ZOTAC

ZBOX

Giga

BLUETOOTH | GIGABIT LAN | 802.11n WiFi | HD AUDIO | CARD READER 4-in-1

USER'S MANUAL

ZOTAC ZBOX Giga
User's Manual

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, the manufacturer makes no guarantee regarding the accuracy of its contents, and reserves the right to make changes without prior notice.

CAUTION:
Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

Table of Contents

Product specifications

Chipset
- AMD A55

Product Dimensions
- 210mm x 210mm x 76.5mm

Microprocessor supports
- AMD A4-3300 (dual core, 2.5GHz)

Onboard graphics
- AMD HD 6410D
- Supports DirectX11
- HDMI output support

Memory supports
- Supports Dual Channel DDR3 1600/1333
- Maximum memory size: 8 GB

USB ports
- Six USB 2.0 ports & two USB 3.0 ports

Storage
- Supports two 2.5-inch SATA HDD or SSD

Network support
- Gigabit (10/100/1000Mbps) LAN
- IEEE 802.3 compatible

WiFi/Bluetooth support
- Compliant with IEEE802.11b/g/n standard
- Fully qualified Bluetooth v3.0

Audio
- 6 channel High Definition Audio

Operating System support
- Microsoft Windows 7
- 32-bit and 64-bit support

Green Function
- ACPI (Advanced Configuration and Power Interface) compatible

DVDRW Drive Support
- DVD read and write compliant, max speed: 8X
- CD read and write compliant, max speed: 24X
- Supports 8cm & 12cm diameter
- Supports SMART-X (Smart Monitoring & Adjusting Read-speed Technology for eXtraction) and Seamless Link® (Smart Monitoring & Adapting Recording Technology for Burning) function

Safety information

Your ZOTAC ZBOX Giga is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable surface with the provided stand. Never use the system alone without the stand.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0℃ and 35℃.
- If you use an extension cord, please use the UL listed cord and make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not function properly even if you follow the operating instructions.
  - The system was dropped or the cabinet is damaged.
  - The system performance changes.

Welcome

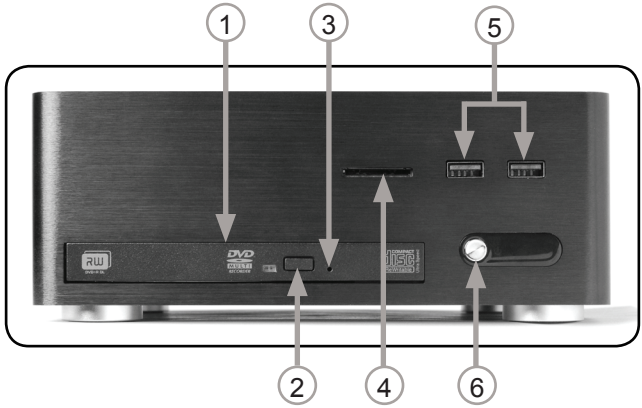
Congratulations on your purchase of the ZOTAC ZBOX Giga mini-PC. The following illustration displays the package contents of your new ZOTAC ZBOX Giga. Please contact your retailer If any of the below items are damaged or missed.

Package contents

- 1 x ZOTAC ZBOX Giga
- 1 x AC Adapter
- 1 x Power Cord
- 2 x WiFi Antennas
- 1 x Remote Control with 2 x CR2032 batteries
- 1 x USB Extended IR Receiver for Remote Control
- 1 x PowerDVD Software
- 1 x Support DVD
- 1 x User Manual & Warranty Card
- 1 x Quick Start Guide

Getting to know your ZOTAC ZBOX Giga

Front view



Refer to the diagram below to identify the components on this side of the system

1. Optical drive

The optical drive is a slot-in type drive which supports compact discs (CD), and digital video discs (DVD).

2. Optical drive eject button

The optical drive eject button ejects the disc from the optical drive.

3. DVD drive emergency eject

Users can use a pin to insert into the DVD drive emergency eject pin-hole to manually eject disc.

