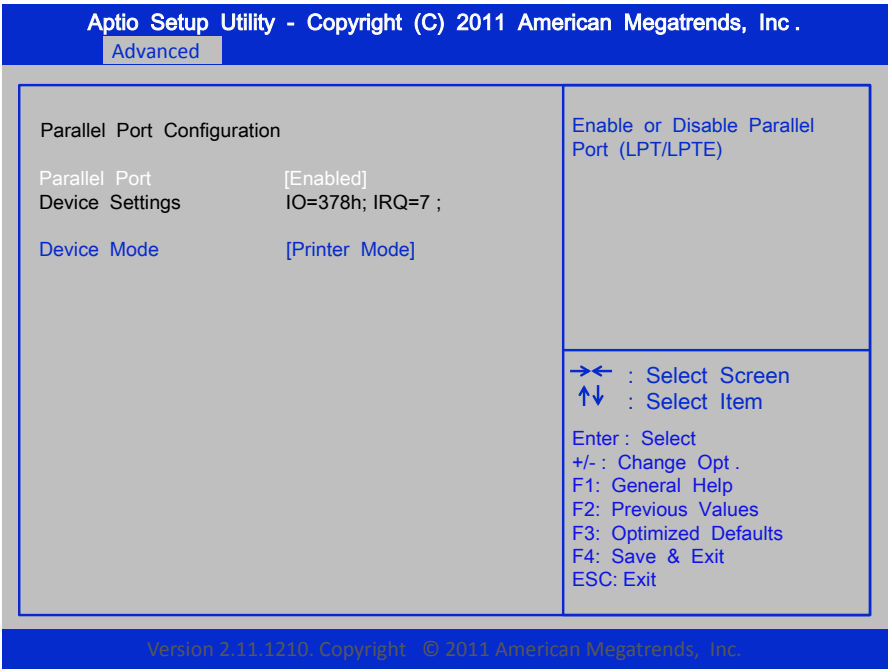
☐ Device Settings

Use this option to change the device address and interrupt address.

☐ Device Mode

Serial mode function.

2.13 Parallel Port Configuration



☐ Parallel Port

Use this option to enable or disable the parallel port.

☐ Device Settings

Use this option to change the device address and interrupt address.

☐ Device Mode

It is printer mode.

2.14 Pc Health Status

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc.

Advanced

Pc Health Status

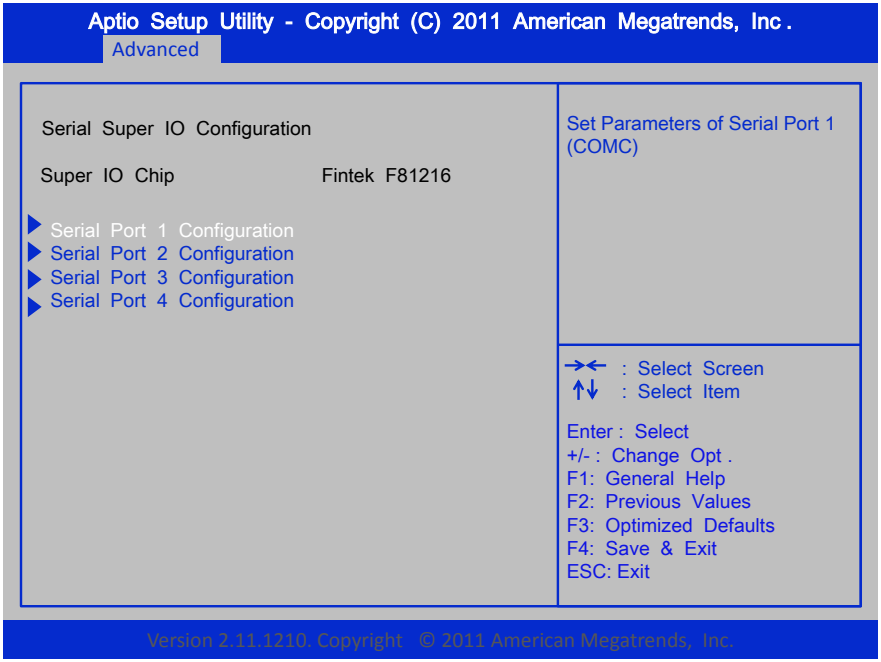
CPU Temperature	: +50 C
SYSTEM Temperature	: +39 C
CPU FAN Speed	: 8035 RPM
System FAN Speed	: N/A
VCORE	: +1.36 V
+12 V	: +11.51 V
+1.1 V	: +1.10 V
+1.5 V	: +1.52 V
+5 V	: +5.07 V
+3.3 V	: +3.32 V
VBAT (V)	: +3.02 V
3.3VSB (V)	: +3.32 V

→← : Select Screen
↑↓ : Select Item

Enter : Select
+/- : Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

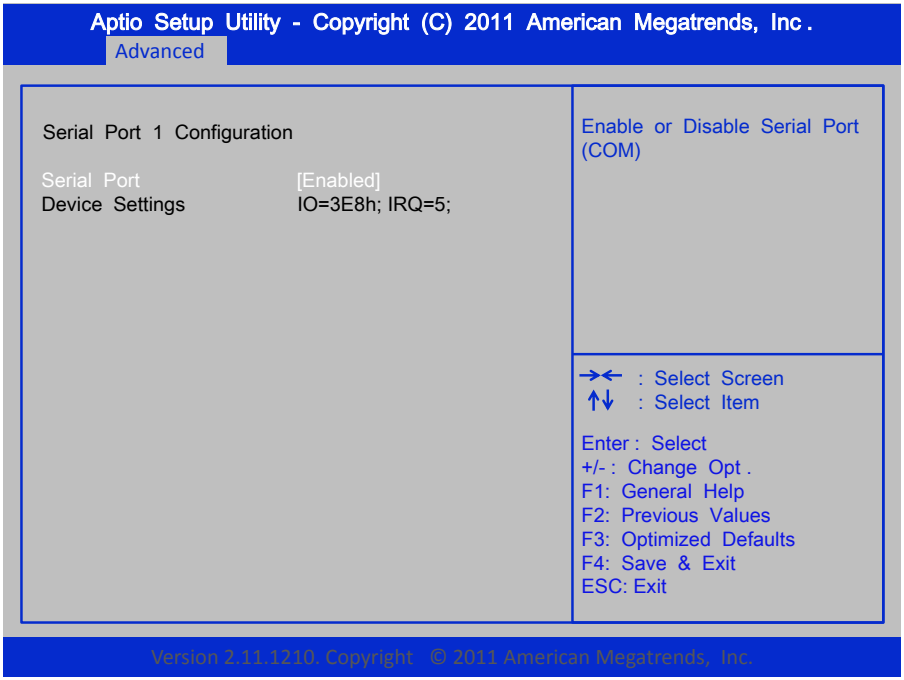
Version 2.11.1210. Copyright © 2011 American Megatrends, Inc.

