MZJ19AI

Intel® J1900 Processor Motherboards

User's Manual

Rev. 1001

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Documentation Classifications

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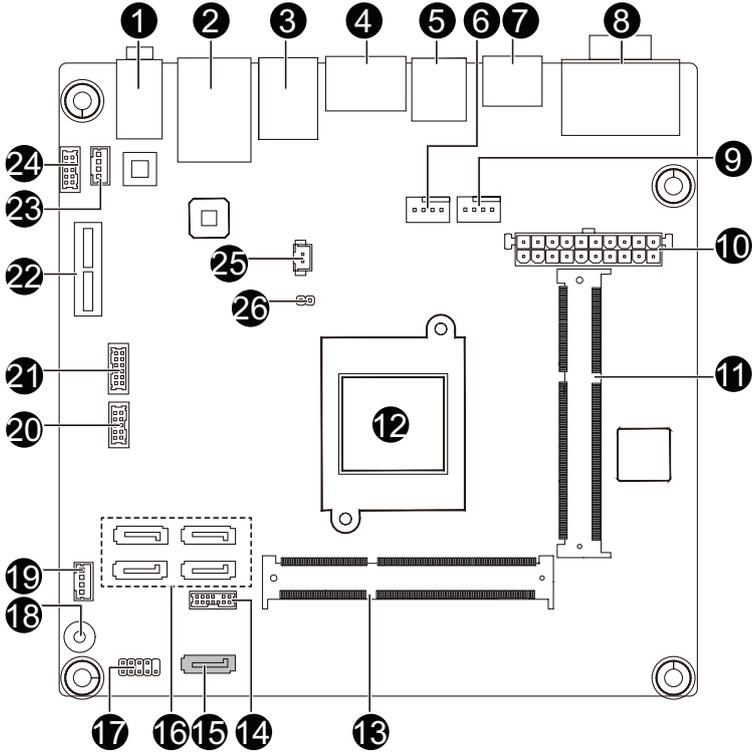- ■ For detailed product information, carefully read the User's Manual.

For product-related information, check on our website at:

http://www.gigabyte.com

Table of Contents

MZJ19AI Motherboard Layout

Item	Code	Description
1	AUDIO	Audio connectors
2	USB_LAN	LAN port (top)/USB 2.0 ports (buttom)
3	LAN	LAN port
4	ESATA_CON	eSATA connector
5	RUSB30	USB 3.0 port
6	CPU_FAN	CPU fan connector
7	HDMI	HDMI port
8	VGA_COM1	Serail port (top)/VGA port (buttom)
9	SYS_FAN	System fan connector
10	ATX	20 pin power connector
11	SODIMM1	DDR3 SO-DIMM slot
12	U1	Intel SoC J1900 processor
13	SODIMM12	DDR3 SO-DIMM slot
14	TPM_LPC	TPM module connector
15	PWR_SATA	SATA 3Gb/s connector (Support SATA DOM function)
16	SATA1/2/3/4	SATA 6Gb/s connectors
17	F_PANEL	Front panel header
18	BUZZER	Buzzer
19	F_USB	USB 2.0 header
20	SATA_LED	SATA LED GPIO connector
21	GPIO_CNT	GPIO connector
22	PCIEX1	PCI Express x1 slot
23	SPK_OUT	Speaker out connector
24	F_AUDIO	Front audio header
25	BAT_CON	Battery cable connector
26	CLR_CMOS	Clear CMOS jumper

Chapter 1   Hardware Installation

1-1   Installation Precautions

The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Prior to installation, carefully read the user's manual and follow these procedures:

- Prior to installation, do not remove or break motherboard S/N (Serial Number) sticker or warranty sticker provided by your dealer. These stickers are required for warranty validation.
- Always remove the AC power by unplugging the power cord from the power outlet before installing or removing the motherboard or other hardware components.
- When connecting hardware components to the internal connectors on the motherboard, make sure they are connected tightly and securely.
- When handling the motherboard, avoid touching any metal leads or connectors.
- It is best to wear an electrostatic discharge (ESD) wrist strap when handling electronic components such as a motherboard, CPU or memory. If you do not have an ESD wrist strap, keep your hands dry and first touch a metal object to eliminate static electricity.
- Prior to installing the motherboard, please have it on top of an antistatic pad or within an electrostatic shielding container.
- Before unplugging the power supply cable from the motherboard, make sure the power supply has been turned off.
- Before turning on the power, make sure the power supply voltage has been set according to the local voltage standard.
- Before using the product, please verify that all cables and power connectors of your hardware components are connected.
- To prevent damage to the motherboard, do not allow screws to come in contact with the motherboard circuit or its components.
- Make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing.
- Do not place the computer system on an uneven surface.
- Do not place the computer system in a high-temperature environment.
- Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user.
- If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician.

1-2 Product Specifications

CPU	◆	Support for Intel® Celeron® J1900 (2.0 GHz) processor
	◆	TDP 10W
	◆	Fan-less design
	◆	L1/L2 cache varies with CPU
Memory	◆	2 x SO-DIMM slots support 1.35V DDR3L 1333MHz
	◆	Support up 8GB
Audio	◆	Realtek® ALC269 codec
	◆	High Definition Audio
	◆	2 channel
LAN	◆	2 x Intel I210 GbE controllers supports 10/100/1000 Mbps
Expansion Slots	◆	1 x PCI Express x1 slot (Gen 2)
Onboard Graphics	◆	Intel® HD Graphics
Storage Interface	◆	1 x SATA 3Gb/s connector (Support SATA DOM function)
	◆	4 x SATA 6Gb/s connectors (From Marvell 88SE9230)
	◆	1 x eSATA 3Gb/s connector
USB	◆	3 USB 2.0 ports (2 on the back panel, 1 onboard)
	◆	1 x USB 3.0 port on the back panel
Internal Connectors	◆	1 x 20 pin ATX power connector
	◆	1 x SATA 3Gb/s connector
	◆	4 x SATA 6Gb/s connector
	◆	1 x CPU fan header
	◆	1 x System fan header
	◆	1 x Front panel header
	◆	1 x Front Panel Audio header
	◆	1 x USB 2.0 header
	◆	1 x TPM module connector
	◆	1 x GPIO connector
	◆	1 x Speaker out header
Back Panel Connectors	◆	1 x VGA port
	◆	1 x Serial port
	◆	1 x HDMI port
	◆	1 x USB3.0 port
	◆	1 x eSATA port
	◆	2 x USB 2.0 ports
	◆	2 x RJ-45 ports
	◆	2 x Audio connectors
I/O Controller	◆	iTE IT8786E chip

Hardware Monitor	◆	System voltage detection
	◆	CPU/System temperature detection
	◆	CPU/System fan speed control
		* Whether the CPU/system fan speed control function is supported will depend on the CPU/system cooler you install.
BIOS	◆	AMI BIOS
Form Factor	◆	Mini ITX Form Factor; 170CM x 170CM

GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice.

1-3   Installing the Memory

Read the following guidelines before you begin to install the memory:
- Make sure that the motherboard supports the memory. It is recommended that memory of the same capacity, brand, speed, and chips be used.
- Always turn off the computer and unplug the power cord from the power outlet before installing the memory to prevent hardware damage.
- Memory modules have a foolproof design. A memory module can be installed in only one direction. If you are unable to insert the memory, switch the direction.

