



NEXCOM International Co., Ltd.

**Multi-Media Solutions**  
**Digital Signage Platform**  
**NDiS 125-L**  
User Manual

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# PREFACE

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## Disclaimer

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## Acknowledgements

NDiS 125-L is a trademark of NEXCOM International Co., Ltd. All other product names mentioned herein are registered trademarks of their respective owners.

## Regulatory Compliance Statements

This section describes how to keep the system CE compliant.

## Declaration of Conformity

### CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

## RoHS Compliance



### **NEXCOM RoHS Environmental Policy and Status Update**

NEXCOM is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2002/95/EU, to be your trusted green partner and to protect our environment.

RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force in to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

### **How to recognize NEXCOM RoHS Products?**

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.

# Warranty and RMA

## NEXCOM Warranty Period

NEXCOM manufactures products that are new or equivalent to new in accordance with industry standard. NEXCOM warrants that products will be free from defect in material and workmanship for 2 years, beginning on the date of invoice by NEXCOM. HCP series products (Blade Server) which are manufactured by NEXCOM are covered by a three year warranty period.

## NEXCOM Return Merchandise Authorization (RMA)

- ✘ Customers shall enclose the “NEXCOM RMA Service Form” with the returned packages.
- ✘ Customers must collect all the information about the problems encountered and note anything abnormal or, print out any on-screen messages, and describe the problems on the “NEXCOM RMA Service Form” for the RMA number apply process.
- ✘ Customers can send back the faulty products with or without accessories (manuals, cable, etc.) and any components from the card, such as CPU and RAM. If the components were suspected as part of the problems, please note clearly which components are included. Otherwise, NEXCOM is not responsible for the devices/parts.
- ✘ Customers are responsible for the safe packaging of defective products, making sure it is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurred during transportation, the repair is treated as “Out of Warranty.”

- ✘ Any products returned by NEXCOM to other locations besides the customers’ site will bear an extra charge and will be billed to the customer.

## Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

### System Level

- ✘ Component fee: NEXCOM will only charge for main components such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistor, capacitor.
- ✘ Items will be replaced with NEXCOM products if the original one cannot be repaired. Ex: motherboard, power supply, etc.
- ✘ Replace with 3rd party products if needed.
- ✘ If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

### Board Level

- ✘ Component fee: NEXCOM will only charge for main components, such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistors, capacitors.
- ✘ If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

## Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

## Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

## Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

## Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needlenose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

## Safety Precautions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
7. Do not leave this equipment in either an unconditioned environment or in a above 40°C storage temperature as this may damage the equipment.
8. The openings on the enclosure are for air convection to protect the equipment from overheating. DO NOT COVER THE OPENINGS.
9. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
10. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
11. All cautions and warnings on the equipment should be noted.
12. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
13. Never pour any liquid into an opening. This may cause fire or electrical shock.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If one of the following situations arises, get the equipment checked by service personnel:
  - a. The power cord or plug is damaged.
  - b. Liquid has penetrated into the equipment.
  - c. The equipment has been exposed to moisture.
  - d. The equipment does not work well, or you cannot get it to work according to the user's manual.
  - e. The equipment has been dropped and damaged.
  - f. The equipment has obvious signs of breakage.
16. Do not place heavy objects on the equipment.
17. The unit uses a three-wire ground cable which is equipped with a third pin to ground the unit and prevent electric shock. Do not defeat the purpose of this pin. If your outlet does not support this kind of plug, contact your electrician to replace your obsolete outlet.
18. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
19. The computer is provided with CD drives that comply with the appropriate safety standards including IEC 60825.

## Technical Support and Assistance

1. For the most updated information of NEXCOM products, visit NEXCOM's website at [www.nexcom.com](http://www.nexcom.com).
2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
  - Product name and serial number
  - Detailed information of the peripheral devices
  - Detailed information of the installed software (operating system, version, application software, etc.)
  - A complete description of the problem
  - The exact wordings of the error messages

### Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.
2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.
3. CompactFlash: Turn off the unit's power before inserting or removing a CompactFlash storage card.

## Conventions Used in this Manual



**Warning:** Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.



**Caution:** Information to avoid damaging components or losing data.



**Note:** Provides additional information to complete a task easily.



# Global Service Contact Information

## Headquarters

### Taiwan

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Fax: +86-25-8315-3489  
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Futian Area, Shenzhen, China 518040  
TEL: +86-755-833 27203  
FAX: +86-755-833 27213  
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9F, Tamachi Hara Bldg.,  
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Tel: +81-3-5419-7830  
Fax: +81-3-5419-7832  
<http://www.nexcom-jp.com>

# Package Contents

Before continuing, verify that the NDiS 125-L package that you received is complete. Your NDiS 125-L package should have all the items listed in the following table.

Item	P/N	Name	Qty
1	50311F0019X00	FLAT HEAD SCREW LONG FEI:F3x4 iso NI x4	1
2	50311F0122X00	I HEAD SCREW LONG FEI:I 2*6ISO+ Black Nylok x4	1
3	5043330394X00	NDiS125-L HDD BRACKET-R VER:A CHYUAN-JYH	1
4	5043330395X00	NDiS125-L HDD BRACKET-L VER:A CHYUAN-JYH	1
5	5044440031X00	RUBBER FOOT KANG YANG:RF20-5-4P x4	1
6	602DCD0390X00	NDiS125-L DVD DRIVER MANUAL VER:2.0	1
7	7400065011X00	POWER ADAPTER DELTA:ADP-65JH DBH	1

# Ordering Information

The following provides ordering information for NDiS 125-L.

- **NDiS 125-L (P/N: 10W00012501X0)**  
Intel® Atom™ Dual Core D525 Processor onboard  
Intel® NM10 Express Chipset  
Fanless System

# CHAPTER 1: PRODUCT INTRODUCTION

## Overview



- NDiS 125-L is designed for Digital Signage application. It provides ease of mounting the system behind large-size display devices such as LCD TV or PDP.
- NDiS 125-L operates on Intel® Atom™ processor D525. With its excellent thermal design, it can reduce maintenance cost and thus guarantees stability on 24/7 nonstop operation.
- NDiS 125-L provides VGA display interface with audio output, one GbE Ethernet with optional wireless connectivity, USB 2.0 ports and a 2.5" drive bay for a storage device.

## Key Features

### CPU

- Intel® Atom™ processor D525, 1.8GHz Dual Core

### Chipset

- Intel® NM10 Express Chipset
- NVIDIA ION2

### Memory

- One DDR3 SO-DIMM memory at 800MHz
- Supports up to 2GB memory

### Audio Controller

- Realtek ALC662

### Gigabit Ethernet Controller

- AR8121\_AL1E Giga LAN

### USB

- 4x external USB ports

### SATA

- Supports 1 SATA bay
- Data rate up to 3.0GB/s (300MB/s)

## System Specifications

### CPU Support

- Intel® ATOM™ Dual Core D525 1.8GHz CPU onboard

### Chipset

- Intel® NM10 Express Chipset

### Graphics

- NVIDIA ION2

### Main Memory

- 1GB DDR3 800 SO-DIMM

### I/O Interface-Front

- 2 x USB2.0

### I/O Interface-Rear

- 19VDC Power in
- 1 x D-Sub
- 2 x USB 2.0
- 1 x RJ45 with LEDs for 10/100/1000Mbps Ethernet
- 1 x Audio-out
- 1 x HDMI

### Storage

- One 2.5" HDD drive bay

### Dimensions

- 250 mm (W) x 194 mm (D) x 40 mm(H) w/o mounting bracket

### Power Supply

- 1 x External 65W AC/DC power adapter

### Expansion

- 1 x Mini-PCle for built-in 802.11 b/g/n WLAN module (Default)