2.15 Serial Super IO Configuration



- ☐ **Serial Port 1 Configuration**
- ☐ **Serial Port 2 Configuration**
- ☐ **Serial Port 3 Configuration**
- ☐ **Serial Port 4 Configuration**

☐ Serial Port1 Configuration



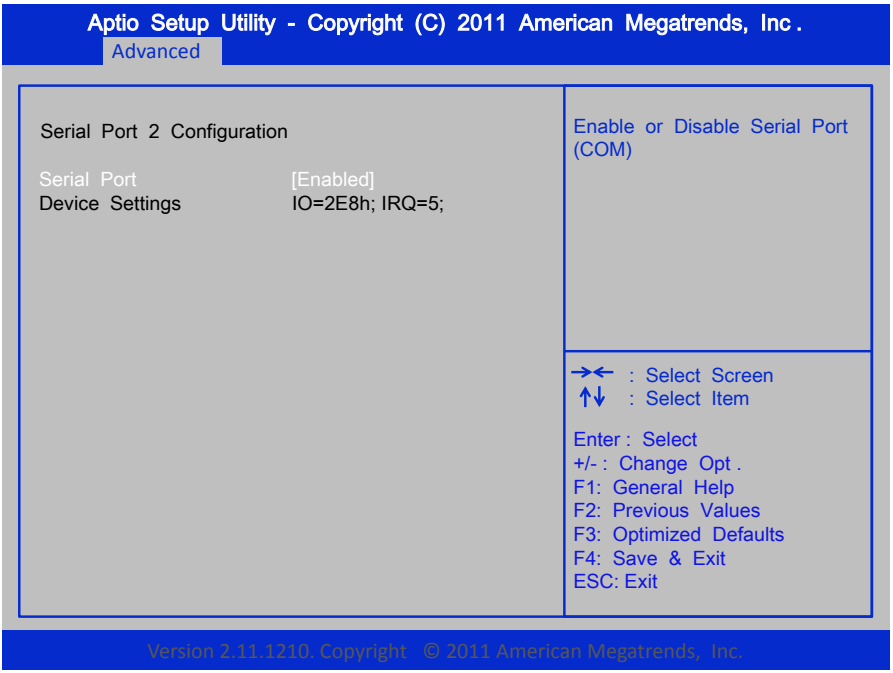
☐ Serial Port

Use this option to enable or disable the serial port.

☐ Device Settings

Use this option to change the serial port IO port address and interrupt address.

Serial Port2 Configuration



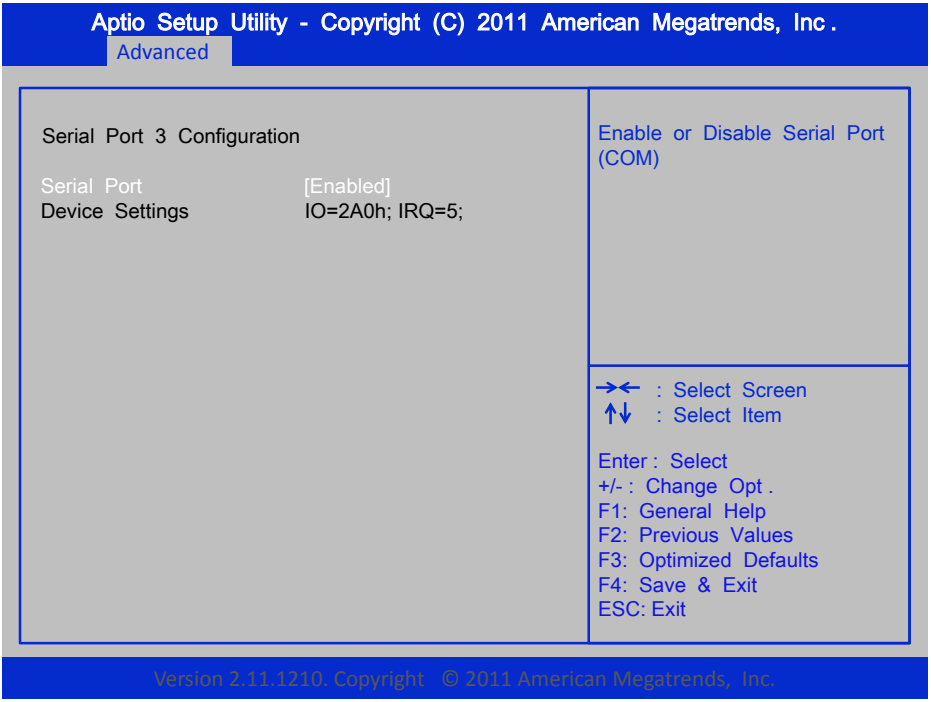
Serial Port

Use this option to enable or disable the serial port.

Device Settings

Use this option to change the serial port IO port address and interrupt address.

