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Dichiarazione di conformità sintetica
Ai sensi dell'art. 2 comma 3 del D.M. 275 del 30/10/2002
Si dichiara che questo prodotto è conforme alle normative vigenti e soddisfa i requisiti essenziali richiesti dalle direttive 2004/108/CE, 2006/95/CE e 1999/05/CE quando ad esso applicabili

Short Declaration of conformity
We declare this product is complying with the laws in force and meeting all the essential requirements as specified by the directives 2004/108/CE, 2006/95/CE and 1999/05/CE whenever these laws may be applied

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Chapter 1: Introduction

1.1 Before You Start

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.
- To avoid injury, be careful of:
  Sharp pins on headers and connectors
  Rough edges and sharp corners on the chassis
  Damage to wires that could cause a short circuit

1.2 Package Checklist

- Serial ATA Cable x2
- Rear I/O Panel for ATX Case x1
- Quick Installation Guide x1
- Fully Setup Driver DVD x1

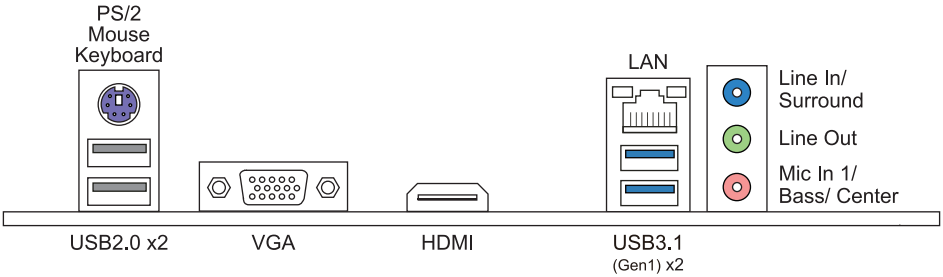
Note

» *The package contents may be different due to the sales region or models in which it was sold. For more information about the standard package in your region, please contact your dealer or sales representative.*

1.3 Specifications

Specifications	
CPU Support	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
Memory	Supports Dual Channel DDR4-1866/ 2133/ 2400 2x DDR4 DIMM Memory Slot, Max. Supports up to 8 GB Memory Each DIMM supports non-ECC 4GB DDR4 module * Please refer to www.biostar.com.tw for Memory support list.
Storage	2x SATA III (6Gb/s) : Supports AHCI 1x M.2 (M Key) : Supports PCI-E 2.0 x2 (10Gb/s) & SATA III (6Gb/s) SSD
LAN	RTL8111H 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
Audio Codec	ALC887/ALC897 7.1 Channels, High Definition Audio
USB	2x USB 3.1(Gen1) port (2 on rear I/Os) 6x USB 2.0 port (2 on rear I/Os and 4 via internal headers)
Expansion Slots	1x PCIe 2.0 x16 Slot 1x Key E - M.2 Slot (Optional)
Rear I/Os	1x PS/2 Keyboard/ Mouse Port 1x HDMI Port 1x VGA Port 2x USB 3.1(Gen1) Port 2x USB 2.0 Port 1x LAN port 3x Audio Jack
Internal I/Os	2x SATA III - 6Gb/s Connector 2x USB 2.0 Header (each header supports 2 USB 2.0 ports) 1x 4-Pin Power Connector 1x 24-Pin Power Connector 2x System Fan Connector 1x Front Panel Header 1x Front Audio Header 2x COM Port Header 1x Printer Port Header 1x Clear CMOS Header 1x TPM Header (Optional)
Form Factor	Mini-ITX Form Factor, 170 mm x 170 mm
OS Support	Windows 10(64bit) / Windows 11(64bit) * Biostar reserves the right to add or remove support for any OS with or without notice.

1.4 Rear Panel Connectors



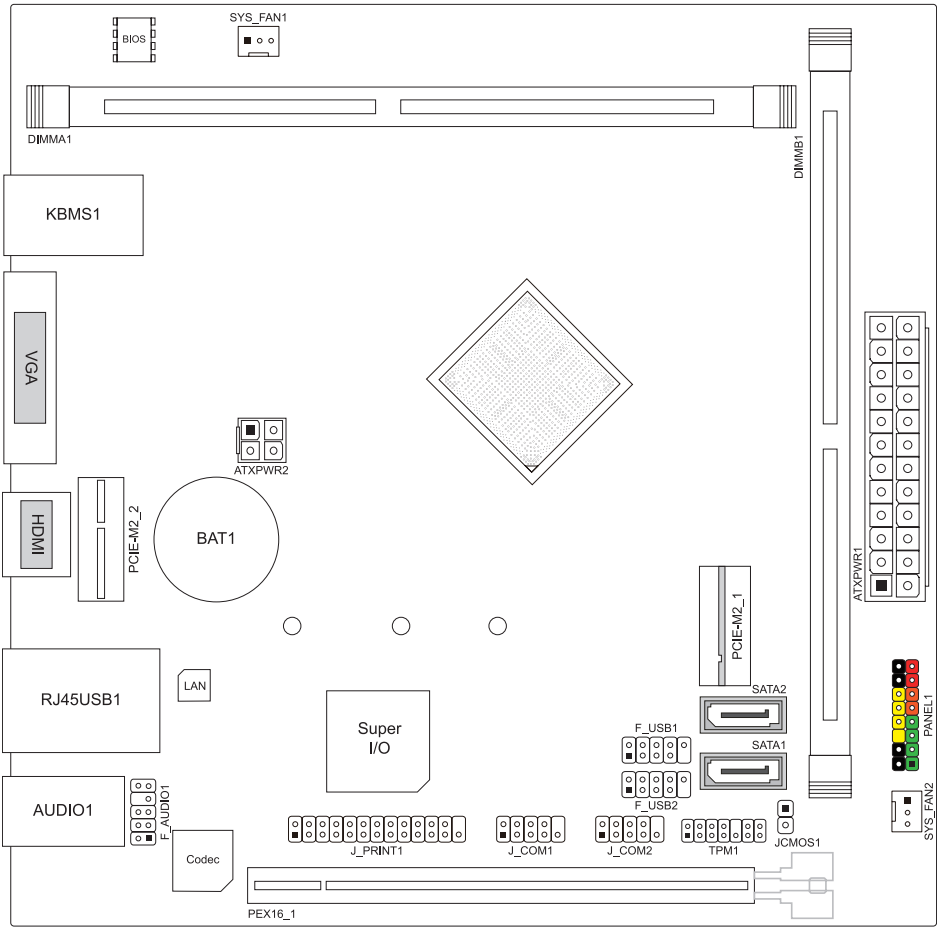
Note

- *VGA, HDMI ports only work with an Intel® integrated Graphics Processor.*
- *Maximum resolution*
  VGA: 1920 x 1200 @60Hz
  HDMI: 4096x 2160 @30Hz, compliant with HDMI 1.4
- *When using the front HD audio jack and plug in the headset, the rear sound will be automatically Disabled.*
- *The mainboard supports two onboard display outputs at same time and the display output configuration can be selected in Intel graphics driver utility.*

The 2/ 4/ 5.1/ 7.1-channel configuration

Audio Port	2-channel	4-channel	5.1 channel	7.1 channel
Blue (Rear Panel)	Line In	Line In	Line In	Side Speaker Out
Green (Rear Panel)	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink (Rear Panel)	Mic In	Mic In	Center/Subwoofer Out	Center/Subwoofer Out
Green (Front Panel)	Headphone	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out

1.5 Motherboard Layout



Note

» ■ *represents the 1st pin.*

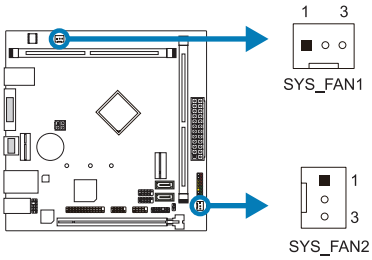
» *The PCIE-M2_2 slot/ TPM header is optional.*

Chapter 2: Hardware installation

2.1 Connect Cooling Fans

These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer.