4. 6-in-1 Memory card slot

The built-in memory card reader reads and writes MMC/SD/SDHC/SDXC/MS/MS Pro cards used in devices such as digital cameras, MP3 players, mobile phones and PDAs.

5. USB 2.0 ports

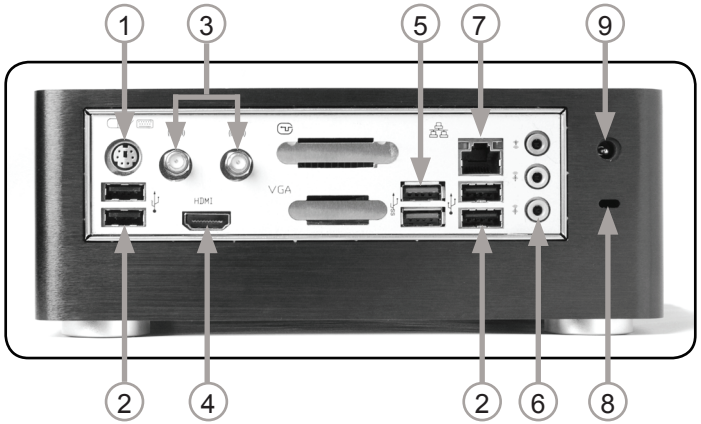
The USB (Universal Serial Bus) ports are compatible with USB devices such as keyboards, mice, cameras and hard disk drives.

6. Power switch

The power switch turns the mini-PC ON and OFF.

Note: The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.

Rear view



Refer to the diagram below to identify the components on this side of the system.

1. **PS2 Keyboard/Mouse port**
   The PS2 port is compatible with PS2 keyboard and PS2 mouse.
2. **USB 2.0 ports**
   The USB (Universal Serial Bus) ports are compatible with USB devices such as keyboards, mice, cameras and hard disk drives.
3. **WiFi antenna connector**
   The WiFi antenna connector supports WiFi antenna module.
4. **HDMI output**
   The HDMI (High Definition Multimedia Interface) output supports Full HD 1080p displays such as an HDTV or monitor.
5. **USB 3.0 ports**
   The USB 3.0 ports support the SuperSpeed USB 3.0 devices and are backwards compatible with USB 2.0/1.1 devices. Use the ports for USB 3.0 devices for maximum performance with USB 3.0 compatible devices.
6. **Audio ports**
   Use the audio ports to connect audio devices.
7. **Ethernet port**
   The eight-pin RJ-45 LAN port supports standard Ethernet cable for connection to a local area network (LAN) with speeds of 10/100/1000Mbps.
8. **Kensington Security Slot**
   Connects to compatible Kensington Security Lock.
9. **Power input (DC19V)**
   The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the mini-PC. To prevent damage to the mini-PC, always use the supplied power adapter.

Installing the memory module

1. Locate the ZBOX Giga and unscrew the four screws of the top cover.

2. Gently remove the cover as the image below.

3. Unlock a DIMM slot by pressing the module clips outward.

4. Align the memory module to the DIMM slot, and insert the module vertically into the DIMM slot. The plastic clips at both sides of the DIMM slot automatically lock the DIMM into the connector.

5. Reinstall the top cover with screws.

Installing the hard disk

1. Locate the bottom cover, remove the 8 screws, and remove the bottom cover.

2. Locate the hard disk bracket, remove the 2 screws, and remove the hard disk bracket as shown in the image below.

3. Install the hard disk bracket to a 2.5-inch SATA hard disk with 2 screws.

4. Insert the hard disk into the slot at a 45 degree angle.

5. Reinstall the screws of the hard disk bracket.

6. Insert the HDD data cable and the HDD power cable to the hard disk.

You can install two hard disks into the ZOTAC ZBOX Giga. Please refer to the following instructions for installing the 2nd hard disk.