☐ Serial Port3 Configuration



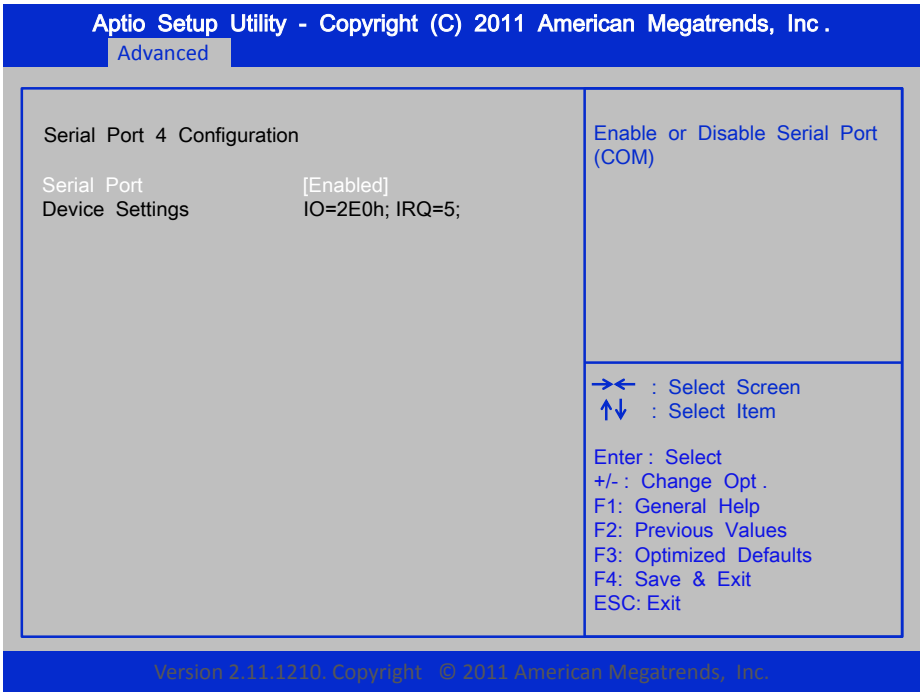
☐ Serial Port

Use this option to enable or disable the serial port.

☐ Device Settings

Use this option to change the serial port IO port address and interrupt address.

☐ Serial Port4 Configuration



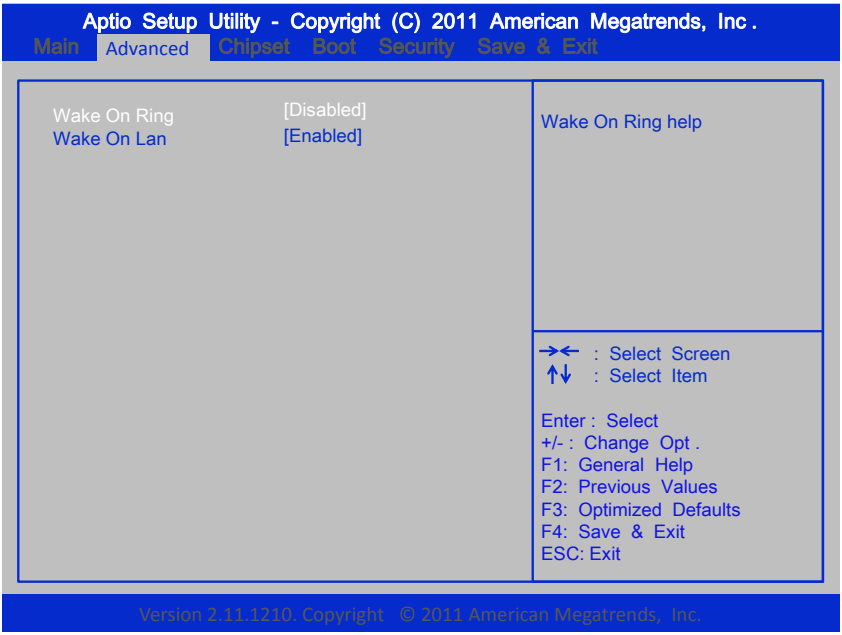
☐ Serial Port

Use this option to enable or disable the serial port.

☐ Device Settings

Use this option to change the serial port IO port address and interrupt address.

2.16 Chipset



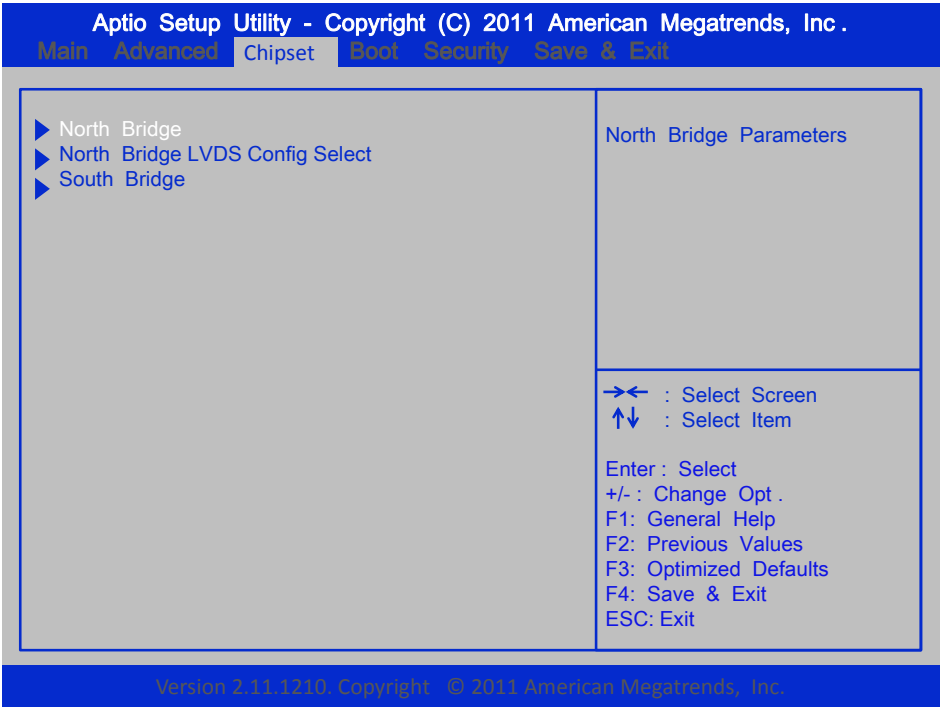
☐ **Wake On Ring**

Choices: Disabled, Enabled.