SYS_FAN1/2: System Fan Header



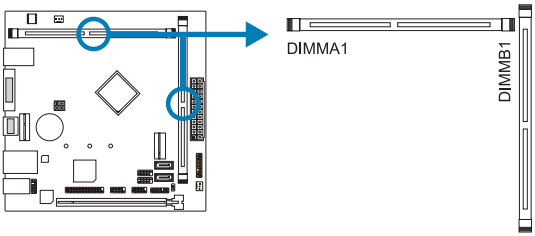
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note

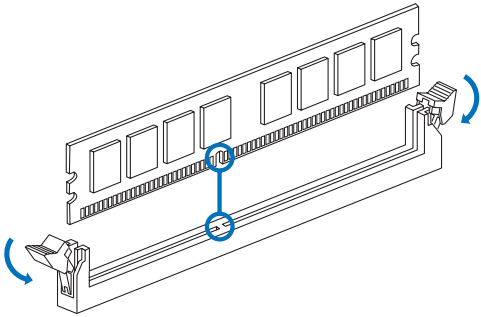
» *SYS_ FAN1/2 support 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to pin#1(GND).*

2.2 Install System Memory

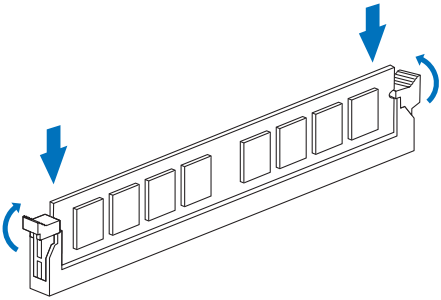
DDR4 Modules



Step 1: Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.



Step 2: Insert the DIMM vertically and firmly into the slot until the retaining clips snap back in place and the DIMM is properly seated.



Note

» *If the DIMM does not go in smoothly, do not force it. Pull it all the way out and try again.*

Memory Capacity

DIMM Socket Location	DDR4 Module	Total Memory Size
DIMMA1	4GB	Max is 8GB.
DIMMB1	4GB	

Dual Channel Memory Installation

Please refer to the following requirements to activate Dual Channel function:
Install memory module of the same density in pairs, shown in the table.

Dual Channel Status	DIMMA1	DIMMB1
Disabled	O	X
Disabled	X	O
Enabled	O	O

(O means memory installed, X means memory not installed.)

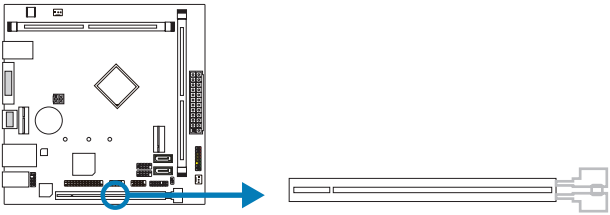
Note

» *When installing more than one memory module, we recommend to use the same brand and capacity memory on this motherboard.*

2.3 Expansion Slots

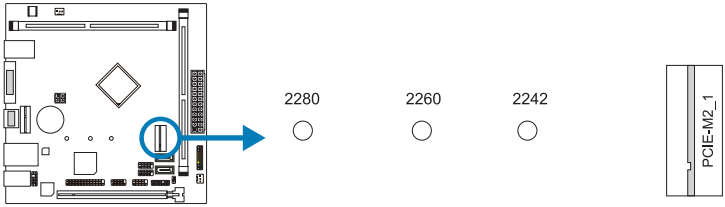
PEX16_1: PCI-Express Gen2 x16 Slot

- PCI-Express 2.0 compliant.
- Theoretical maximum bandwidth using two slots simultaneously is 8GB/s for each slot, a total of 16GB/s.



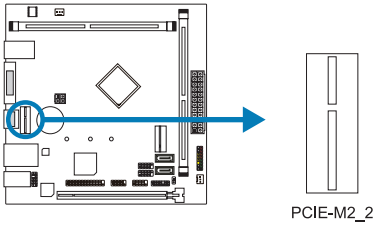
PCIE-M2_1: M.2 (Key M) Slot

- The M.2 slot supports M.2 Type 2242/2260/2280 SSD module. When installing M.2 SSD module, please place the screw and hex pillar to correct position.
- Support M.2 PCI Express module up to Gen2 x2 (10Gb/s).



PCIE-M2_2: M.2 (Key E) Slot (Optional)

- The M.2 slot supports M.2 Type 2230 WiFi module.



Install an Expansion Card

You can install your expansion card by following steps:

- Read the related expansion card's instruction document before install the expansion card into the computer.
- Remove your computer's chassis cover, screws and slot bracket from the computer.
- Place a card in the expansion slot and press down on the card until it is completely seated in the slot.
- Secure the card's metal bracket to the chassis back panel with a screw.
- Replace your computer's chassis cover.
- Power on the computer, if necessary, change BIOS settings for the expansion card.
- Install related driver for the expansion card.

2.4 Jumper & Switch Setting

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.

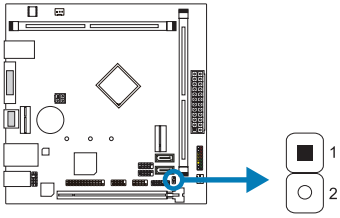
Pin opened

Pin closed

Pin 1-2 closed

JCMOS1: Clear CMOS Jumper

The jumper allows users to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.



Pin 1-2 Open: Normal Operation (Default)

Pin 1-2 Close: Clear CMOS data

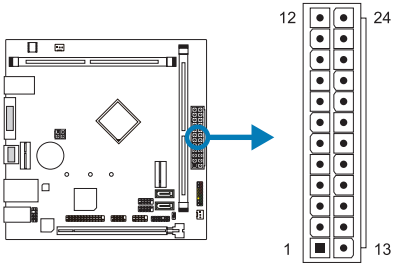
Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 1-2 close”, you can use a metal object like a screwdriver to touch the two pins.
3. Wait for five seconds.
4. After clearing the CMOS values, be sure the jumper is “Pin 1-2 open”.
5. Power on the AC.
6. Load Optimal Defaults and save settings in CMOS.

2.5 Headers & Connectors

ATXPWR1: ATX Power Source Connector

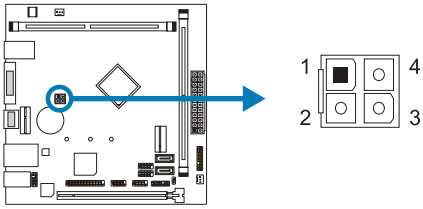
For better compatibility, we recommend to use a standard ATX 24-pin power supply for this connector. Make sure to find the correct orientation before plugging the connector.



Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

ATXPWR2: ATX Power Source Connector

The connector provides +12V to the CPU power circuit.



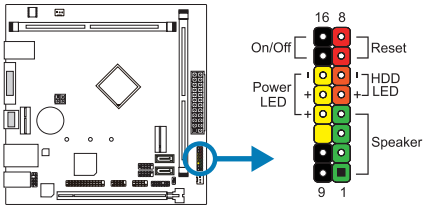
Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

Note

- » *Before you power on the system, please make sure that both ATXPWR1 and ATXPWR2 connectors have been plugged-in.*
- » *Insufficient power supplied to the system may result in instability or the peripherals not functioning properly. Use of a PSU with a higher power output is recommended when configuring a system with more power-consuming devices.*

PANEL1: Front Panel Header

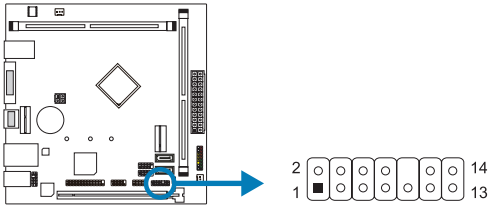
This 16-pin header includes Power-on, Reset, HDD LED, Power LED, and speaker connection.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	
3	N/A		11	N/A	N/A
4	Speaker		12	Power LED (+)	Power LED
5	HDD LED (+)	Hard drive LED	13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	

TPM1: Trusted Platform Module Header (Optional)

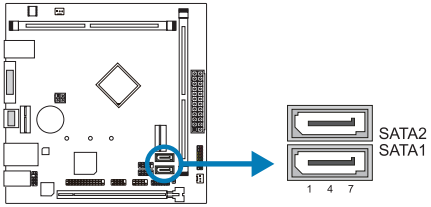
This header allows you to store cryptographic keys that protect information.