1-3-1   Installing a Memory

Installation Step:

Step 1.   Align the memory with the SO-DIMM module and insert the SO-DIMM memory module into the SO-DIMM slot.
Please note that memory module has a foolproof insertion design. A memory module can be installed In only one direction.
Step 2.   Push the memory and seat it firmly.
Step 3.   Reverse the installation steps when you wish to remove the SO-DIMM module.
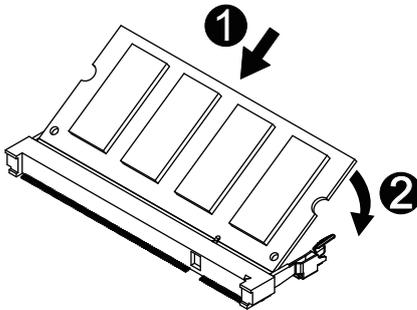
1-4   Back Panel Connectors
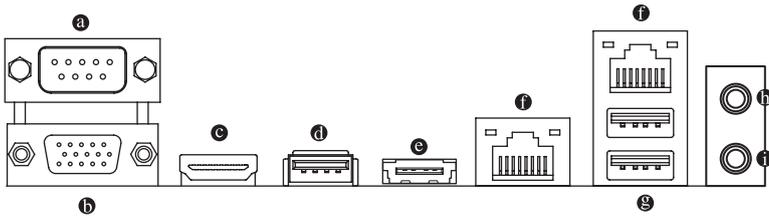
ⓐ Serial Port

Connects to serial-based mouse or data processing devices.

ⓑ Video Port

The video in port allows connect to video in, which can also apply to video loop thru function.

ⓒ HDMI Port

The HDMI (High-Definition Multimedia Interface) provides an all-digital audio/video interface to transmit the uncompressed audio/video signals and is HDCP compliant. Connect the HDMI audio/video device to this port. The HDMI Technology can support a maximum resolution of 1920x1080p but the actual resolutions supported depend on the monitor being used.

> • When After installing the HDMI device, make sure the default device for sound playback is the HDMI device. (The item name may differ by operating system. Refer the figures below for details.), and enter BIOS Setup, then set Onboard VGA output connect to D-SUB/HDMI under Advanced BIOS Features..
>
> • Please note the HDMI audio output only supports AC3, DTS and 2-channel-LPCM formats. (AC3 and DTS require the use of an external decoder for decoding.)

ⓓ USB 3.0 Port

The USB port supports the USB 3.0 specification. Use this port for USB devices such as a USB keyboard/mouse, USB printer, USB flash drive and etc.

ⓔ eSATA 3Gb/s Connector

The eSATA 6Gb/s port conforms to SATA 6Gb/s standard and is compatible with SATA 3Gb/s and SATA 1.5Gb/s standard. Use the port to connect an external SATA device or a SATA port multiplier.

ⓕ RJ-45 LAN Port

The Gigabit Ethernet LAN port provides Internet connection at up to 1 Gbps data rate. The following describes the states of the LAN port LEDs.

ⓖ USB 2.0 Port

The USB port supports the USB 2.0 specification. Use this port for USB devices such as a USB keyboard/mouse, USB printer, USB flash drive and etc.

ⓗ Line Out Jack (Green)

The default line out jack. Use this audio jack for a headphone or 2-channel speaker. This jack can be used to connect front speakers in a 4/5.1/7.1-channel audio configuration.

ⓘ MIC In (Pink)

The default MIC In jack. Microphone cab be connected to MIC In jack.
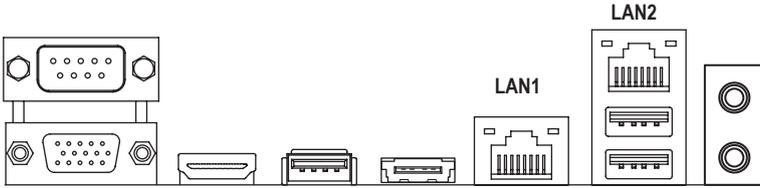
LAN LED Description for LAN1
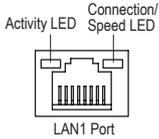
LAN1 Port

Connection/Speed LED:

State	Description
Orange	1 Gbps data rate
Green	100 Mbps data rate
Off	10 Mbps data rate

Activity LED:

State	Description
Blinking	Data transmission or receiving is occurring
Off	No data transmission or receiving is occurring

LAN LED Description for LAN2
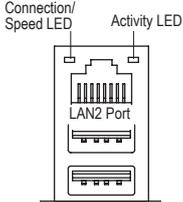
LAN2 Port

Connection/Speed LED:

State	Description
Orange	1 Gbps data rate
Green	100 Mbps data rate
Off	10 Mbps data rate

Activity LED:

State	Description
Blinking	Data transmission or receiving is occurring
Off	No data transmission or receiving is occurring

• When removing the cable connected to a back panel connector, first remove the cable from your device and then remove it from the motherboard.
• When removing the cable, pull it straight out from the connector. Do not rock it side to side to prevent an electrical short inside the cable connector.

1-5   Internal Connectors
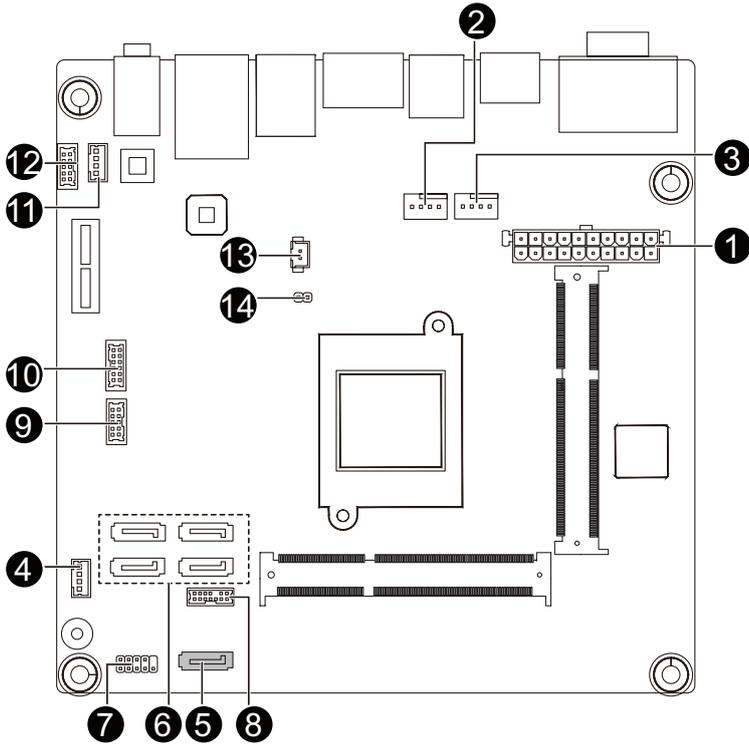
1)	ATX	8)	TPM_LPC
2)	CPU_FAN	9)	SATA_LED
3)	SYS_FAN	10)	GPIO_CNT
4)	F_USB	11)	SPK_OUT
5)	PWR_SATA	12)	F_AUDIO
6)	SATA1/2/3/4	13)	BAT_CON
7)	F_PANEL	14)	CLR_CMOS

Read the following guidelines before connecting external devices:
- First make sure your devices are compliant with the connectors you wish to connect.
- Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.
- After installing the device and before turning on the computer, make sure the device cable has been securely attached to the connector on the motherboard.

1) ATX (2x4 12V Power Connector and 2x12 Main Power Connector)

With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, first make sure the power supply is turned off and all devices are properly installed. The power connector possesses a foolproof design. Connect the power supply cable to the power connector in the correct orientation. The 12V power connector mainly supplies power to the CPU. If the 12V power connector is not connected, the computer will not start.