☐ **Wake On Lan**

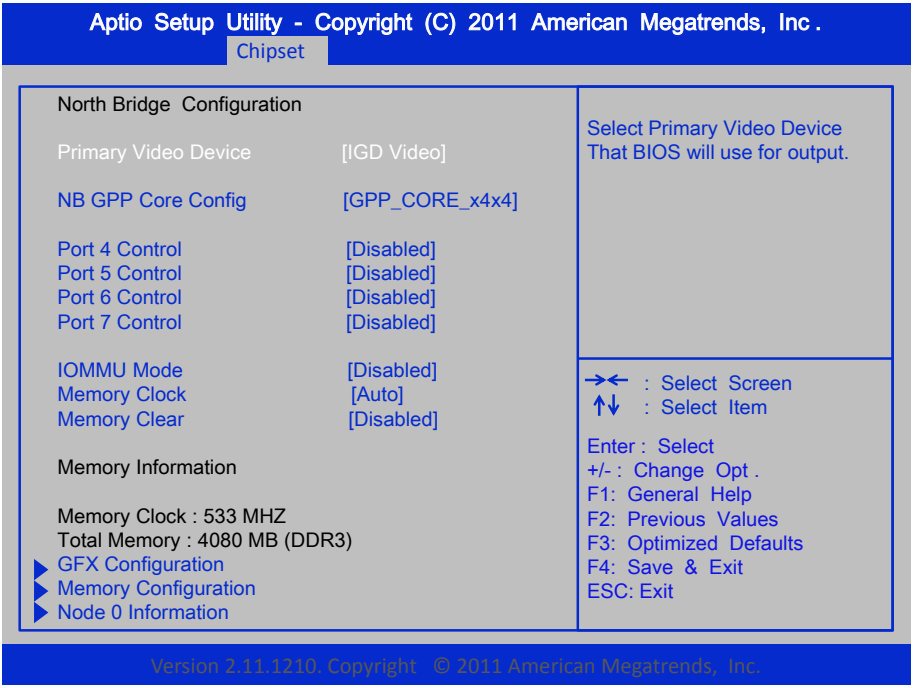
Choices: Disabled, Enabled.

2.17 North Bridge Configuration



- ☐ **North Bridge**
- ☐ **North Bridge LVDS Config Select**
- ☐ **South Bridge**

2.18 North Bridge Configuration



☐ **Primary Video Device**

The device is IGD video.

☐ **NB GPP Core Config**

The item is for NB GPP Core configuration.

☐ **Port4 Control**

Choices: Disabled, Enabled.

☐ **Port5 Control**

Choices: Disabled, Enabled.

☐ **Port6 Control**

Choices: Disabled, Enabled.

☐ **Port7 Control**

Choices: Disabled, Enabled.

☐ **IOMMU Mode**

Choices: Disabled, Enabled.

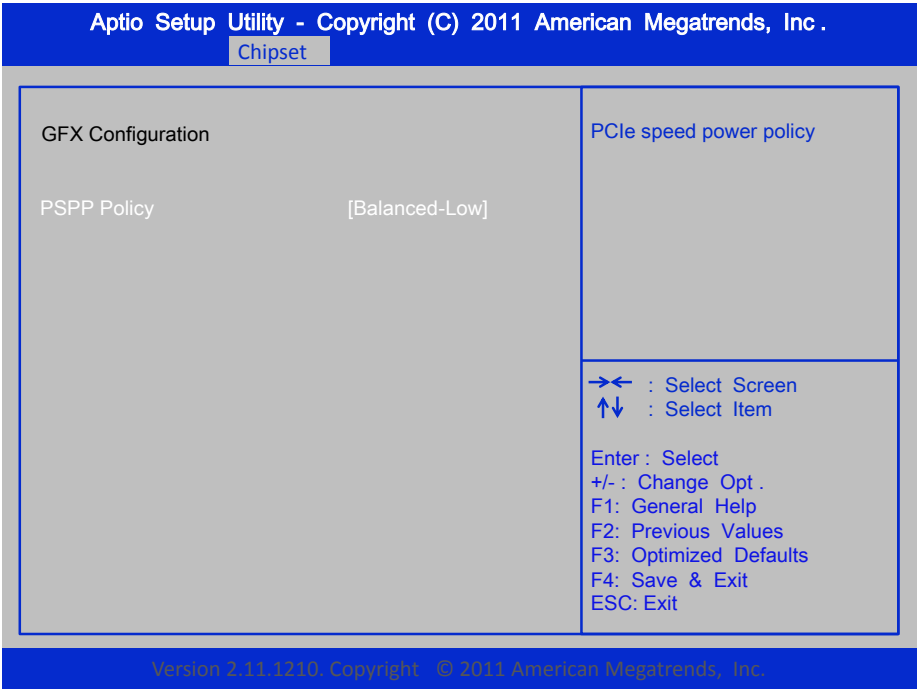
☐ **Memory Clock**

It shows how fast this information gets distributed to the GPU

☐ **Memory Clear**

Choices: Disabled, Enabled.