Pin	Assignment	Pin	Assignment
1	F_LAD0	2	+3V
3	F_LAD1	4	+3V
5	F_LAD2	6	C_PCICLK_TPM
7	F_LAD3	8	GND
9	F_FRAME#	10	NC
11	F_SERIRQ	12	S_PCIRST#_TBD
13	F_CLKRUN	14	+3VSB

SATA1/ 2: Serial ATA Connectors

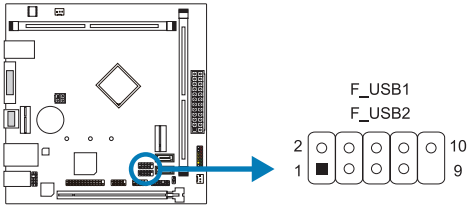
These connectors connect to SATA hard disk drives via SATA cables.



Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground

F_USB1/ 2: Header for USB 2.0 Ports at Front Panel

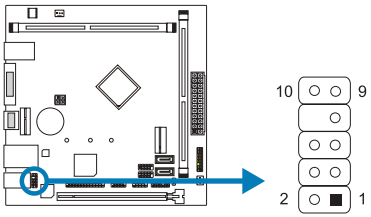
This header allows user to add additional USB ports on the PC front panel, and also can be connected with a wide range of external peripherals.



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

F_AUDIO1: Front Panel Audio Header

This header allows user to connect the chassis-mount front panel audio I/O which supports HD and AC'97 audio standards.



HD Audio		AC'97	
Pin	Assignment	Pin	Assignment
1	Mic Left in	1	Mic In
2	Ground	2	Ground
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

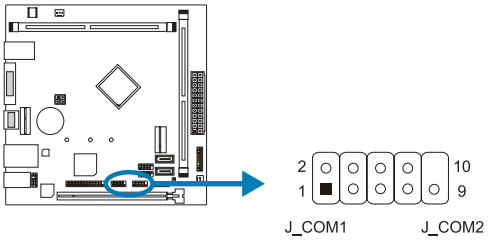
Note

» *It is recommended that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high definition audio capability.*

» *Please try to disable the "Front Panel Jack Detection" if you want to use an AC'97 front audio output cable. The function can be found via O.S. Audio Utility.*

J_COM1/ 2: Serial Port Header

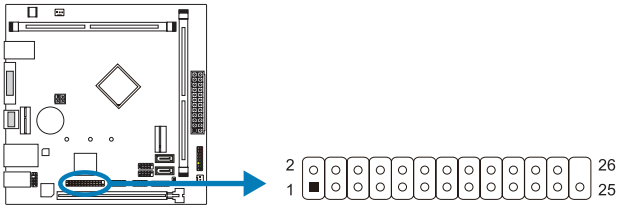
The motherboard has a serial port header for connecting RS-232 Port.



Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	Key

J_PRINT1: Printer Port Connector

This header allows you to connector printer on the PC.



Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

Chapter 3: UEFI BIOS & Software

3.1 UEFI BIOS Setup

- The BIOS Setup program can be used to view and change the BIOS settings for the computer. The BIOS Setup program is accessed by pressing the <DEL> key after the Power-On Self-Test (POST) memory test begins and before the operating system boot begins.
- For further information of setting up the UEFI BIOS, please refer to the UEFI BIOS Manual on our website.

3.2 BIOS Update

The BIOS can be updated using either of the following utilities:

- BIOSTAR BIO-Flasher: Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM.
- BIOSTAR BIOS Update Utility: It enables automated updating while in the Windows environment. Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM, or from the file location on the Web.

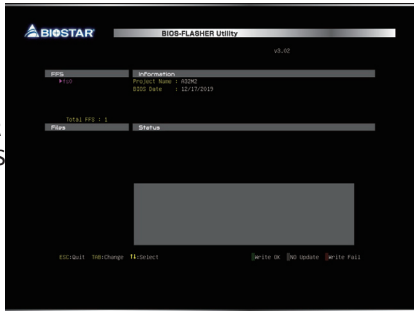
BIOSTAR BIO-Flasher

Note

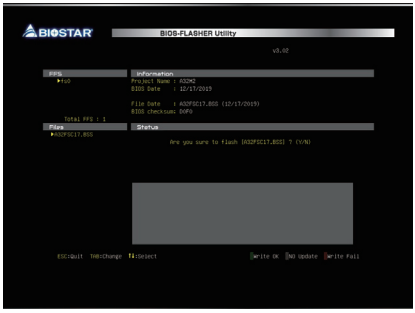
» *This utility only allows storage device with FAT32/16 format and single partition.*
» *Shutting down or resetting the system while updating the BIOS will lead to system boot failure.*

Updating BIOS with BIOSTAR BIO-Flasher

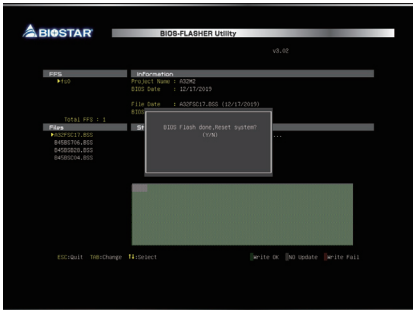
1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, copy and save the BIOS file into a USB flash (pen) drive.(Only supported FAT/FAT32 format)
3. Insert the USB pen drive that contains the BIOS file to the USB port.
4. Power on or reset the computer and then press <F12> during the POST process.
5. After entering the POST screen, the BIO-FLASHER utility pops out. Choose <fs0> to search for the BIOS file.



6. Select the proper BIOS file, and a message asking if you are sure to flash the BIOS file. Click “Yes” to start updating BIOS.



7. A dialog pops out after BIOS flash is completed, asking you to restart the system. Press the <Y> key to restart system.



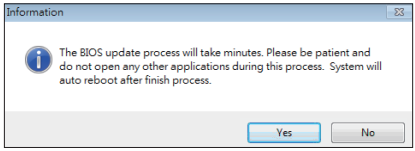
8. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes and Reset> to restart the computer. Then the BIOS Update is completed.

BIOS Update Utility (through the Internet)

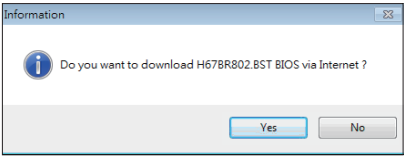
1. Installing BIOS Update Utility from the DVD Driver.
2. Please make sure the system is connected to the internet before using this function.

3. Launch BIOS Update Utility and click the “Online Update” button on the main screen.

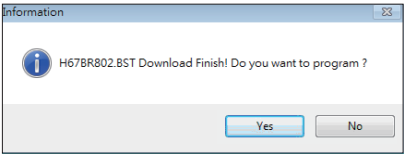
4. An open dialog will show up to request your agreement to start the BIOS update. Click “Yes” to start the online update procedure.



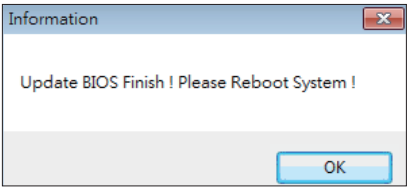
5. If there is a new BIOS version, the utility will ask you to download it. Click “Yes” to proceed.



6. After the download is completed, you will be asked to program (update) the BIOS or not. Click “Yes” to proceed.



7. After the updating process is finished, you will be asked you to reboot the system. Click “OK” to reboot.



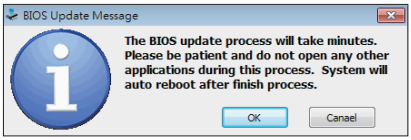
8. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes> and <Reset> to restart the computer. Then, the BIOS Update is completed.