To meet expansion requirements, it is recommended that a power supply that can withstand high power consumption be used (500W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable or unbootable system.
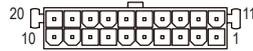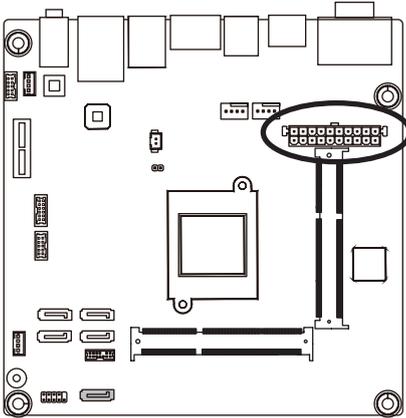
Pin No.	Definition	Pin No.	Definition
1	3.3V	11	3.3V
2	3.3V	12	-12VV
3	GND	13	GND
4	+5V	14	PS_ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	Power Good	18	-5V
9	5VSB (stand by +5V)	19	+5V
10	+12V	20	+5V

2/3) CPU_FAN/SYS_FAN (CPU Fan/System Fan Header)

The motherboard has one 4-pin CPU fan header, and one 4-pin system fan header. Most fan headers possess a foolproof insertion design. When connecting a fan cable, be sure to connect it in the correct orientation (the black connector wire is the ground wire). The motherboard supports CPU fan speed control, which requires the use of a CPU fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis.
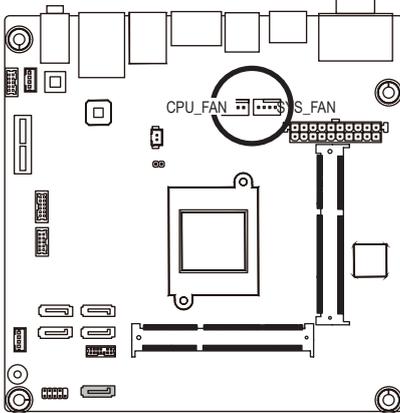
Pin No.	Definition
1	GND
2	+12V
3	Sense
4	Speed Control

- Be sure to connect fan cables to the fan headers to prevent your CPU and system from overheating. Overheating may result in damage to the CPU or the system may hang.
- These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers.

4) F_USB (USB Header)

The headers conform to USB 2.0 specification.
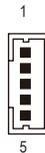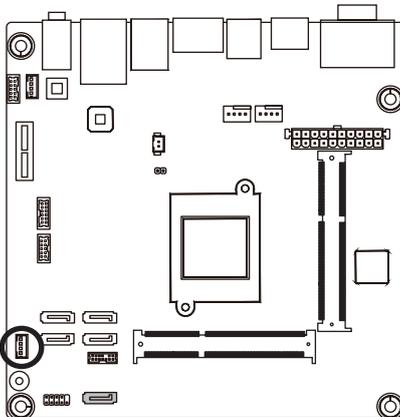
Pin No.	Definition
1	GND
2	GND
3	+FUSBP2
4	-FUSBP2
5	VCC

5) PWR_SATA (SATA 3Gb/s Connector/Support SATA DOM Function)

The SATA connectors conform to SATA 3Gb/s standard and are compatible with 1.5Gb/s standard. Each SATA connector supports a single SATA device.
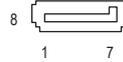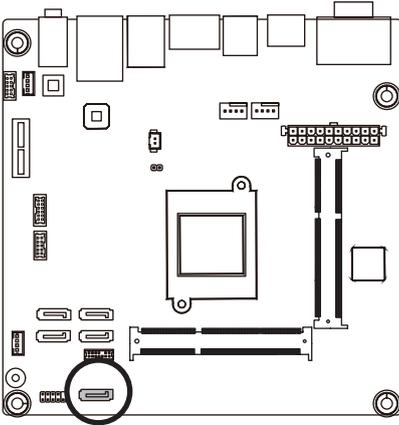
Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND
8	5V

6) SATA1/SATA2/SATA3/SATA4 (SATA 6Gb/s Connectors)

The SATA connectors conform to SATA 6Gb/s standard and are compatible with SATA 3Gb/s and 1.5Gb/s standard. Each SATA connector supports a single SATA device.
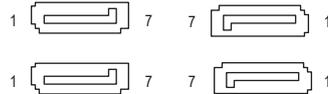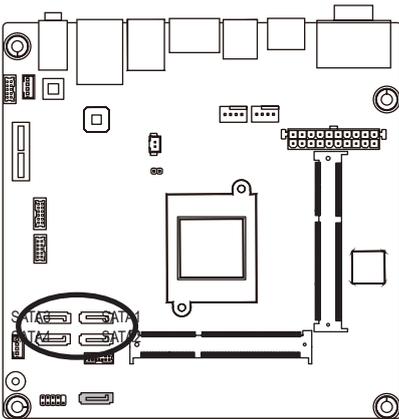
Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

7) F_PANEL (Front Panel Header)

Connect the power switch, reset switch, speaker, and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.
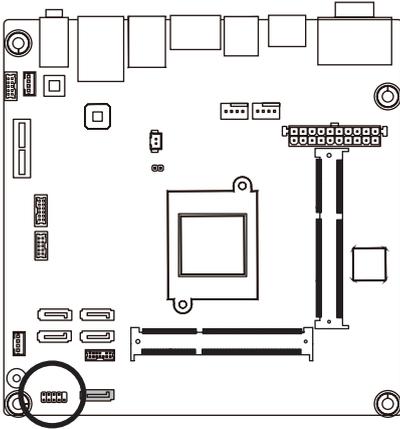
Pin No.	Signal Name	Definition
1	HD+	Hard Disk LED Signal anode (+)
2	MPD+	Power LED Signal anode (+)
3	HD-	Hard Disk LED Signal cathode(-)
4	GND	Ground
5	GND	Ground
6	PW+	Power Button anode (+)
7	RST+	Reset Button
8	GND	Ground
9	NC	No connect
10	NC	No Pin

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

8) TPM_LPC (TPM Module Connector)
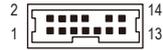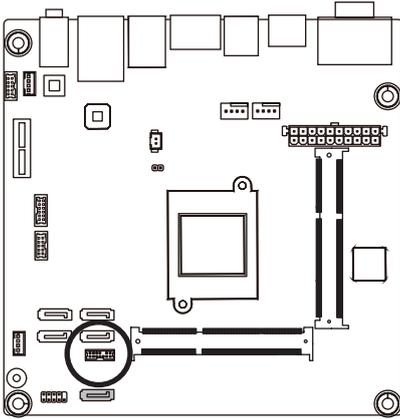
Pin No.	Definition
1	-SIO_PCIRST
2	3VDUAL
3	DB_LPC25
4	VCC3
5	LAD0
6	SERIRQ_N
7	LAD1
8	NC
9	LAD2
10	No Pin
11	LAD3
12	GND
13	-LFRAME
14	GND

9) SATA_LED (SATA LED GPIO connector)
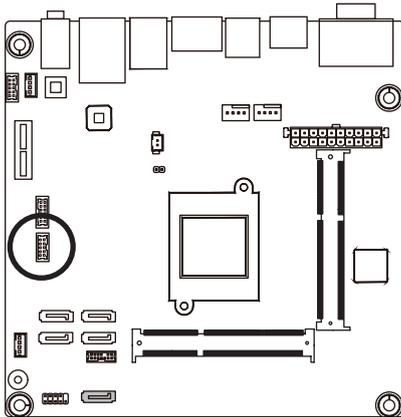
Pin No.	Definition
1	HDD_ACT
2	VCC3
3	-SATA1_LED
4	VCC3
5	SATA2_LED
6	VCC3
7	SATA3_LED
8	VCC3
9	SATA4_LED
10	VCC3

10) GPIO_CNT (GPIO connector)
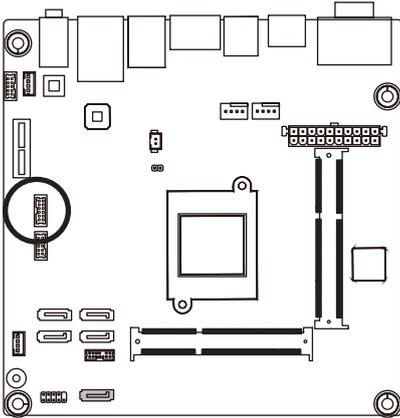
Pin No.	Definition
1	SOGP0_1
2	SOGPI_1
3	SOGP0_2
4	SOGPI_2
5	SOGP0_3
6	SOGPI_3
7	SOGP0_4
8	SOGPI_4
9	SMCLK_N
10	SMDATA_N
11	+5V
12	GND