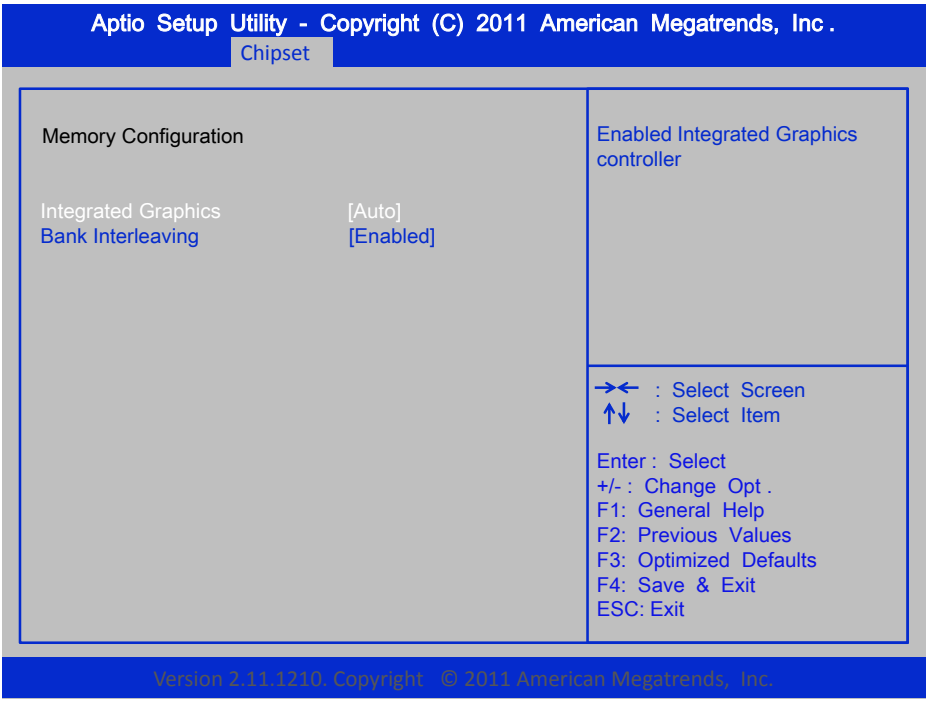
2.19 GFX Configuration



☐ **PSPP Policy**

It is set to performance mode instead of power saving mode.

2.20 Memory Configuration



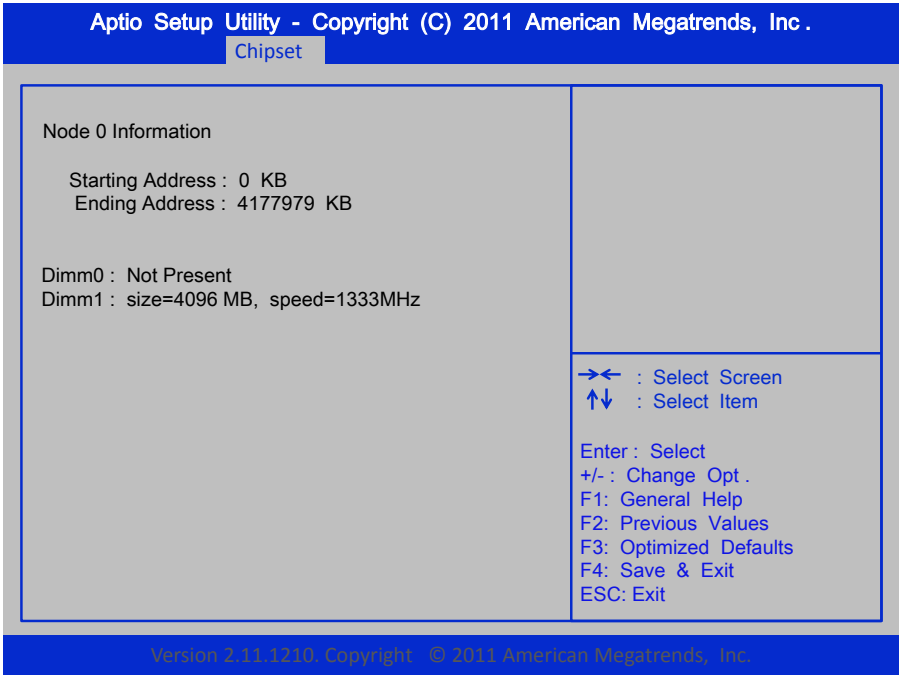
☐ Integrated Graphics

It shares memory with the CPU, and provides economical alternative to the stand-alone card.

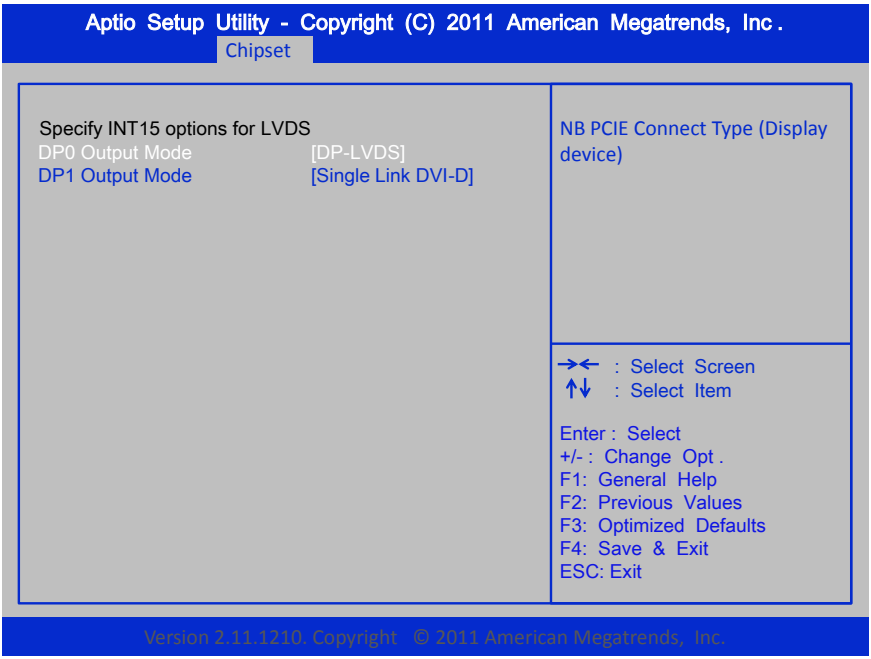
☐ Bank Interleaving

Choices: Disabled, Enabled.