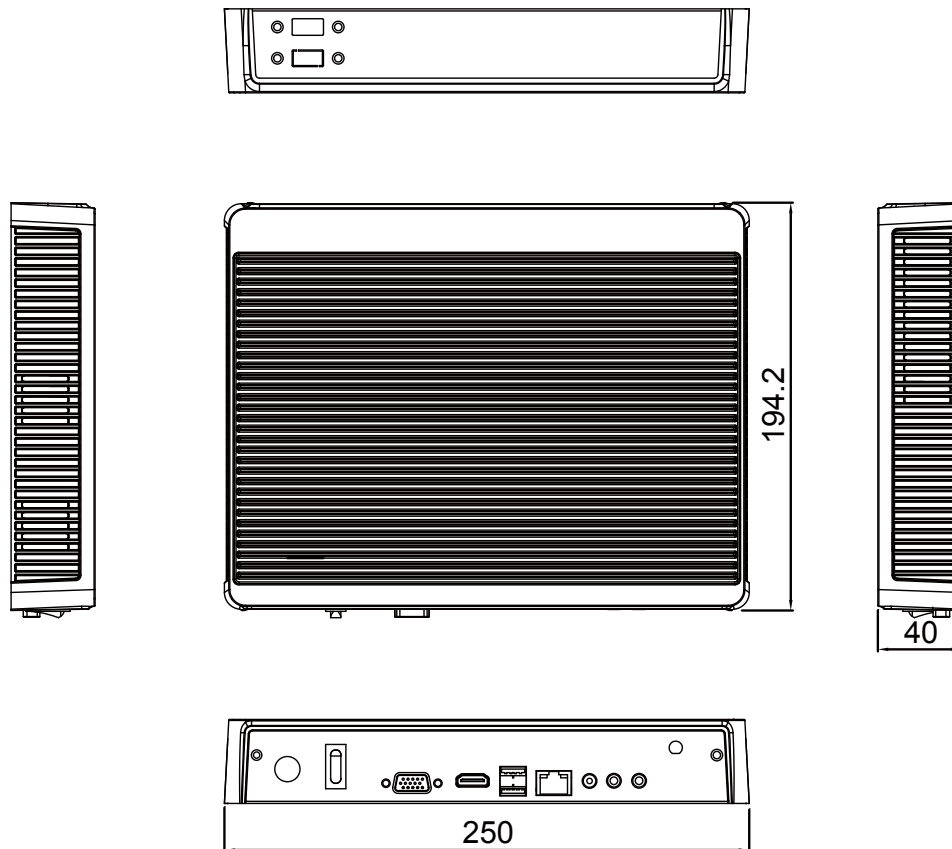
### Environment

- Operating Temperature: 0°C to +40°C
- Storage Temperature: -20°C to +80°C
- Humidity: 10 to 90% (Non-condensing)

### Certification

- CE approval

## Mechanical Dimensions

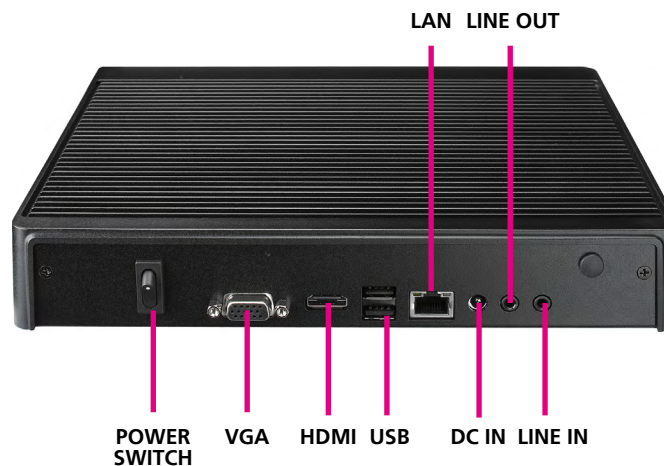


## CHAPTER 2: HARDWARE FUNCTIONALITY

### Front Panel



### Rear Panel





## CHAPTER 3: SYSTEM SETUP

### Removing the Chassis Cover



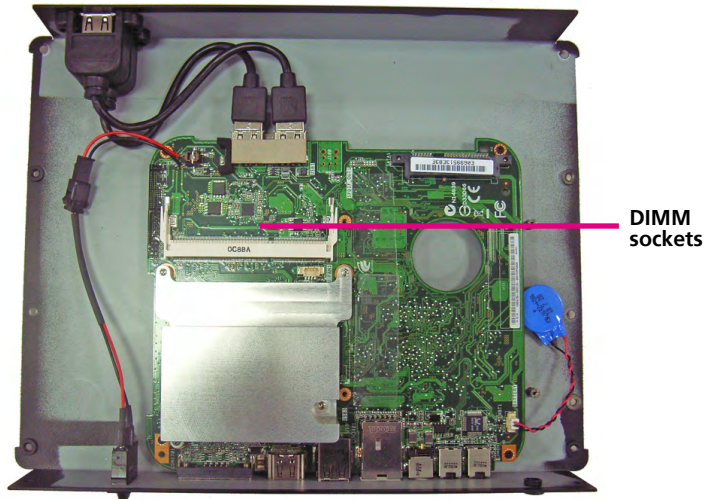
Prior to removing the chassis cover, make sure the unit's power is off and disconnected from the power source to prevent electric shock or system damage.

1. The screws on the bottom of cover are used to secure the cover to the chassis. Remove these screws and put them in a safe place for later use.

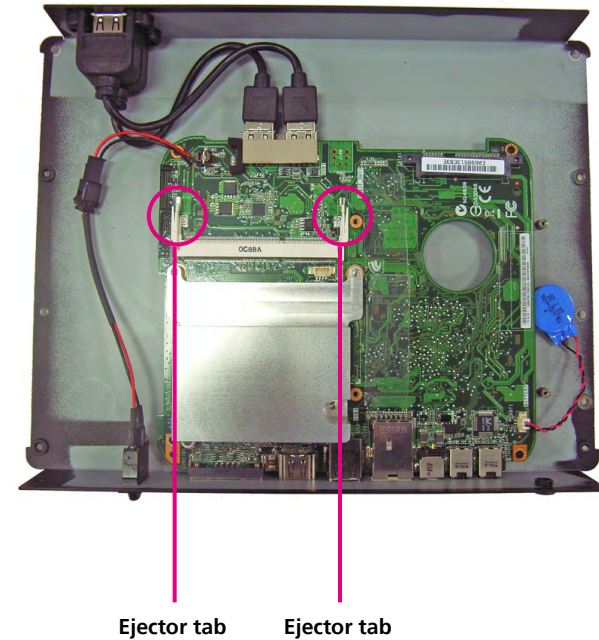


## Installing a DIMM

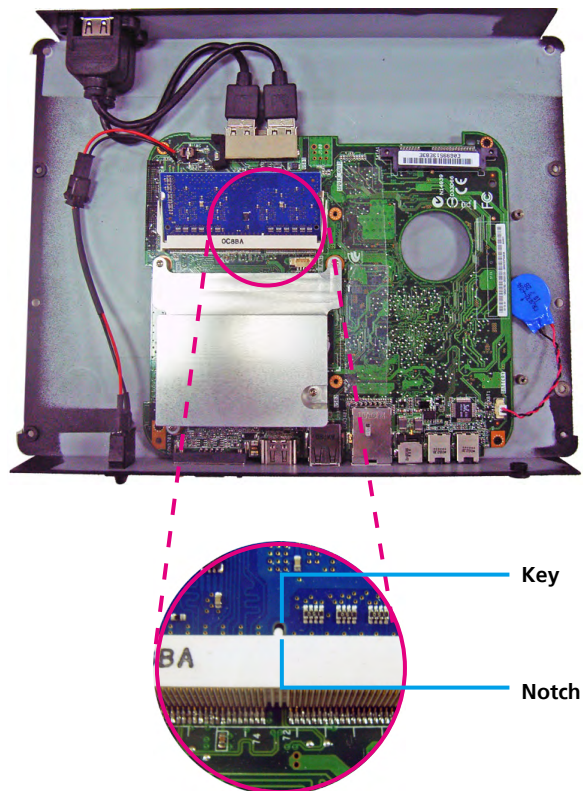
1. Locate for the DIMM socket on the board.



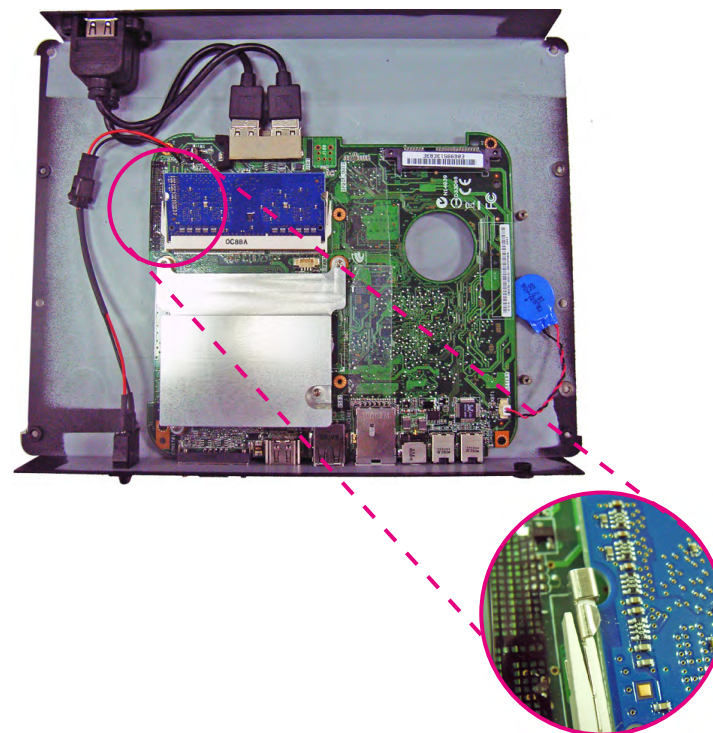
2. Push the ejector tabs which are at the ends of the socket outward. This indicates that the socket is unlocked.