11) SPK_OUT (Audio Amplifier Connector)
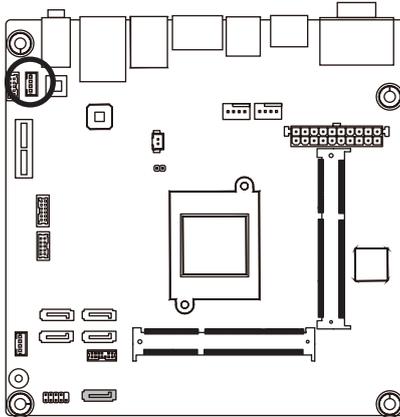
Pin No.	Definition
1	OUT_R+
2	OUT_R-
3	OUT_L-
4	OUT_L+

12) F_AUDIO (Front Panel Audio Header)

The front panel audio header supports Intel High Definition audio (HD) and AC'97 audio. You may connect your chassis front panel audio module to this header. Make sure the wire assignments of the module connector match the pin assignments of the motherboard header. Incorrect connection between the module connector and the motherboard header will make the device unable to work or even damage it.
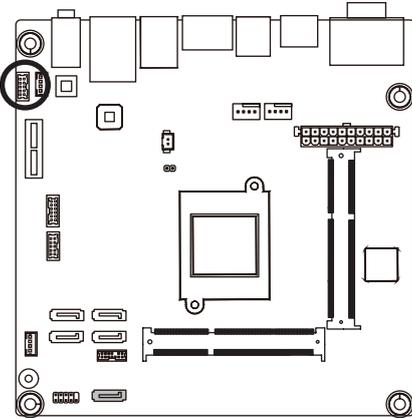
Pin No.	Definition
1	MIC_L
2	GND
3	MIC_R
4	-ACZ_DET
5	HPOUT_R
6	GND
7	FAUDIO_J
8	NC
9	HPOUT_L
10	GND

13) BATCON (Battery Cable Connector)

The battery provides power to keep the values (such as BIOS configurations, date, and time information) in the CMOS when the computer is turned off. Replace the battery when the battery voltage drops to a low level, or the CMOS values may not be accurate or may be lost.
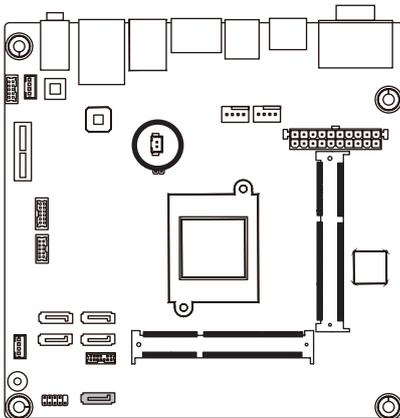
Pin No.	Definition
1	RTC Reset
2	GND

• Always turn off your computer and unplug the power cord before replacing the battery.
• Replace the battery with an equivalent one. Danger of explosion if the battery is replaced with an incorrect model.
• Contact the place of purchase or local dealer if you are not able to replace the battery by yourself or uncertain about the battery model.
• Used batteries must be handled in accordance with local environmental regulations.

14) CLR_CMOS (Clearing CMOS Jumper)

Use this jumper to clear the CMOS values (e.g. date information and BIOS configurations) and reset the CMOS values to factory defaults. To clear the CMOS values, place a jumper cap on the two pins to temporarily short the two pins or use a metal object like a screwdriver to touch the two pins for a few seconds.
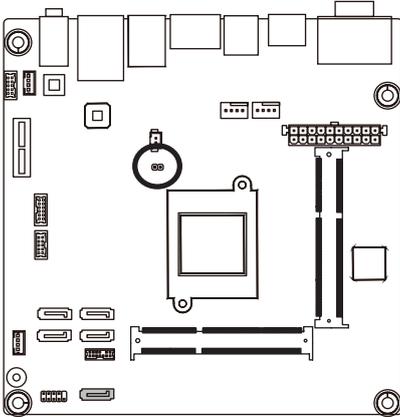
Open: Normal operation (Default setting)

Close: Clear CMOS data

Chapter 2   BIOS Setup

BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

To access the BIOS Setup program, press the <DEL> key during the POST when the power is turned on.

<table>
<tr><td>⚠</td><td>
• BIOS flashing is potentially risky, if you do not encounter problems of using the current BIOS version, it is recommended that you don't flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
• It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results. Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values. (Refer to the "Restore Defaults" section in this chapter or introductions of the battery/clearing CMOS jumper in Chapter 1 for how to clear the CMOS values.)
</td></tr>
</table>

BIOS Setup Program Function Keys

<↑><↓>	Move the selection bar to select an item
<←><→>	Move the selection bar to select the screen
<Enter>	Execute command or enter the submenu
<Esc>	Main Menu: Exit the BIOS Setup program
	Submenus: Exit current submenu
<+>	Increase the numeric value or make changes
<->	Decrease the numeric value or make changes
<F1>	General Help
<F2>	Restore the previous BIOS settings for the current submenus
<F3>	Load the Optimized BIOS default settings for the current submenus
<F4>	Save all the changes and exit the BIOS Setup program

■ **Main**

This setup page includes all the items in standard compatible BIOS

■ **Advanced**

This setup page includes all the items of AMI BIOS special enhanced features.

(ex: Auto detect fan and temperature status, automatically configure hard disk parameters.)

■ **Chipset**

Northbridge and Southbridge additional features configuration.

■ **Boot**

This setup page provides items for configuration of boot sequence.

■ **Security**

Change, set, or disable supervisor and user password. Configuration supervisor password allows you to restrict access to the system and BIOS Setup.

A supervisor password allows you to make changes in BIOS Setup.

A user password only allows you to view the BIOS settings but not to make changes.

■ **Save & Exit**

Save all the changes made in the BIOS Setup program to the CMOS and exit BIOS Setup.

Abandon all changes and the previous settings remain in effect. Pressing <Y> to the confirmation message will exit BIOS Setup. (Pressing <Esc> can also carry out this task.)

2-1 The Main Menu

Once you enter the BIOS Setup program, the Main Menu (as shown below) appears on the screen. Use arrow keys to move among the items and press <Enter> to accept or enter other sub-menu.

Main Menu Help

The on-screen description of a highlighted setup option is displayed on the bottom line of the Main Menu.

Submenu Help

While in a submenu, press <F1> to display a help screen (General Help) of function keys available for the menu. Press <Esc> to exit the help screen. Help for each item is in the Item Help block on the right side of the submenu.

- When the system is not stable as usual, select the **Restore Defaults** item to set your system to its defaults.
- The BIOS Setup menus described in this chapter are for reference only and may differ by BIOS version.

```
                    Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.     [ESC] [⌨]
    Main  Advanced  Chipset  Security  Boot  Save & Exit

    BIOS Information                                          Set the Time. Use Tab to
                                                              switch between Time elements.
    Project Name                    MZJ19AI-SI
    BIOS Version                    E3e
    Build Date and Time             01/12/2015 16:01:46

    LAN1 MAC Address                74-D4-35-EF-3B-C0
    LAN2 MAC Address                74-D4-35-EF-3B-C1

    Memory Information
    Total Memory                    4096 MB (LPDDR3)

    TXE FW Version                  01.01.00.1089
                                                              →←: Select Screen
    System Date                     [Fri 01/16/2015]          ↑↓/Click: Select Item
    System Time                     [03:23:09]                Enter/Dbl Click: Select
                                                              +/-: Change Opt.
                                                              F1: General Help
                                                              F2: Previous Values
                                                              F3: Optimized Defaults
                                                              F4: Save & Exit
                                                              ESC/Right Click: Exit


                    Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.       ▶
```

☞ **BIOS Information**

☞ **Project Name**

Display name of the project.

☞ **BIOS Version**

Display version number of the BIOS.

☞ **BIOS Build Date and Time**

Displays the date and time when the BIOS setup utility was created.