2.21 Node 0 Information



2.22 SB Specify INT15 options for LVDS



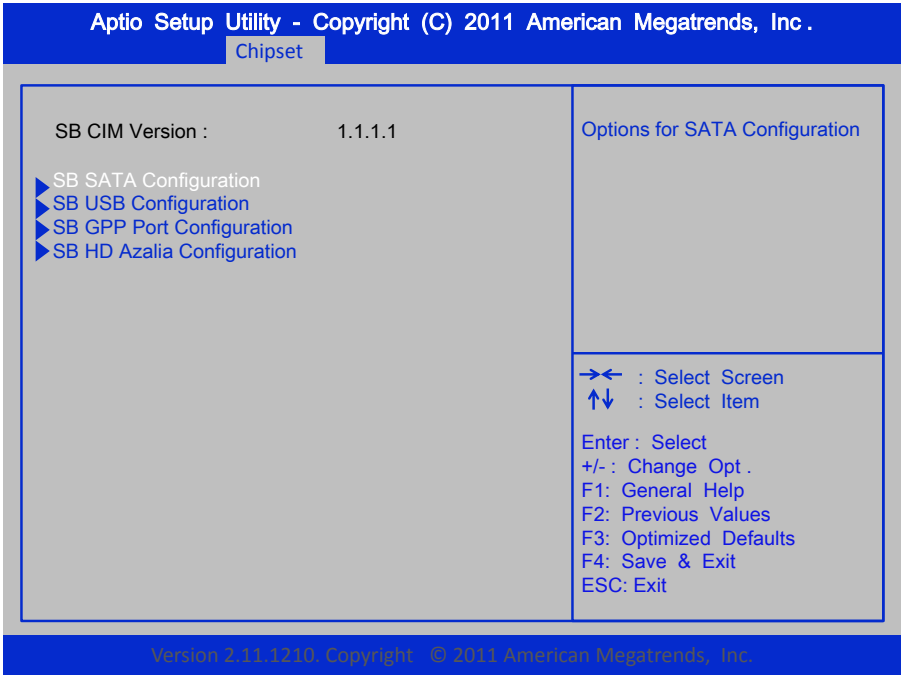
☐ DP0 Output Mode

Use this item to enable LVDS.

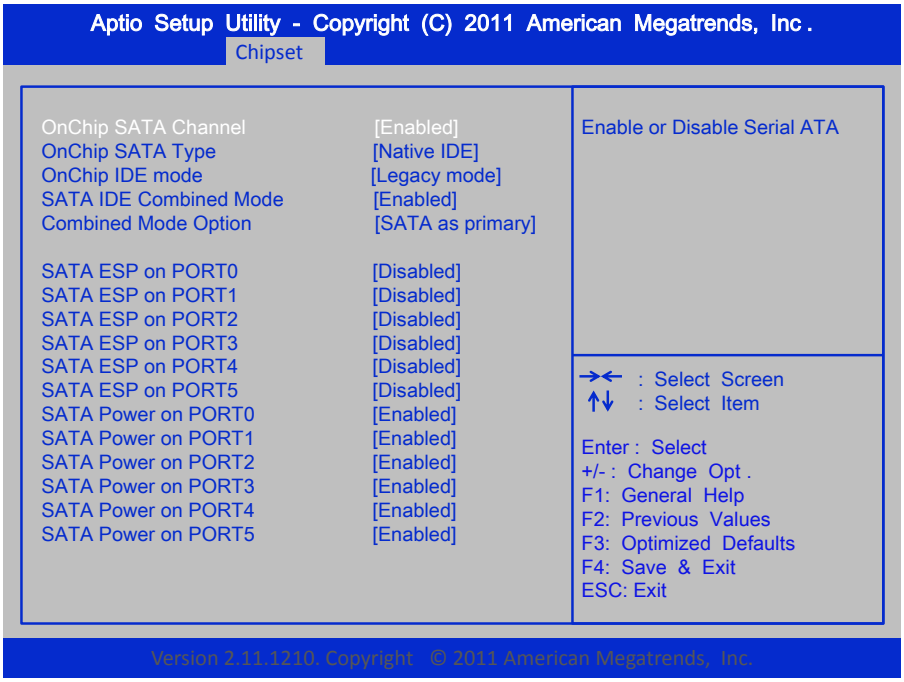
☐ DP1 Output Mode

Use this item to choose DP1 output.

2.23 SB Configuration



2.24 SATA Configuration



☐ OnChip SATA Channel

Choices: Disabled, Enabled.

☐ OnChip SATA Type

The default is Native IDE.

☐ OnChip IDE Mode

The option is Legacy mode or Native mode.

☐ SATA IDE Combined Mode

Choices: Disabled, Enabled

☐ Combined Mode Option

The option is set to be “SATA as primary.”