3. Note how the module is keyed to the socket. Grasping the module by its edges, align the module with the socket so that the “notch” on the module is aligned with the “key” on the socket. The key ensures the module can be plugged into the socket in only one direction.



4. Insert the module into the socket. Apply firm even pressure to each end of the module until it slips down into the socket. The contact fingers on the edge of the module will almost completely disappear inside the socket.



## Installing a SATA Hard Drive

1. The drive bracket included in the package is used to hold a SATA hard drive.



2. Place the SATA hard drive onto the drive bracket. Align the mounting holes that are on the sides of the SATA drive with the mounting holes on the drive bracket.

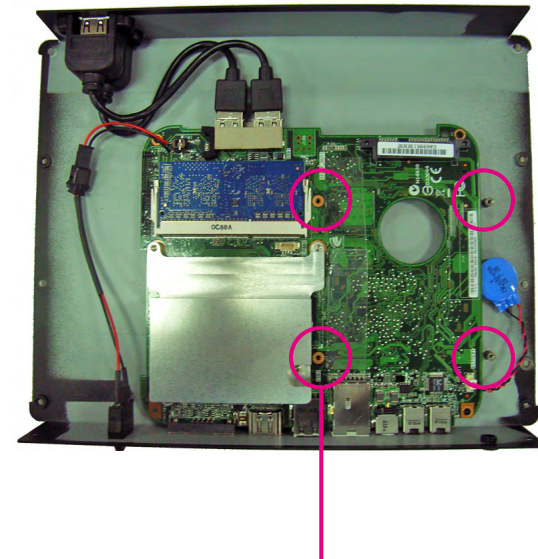


3. Use the provided screws to secure the SATA drive in place.



Mounting Screw

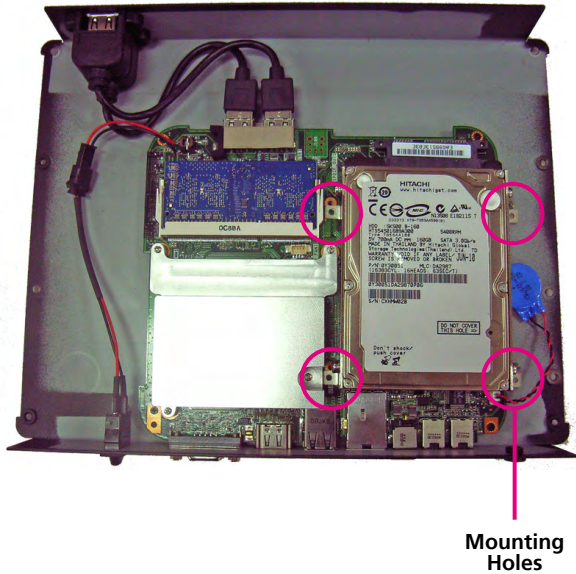
4. Secure the SATA Drive with the provided mounting screw.



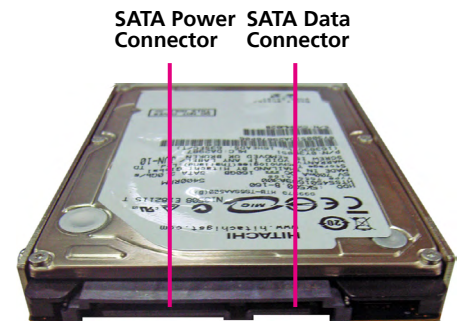
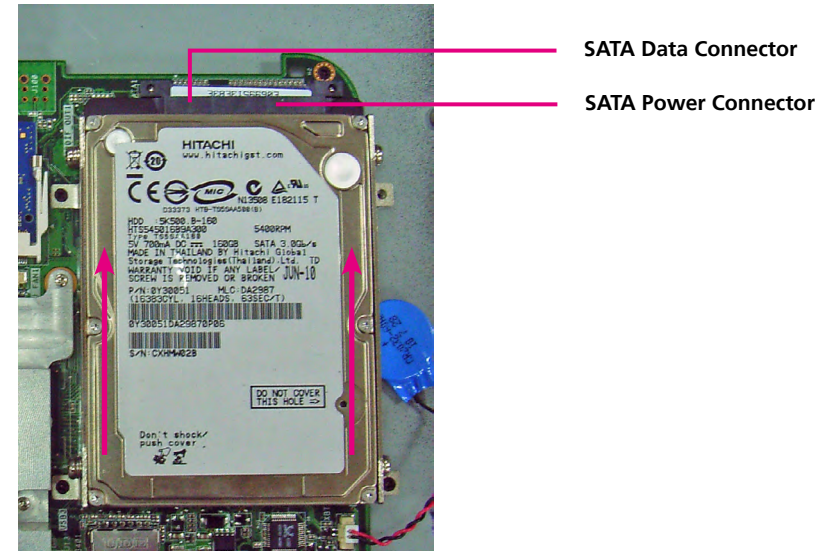
Mounting Studs



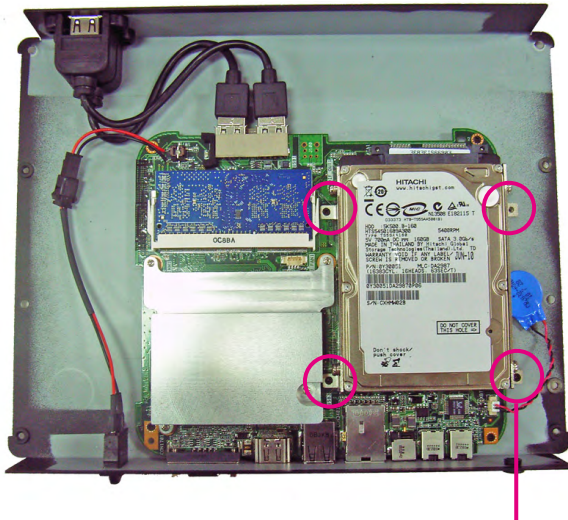
5. The mounting holes on the drive bracket and chassis are used to secure hard drive to the chassis.



6. Locate for the SATA connector and the SATA power connector on the SATA drive.



7. Align the mounting holes of the drive bracket with the mounting studs on the board then use the provided mounting screws to secure the hard drive in place.