BIOS Update Utility (through a BIOS file)

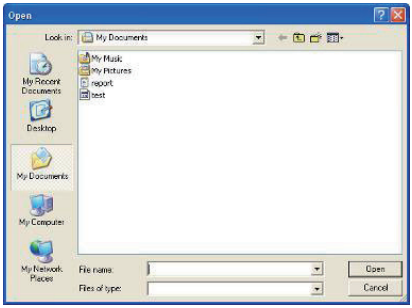
1. Installing BIOS Update Utility from the DVD Driver.
2. Download the proper BIOS from http://www.biostar.com.tw/

3. Launch BIOS Update Utility and click the “Update BIOS” button on the main screen.

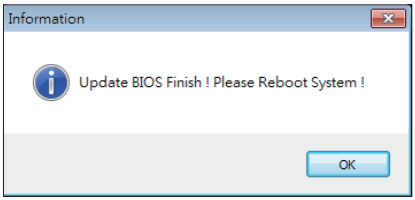
4. A warning message will show up to request your agreement to start the BIOS update. Click “OK” to start the update procedure.



5. Choose the location for your BIOS file in the system. Please select the proper BIOS file, and then click on “Open”. It will take several minutes, please be patient.



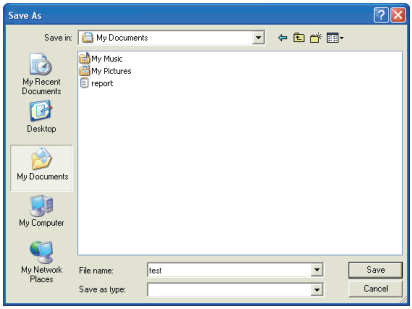
6. After the BIOS Update process is finished, click on “OK” to reboot the system.



7. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes and Reset> to restart the computer. Then, the BIOS Update is completed.

Backup BIOS

Click the Backup BIOS button on the main screen for the backup of BIOS, and select a proper location for your backup BIOS file in the system, and click “Save”.



3.3 Software

Installing Software

1. Insert the Setup DVD to the optical drive. The driver installation program would appear if the Auto-run function has been enabled.
2. Select Software Installation, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

Launching Software

After the installation process is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

Note

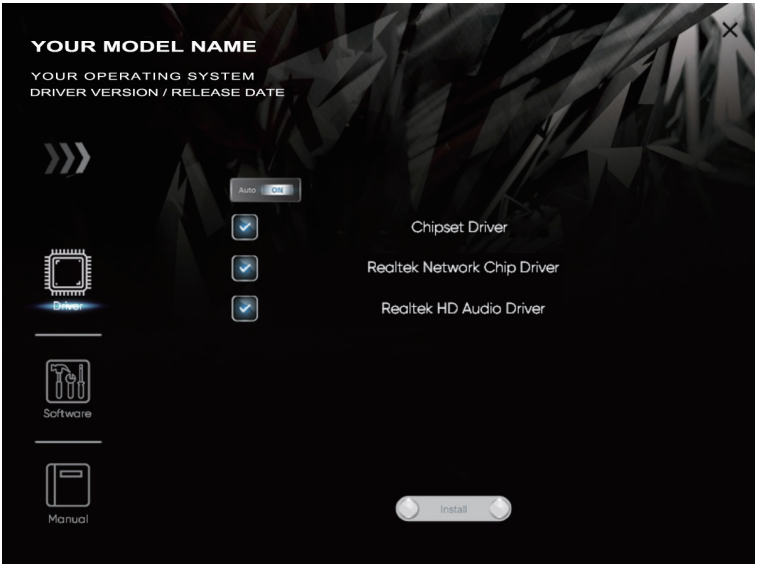
» *All the information and content about following software are subject to be changed without notice. For better performance, the software is being continuously updated.*

» *The information and pictures described below are for your reference only. The actual information and settings on board may be slightly different from this manual.*

Chapter 4: Useful help

4.1 Driver Installation

After you installed your operating system, please insert the Fully Setup Driver DVD into your optical drive and install the driver for better system performance.
You will see the following window after you insert the DVD



The setup guide will auto detect your motherboard and operating system.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver DVD. Click on the Manual icon to browse for available manual.

Note

- *If this window didn't show up after you insert the Driver DVD, please use file browser to locate and execute the file SETUP.EXE under your optical drive.*
- *You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from http://get.adobe.com/reader/*
- *The motherboard used in the illustrations may not resemble the actual board. these illustrations are for reference only.*

4.2 AMI BIOS Beep Code

Boot Block Beep Codes

Number of Beeps	Description
Continuing	Memory sizing error or Memory module not found

POST BIOS Beep Codes

Number of Beeps	Description
1	Success booting.
8	Display memory error (system video adapter)

4.3 AMI BIOS post code

Code	Description
10	PEI Core is started
11	Pre-memory CPU initialization is started
15	Pre-memory North Bridge initialization is started
19	Pre-memory South Bridge initialization is started
2B	Memory initialization. Serial Presence Detect (SPD) data reading
2C	Memory initialization. Memory presence detection
2D	Memory initialization. Programming memory timing information
2E	Memory initialization. Configuring memory
2F	Memory initialization (other).
31	Memory Installed
32	CPU post-memory initialization is started
33	CPU post-memory initialization. Cache initialization
34	CPU post-memory initialization. Application Processor(s) (AP) initialization
35	CPU post-memory initialization. Boot Strap Processor (BSP) selection
36	CPU post-memory initialization. System Management Mode (SMM) initialization
37	Post-Memory North Bridge initialization is started
3B	Post-Memory North Bridge initialization (North Bridge module specific)
4F	DXE IPL is started
60	DXE Core is started
F0	Recovery condition triggered by firmware (Auto recovery)
F1	Recovery condition triggered by user (Forced recovery)
F2	Recovery process started
F3	Recovery firmware image is found
F4	Recovery firmware image is loaded
E0	S3 Resume is stared (S3 Resume PPI is called by the DXE IPL)
E1	S3 Boot Script execution
E2	Video repost
E3	OS S3 wake vector call
60	DXE Core is started
61	NVRAM initialization
62	Installation of the South Bridge Runtime Services
63	CPU DXE initialization is started
68	PCI host bridge initialization
69	North Bridge DXE initialization is started
6A	North Bridge DXE SMM initialization is started

Code	Description
70	South Bridge DXE initialization is started
71	South Bridge DXE SMM initialization is started
72	South Bridge devices initialization
78	South Bridge DXE Initialization (South Bridge module specific)
79	ACPI module initialization
90	Boot Device Selection (BDS) phase is started
91	Driver connecting is started
92	PCI Bus initialization is started
93	PCI Bus Hot Plug Controller Initialization
94	PCI Bus Enumeration
95	PCI Bus Request Resources
96	PCI Bus Assign Resources
97	Console Output devices connect
98	Console input devices connect
99	Super IO Initialization
9A	USB initialization is started
9B	USB Reset
9C	USB Detect
9D	USB Enable
A0	IDE initialization is started
A1	IDE Reset
A2	IDE Detect
A3	IDE Enable
A4	SCSI initialization is started
A5	SCSI Reset
A6	SCSI Detect
A7	SCSI Enable
A8	Setup Verifying Password
A9	Start of Setup
AB	Setup Input Wait
AD	Ready To Boot event
AE	Legacy Boot event
AF	Exit Boot Services event
B0	Runtime Set Virtual Address MAP Begin
B1	Runtime Set Virtual Address MAP End
B2	Legacy Option ROM Initialization
B3	System Reset
B4	USB hot plug
B5	PCI bus hot plug
B6	Clean-up of NVRAM
B7	Configuration Reset (reset of NVRAM settings)

4.4 Troubleshooting

Probable	Solution
1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work 2. Indicator light on keyboard does not shine.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from a hard disk drive, but can be booted from optical drive.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message shows “Invalid Configuration” or “CMOS Failure.”	Review system’s equipment. Make sure correct information is in setup.
System cannot boot after user installs a second hard drive.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:
1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.
1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:
1. Clear the CMOS data. (See “Close CMOS Header: JCMOS1” section)
2. Wait for seconds.
3. Power on the system again.