1. Insert the hard disk into the slot at a 45 degree angle as the image below.

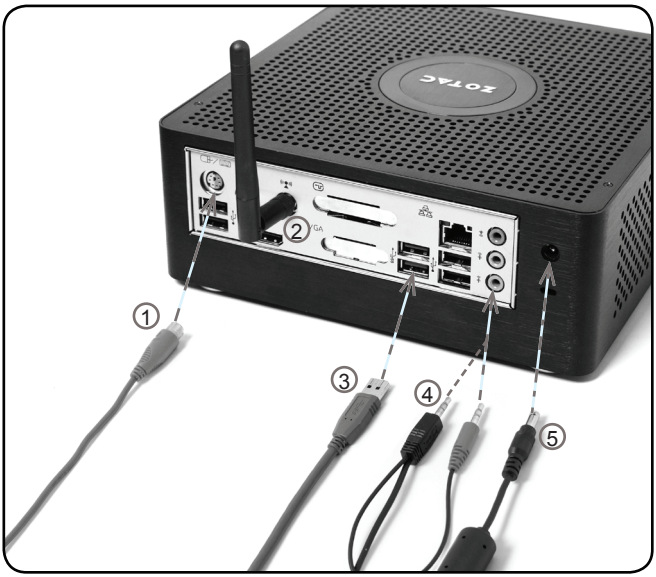
2. Install the hard disk to the slot with three screws.

3. Insert the HDD data cable and the HDD power cable to the hard disk.

4. Reinstall the bottom cover with screws.

Setting up the ZOTAC ZBOX Giga

Please connect the peripherals before using the ZOTAC ZBOX Giga.



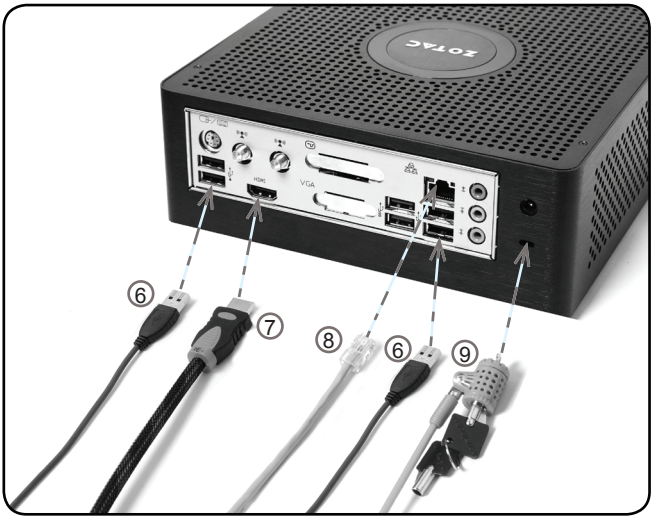
1. Connecting to PS2 Keyboard/Mouse
Connect a PS2 keyboard or PS2 mouse to the PS2 Keyboard/Mouse connector.

2. Connecting a WiFi antenna module
Connect a WiFi antenna module to the WiFi antenna connector. (Note: Connect two antennas for better WiFi/Bluetooth signal.)

3. Connecting USB 3.0 device
Connect USB 3.0 devices such as external hard drives, SSDs and flash drives to the USB 3.0 port.

4. Connecting audio ports
Connect audio devices (such as microphone, back surround and side surround) to the audio ports.

5. Turning on the system
Connect the supplied AC adapter to the DC IN jack on the system rear panel and then press the power switch on the front panel to turn on the system.
Note: When your ZOTAC ZBOX Giga is not in use, unplug the power adapter or switch off the AC outlet to conserve power.



6. Connecting USB 2.0 device
Connect USB 2.0 devices like wired/wireless keyboards (varying with areas), mouse devices, printers and external USB IR receiver to the USB 2.0 ports.

7. Connecting to an HDMI display
Connect one end of an HDMI cable to the HDMI port on the system rear panel and the other end to a HDMI-compatible display such as an HDTV or monitor. (When both the HDMI and the DP are connected, the audio output is from HDMI by default.)

8. Connecting to a home network
Connect one end of a network cable to the LAN port on the system rear panel and the other end to a network hub, switch or router.

9. Connecting to a Kensington security lock
Connect Kensington security lock to ZBOX Giga and lock.

Users please refer to the instructions below to use the Audio ports:

Port	*2-Channel*	*4-Channel*	*6-Channel*
Blue	Line-In	Rear Speaker Out	Rear Speaker Out
Green	Line-Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Center/Subwoofer

IR receiver

Enjoy more of your favorite entertainment by MCE (Media Center Edition) remote controller with USB IR receiver.