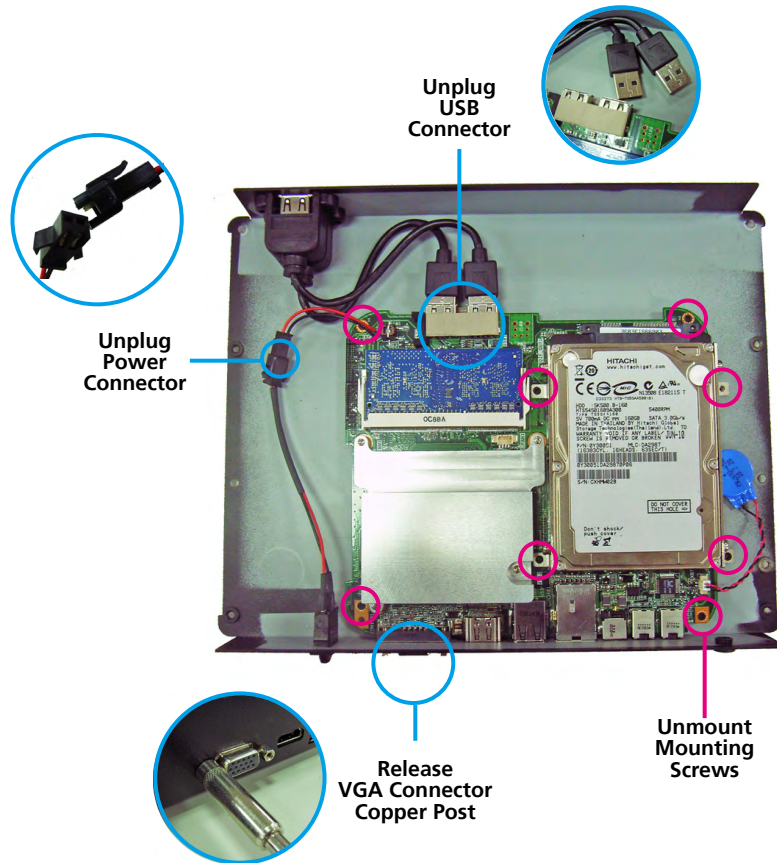


Mounting Screw

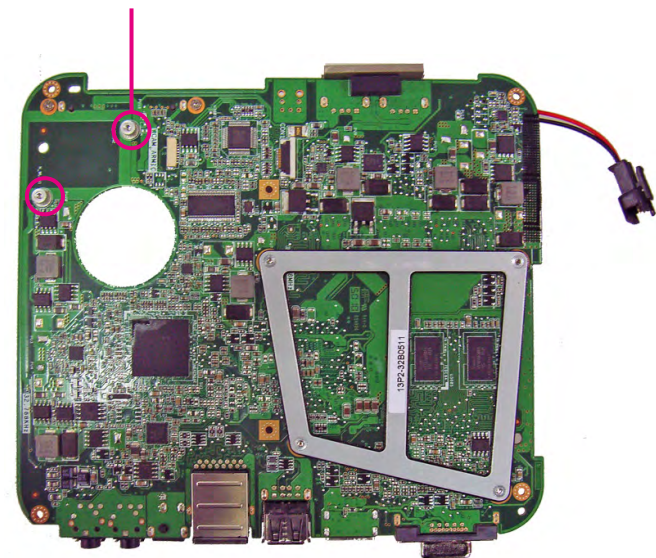
## Installing a Wireless LAN Module

1. Unmount screws and unplug connectors on the board.

2. Remove mother board from chassis and locate WiFi module mounting stud in the back of mother board.

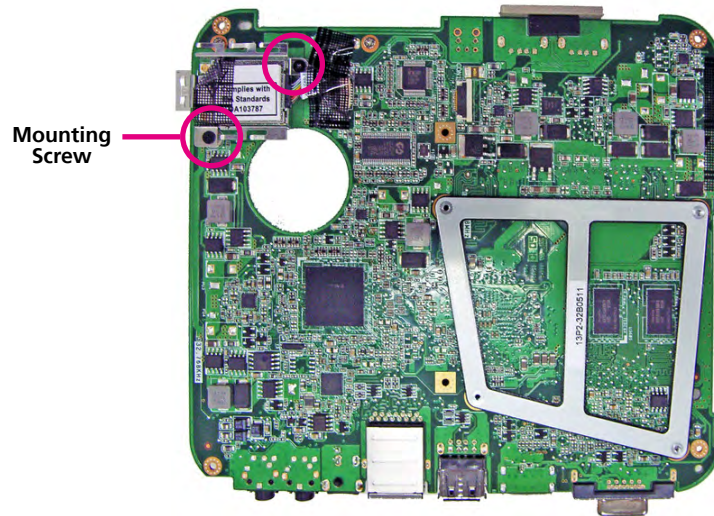


Wireless LAN Module Mounting Stud

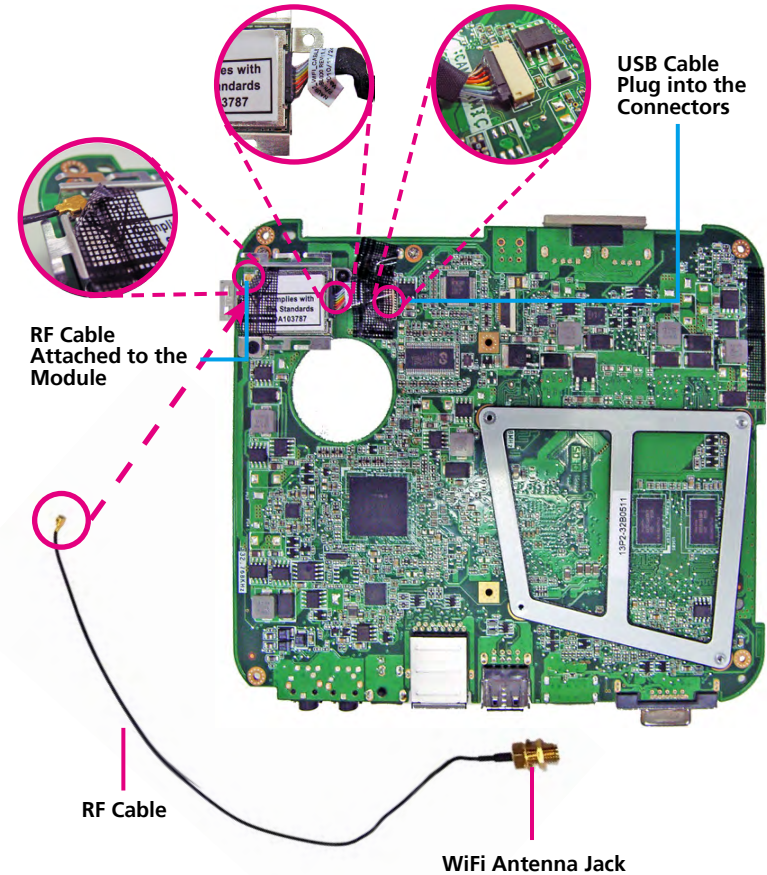




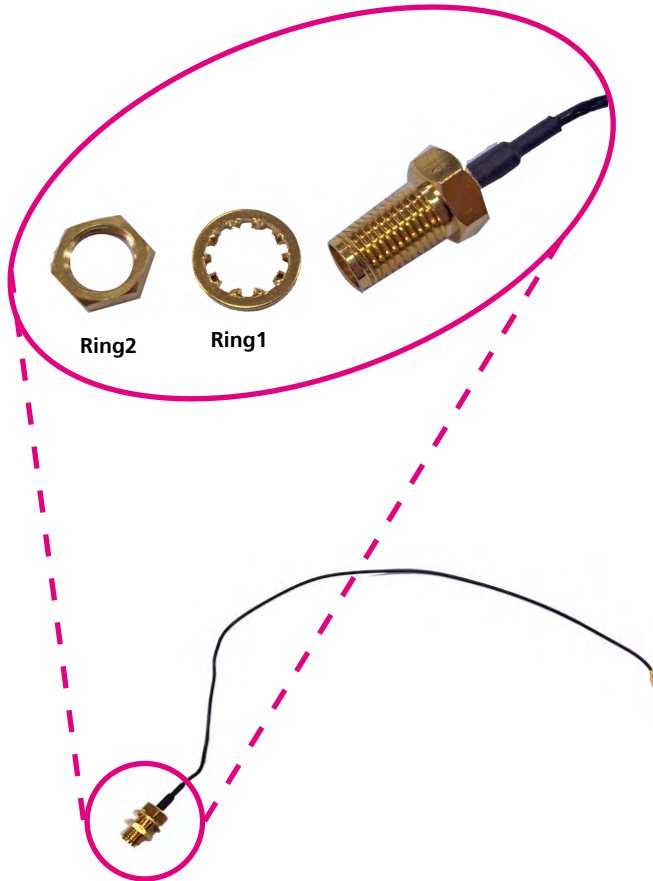
3. Mount WiFi module then secure it with mounting screws.



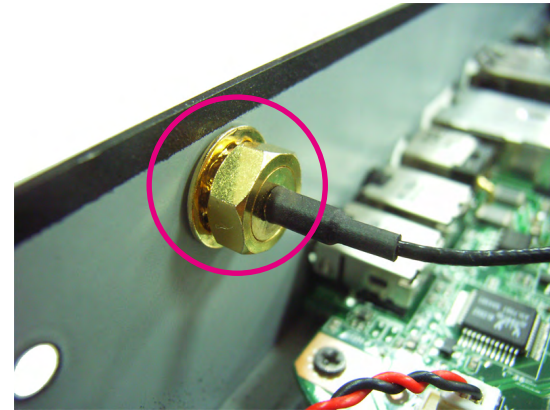
4. Attach one end of the RF cable onto the WiFi module. Plug USB cable into the WiFi module and mother board connector.