☞ **LAN1/LAN2 MAC Address**

Displays the LAN1 and LAN2 MAC address information.

☞ **Memory Information**

☞ **Total Memory**

Display the total memory size of the installed memory.

☞ **TXE FW Version**

Display the TXE firmware version.

☞ **System Date**

Set the date following the weekday-month-day- year format.

☞ **System Time**

Set the system time following the hour-minute- second format.

2-2 Advanced Menu

The Advanced menu display submenu options for configuring the function of various hardware components. Select a submenu item, then press Enter to access the related submenu screen.

```
            Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc.      ESC
      Main  Advanced  Chipset  Security  Boot  Save & Exit

   ▶ Super IO Configuration                              System Super IO Chip
   ▶ Hardware Monitor                                    Parameters.
   ▶ S5 RTC Wake Settings
   ▶ CPU Configuration
   ▶ SATA Configuration
   ▶ CSM Configuration
   ▶ Trusted Computing

   ▶ Intel(R) I210 Gigabit  Network Connection – 74:D4:35:EF:...
   ▶ Intel(R) I210 Gigabit  Network Connection – 74:D4:35:EF:...
   ▶ Driver Health

                                                         ↔: Select Screen
                                                         ↑↓/Click: Select Item
                                                         Enter/Dbl Click: Select
                                                         +/-: Change Opt.
                                                         F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC/Right Click: Exit

            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

BIOS Setup

2-2-1 Super IO Configuration

```
            Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc.
  Advanced

  Super IO Configuration                                      Set Parameters of Serial Port
                                                              1 (COMA)
  Super IO Chip                    IT8786E
▶ Serial Port 1 Configuration




                                                              →←: Select Screen
                                                              ↑↓/Click: Select Item
                                                              Enter/Dbl Click: Select
                                                              +/–: Change Opt.
                                                              F1: General Help
                                                              F2: Previous Values
                                                              F3: Optimized Defaults
                                                              F4: Save & Exit
                                                              ESC/Right Click: Exit


            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

 ☞ **Super IO Configuration**

 ☞ **Serial Port 1 Configuration**

  Press [Enter] for configuration of advanced items.

2-2-1-1 Serial Port Configuration

```
                 Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.   [ESC] [▦]
      Advanced

   Serial Port 1 Configuration                                        Enable or Disable Serial Port
                                                                      (COM)
   Serial Port                        [Enabled]
   Device Settings                    IO=3F8h; IRQ=4;

   Change Settings                    [Auto]




                                                                      →←: Select Screen
                                                                      ↑↓/Click: Select Item
                                                                      Enter/Dbl Click: Select
                                                                      +/-: Change Opt.
                                                                      F1: General Help
                                                                      F2: Previous Values
                                                                      F3: Optimized Defaults
                                                                      F4: Save & Exit
                                                                      ESC/Right Click: Exit




                 Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.               ▶
```

☞ **Serial Port Configuration**

☞ **Serial Port**

When enabled allows you to configure the serial port settings. When set to Disabled, displays no configuration for the serial port.

Options available: Enabled/Disabled. Default setting is **Enabled.**

☞ **Device Settings**

Display the specified Serial Port base I/O addressand IRQ.

☞ **Change Settings**

Change Serial Port 0/1 device settings. When set to Auto allows the server's BIOS or OS to select a configuration.

Options available: Auto/IO=3F8; IRQ=4/IO=3F8h; IRQ=3,4,5,6,7,10,11,12/

IO=2F8h; IRQ=3,4,5,6,7,10,11,12 /IO=3E8h; IRQ=3,4,5,6,7,10,11,12/IO=2E8h; IRQ=3,4,5,6,7,10,11,12.

Default setting is **Auto**.

2-2-2 Hardware Monitor

Press Enter to view the Hardware Monitor screen which displays a real-time record of the CPU/system temperature, and fan speed, Items on this window are non-configurable.

```
                   Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc.
         Advanced

     CPU Fan Fail Warning              [Disabled]         Enable to set a warning alarm
     System Fan Fail Warning           [Disabled]         when the CPU fan fail or
                                                          disconnected.
     CPU Fan Speed Control             [Normal]
     System Fan Speed Control          [Normal]

     System temperature                : +40 %
     CPU temperature                   : +46 %
     System Fan Speed                  : N/A
     System Fan Speed                  : N/A
     VCORE                             : +0.888 V
     DDR1.35V                          : +1.356 V
     +12V                              : +12.240 V       →←: Select Screen
     VCC                               : +5.040 V        ↑↓/Click: Select Item
     VCC3                              : +3.346 V        Enter/Dbl Click: Select
                                                         +/–: Change Opt.
                                                         F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC/Right Click: Exit

                   Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

☞ **PC Health Status**

☞ **CPU/System FAN Fail Detect**

   Enable/Disable CPU/System FAN Fail Detect function.
   Option available: Enabled/Disabled. Default setting is **Disabled**.

☞ **CPU/System FAN Speed Control**

   Enable CPU/System Fan Speed Control function.
   Option available: Normal/Disabled. Default setting is **Normal**.

☞ **CPU Temperature/System Temperature**

   Displays current CPU and System temperature.

☞ **CPU/System Fan Speed (RPM)**

   Displays current CPU and system fan speed.

☞ **VCORE/DDR1.35/+12V/VCC/VCC3**

   Displays current CPU and system voltage status.

2-2-3　S5 RTC Wake Settings

```
                    Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.   ESC [keyboard]
         Advanced

    Wake system from S5              [Fixed Time]              Enable or disable System wake
    Wake up hour                     0                         on alarm event. Select
    Wake up minute                   0                         FixedTime, system will wake on
    Wake up second                   0                         the hr::min::sec specified.




                                                              →←: Select Screen
                                                              ↑↓/Click: Select Item
                                                              Enter/Dbl Click: Select
                                                              +/-: Change Opt.
                                                              F1: General Help
                                                              F2: Previous Values
                                                              F3: Optimized Defaults
                                                              F4: Save & Exit
                                                              ESC/Right Click: Exit


                    Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

☞ **Wake system from S5**

　　Enable or disable System wake on alarm event. When enabled, System will wake on the hr:min:sec
　　specified. Default setting is **Disabled**.

☞ **Wake up hour**(Note)

　　Press <+> and <-> to define the wake up hour.

☞ **Wake up minute**(Note)

　　Press <+> and <-> to define the wake up minute.

☞ **Wake up second**(Note)

　　Press <+> and <-> to define the wake up second.

(Note)　　This item appears when **Wake system from S5** is set to **Fixed time**.

2-2-4   CPU Configuration

```
              Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc.   ESC  ⌨
        Advanced

     CPU Configuration                                          Socket specific CPU Information

  ▶  CPU Information

     Intel Virtualization Technology      [Enabled]
     Turbo Mode                           [Enabled]
     CPU C state Report                   [Enabled]



                                                                →←: Select Screen
                                                                ↑↓/Click: Select Item
                                                                Enter/Dbl Click: Select
                                                                +/−: Change Opt.
                                                                F1: General Help
                                                                F2: Previous Values
                                                                F3: Optimized Defaults
                                                                F4: Save & Exit
                                                                ESC/Right Click: Exit

              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

☞ **CPU Information**

Press [Enter] to view the installed CPUinformation.

☞ **Intel Virtualization Technology**

Select whether to enable the Intel Virtualization Technology function. VT allows a single platform to run multiple operating systems in independent partitions.
Options available: Enabled/Disabled. Default setting is **Enabled**.

☞ **Turbo Mode**

When this feature is enabled, the processor can dynamically overclock one or two of its four processing cores to improve performance with applications that are not multi-threaded or optimized for quad-core processors.
Options available: Enabled/Disabled. Default setting is **Enabled**.

☞ **CPU C State Report**

Enable/Disable CPU C State report function.
Options available: Enabled/Disabled. Default setting is **Enabled**.

2-2-4-1 CPU Information

```
              Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.      ESC  ▦
    Advanced