External USB IR receiver

Remote control

ZOTAC ZBOX Giga is shipped with a remote control. Follow the instructions below to use the remote control.

Function keys

Navigation Buttons

START, OK, BACK, INFORMATION

UP, DOWN, LEFT, RIGHT

Shortcut Buttons

GUIDE, SLEEP, WAKE

Audio and Video Buttons

VOLUME UP / DOWN, MUTE, CHANNEL UP / DOWN

Playback Buttons

RECORD, PAUSE, STOP

REW, PLAY, FWD, REPLAY, SKIP

Numeric Keypad

1	2	3
4	5	6
7	8	9
* ·	0	#

CLEAR ENTER

Teletext Buttons

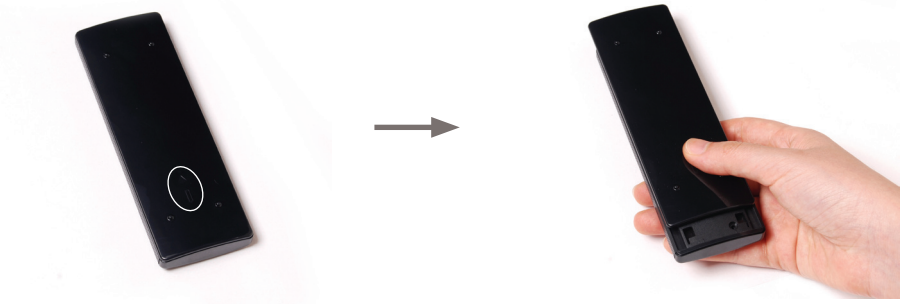
TELETEXT

RED, GREEN, YELLOW, BLUE

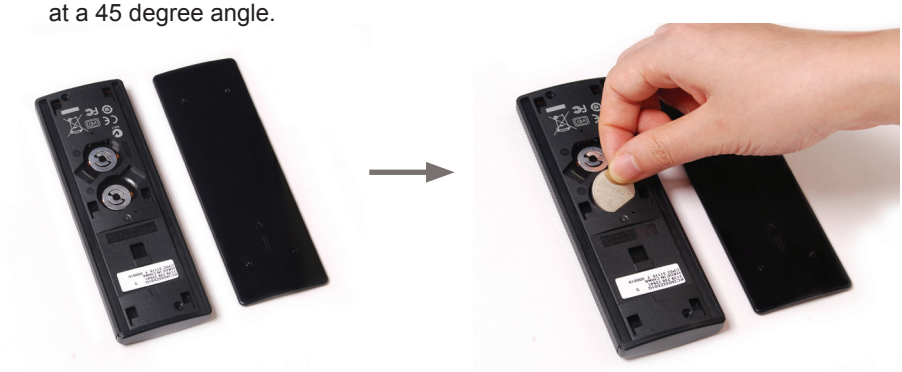
Note: Some remote control functions listed above are only available with the relative hardware equipments. If the hardware equipments you adopt are not compatible with the system, you are unable to use these functions. This product is designed to meet MCE standards.

Lithium cell installation

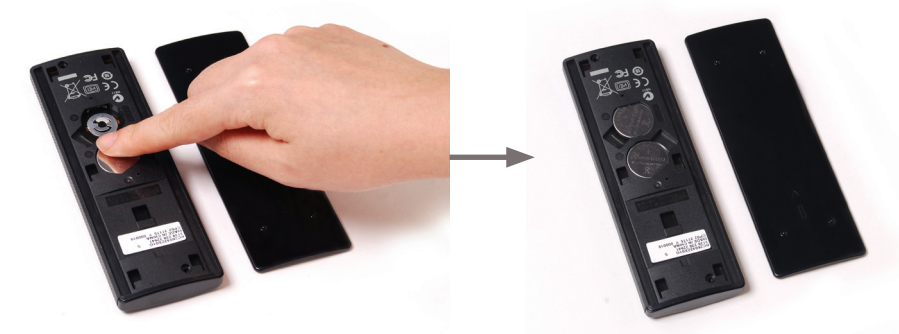
1. Locate the arrow ↑ on the rear cover of the remote control, and push the cover as the arrow direction.