5. Insert the 2 rings (ring 1 then ring 2) into the WiFi antenna jack.



6. Now mount the WiFi antenna jack to the WiFi antenna hole located at the rear panel of the chassis then tighten the rings.



7. The photo below shows the WiFi antenna jack attached at the rear panel of the chassis.

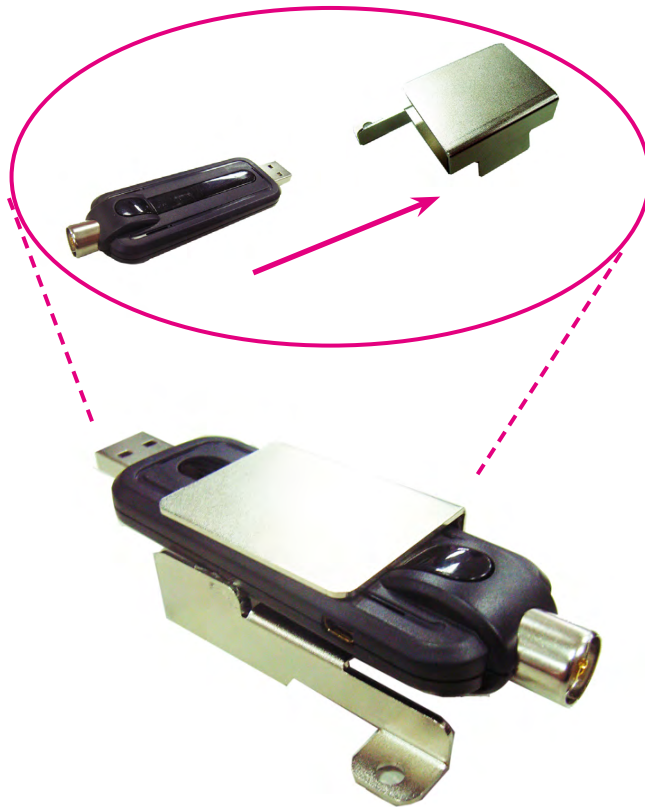


8. Now connect an external antenna to the WiFi antenna jack.

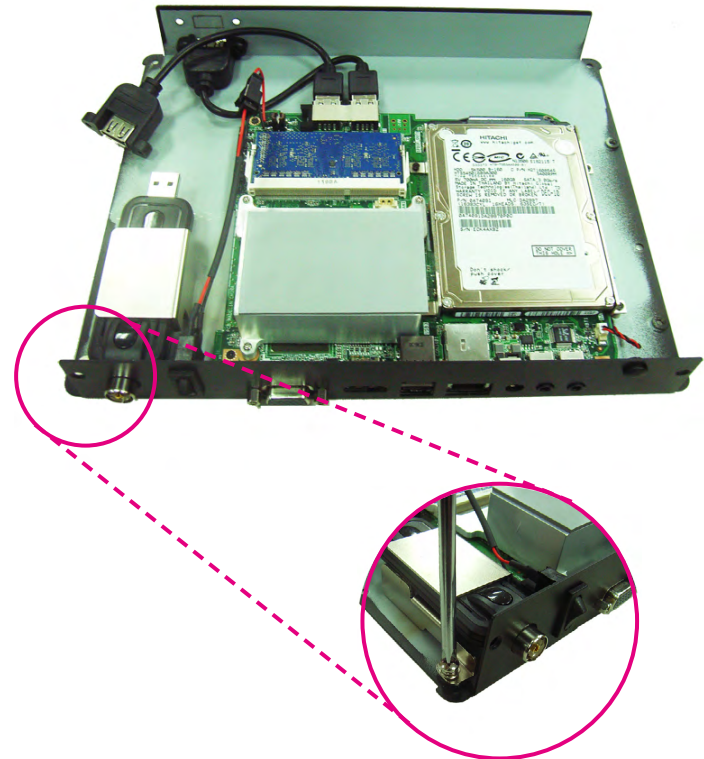


## Installing a TV Tuner Module

1. Slide the TV Tuner into the bracket.



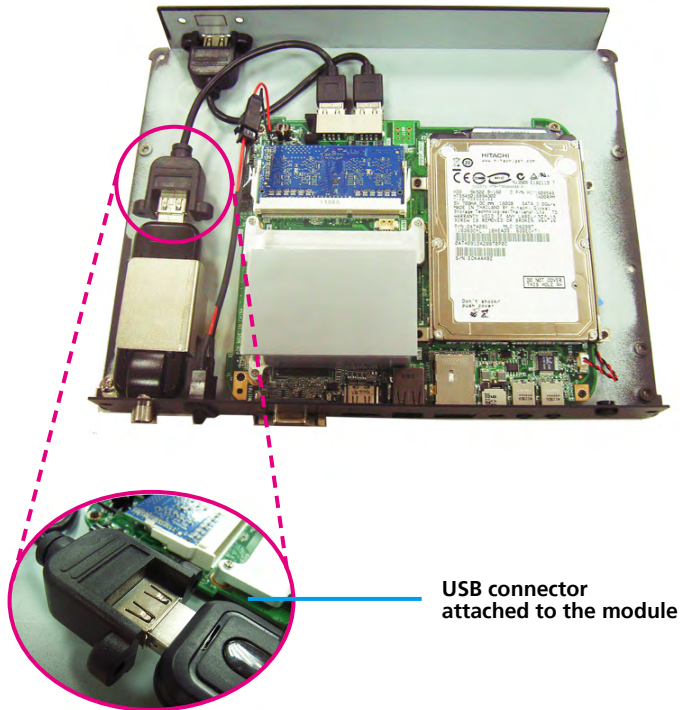
2. Insert the TV Tuner module into the system until the antenna plug on the edge of the back panel completely. Secure the TV Tuner in place by mounting screw.





3. Attach the usb connector on to TV Tuner module.

4. Connect an external TV antenna to the TV antenna jack.



## CHAPTER 4: BIOS SETUP

This chapter describes how to use the BIOS setup program for NDiS 125-L. The BIOS screens provided in this chapter are for reference only and may change if the BIOS is updated in the future.

To check for the latest updates and revisions, visit the NEXCOM Web site at [www.nexcom.com.tw](http://www.nexcom.com.tw).

### About BIOS Setup

The BIOS (Basic Input and Output System) Setup program is a menu driven utility that enables you to make changes to the system configuration and tailor your system to suit your individual work needs. It is a ROM-based configuration utility that displays the system's configuration status and provides you with a tool to set system parameters.

These parameters are stored in non-volatile battery-backed-up CMOS RAM that saves this information even when the power is turned off. When the system is turned back on, the system is configured with the values found in CMOS.

With easy-to-use pull down menus, you can configure such items as:

- 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 program affect how the computer performs. It is important, therefore, first to try to understand all the Setup options, and second, to make settings appropriate for the way you use the computer.

### When to Configure the BIOS

This program should be executed under the following conditions:

- When changing the system configuration
- When a configuration error is detected by the system and you are prompted to make changes to the Setup program
- When resetting the system clock
- When redefining the communication ports to prevent any conflicts
- When making changes to the Power Management configuration
- When changing the password or making other changes to the security setup

Normally, CMOS setup is needed when the system hardware is not consistent with the information contained in the CMOS RAM, whenever the CMOS RAM has lost power, or the system features need to be changed.

## Default Configuration

Most of the configuration settings are either predefined according to the Load Optimal Defaults settings which are stored in the BIOS or are automatically detected and configured without requiring any actions. There are a few settings that you may need to change depending on your system configuration.

## Entering Setup

When the system is powered on, the BIOS will enter the Power-On Self Test (POST) routines. These routines perform various diagnostic checks; if an error is encountered, the error will be reported in one of two different ways:

- If the error occurs before the display device is initialized, a series of beeps will be transmitted.
- If the error occurs after the display device is initialized, the screen will display the error message.

Powering on the computer and immediately pressing <Del> allows you to enter Setup. Another way to enter Setup is to power on the computer and waits for the following message during the POST:

TO ENTER SETUP BEFORE BOOT

PRESS <CTRL-ALT-ESC>

Press the <Del> key to enter Setup:

## Legends

Key	Function
Right and Left arrows	Moves the highlight left or right to select a menu.
Up and Down arrows	Moves the highlight up or down between sub-menus or fields.
<Esc>	Exits to the BIOS Setup Utility.
+ (plus key)	Scrolls forward through the values or options of the highlighted field.
- (minus key)	Scrolls backward through the values or options of the highlighted field.
Tab	Selects a field.
<F1>	Displays General Help.
<F10>	Saves and exits the Setup program.
<Enter>	Press <Enter> to enter the highlighted sub-menu.