APPENDIX I: Specifications in Other Languages

Arabic

المواصفات	
قاعدة وحدة المعالجة المركزية	Intel® Celeron® J4025 processor : J4025NHU Intel® Celeron® J4125 processor : J4125NHU
الذاكرة	تدعم قناة مزدوجة دي. دي. ار. DDR4-1866/2133/2400 x2 دي. دي. ار. DDR4 فتحات الذاكرة المزدوجة DIMM، تتحمل كحد أقصى 8 جيجابايت ذاكرة كل فتحة مزدوجة DIMM تتحمل دون 4 ECC جيجابايت دي. دي. ار DDR4 * يرجى الرجوع إلى الموقع www.biostar.com.tw لقائمة دعم الذاكرة.
التخزين	وصلة SATA III - 6Gb/s : ساتا2 x تتحمل رايد الأم AHCI x1 فتحة M.2 (M Key) : تدعم SSD SATA III (6Gb/s) & PCI-E 2.0 x2 (10Gb/s)
شبكة محلية LAN	Realtek RTL8111H 10 / 100 / 1000 ميجابايت / الثانية ، تحديد تلقائي ، النصف / القدرة القصوى المزدوجة
الترميز الصوتي	ALC887/ALC897 7.1 قنوات عالية الدقة
ناقل متسلسل عام USB	منافذ 2 x ناقل متسلسل عام USB 3.1(Gen1) (2 في المداخل والمخارج الخلفية) منافذ 6 x ناقل متسلسل عام USB 2.0 (2 في المداخل والمخارج الخلفية و 4 من خلال الموزع الداخلي)
فتحات التوسع	1 x فتحة منفذ الملحقات الإضافية PCIe 2.0 x 1 1 x فتحة M.2-E Key (اختياري)
المداخل والمخارج الخلفية	1 x PS/2 لوحة المفاتيح للكمبيوتر/الفارة فتحة توصيل عدد 1 x HDMI وسيط متعدد العالي الوضوح فتحة توصيل عدد 1 x منظومة العرض المرئي VGA فتحة توصيل عدد 2 x ناقل متسلسل عام USB3.1 (Gen1) فتحة توصيل عدد 2 x ناقل متسلسل عام USB 2.0 فتحة لتوصيل عدد 1 x الشبكة المحلية LAN فتحة توصيل عدد 3 x جاك للصوت
المداخل والمخارج الداخلية	وصلة SATA III (6Gb/s)ساتا2 x موزع 2 x ناقل متسلسل عام USB 2.0 (كل موزع يتحمل فتحتين ناقل متسلسل عام USB 2.0) وصلة للطاقة 1 x 4 دبابيس وصلة للطاقة 1 x 24 دبوس وصلة 2 x مراوح تبريد المنظومة موزع 1 x اللوحة الأمامية موزع 1 x الصوت الأمامي موزع 2 x فتحة تسلسلية موزع 1 x فتحة للطابعة موزع 1 x سيموس مباشر موزع 1 x TPM)اختياري(
عامل الشكل	عامل شكل مدد التكنولوجيا المتقدمة Mini-ITX، 170 مم x 170 مم
أنظمة التشغيل المدعومة	ويندوز 10(64bit) * بيوستار BIOSTAR تحتفظ بحق إضافة أو أزلة الدعم لأي نظام تشغيل مع أو بدون أنظار.

German

Spezifikationen	
CPU-Unterstützung	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
Festplattenspeicher	Unterstützt Dual-Channel DDR4-1866/2133/2400 2x DDR4 DIMM Arbeitsspeicher-Steckplatz, Max. Unterstützt bis zu 8 GB Speicher Jedes DIMM unterstützt Nicht-ECC-4GB DDR4-Modul * Bitte konsultieren Sie www.biostar.com.tw für für Speicherunterstützung Liste.
Arbeitsspeicher	2x SATA III-Verbindung (6Gb/s) : Unterstützt AHCI 1x M.2 (M Key) : Поддерживает PCI-E 2.0 x2 & SATA III (6.0Gb/s) SSD
LAN	RTL8111H 10/ 100/ 1000 Mb Auto-Negotiation, Halb- / Voll-Duplex-fähig
Audio-Codec	ALC887/ALC897 7.1 Kanäle, HD-Audio
USB	2x USB 3.1(Gen1)-Port (2 hintere I/O) 6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header)
Erweiterungsanschlüsse	1x PCIe 2.0 x16-Slot 1x Key E - M.2 -Slot (wahlweise)
Hintere I/Os	1x PS/2-Keyboard / Maus 1x HDMI-Port 1x VGA-Port 2x USB 3.1(Gen1)-Port 2x USB 2.0-Port 1x LAN-Port 3x Audio Jack
Interne I/Os	2x SATA III 6.0Gb/s-Verbinung 2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports) 1x 4-Pin-Stromverbindung 1x 24-Pin-Stromverbindung 2x System-Ventilatorverbindung 1x Header für Frontpanel 1x Header für Frontaudio 2x Header für Seriellen Anschluss 1x Header für Druckerport 1x Header für klares CMOS 1x TPM-Header (wahlweise)
Formfaktor	Mini-ITX Formfaktor, 170 mm x 170 mm
OS-Unterstützung	Windows 10(64bit) * Biostar reserves the right to add or remove support for any OS with or without notice.

Russian

Спецификации	
Поддержка центрального процессора	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
Память	Поддерживает двухканальный DDR4-1866/2133/2400 2 гнезда платы памяти DDR4 DIMM, максимальная память до 8 Гб Каждый модуль DIMM поддерживает модуль не-ECC 4 Гб DDR4 * Перечень поддержки памяти смотрите на www.biostar.com.tw.
Накопитель	Соединитель 2x SATA III (6Gb/s) : Поддерживает AHCI 1x M.2 (M Key) : Поддерживает PCI-E 2.0 x2 (10Gb/s) & SATA III (6Gb/s) SSD
Локальная сеть	RTL8111H Автосогласование 10/ 100/ 1000 Мб/с, работает в полно/полудуплексном режиме
Аудиокодек	ALC887/ALC897 Каналы 7.1, высококачественное аудио
USB	2 порта USB 3.1(Gen1) (2 сзади ввода-вывода) 6 порта USB 2.0 (2 сзади ввода-вывода и 4 через внутренние контакты)
Гнезда расшир.	1x PCIe 2.0 x16 гнездо 1x Key E - M.2 гнездо (необязательный)
Задняя плата ввода-вывода	1 клавиатура / мышь PS/2 1 порт HDMI 1 порт VGA 2 порта USB 3.1(Gen1) 2 порта USB 2.0 1 порт локальной сети 3 гнезд для подключения наушников
Внутр. Плата ввода-вывода	Соединитель 2x SATA III 6 Гб/с 2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0) 1 4-выводный разъем питания 1 24-выводный разъем питания 2 Разъем системного вентилятора 1 контакт передней панели 1 контакт передней аудиопанели 2 контакт последовательного порта 1 контакт порта принтера 1 контакт микросхемы Clear CMOS 1 контакт TPM (необязательный)
Конструктив	Форм-фактор Mini-ITX, 170мм x 170 мм
Поддержка ОС	Windows 10(64bit) * Biostar оставляет за собой право добавлять или удалять поддержку любой ОС, с уведомлением или без.

Spanish

Especificaciones	
Compatibilidad con el procesador	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
Memoria	Soporta DDR4-1866/2133/2400 Doble Canal 2x DDR4 DIMM Ranura de memoria Soporta hasta 8 GB Memoria Cada DIMM soporta un modulo non-ECC 4 GB DDR4 * Por favor consultar con www.biostar.com.tw para la lista de compatibilidad con el memoria.
Almacenamiento de información	Conector 2x SATA III (6Gb/s) : Soporta AHCI 1x M.2 (M Key) : Soporta PCI-E 2.0 x2 (10Gb/s) & SATA III (6Gb/s) SSD
LAN	RTL8111H 10/ 100/ 1000 Mb/s auto negociación, capacidad dúplex Mitad/Completo
Códec Audio	ALC887/ALC897 Canales Audio de Alta Definición 7.1
USB	Ranura 2x USB 3.1(Gen1) (2 en las entrada/salidas posteriores) Ranura 6x USB 2.0 (2 en las entrada/salidas posteriores y 4 por los distribuidores internos)
Ranuras de Extinción	Ranura 1x PCIe 2.0 x16 Ranura 1x Key E - M.2 (Opcional)
Panel trasero de E/S	Teclado / Ratón 1x PS/2 Ranura 1x HDMI Ranura 1x VGA Ranura 2x USB 3.1(Gen1) Ranura 2x USB 2.0 Ranura 1x LAN Socket audio 3x
Conectores en placa	Conector 2x SATA III 6Gb's Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0) Conector con 4 patillas x1 Conector con 24 patillas x1 Conector Ventilador Sistema x2 Distribuidor Panel Frontal x1 Distribuidor Audio Frontal x1 Distribuidor Ranura Serie x2 Distribuidor Ranura Impresora x1 Distribuidor CMOS Directo x1 Distribuidor TPM x1 (Opcional)
Factor de Forma	Factor de Forma Mini-ITX, 170 mm x 170 mm
Soporte OS	Windows 10(64bit) * Biostar reserva su derecho de añadir o retirar el soporte para cada OS con o sin notificación.