2. Remove the rear cover, and insert the CR2032 lithium cells into the battery jar at a 45 degree angle.



3. Gently press down on the CR2032 lithium cells, and reinstall the rear cover.



Installing drivers and software

Installing an operating system

The ZOTAC ZBOX Giga does not ship with an operating system preinstalled. An operating system must be installed before the ZOTAC ZBOX Giga can be used. The following operating systems are supported:

- Windows 7

Follow the instructions below to install an operating system:

1. Insert disk for operating system into the optical drive.
2. Wait for the ZOTAC ZBOX Giga to boot from the disk.
3. Follow the onscreen directions to install the operating system.
4. Install system drivers to gain full functionality of the ZOTAC ZBOX Giga hardware and features.

Installing system drivers

Before you can use the full features of the ZOTAC ZBOX Giga, the system drivers must be installed. The following types of operating systems are supported by the ZOTAC ZBOX Giga driver DVD:

- Windows 7

Follow the instructions below to install the system drivers:

1. Insert the ZOTAC ZBOX Giga driver DVD. If autorun is enabled, the driver installation main menu will show up automatically.

   Note: If autorun is disabled, you can click the file Launch.EXE to bring up the driver installation main menu.

2. The following drivers are available on the DVD:
   - AMD Chipset Driver
   - Realtek HD Audio Driver
   - Realtek Network Driver
   - Etron USB 3.0 Driver
   - MassStorage Driver
   - Azurewave WIFI Driver
   - Bluetooth Driver

   Note: Each driver must be installed individually to ensure proper operation of the ZOTAC ZBOX Giga.
3. Select the driver you want to install. The driver installer should launch.
4. Follow the onscreen instructions for the selected driver to install.
5. Restart the system.

Using your ZOTAC ZBOX Giga

Configuring wireless connection

Please follow the instructions below to connect to a wireless network:

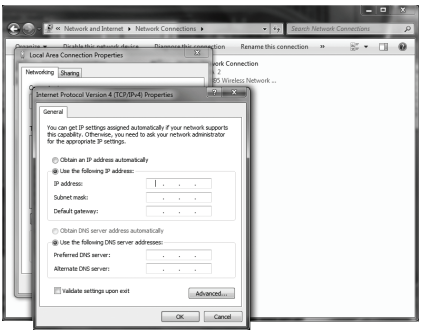
1. Double-click the crossed wireless network icon (pic) in the notification area.
2. Select the wireless network you want to connect to from the list and click Connect.
3. After connection was established, you will see “Connected”.

   Note 1: For security concerns, Do NOT connect to an unsecured network, otherwise, the transmitted information without encryption might be visible to others.

   Note 2: Enter the network security key if necessary.

Configuring wired connection

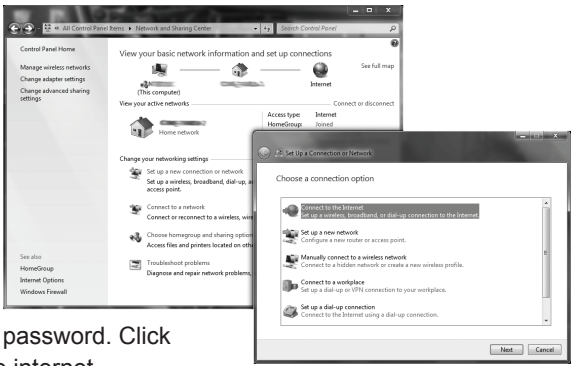
Using a static IP



1. Right-click the network icon in the notification area and select “Open Network Connections”.
2. Right-click “Local Area Connection” and select “Properties”.
3. Highlight “Internet Protocol (TCP/IP)” and click “Properties”.
4. Select “Use the following IP address”.
5. Enter your IP address, subnet mask and Default gateway.
6. Enter the preferred DNS server address if necessary.
7. After entering all of the related values, click “OK” to finish the configuration.