☐ SATA ESP on PORT0

Choices: Disabled, Enabled

☐ **SATA ESP on PORT1**

Choices: Disabled, Enabled

☐ **SATA ESP on PORT2**

Choices: Disabled, Enabled

☐ **SATA ESP on PORT3**

Choices: Disabled, Enabled

☐ **SATA ESP on PORT4**

Choices: Disabled, Enabled

☐ **SATA ESP on PORT5**

Choices: Disabled, Enabled

☐ **SATA Power on PORT0**

Choices: Disabled, Enabled

☐ **SATA Power on PORT1**

Choices: Disabled, Enabled

☐ **SATA Power on PORT2**

Choices: Disabled, Enabled

☐ **SATA Power on PORT3**

Choices: Disabled, Enabled

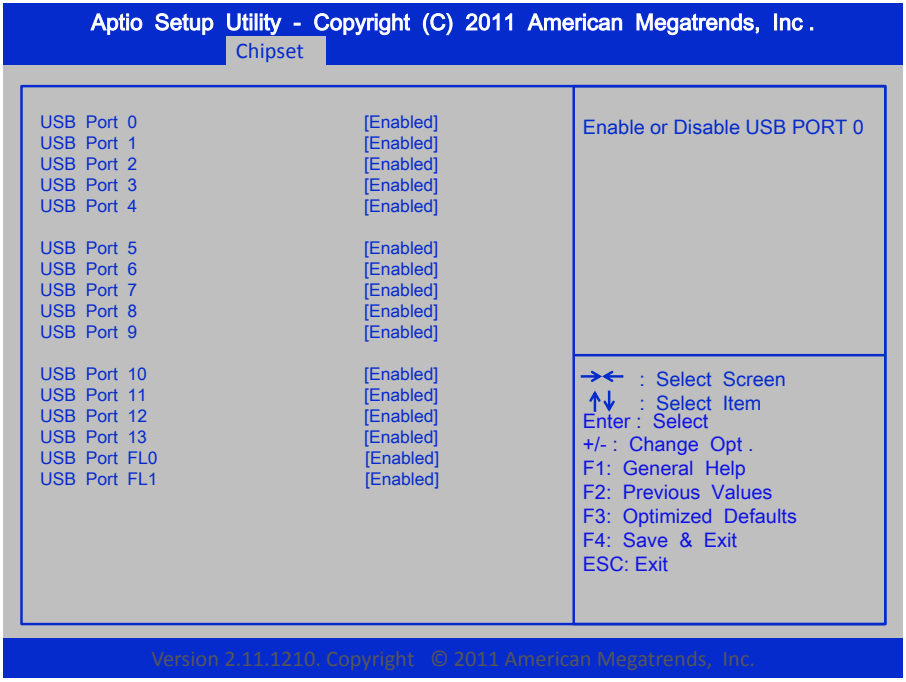
☐ **SATA Power on PORT4**

Choices: Disabled, Enabled

☐ **SATA Power on PORT5**

Choices: Disabled, Enabled

2.25 USB Port



☐ **OHCI HC (Bus 0 Dev 18 Fn 0)**

Choices: Disabled, Enabled

☐ **OHCI HC (Bus 0 Dev 19 Fn 0)**

Choices: Disabled, Enabled

☐ **OHCI HC (Bus 0 Dev 22 Fn 5)**

Choices: Disabled, Enabled

☐ **USB Port 0**

Choices: Disabled, Enabled

☐ **USB Port 1**

Choices: Disabled, Enabled

☐ **USB Port 2**

Choices: Disabled, Enabled

☐ **USB Port 3**

Choices: Disabled, Enabled

☐ **USB Port 4**

Choices: Disabled, Enabled

☐ **USB Port 5**

Choices: Disabled, Enabled

☐ **USB Port 6**

Choices: Disabled, Enabled

☐ **USB Port 7**

Choices: Disabled, Enabled

☐ **USB Port 8**

Choices: Disabled, Enabled

☐ **USB Port 9**

Choices: Disabled, Enabled

☐ **USB Port 10**

Choices: Disabled, Enabled

☐ **USB Port 11**

Choices: Disabled, Enabled

☐ **USB Port 12**

Choices: Disabled, Enabled

☐ **USB Port 13**

Choices: Disabled, Enabled

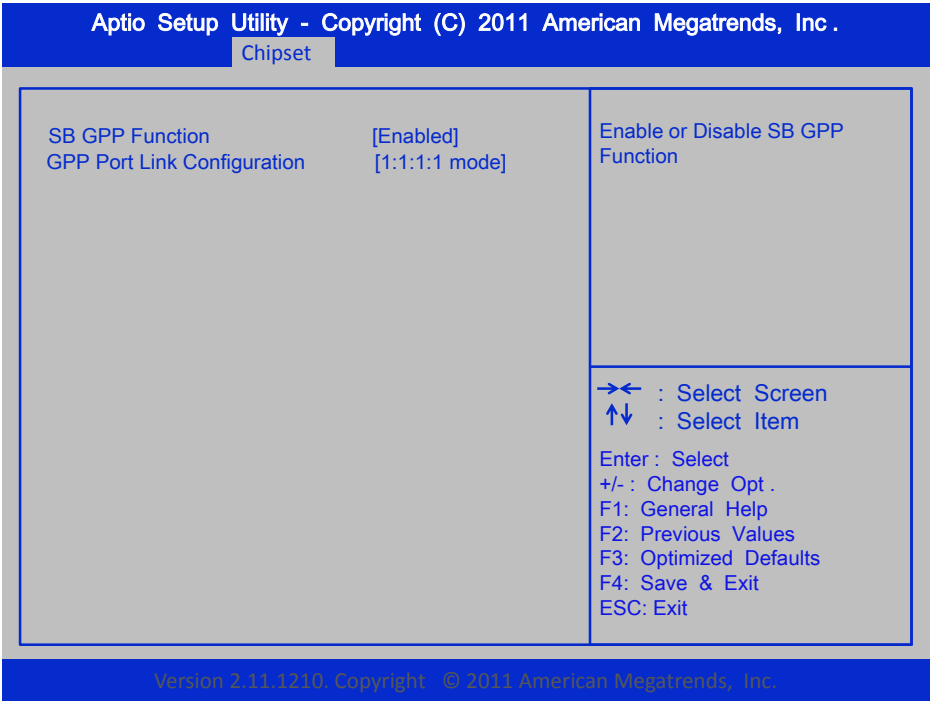
☐ **USB Port FL0**

Choices: Disabled, Enabled

☐ **USB Port FL1**

Choices: Disabled, Enabled

2.26 SB GPP Function Configuration



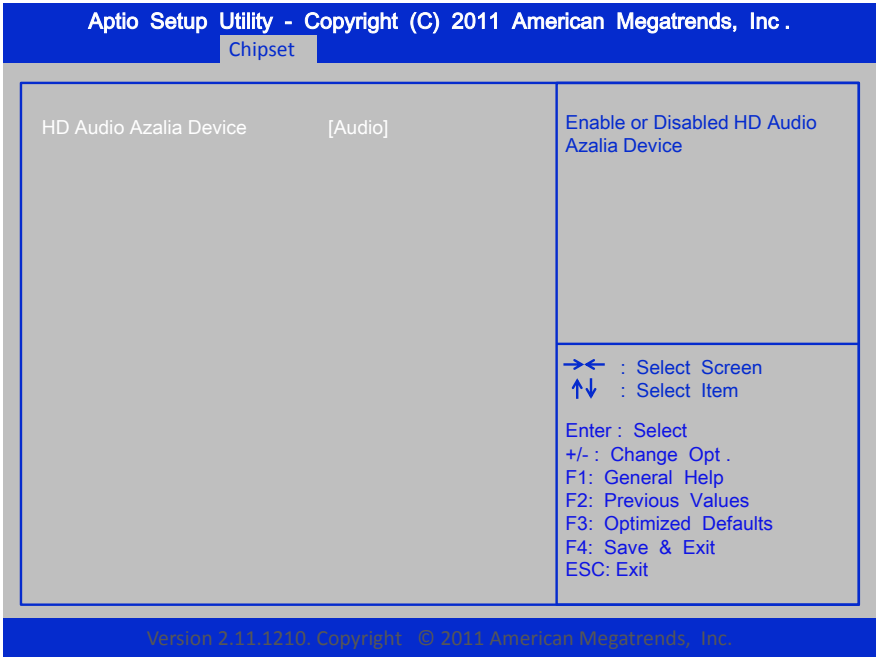
☐ SB GPP Function

Choices: Disabled, Enabled