Thai

คุณสมบัติ	
ซีพีย	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
หน่วยความจำ	สนับสนุน Dual Channel DDR4-1866/2133/2400 รองรับหน่วยความจำ 2 สล็อต DDR4 DIMM สูงสุดถึง 8 GB ทุก DIMM สนับสนุนโมดูล non-ECC 4GB DDR4 * เข้าชมได้ที่ www.biostar.com.tw สำหรับรายการหน่วยความจำที่สนับสนุน
สตอเรจ	2x SATA III พอร์ตเชื่อมต่อ (6Gb/s) : สนับสนุน AHCI 1x M.2 (M Key) : สนับสนุน PCI-E 2.0 x2 (10Gb/s) & SATA (6Gb/s) SSD
แลน	RTL8111H 10/ 100/ 1000 Mb/s การเจรจาอัตโนมัติ, ความสามารถในการเพล็กซ์ Half / Full
ออดิโอ โคเดก	ALC887/ALC897 7.1 Channels, High Definition Audio
ยูเอสบี	2x USB 3.1(Gen1) พอร์ต (2 พอร์ตด้านหลัง I/O) 6x USB 2.0 พอร์ต (2 พอร์ตด้านหลัง I/O และ 4 พอร์ต ผ่านพอร์ตเชื่อมต่อด้านใน)
สล็อตขยายเพิ่มเติม	1x PCIe 2.0 x16 สล็อต 1x Key E - M.2 สล็อต (ไม่จำเป็น)
พอร์ต I/O ด้านหลัง	1x PS/2 คีย์บอร์ด / เมาส์ 1x HDMI พอร์ต 1x VGA พอร์ต 2x USB 3.1(Gen1) พอร์ต 2x USB 2.0 พอร์ต 1x LAN พอร์ต 3x Audio Jack
พอร์ต I/O ด้านใน	2x SATA III - 6Gb/s พอร์ตเชื่อมต่อ 2x USB 2.0 พอร์ตเชื่อมต่อ (หัวเชื่อมต่อทุกตัวรองรับ 2 พอร์ต USB 2.0) 1x 4-Pin Power พอร์ตเชื่อมต่อ 1x 24-Pin Power พอร์ตเชื่อมต่อ 2x พอร์ตเชื่อมต่อระบบ Fan 1x พอร์ตเชื่อมแต่แผงด้านหน้า 1x พอร์ตเชื่อมต่อออดิโอด้านหน้า 2x พอร์ตเชื่อมต่อ Serial Port 1x พอร์ตเชื่อมต่อปรินเตอร์ 1x พอร์ต Clear CMOS 1x พอร์ตเชื่อมต่อ TPM (ไม่จำเป็น)
รูปแบบจากโรงงาน	Mini-ITX จากโรงงาน, 170มม. x 170 มม
สนับสนุน OS	Windows 10(64bit) Biostar ขอสงวนสิทธิ์ในการเพิ่มหรือถอดการสนับสนุนสำหรับระบบปฏิบัติการ OS ต่างๆ โดยไม่ต้องแจ้งให้ทราบล่วงหน้า

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FCC条款

依照FCC条款第15部分的规定，本装置已经通过测试并且符合Class B级数字装置的限制。此条款限制了在安装过程中可能造成的有害射频干扰并提供了合理的防范措施。本装置在使用时会产生无线射频辐射，如果没有依照本手册的指示安装和使用，可能会与无线通讯装置产生干扰。然而，并不保证在特定的安装下不会发生任何干扰。

如果关闭和重新开启本设备后，仍确定本装置造成接收广播或电视的干扰，用户可以使用以下列表中的一种或多种方法来减少干扰：

- 重新安装或调整接收天线。
- 增加本设备与接收设备之间的距离。
- 连接设备连接到不同的插座以便于两个设备使用不同的回路。
- 咨询经销商或富有经验的无线电工程师，以获得更多资讯。

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CE符合性简短声明

我们声明此产品符合现行标准，并满足2004/108/CE，2006/95/CE 和1999/05/CE指令规定的所有基本要求。

防静电操作规则

静电可能严重损坏您的设备，在处理主板以及其它的系统设备的时候要特别注意，避免和主板上的系统组件的不必要接触，保证在抗静电的环境下工作，避免静电放电可能对主板造成损坏，当在您的机箱中插入或者移除设备时，请保证电源处于断开状态，厂商对于不遵照本操作规则或者不遵守安全规范而对主板造成的损坏不负责。

警告

主板易受静电损坏

请遵守操作规则

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第一章: 主板介绍

1.1 前言

感谢您选购我们的产品，在开始安装主板前，请仔细阅读以下安全指导说明：

- 选择清洁稳定的工作环境。
- 操作前请确保计算机断开电源。
- 从抗静电袋取出主板之前，先轻触安全触地器或使用触地手腕带去除静电以确保安全。
- 避免触摸主板上的零件。手持电路板的边缘，不要折曲或按压电路板。
- 安装之后，确认没有任何小零件置于机箱中，一些小的零件可能引起电流短路并可能损坏设备。
- 确保计算机远离危险区域，如：高温、潮湿、靠近水源的地方。
- 计算机的工作温度应保持在0-45℃之间
- 为避免受伤，请注意以下幾點：
  主板或連接器上尖銳的針腳
  机箱上的粗糙边缘和尖角
  破损的线缆可能引起短路

1.2 包装清单

- Serial ATA数据线 x2
- ATX机箱后置I/O面板 x1
- 快速指南 x1
- 驱动光盘 x1 (包括安装驱动)

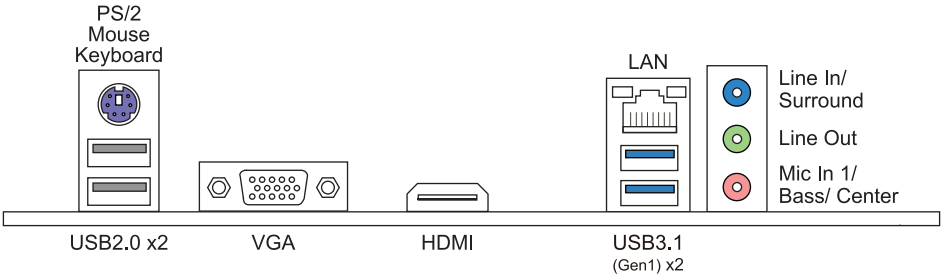
注意

» 此清单可能因销售区域或主板型号不同而异，相关标配详情请咨询当地经销商。

1.3 主板特性

规格	
CPU	J4025NHU: Intel® Celeron® J4025 processor J4125NHU: Intel® Celeron® J4125 processor
内存	支持双通道DDR4-1866/2133/2400 2个DDR4 DIMM插槽，最大内存容量为8GB 每个DIMM支持非ECC 4GB DDR4内存模组 * 请访问 www.biostar.com.tw 获取内存的支持列表
存储器	2个SATA III接口 (6Gb/s)：支持 AHCI 1个M.2 (M Key) : 支持 PCI-E 2.0 x2 (10Gb/s) & SATA III (6Gb/s) SSD
网络	RTL8111H 10/ 100/ 1000 Mb/s自适应传输模式，半双工/全双工工作模式
音效	ALC887/ALC897 8声道音频输出，支持高清音频
USB	2个USB 3.1(Gen1)端口(背板2个端口) 6个USB 2.0端口(背板2个端口，板载接头支持4个端口)
扩展槽	1个PCIe 2.0 x16插槽 1个Key E - M.2插槽 (选配)
背板接口	1个PS/2键盘/ 鼠标接口 1个HDMI端口 1个VGA端口 2个USB3.1(Gen1)端口 2个USB2.0端口 1个LAN端口 3个音频插孔
板载接口	2个SATA III接口 (6Gb/s) 2个USB2.0接头(每个接头支持2个USB2.0端口) 1个电源接口(4针) 1个电源接口(24针) 2个系统风扇接头 1个前置面板接头 1个前置音频接头 2个串行端口 1个打印机端口 1个清空CMOS数据接头 1个TPM接头 (选配)
主板尺寸	Mini-ITX Form Factor，170 mm x 170 mm
操作系统支持	Windows 10(64bit) / Windows 11(64bit) * 如有增加或减少任何OS支持，Biostar保留不预先通知的权利。