   CPU Information

   Intel(R) Celeron(R) CPU J1900 @ 1.99GHz
   CPU Signature                    30678
   Microcode Patch                  82d
   Processor Cores                  4
   Intel HT Technology              Not Supported
   Intel VT-x Technology            Supported

   L1 Data Cache                    24 kB x 4
   L1 Code Cache                    32 kB x 4
   L2 Cache                         1024 kB x 2
   L3 Cache                         Not Present
                                                          ↦: Select Screen
                                                          ↑↓/Click: Select Item
                                                          Enter/Dbl Click: Select
                                                          +/-: Change Opt.
                                                          F1: General Help
                                                          F2: Previous Values
                                                          F3: Optimized Defaults
                                                          F4: Save & Exit
                                                          ESC/Right Click: Exit



              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.       ▸
```

☞ **CPU Type/Signature/Microcode Path/Processor Cores/64-bit/Intel HT Technology/ Intel VT-x Technology**

Displays the technical specifications for the installed processor.

☞ **Cache Information**

☞ **L1 Data Cache / L1 Code Cache / L2 Cache / L3 Cache**

Displays the technical specifications for the installed processor.

2-2-5   SATA Configuration

```
            Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc.    [ESC] [▓▓▓]
     Advanced

    SATA Configuration                                              Select IDE / AHCI

    SATA Mode                          [AHCI Mode]

    Serial-ATA Port 1                  [Enabled]
    Not Present

    E-SATA Port                        [Enabled]
    Not Present

                                                                    →←: Select Screen
                                                                    ↑↓/Click: Select Item
                                                                    Enter/Dbl Click: Select
                                                                    +/-: Change Opt.
                                                                    F1: General Help
                                                                    F2: Previous Values
                                                                    F3: Optimized Defaults
                                                                    F4: Save & Exit
                                                                    ESC/Right Click: Exit

            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

☞ **SATA Mode**

Select the on chip SATA type.

IDE Mode: When set to IDE, the SATA controller disables its AHCI functions and runs in the IDE emulation mode.

AHCI Mode: When set to AHCI,the SATA controller enables its AHCI functionality.

Options available: IDE/AHCI/Disabled. Default setting is **AHCI Mode**.

☞ **Serial ATA Port 1/E-SATA Port**

The category identifies Serial ATA and eSATA types of hard disk that are installed in the computer. System will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category.

Hard drive information should be labeled on the outside device casing. Enter the appropriate option based on this information.

2-2-6 CSM Configuration

```
           Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.      [ESC] [⌨]
            Advanced

    CSM Support                     [Disabled]           Enable/Disable CSM Support.

    LAN EFI driver                  [Disabled]
    LAN PXE OpROM                   [Disabled]




                                                         ↔: Select Screen
                                                         ↑↓/Click: Select Item
                                                         Enter/Dbl Click: Select
                                                         +/-: Change Opt.
                                                         F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC/Right Click: Exit



              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.              ▶
```

☞ **Compatibility Support Module Configuration**

Press Enter to configure the advanced items.

☞ **CSM Support**

Enable/Disable Compatibility Support Module (CSM) support function.

Options available: Enabled/Disabled. Default setting is **Disabled**.

- The following five items appears and configurable when the **Launch CSM** is set to **Enabled**.
- If the **Launch CSM** is set to **Disabled,** the following five items will not be able to support Legacy mode.

☞ **LAN EFI driver(Note)**

Enable/Disable LAN EFI driver.

Options available: Enabled/DIsabled. Default setting is **Disabled**.

☞ **LAN PXE OpROM**

Enable/Disable LAN PXE OpROM.

Options available: Enabled/DIsabled. Default setting is **Disabled**.

(Note)   This item appears when **CSM Support** is set to **Disabled**.

2-2-7 Trusted Computing (Optional)

```
                    Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.
   Advanced

   Configuration                                                Enables or Disables BIOS
     Security Device Support          [Disabled]                support for security device.
                                                                O.S. will not show Security
                                                                Device. TCG EFI protocol and
   Current Status Information                                   INT1A interface will not be
     NO Security Device Found                                   available.



                                                                →←: Select Screen
                                                                ↑↓/Click: Select Item
                                                                Enter/Dbl Click: Select
                                                                +/-: Change Opt.
                                                                F1: General Help
                                                                F2: Previous Values
                                                                F3: Optimized Defaults
                                                                F4: Save & Exit
                                                                ESC/Right Click: Exit



                    Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

☞ **Configuration**

☞ **Security Device Support**

Select Enabled to activate TPM support feature.

Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Current Status Information**

Display current TPM status information.

2-2-8   Intel (R) I210 Gigabit Network Connection

```
          Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.    ESC
      Advanced
  ▶ NIC Configuration                                              Identify the physical network
                                                                   port by blinking the
    Blink LEDs                          0                          associated LED.

    UEFI Driver                         Intel(R) PRO/1000 6.4.13
    Adapter PBA                         000300-000
    Device Name                         Intel(R) I210 Gigabit  N
    Chip Type                           Intel i210
    PCI Device ID                       1533
    PCI Address                         02:00:00

    Link Status                         [Disconnected]

    MAC Address                         74:D4:35:EF:3B:C0         →←: Select Screen
    Virtual MAC Address                 74:D4:35:EF:3B:C0         ↑↓/Click: Select Item
                                                                  Enter/Dbl Click: Select
                                                                  +/-: Change Opt.
                                                                  F1: General Help
                                                                  F2: Previous Values
                                                                  F3: Optimized Defaults
                                                                  F4: Save & Exit
                                                                  ESC/Right Click: Exit

          Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

```
          Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.    ESC
      Advanced
                                                                  Specifies the port speed used
                                                                  for the selected boot protocol.
    Link Speed                          [Auto Negotiated]
    Wake On LAN                         [Disabled]












                                                                  →←: Select Screen
                                                                  ↑↓/Click: Select Item
                                                                  Enter/Dbl Click: Select
                                                                  +/-: Change Opt.
                                                                  F1: General Help
                                                                  F2: Previous Values
                                                                  F3: Optimized Defaults
                                                                  F4: Save & Exit
                                                                  ESC/Right Click: Exit

          Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

    ☞ **NIC Configuration**

        Press [Enter] for configuration of advanced items.

    ☞ **Blink LEDs (range 0-15 seconds)**

        Blink LEDs for the specified duration (up to 15 seconds).
        Press the numberic keys to input the desired value.

    ☞ **UEFI Driver**

        Display the UEFI driver information.

    ☞ **Adapter PBA**

        Display the Adapter PBA information.

    ☞ **Chip Type**

        Display the Chip type.

    ☞ **PCI Device ID**

        Display the PCI device ID.

    ☞ **PCI Address**

        Display PCI address information.

    ☞ **Link Status**

        Display the link status.

    ☞ **MAC Address**

        Display the Factory MAC address information.

    ☞ **Virtual MAC Address**

        Display the virtual MAC address information.

    ☞ **Link Speed**

        Change link speed duplex for current port.
        Options available: AutoNeg/10Mbps Half/10Mbps Half/10Mbps Half/100Mbps Full.
        Default setting is **AutoNeg**.

    ☞ **Wake On LAN**

        Enable/Disable Wake On LAN feature.
        Options available: Enabled/DIsabled. Default setting is **Enabled**.

2-2-9   Driver Health

Press Enter to view the submenu screen which displays a real-time record of the LAN controllers, Items on this window are non-configurable.