☐ GPP Port Link Configuration

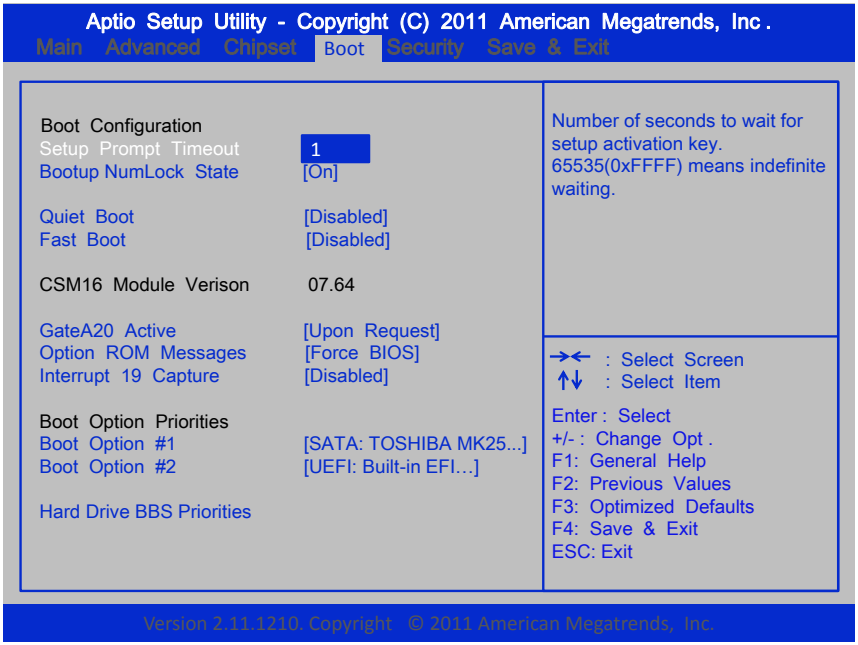
Choices: Disabled, Enabled

2.27 Azalia Device Configuration



☐ HD Audio Azalia Device

2.28 **Boot Configuration**



☐ **Setup Prompt Timeout**

This setting is to remind when the system is waiting for setup activation key.

☐ **Bootup NumLock State**

This setting is to set Num Lock status when the system is powered on.

Setting to [On] will turn on the Num Lock key when the system is powered on.

Setting to [Off] will allow users to use the arrow keys on the numeric keypad.

Choices: On, Off.

☐ **Quiet Boot**

This item can help to select the screen display when the system boots.

☐ **GateA20 Active**

Upon request GA20 can be disabled using BIOS services.

☐ Option ROM Messages

Set display mode for option ROM.

☐ Interrupt 19 Capture

Enable: Allow option ROMs to trap into 19.

Choices: Disabled, Enabled.

2.29 Password Description

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc.

Main Advanced Chipset Boot Security Save & Exit

Password Description

If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password must be 3 to 20 characters long.

Administrator Password
User Password

Set Administrator Password

→← : Select Screen
↑↓ : Select Item

Enter : Select
+/- : Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save
ESC: Exit

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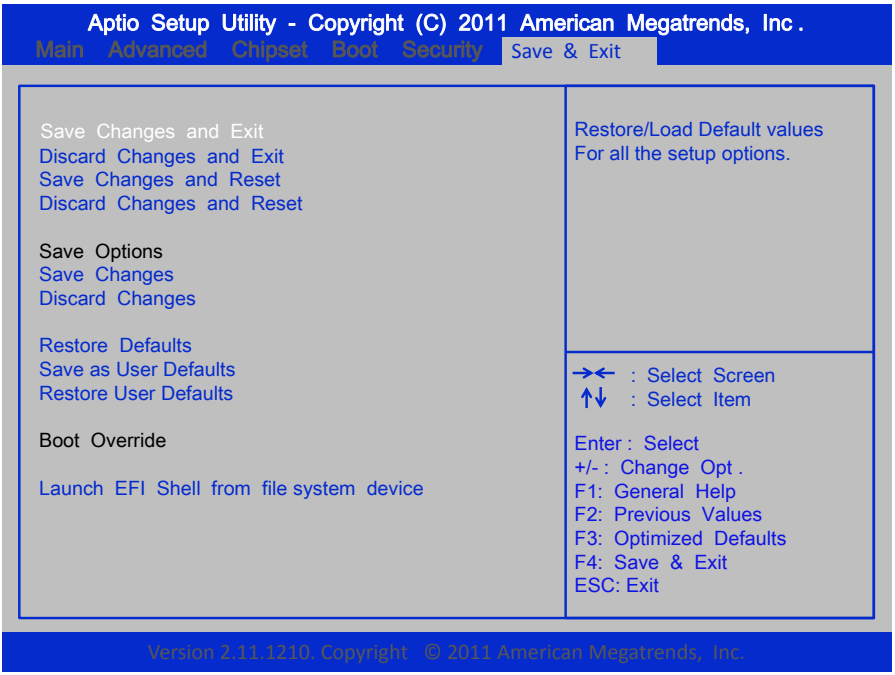
2.30 Save Changes and Exit



B. Wake UP on LAN Function

Please make sure the AC power is ON before use the function.

1. Boot into OS (windows XP).

2. In start menu control panel System device manager Network adapters double click Marvell Yukon 88E8071 Advance Wake from Shutdown Item select Wake on Magic packet from power off state.