Using a dynamic IP (PPPoE connection)

1. Repeat Step 1-3 in the previous section.
2. Select “Obtain an IP address automatically” and click “OK”.
3. Click “Create a new connection” to start the NEW Connection Wizard.
4. Click “Next”.
5. Select “Connect to the Internet” and click “Next”.
6. Select “Set up my connection manually”.
7. Select your connection type and click “Next”.
8. Enter your ISP Name and click “Next”.
9. Enter your User name and Password. Click “Next”.
10. Click “Finish” to finish the configuration.
11. Enter your user name and password. Click “Connect” to connect to the internet.

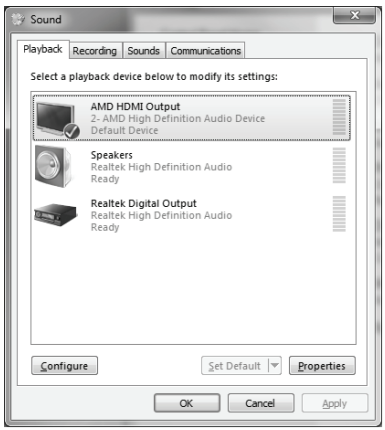


Note: Contact your internet Service Provider (ISP) if you have problems connecting to the network.

Configuring audio output via an HDMI device

Follow the steps below to enable audio output via HDMI when connecting the ZOTAC ZBOX Giga to a TV or receiver via HDMI.

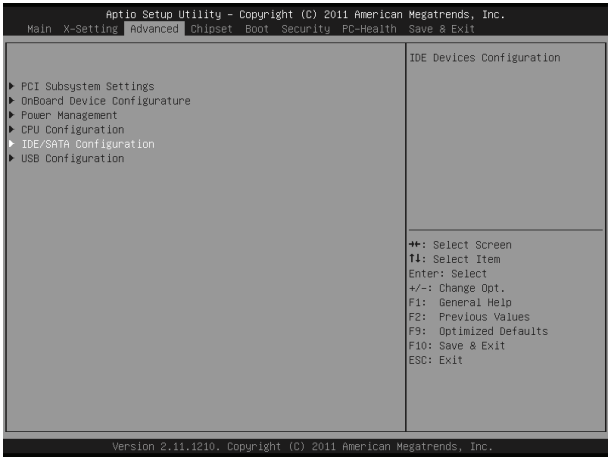
1. Access the Sound settings via the system Control Panel.
2. Under Playback devices, click “AMD HDMI Output”.
3. Click the “Set as Default” in the lower right hand corner.
4. Click “OK” to exit the setup.



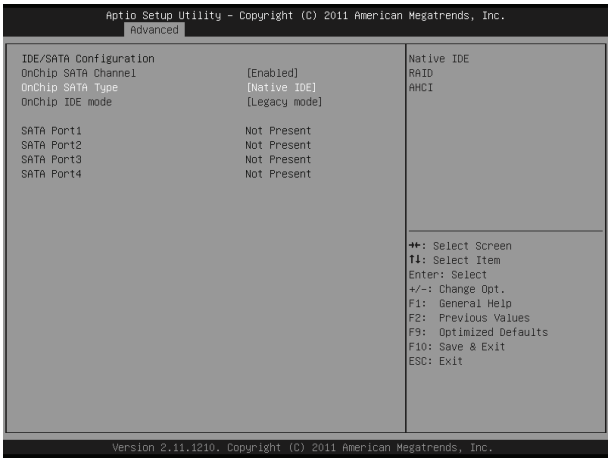
SATA RAID User Manual

Setting up the BIOS

1. Setting your computer, then press <Delete> to enter BIOS SETUP UTILITY.
2. Use the arrow key to select Advanced menu. When enter the Advanced menu, select the Item "**IDE/SATA Configuration**".