### Scroll Bar

When a scroll bar appears to the right of the setup screen, it indicates that there are more available fields not shown on the screen. Use the up and down arrow keys to scroll through all the available fields.

### Submenu

When "►" appears on the left of a particular field, it indicates that a submenu which contains additional options are available for that field. To display the submenu, move the highlight to that field and press <Enter>.

# BIOS Setup Utility

Once you enter the AMI BIOS Setup Utility, the Main Menu will appear on the screen. The main menu allows you to select from six setup functions and one exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the submenu.

## Main

The Main menu is the first screen that you will see when you enter the BIOS Setup Utility.

## System Memory

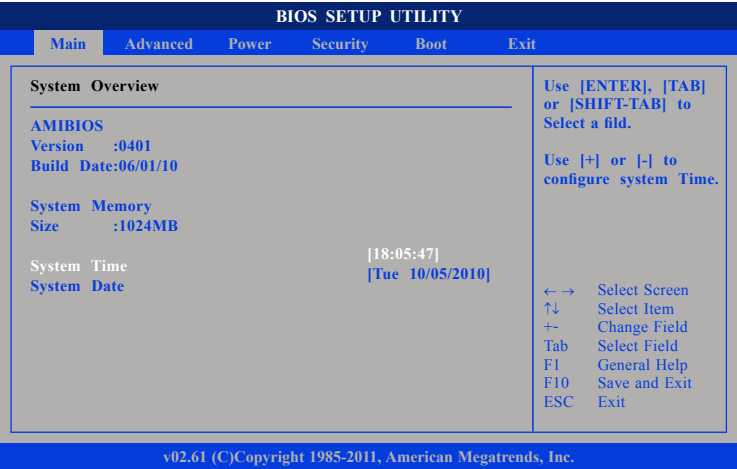
This section displays general system memory size. The BIOS automatically detects the information in this section.

## System Time

The time format is <hour>, <minute>, <second>. The time is based on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00. Hour displays hours from 00 to 23. Minute displays minutes from 00 to 59. Second displays seconds from 00 to 59.

## System Date

The date format is <day>, <month>, <date>, <year>. Day displays a day, from Sunday to Saturday. Month displays the month, from January to December. Date displays the date, from 1 to 31. Year displays the year, from 1999 to 2099.



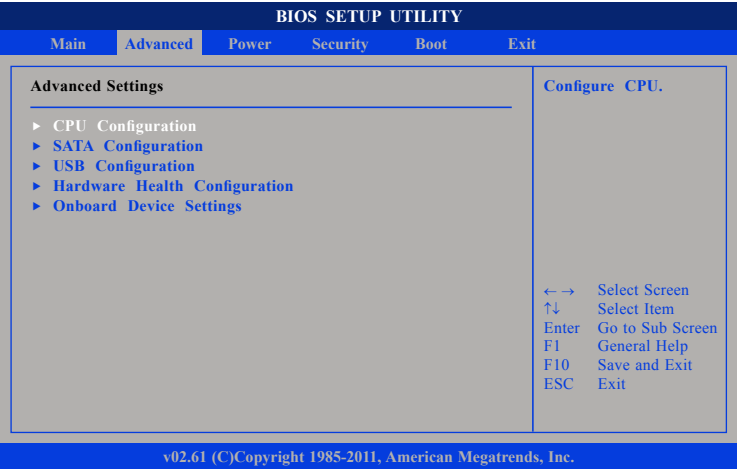


## Advanced

The Advanced menu allows you to configure your system for basic operation. Some entries are defaults required by the system board, while others, if enabled, will improve the performance of your system or let you set some features according to your preference.



Setting incorrect field values may cause the system to malfunction.



## CPU Configuration

This section is used to view detailed CPU specifications and configure the CPU.

## SATA Configuration

This section is used menu to change and/or set the configuration of the SATA devices installed in the system.

## USB Configuration

This section is used to enable or disable the USB controller.

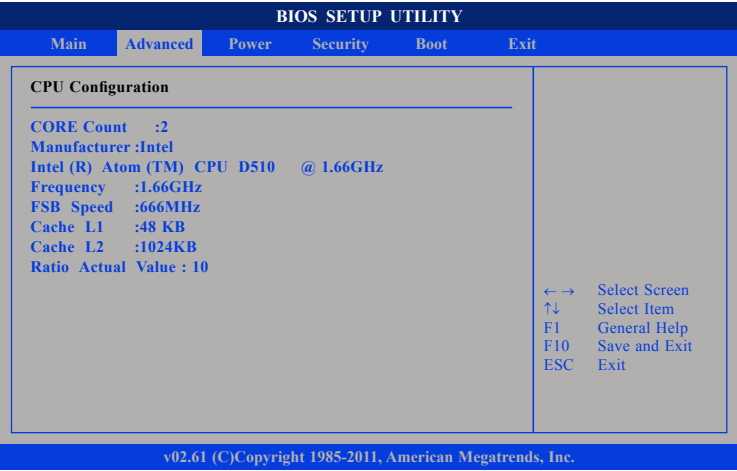
## Hardware Health Configuration

This section is used to configure the hardware monitoring events such as temperature, fan speed and voltages.

## Onboard Device Setting

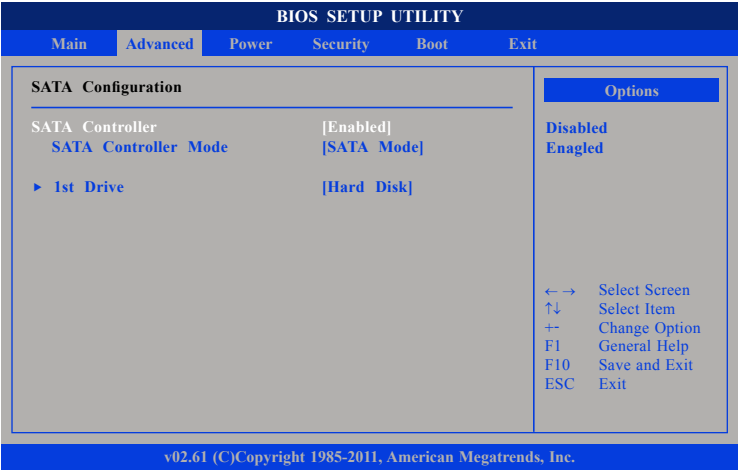
This section is used to configure the Onboard Device.

## CPU Configuration



This field will provide the auto-detected CPU specifications.

## SATA Configuration



This field is used to enable or disable the SATA controller.

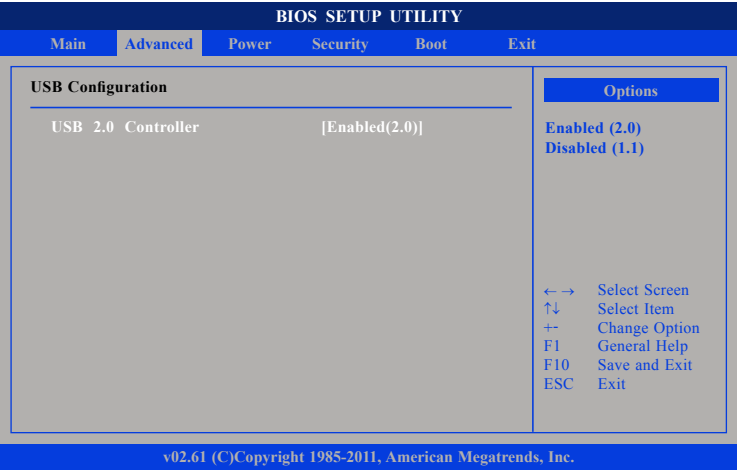
### SATA Controller Mode

The items in this menu allow you to set or change the configurations for the SATA Controller Mode. Settings: [SATA Mode, AHCI Mode]

### 1st Drive

While entering setup, BIOS auto detects the presence of IDE devices. This displays the status of auto detection of IDE devices.