```
              Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.    [ESC] [====]
    Advanced

 ▶ Intel(R) PRO/1000 6.4.13 PCI-E     Healthy                          Provides Health Status for the
                                                                       Drivers/Controllers




                                                                       ↔: Select Screen
                                                                       ↑↓/Click: Select Item
                                                                       Enter/Dbl Click: Select
                                                                       +/-: Change Opt.
                                                                       F1: General Help
                                                                       F2: Previous Values
                                                                       F3: Optimized Defaults
                                                                       F4: Save & Exit
                                                                       ESC/Right Click: Exit


              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.        ►
```

```
              Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.    [ESC] [====]
    Advanced

 Controller b846fe18 Child 0     Healthy                               Provides Health Status for the
 Intel(R) I210 Gigabit  Network Connection     Healthy                 Drivers/Controllers
 Controller b846f818 Child 0     Healthy
 Intel(R) I210 Gigabit  Network Connection     Healthy




                                                                       ↔: Select Screen
                                                                       ↑↓/Click: Select Item
                                                                       Enter/Dbl Click: Select
                                                                       +/-: Change Opt.
                                                                       F1: General Help
                                                                       F2: Previous Values
                                                                       F3: Optimized Defaults
                                                                       F4: Save & Exit
                                                                       ESC/Right Click: Exit


              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.        ►
```

BIOS Setup

2-3   Chipset Menu

```
              Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.
       Main  Advanced  Chipset  Security  Boot  Save & Exit                 ESC

    DVMT Pre-Allocated                [64M]                     Select DVMT 5.0 Pre-Allocated
                                                                (Fixed) Graphics Memory size
    Onboard Audio                     [Enabled]                 used by the Internal Graphics
    Onboard LAN1                      [Enabled]                 Device.
    Onboard LAN2                      [Enabled]

    OS Selection                      [Windows 8.X]

    ERP Lowest Power State Mode       [Disabled]
    Restore AC Power Loss             [Power Off]


                                                                →←: Select Screen
                                                                ↑↓/Click: Select Item
                                                                Enter/Dbl Click: Select
                                                                +/-: Change Opt.
                                                                F1: General Help
                                                                F2: Previous Values
                                                                F3: Optimized Defaults
                                                                F4: Save & Exit
                                                                ESC/Right Click: Exit



              Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

  DVMT Pre-Allocated

   Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.
   Options available: 64M/128M/192M/256M/320M/384M/512M. Default setting is **64M**.

  Onboard Audio

   Enable/Disable onboard audio controller.
   Options available: Enabled/Disabled. Default setting is **Enabled**.

  DMIC Support

   Enable/Disable DMIC Support
   Options available: Enabled/Disabled. Default setting is **Disabled**.

  Onboard LAN12

   Enable/Disable onboard LAN 1/2 controller.
   Options available: Enabled/Disabled. Default setting is **Enabled**.

  OS Selection

   Options available: Windows 8.X/WIndows 7.

  OS Selection

   Options available: Windows 8.X/WIndows 7.

  ERP Lowest Power State Mode

   Enable/Disable ERP Lowest Power State Mode.
   Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Restore AC Power Loss**

This option provides user to set the mode of operation if an AC / power loss occurs.

Power On: System power state when AC cord is re-plugged.

Power Off: Do not power on system when AC power is back.

Last State: Set system to the last sate when AC power is removed.

Options available: Power On/Power Off/Last State. Default setting is **Power Off**.

2-4   Security Menu

The Security menu allows you to safeguard and protect the system from unauthorized use by setting up access passwords.

```
            Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.
     Main  Advanced  Chipset  Security  Boot  Save & Exit

   Password Description                                  Set Administrator Password

   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 length must be
   in the following range:
   Minimum length                   3
   Maximum length                  20             →←: Select Screen
                                                  ↑↓/Click: Select Item
                                                  Enter/Dbl Click: Select
   Administrator Password                         +/-: Change Opt.
   User Password                                  F1: General Help
                                                  F2: Previous Values
 ▶ Secure Boot menu                               F3: Optimized Defaults
                                                  F4: Save & Exit
                                                  ESC/Right Click: Exit


            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

There are two types of passwords that you can set:

- Adminstrator Password

  Entering this password will allow the user to access and change all settings in the Setup Utility.

- User Password

  Entering this password will restrict a user's access to the Setup menus. To enable or disable this field, a Administrator Password must first be set. A user can only access and modify the System Time, System Date, and Set User Password fields.

☞ **AdministratorPassword**

Press Enter to configure the Administrator password.

☞ **User Password**

Press Enter to configure the user password.

☞ **Secure Boot menu**

Press [Enter] for configuration of advanced items.

BIOS Setup   - 40 -

2-4-1 Secure Boot menu

☞ **System Mode**

Display the System Mode state.

☞ **Secure Boot**

Display the System Mode State.

☞ **Secure Boot**

Secure Boot requires all the applications that are running during the booting process to be pre-signed with valid digital certificates. This way, the system knows all the files being loaded before Windows 8 loads and gets to the login screen have not been tampered with.

Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Secure Boot Mode(Note)**

Define the Secure Boot Mode. Set this item to **Custom** to advanced items configuration.
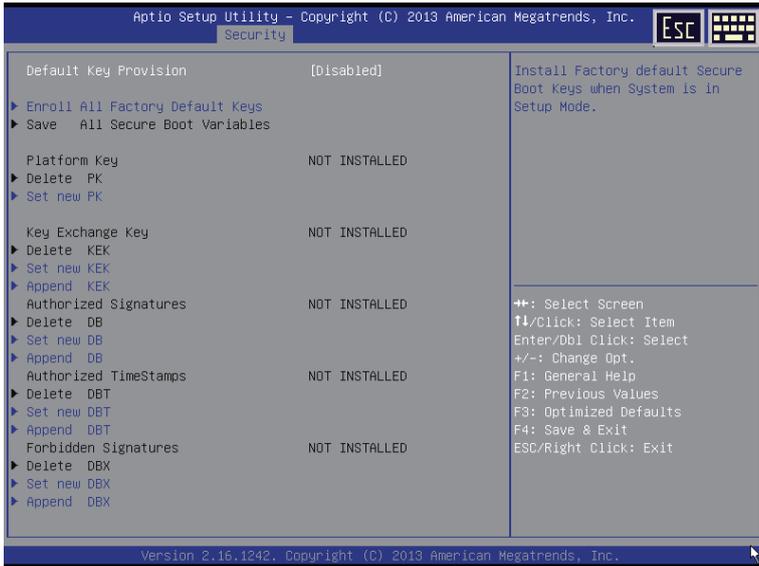
Option available: Standard/Custom. Default setting is **Custom**.

☞ **Key Management**

Press Enter to configure the advanced items.

(Note)   Advanced items prompt when this item is set to **Cutom**.

2-4-1-1 Key Management

```
          Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.      ┌───┐ ┌────┐
                              Security                                            │ESC│ │▦▦▦ │
                                                                                  └───┘ └────┘
    Default Key Provision              [Disabled]                    Install Factory default Secure
                                                                     Boot Keys when System is in
  ▶ Enroll All Factory Default Keys                                  Setup Mode.
  ▶ Save   All Secure Boot Variables

    Platform Key                       NOT INSTALLED
  ▶ Delete  PK
  ▶ Set new PK

    Key Exchange Key                   NOT INSTALLED
  ▶ Delete  KEK
  ▶ Set new KEK
  ▶ Append  KEK
    Authorized Signatures              NOT INSTALLED              �🡒🡐: Select Screen
  ▶ Delete  DB                                                    ↑↓/Click: Select Item
  ▶ Set new DB                                                    Enter/Dbl Click: Select
  ▶ Append  DB                                                    +/-: Change Opt.
    Authorized TimeStamps              NOT INSTALLED              F1: General Help
  ▶ Delete  DBT                                                   F2: Previous Values
  ▶ Set new DBT                                                   F3: Optimized Defaults
  ▶ Append  DBT                                                   F4: Save & Exit
    Forbidden Signatures               NOT INSTALLED              ESC/Right Click: Exit
  ▶ Delete  DBX
  ▶ Set new DBX
  ▶ Append  DBX