3. Press <Enter> to display **IDE/SATA Configuration**, then select the item "***OnChip SATA Type***".



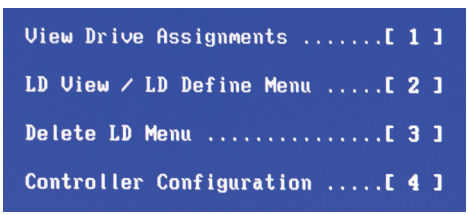
4. Press <Enter> and enable the option "***RAID***".

5. Enable the disks that you want to use as RAID disks.
6. Press F10 to save the configuration and exit. The PC reboots.
7. Enter the RAID BIOS Setup by pressing F10 when prompted, and proceed to set up the RAID BIOS as described in the next Section.

Entering the RAID BIOS Setup

1. After rebooting your computer, wait until you see the RAID software prompting you to press <Ctrl-F>.

2. **Option ROM Utility (c) 2009 Advanced Micro Devices, Inc.-Main Menu** window appears.

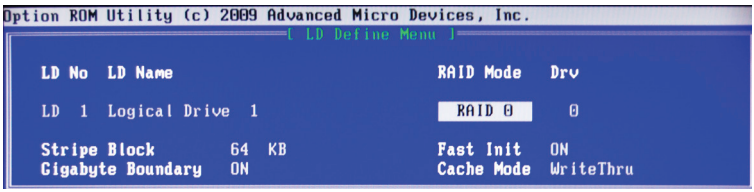


Creating a RAID set

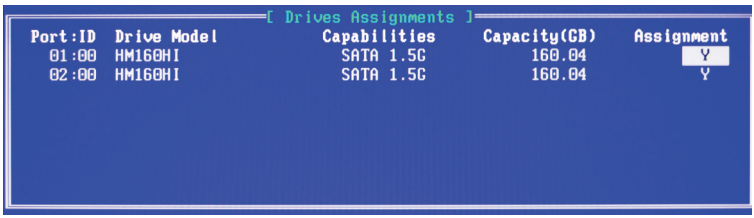
1. In **Main Menu**, select <2> to enter **LD View Menu**, and press <Ctrl-C> to enter **LD Define Menu**.

a. In the RAID Mode field, use the space bar to select a RAID Mode. The supported RAID modes include Mirroring (RAID 1) and Striping (RAID 0). The following is an example of RAID 0 array creation.

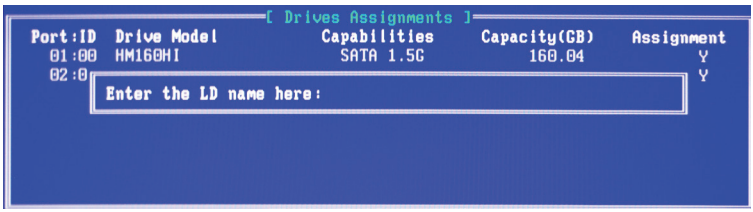
b. If RAID 0 (Striping) is selected, you can manually set the striping block size. In the Striping Block field, use the UP or DOWN ARROW key to set the Striping Block size. The KB is standard unit of Striping Block size. We recommend you leaving it to the default setting-Optimal (64k). The size range is from 4k to 128k.



2. In **Drives Assignments** menu, use the space bar to select <Y>, and press <Ctrl-Y>.



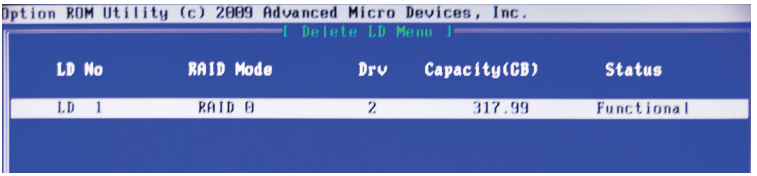
3. Enter the LD name.