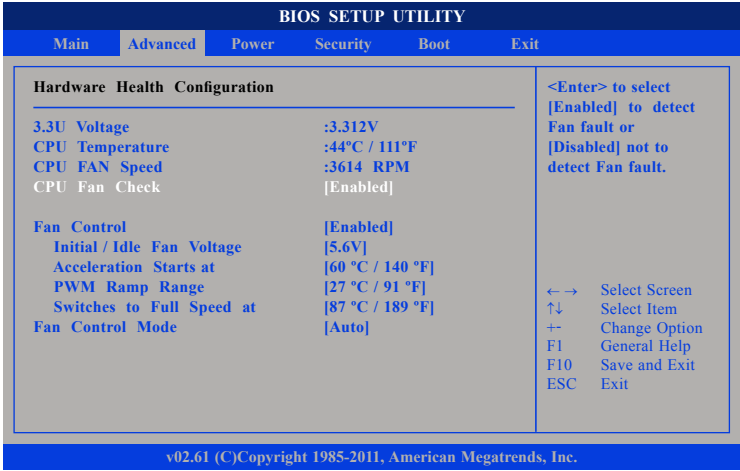
## USB Configuration



### USB 2.0 Controller

This field is used to enable or disable the Enhanced Host Controller Interface (USB 2.0).

## Hardware Health Configuration



### 3.3V Voltage

The system voltage is monitored.

### CPU Temperature

Detects and displays the current temperature of the CPU temperature of the system.

### CPU Fan Speed

Detects and displays the CPU Fan Speed.

### CPU Fan Check

To select Enabled to detect fan fault or to select Disabled not to detect fan fault.

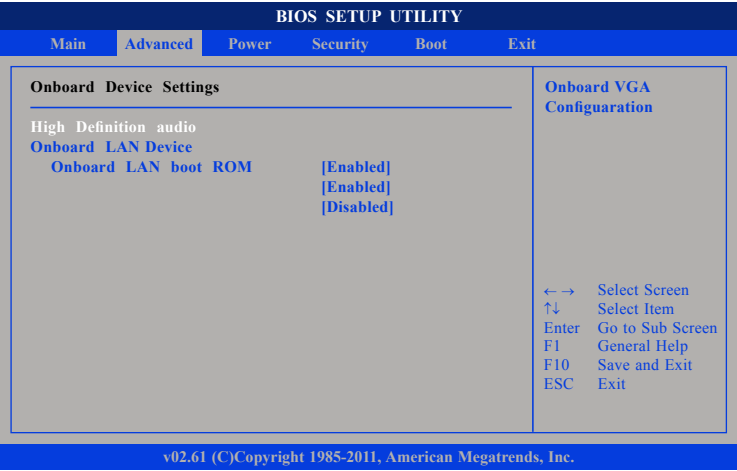
### Fan Control

Enable/Disable the control of system/CPU fan speed by change fan voltage.

### Fan Control Mode

Select Auto to load full speed temperature by CPU type or enter manually.

## Onboard Device Settings



### High Definition Audio

This item allows you to configure your audio settings

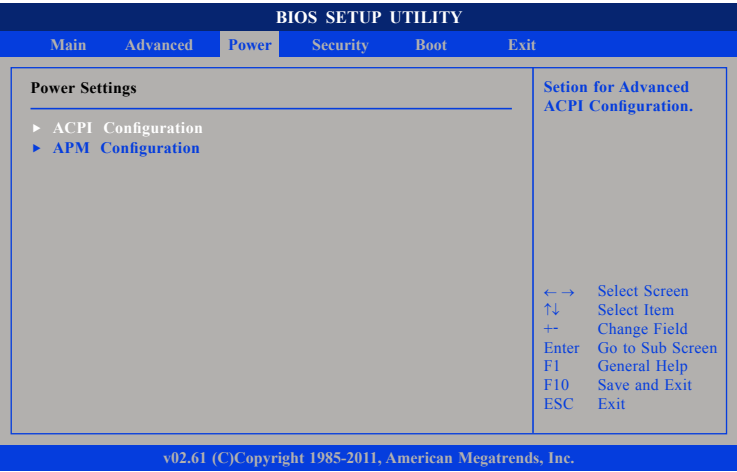
### Onboard LAN Device

This field is used to enable or disable the onboard LAN device.

### Onboard LAN Boot ROM

This field is used to enable or disable the onboard LAN Boot ROM.

Power



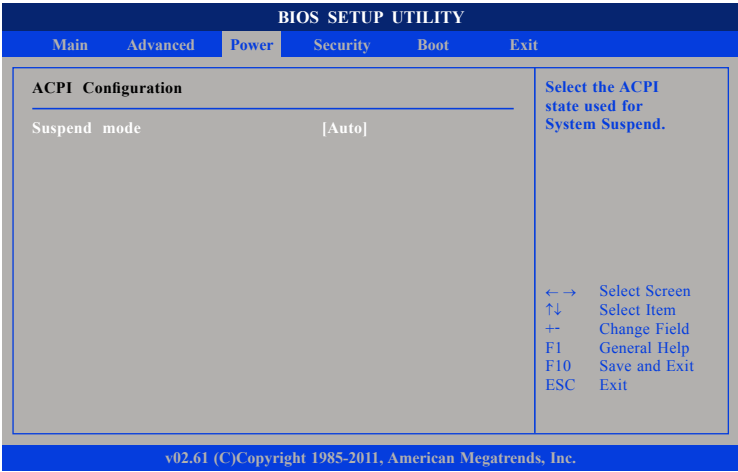
ACPI Configuration

The ACPI configuration menu configures the Advanced Configuration and Power Interface options.

APM Configuration

The APM configuration menu allows the Advanced Power Management options to be configured.

ACPI Configuration



Suspend Mode

Selects the ACPI state to be used for system suspend.

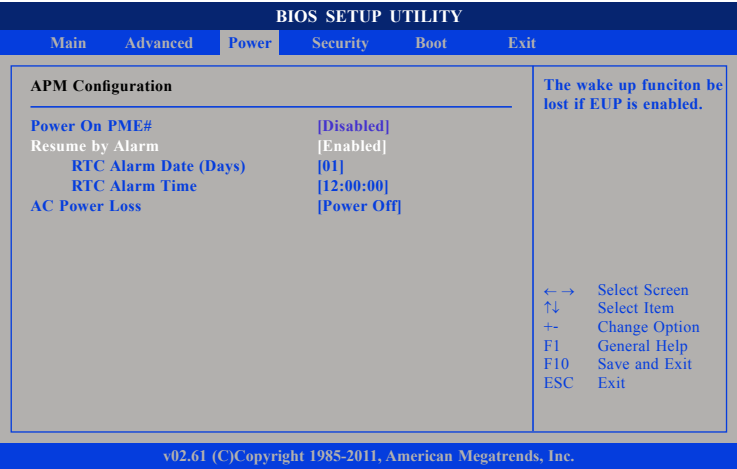
S1(POS)

Enables the Power On Suspend function.

S3(STR)

Enables the Suspend to RAM function.

## APM Configuration



### Power on PME#

Enables the system to wake up to respond to PCI card such as LAN card or modem card that uses the PCI PME (Power Management Event) signal to remotely wake up the system. Access to the LAN card or PCI card will cause the system to wake up.

### Resume by Alarm (By Request)

This function is for setting the Date, Hour, Minute, and Second for your computer to boot up. During Disabled, you cannot use this function. During Enabled, Choose the Date, Hour, Minute, and Second.

### AC Power Loss

#### Power Off

When power returns after an AC power failure, the system's power is off. You must press the Power button to power-on the system.

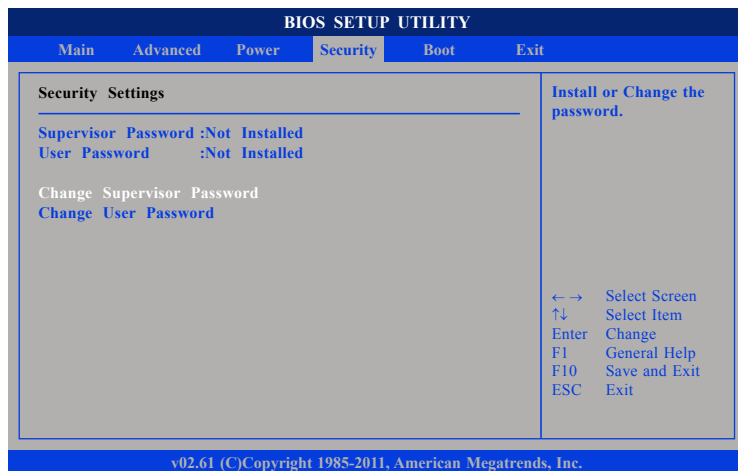
#### Power On

When power returns after an AC power failure, the system will automatically power-on.