            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.                    ▶
```

☞ **Key Management**

This item appears only when the **Secure Boot Mode** is set to **Custom**.

☞ **Default Key Provisioning**

Force the system to Setup Mode. This will clear all Secure Boot Variables such as Platform Key (PK), Key-exchange Key (KEK), Authorized Signature Database (db), and Forbidden Signaures Database (dbx).

Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Enroll All Factory Default Keys**

Press [Enter] to install all factory default keys.

☞ **Save All Secure Boot Variables**

Press [Enter] to save all Secure Boot Variables.

☞ **Platform Key (PK)**

Display the status of Platform Key.

☞ **Delete the PK**

Press [Enter] to delete the existed PK. Once the PK is deleted, all the system's Secure Boot keys will not be activated.

☞ **Set new PK File**

Press [Enter] to configure a new PK.

☞ **Key Exchange Key Database (KEK)**

Display the status of Platform Key.

☞ **Delete KEK**

Press [Enter] to delete the KEK from your system.

☎ **Set new KEK**

Press [Enter] to configure a new KEK.

☎ **Append Var to KEK**

Press [Enter] to load additional KEK from a storage devices for an additional db and dbx management.

☎ **Authorized Signature Database (DB)**

Display the status of Authorized Signature Database.

☎ **Delete DB**

Press [Enter] to delete the db from your system.

☎ **Set new DB**

Press [Enter] to configure a new db.

☎ **Append aVar to DB**

Press [Enter] to load additional db from a storage devices.

☎ **Forbidden Signature Database (DBX)**

Display the status of Forbidden Signature Database.

☎ **Delete the DBX**

Press [Enter] to delete the dbx from your system.

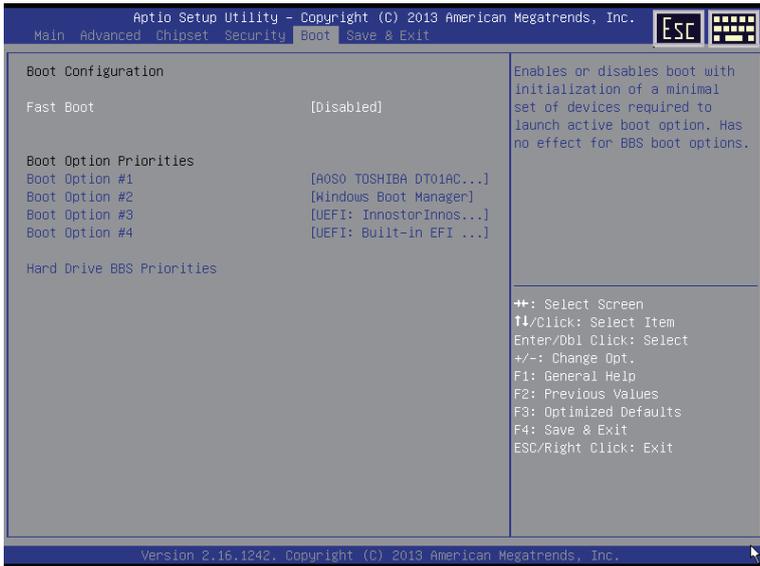☎ **Set DBX from File**

Press [Enter] to configure a new dbx.

☎ **Append Var to DBX**

Press [Enter] to load additional db from a storage devices.

2-5 Boot Menu

The Boot menu allows you to set the drive priority during system boot-up. BIOS setup will display an error message if the drive(s) specified is not bootable.

```
                   Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.      ESC
         Main  Advanced  Chipset  Security  Boot  Save & Exit

         Boot Configuration                                        Enables or disables boot with
                                                                   initialization of a minimal
         Fast Boot                            [Disabled]           set of devices required to
                                                                   launch active boot option. Has
                                                                   no effect for BBS boot options.
         Boot Option Priorities
         Boot Option #1                       [AOSO TOSHIBA DT01AC...]
         Boot Option #2                       [Windows Boot Manager]
         Boot Option #3                       [UEFI: InnostorInnos...]
         Boot Option #4                       [UEFI: Built-in EFI ...]

         Hard Drive BBS Priorities

                                                                   →←: Select Screen
                                                                   ↑↓/Click: Select Item
                                                                   Enter/Dbl Click: Select
                                                                   +/-: Change Opt.
                                                                   F1: General Help
                                                                   F2: Previous Values
                                                                   F3: Optimized Defaults
                                                                   F4: Save & Exit
                                                                   ESC/Right Click: Exit

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```

☞ **Boot Configuration**

☞ **Quiet Boot**

Enables or disables showing the logo during POST.
Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Fast Boot**

This BIOS feature alows you to decrease the time it takes to boot up the system by skipping certain booting procedures.
Options available: Enabled/Disabled. Default setting is **Disabled**.

☞ **Boot Option Priorities**

☞ **Boot Option #1/#2#3#4**

Press Enter to configure the boot priority.
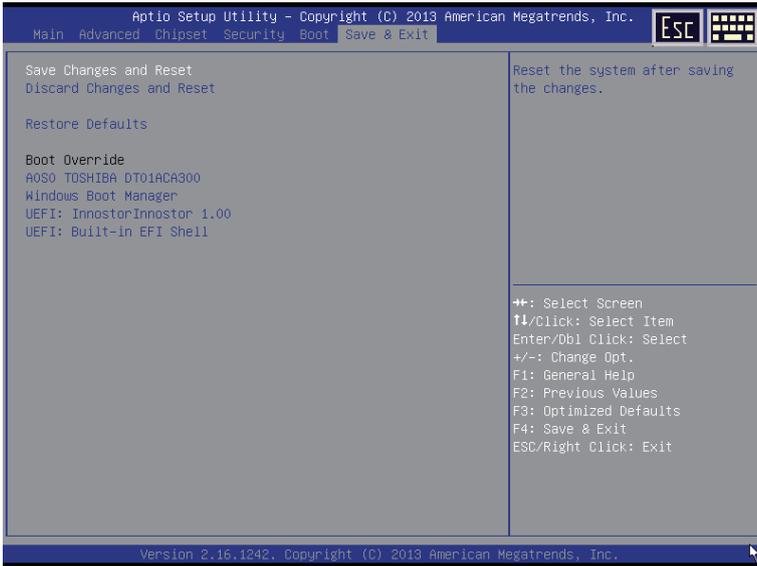By default, the server searches for boot devices in the following secquence:

1.   UEFI device.
2.   Hard drive.
3.   Network device.
4.   Removable device.

☞ **Hard Drive BBS Priorities**

Press Enter to configure the boot priority.

2-6   Save & Exit Menu

The Exit menu displays the various options to quit from the BIOS setup. Highlight any of the exit options then press **Enter**.

```
                Aptio Setup Utility - Copyright (C) 2013 American Megatrends, Inc.
         Main  Advanced  Chipset  Security  Boot  Save & Exit           [ESC] [⌨]

         Save Changes and Reset                            Reset the system after saving
         Discard Changes and Reset                         the changes.

         Restore Defaults

         Boot Override
         AOSO TOSHIBA DT01ACA300
         Windows Boot Manager
         UEFI: InnostorInnostor 1.00
         UEFI: Built-in EFI Shell

                                                           →←: Select Screen
                                                           ↑↓/Click: Select Item
                                                           Enter/Dbl Click: Select
                                                           +/-: Change Opt.
                                                           F1: General Help
                                                           F2: Previous Values
                                                           F3: Optimized Defaults
                                                           F4: Save & Exit
                                                           ESC/Right Click: Exit

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```

☞ **Save Changes and Reset**

   Saves changes made and close the BIOS setup.
   Options available: Yes/No.

☞ **Discard Changes and Reset**

   Discards changes made and close the BIOS setup.
   Options available: Yes/No.

☞ **Restore Defaults**

   Loads the default settings for all BIOS setup parameters. Setup Defaults are quite demanding in terms of resources consumption. If you are using low-speed memory chips or other kinds of low-performance components and you choose to load these settings, the system might not function properly.
   Options available: Yes/No.

☞ **Boot Override**

   Press Enter to configure the device as the boot-up drive.

☞ **UEFI: Built-in in EFI Shell**

   Press <Enter> on this item to Launch EFI Shell from filesystem device.