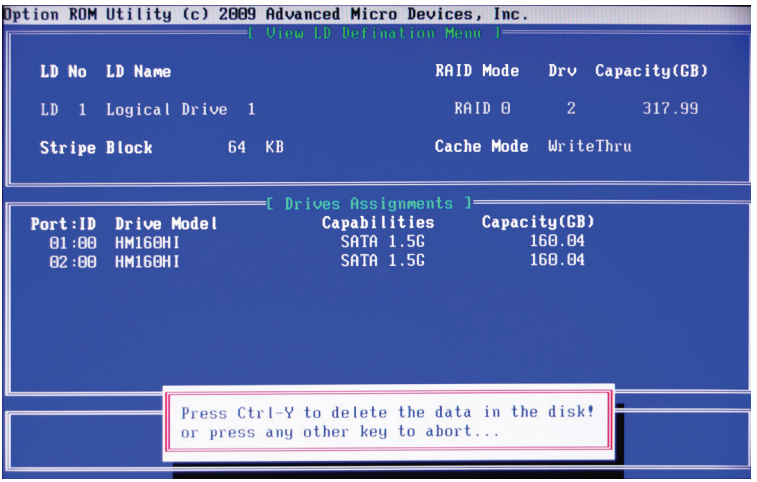
4. Modify Array Capacity, and press <Ctrl-Y> to save the modification. When the setup is finished, press <Esc> to exit the RAID interface. After the PC reboots, the RAID controller will display the ready RAID.

Deleting a RAID set

1. In **Main Menu**, select <3> to enter **Delete LD Menu**, and select the RAID you want to delete.

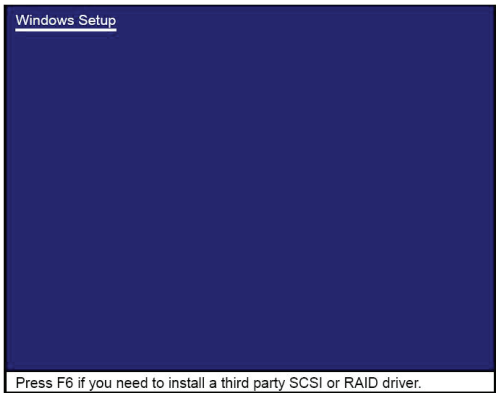


2. Press <Ctrl-Y> to delete the RAID, or press any other key to abort.

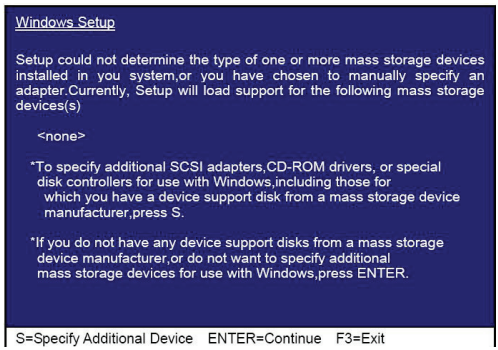


Installing the RAID Drivers

1. After you complete the RAID BIOS setup, boot from the windows disk. The Windows Setup program starts.

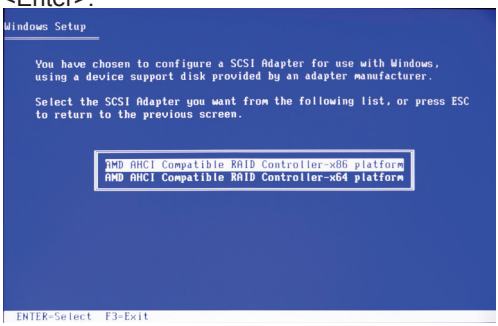


2. Press F6 and wait a few moments for the Windows Setup screen to appear.



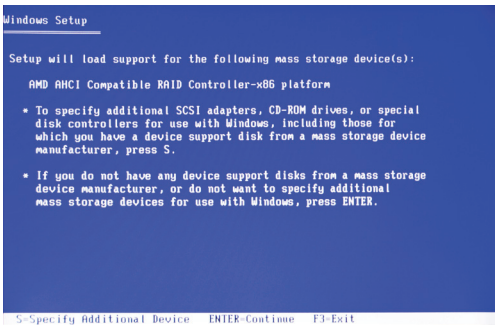
3. Specify the AMD drivers.

a. Insert the floppy that has the RAID driver, and select the SCSI Adapter, then press <Enter>.



b. When the window below display, press <S> to use the driver on floppy.

c. Press <Enter> to continue the windows setup.



ZOTAC®

It's Time to Play

WWW.ZOTAC.COM