1.4 后置面板接口



注意

» 仅Intel集成显卡处理器支持VGA和HDMI端口。

» 最高分辨率：
VGA: 1920 x 1200 @60Hz
HDMI: 4096 x 2160 @30Hz · 符合HDMI 1.4规范

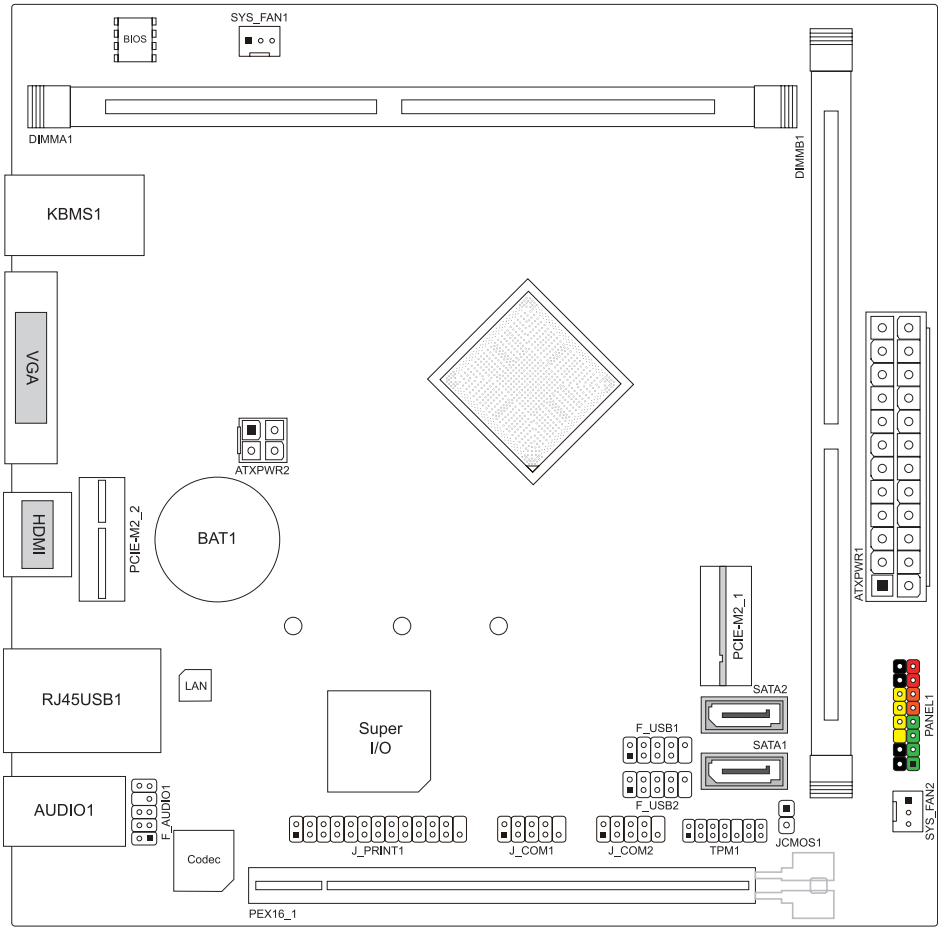
» 当使用前置HD音频插孔并插入耳机/麦克风时 · 后置声音将自动禁用。

» 主板同时支持2个板载显示端口输出。显示输出的配置可以在英特尔图形驱动程序工具中进行选择。

2/ 4/ 5.1/ 7.1-声道模式配置

音频接口	2 声道模式	4 声道模式	5.1 声道模式	7.1 声道模式
蓝色 (背部面板)	线性输入	线性输入	线性输入	侧边声道输出
绿色 (背部面板)	线性输出	前置声道输出	前置声道输出	前置声道输出
粉红色 (背部面板)	麦克风输入	麦克风输入	中置/重低单声道输出	中置/重低单声道输出
草绿色 (前置面板)	耳机	后置声道输出	后置声道输出	后置声道输出

1.5 主板布局图



注意

» ■ 标示为针脚1

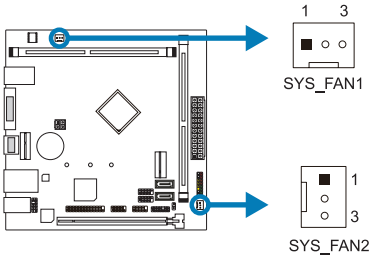
» PCIE-M2_2插槽/ TPM接头为选配。

第二章: 硬件安装

2.1 风扇接头

此风扇接头支持电脑内置的冷却风扇，风扇引线和插头可能因制造商而异。

SYS_FAN1/2: 系统风扇接头



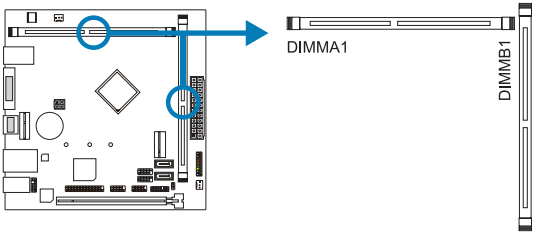
针	定义
1	接地
2	+12V
3	FAN RPM rate sense

注意

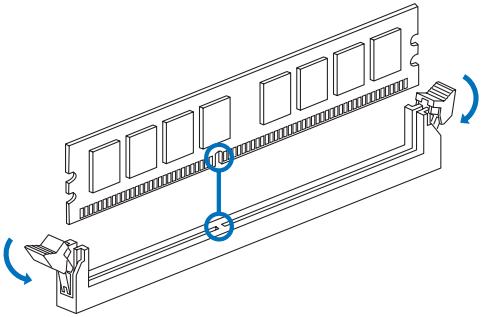
» SYS_FAN1/2支持3针脚接口；接线时请注意红线是正极需接到第二个针脚，黑线接地需接到GND针脚。

2.2 系统内存

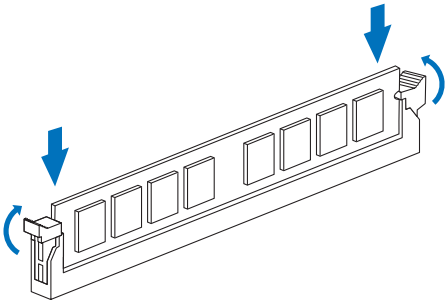
DDR4 内存模组



步骤1: 向外推开固定夹，打开DIMM插槽。将DIMM按顺序放在插槽上， DIMM上的切口须与插槽凹口匹配。



步骤2: 垂直插入DIMM并固定好，直到固定夹跳回原位，DIMM就位。



注意

» 如果DIMM未顺利插入，请勿强行按压。将DIMM拔出，再重插一次。

内存容量

DIMM插槽位置	DDR4模组	总内存
DIMMA1	4GB	最大为 8GB.
DIMMB1	4GB	

双通道内存安装

为激活主板双通道功能，使用内存模组必须符合以下要求： 成对安装相同密度的内存模组。如下表所示

双通道状态	DIMMA1	DIMMB1
Disabled	O	X
Disabled	X	O
Enabled	O	O

(“O” 表示内存已安装， “X ” 表示内存未安装。)