#### Last State

When power returns after an AC power failure, the system will return to the state where you left off before power failure occurs. If the system's power is off when AC power failure occurs, it will remain off when power returns. If the system's power is on when AC power failure occurs, the system will power-on when power returns.

## Security



### Change Supervisor Password

This field is used to set or change the supervisor password. To set a new password:

1. Select the Change Supervisor Password field then press <Enter>.
2. Type your password in the dialog box then press <Enter>. You are limited to eight letters/numbers.
3. Press <Enter> to confirm the new password.
4. When the Password Installed dialog box appears, select OK.

To change the password, repeat the same steps above.

To clear the password, select Change Supervisor Password then press <Enter>.

The Password Uninstalled dialog box will appear.

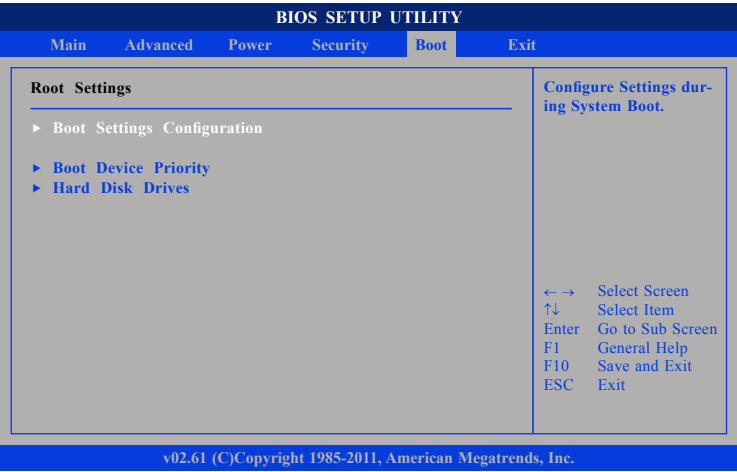
### Change User Password

This field is used to set or change the user password. To set a new password:

1. Select the Change User Password field then press <Enter>.
2. Type your password in the dialog box then press <Enter>. You are limited to eight letters/numbers.
3. Press <Enter> to confirm the new password.
4. When the Password Installed dialog box appears, select OK.

To change the password, repeat the same steps above.

Boot



Boot Settings Configuration

Configuration settings during system boot.

Boot Device Priority

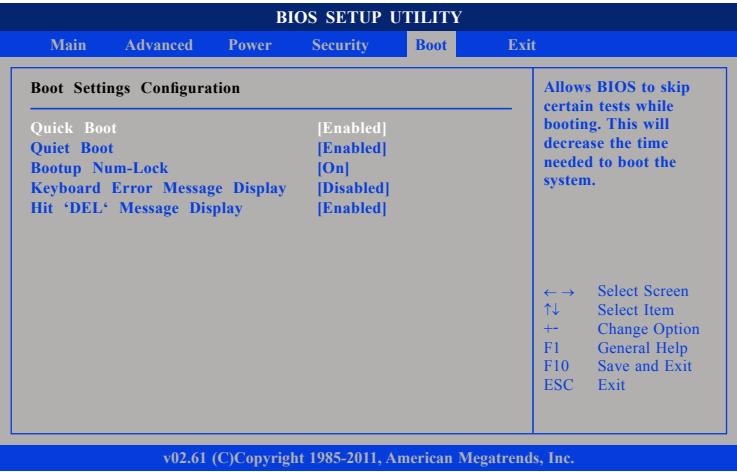
Use the Boot Device Priority options to select the order of the devices the system boots from.

Hard Disk Drives

Use the Hard Disk Drives options to select the available devices the system boots from.



## Boot Setting Configuration



### Quick Boot

When enabled, the BIOS will shorten or skip some check items during POST. This will decrease the time needed to boot the system.

### Quiet Boot

When enabled, the BIOS will display the OEM logo instead of POST message during POST.

### Bootup Num-Lock

This allows you to determine the default state of the numeric keypad. By default, the system boots up with NumLock on wherein the function of the numeric keypad is the number keys. When set to Off, the function of the numeric keypad is the arrow keys.

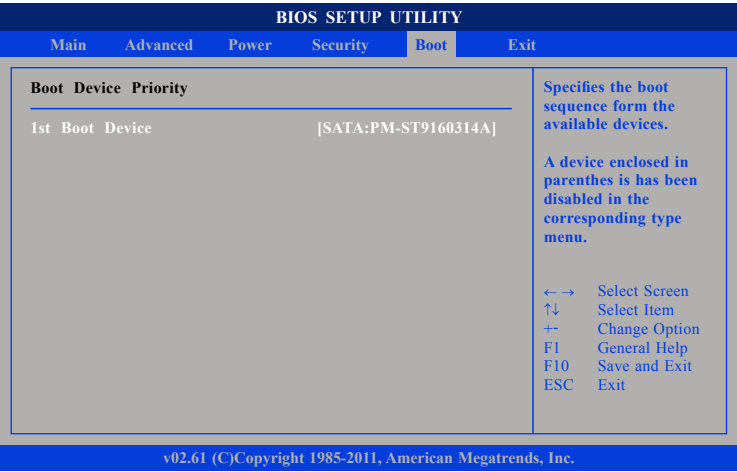
### Keyboard Error message display

This item allows you to enable or disable the “Keyboard Error” message during bootstrap.

### Hit 'DEL' Message Display

When enabled, the system displays the “Press DEL to run Setup” message during POST.

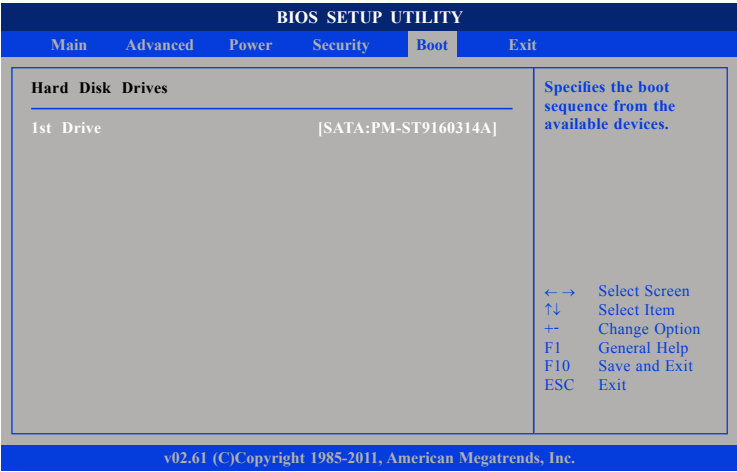
## Boot Device Priority



### 1st Boot Device

Specifies the boot sequence from the available devices. A device enclosed in parenthesis has been disabled in the corresponding type menu.

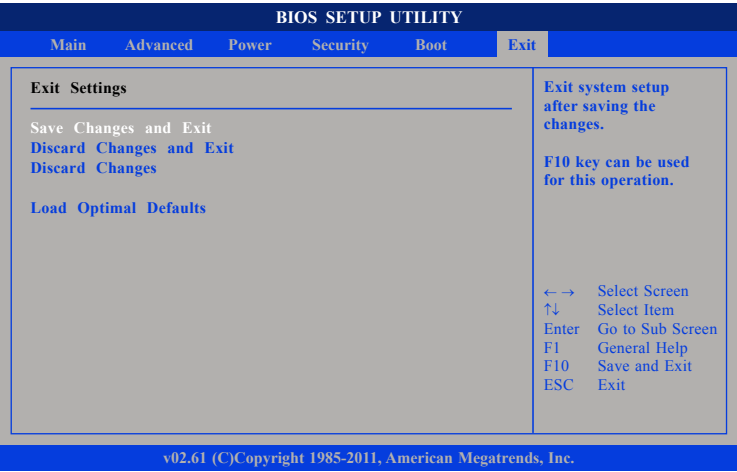
## Hard Disk Drives



### 1st Drive

Specifies the boot sequence from the available devices.

Exit



Save Changes and Exit

To save the changes and exit the Setup utility, select this field then press<Enter>. A dialog box will appear. Confirm by selecting Yes. You can also press <F10> to save and exit Setup.

Discard Changes and Exit

To exit the Setup utility without saving the changes, select this field then press <Enter>. You may be prompted to confirm again before exiting. You can also press <ESC> to exit without saving the changes.

Discard Changes

To discard the changes, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes to discard all changes made and restore the previously saved settings.

Load Optimal Defaults

Loads the optimal default values from the BIOS ROM.