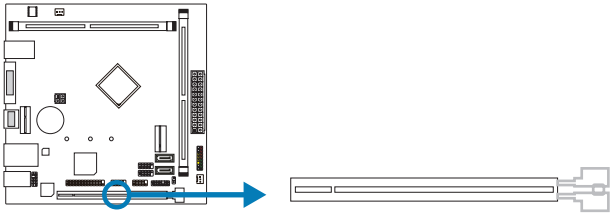
注意

» 当安装多个内存模块時，我们建议使用相同品牌和容量的内存於主板上。

2.3 扩展槽

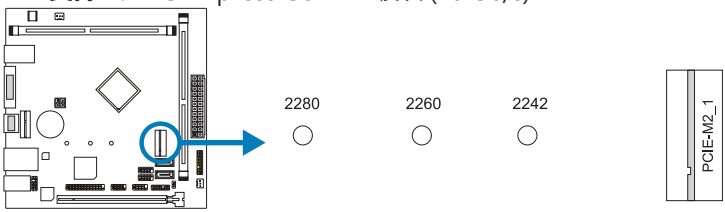
PEX16_1: PCI-Express Gen2 x16 插槽

- 符合PCI-Express 2.0规范。
- 同步单向最大理论带宽为8GB/s，总带宽为16GB/s。



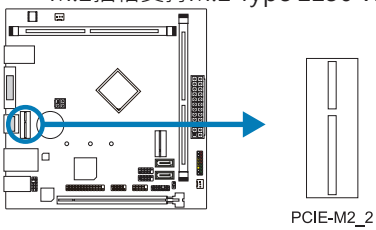
PCIE-M2_1: M.2 (Key M) 插槽

- M.2插槽支持M.2 Type 2242/2260/2280 SSD模块。安装M.2模块前请将六角柱放到正确的位置。
- 支持M.2 PCI Express Gen2 x2模块 (10 Gb/s)。



PCIE-M2_2: M.2 (Key E) 插槽(选配)

- M.2插槽支持M.2 Type 2230 WiFi模块。



安装扩展卡

请参照以下步骤安装扩展卡：

- 安装扩展卡前请阅读扩展卡的相关指示说明。
- 打开电脑机箱后盖，移除螺丝和插槽支架。
- 将扩展卡按照正确的方向插入插槽，直到扩展卡完全就位。
- 用螺丝将扩展卡的金属支架固定到机箱后置面板。
- 还原电脑机箱后盖。
- 开机。如有必要，可为扩展卡更改BIOS设置。
- 安装扩展卡的驱动。

2.4 跳线设置

下图展示如何设置跳线。当跳帽放置在针脚上时，跳线为闭合(close)状态。否则跳线为断开(open)状态。

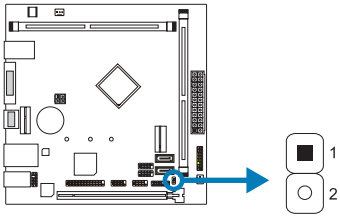
Pin 打开

Pin 闭合

Pin 1-2 闭合

JCMOS1: 清空CMOS 跳线

用户可清空CMOS数据并恢复BIOS安全设置，请按照以下步骤操作以免损坏主板。



Pin 1-2 打开: 正常操作(默认)

Pin 1-2 闭合: 清空CMOS数据

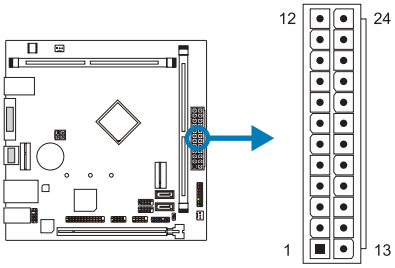
清空CMOS数据过程:

1. 断开AC电源。
2. 将跳线设置成1-2接脚闭合，建议可以使用一个金属物体如螺丝刀触碰1-2接脚。
3. 等待5秒钟。
4. 清空CMOS数据後，请确认跳线设置成1-2接脚打开。
5. 接通AC电源。
6. 开机然后按下<Del>键进入BIOS设置。

2.5 接口和插槽

ATXPWR1: ATX电源接口

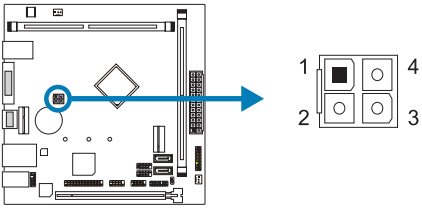
为了更好的兼容性，我们建议使用标准的ATX24-pin电源供应此接口的电源。



针	定义	针	定义
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	接地	3	接地
16	PS_ON	4	+5V
17	接地	5	接地
18	接地	6	+5V
19	接地	7	接地
20	NC	8	PW_OK
21	+5V	9	唤醒电压+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	接地	12	+3.3V

ATXPWR2: ATX电源接口

此接口给CPU电路提供+12V电压。



针	定义
1	+12V
2	+12V
3	接地
4	接地

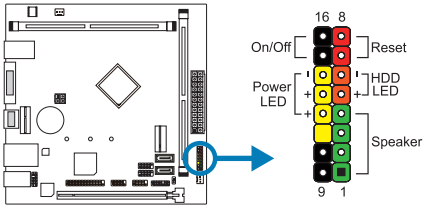
注意

» 开机前，请确保ATXPWR1和ATXPWR2接口都已插上电源。

» 电压不足可能导致系统不稳或者外围设备不能正常运行。当配置使用大功率设备的系统时，建议您使用带有大功率输出的电源。

PANEL1: 前置面板接头

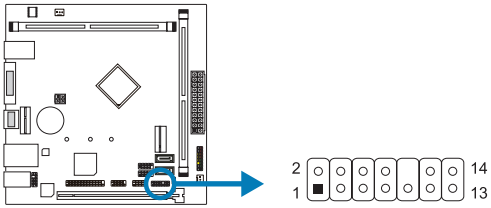
此16针脚接口包含开机，重启，硬盘指示灯，电源指示灯和扬声器接口。



针	定义	功能	针	定义	功能
1	+5V	扬声器接口	9	N/A	N/A
2	N/A		10	N/A	
3	N/A		11	N/A	N/A
4	扬声器		12	Power LED (+)	电源指示灯
5	HDD LED (+)	硬盘指示灯	13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	接地	重启按钮	15	电源按钮	开机按钮
8	Reset control		16	接地	

TPM1:TPM接头(选配)

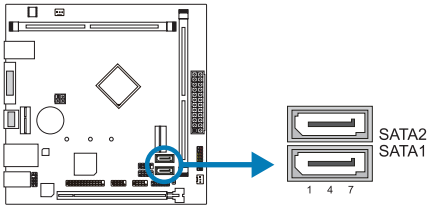
此接头可连接可信任安全平台模组系统，可用来储存金钥、认证与资料，并增加网路安全性。



针	定义	针	定义
1	F_LAD0	2	+3V
3	F_LAD1	4	+3V
5	F_LAD2	6	C_PCICLK_TPM
7	F_LAD3	8	GND
9	F_FRAME#	10	NC
11	F_SERIRQ	12	S_PCIRST#_TBD
13	F_CLKRUN	14	+3VSB

SATA1/ 2: 串行SATA接口

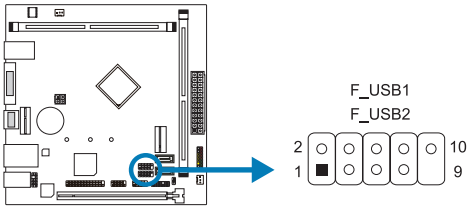
此接口通过SATA数据线连接SATA硬盘。



针	定义
1	接地
2	TX+
3	TX-
4	接地
5	RX-
6	RX+
7	接地

F_USB1/ 2: 前置面板USB 2.0接头

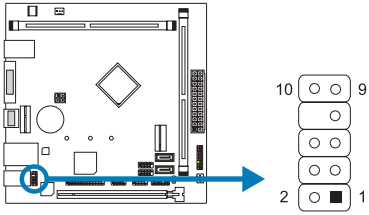
PC前置面板支持附加的USB数据线，也可连接即插即用外围设备。



针	定义
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	接地
8	接地
9	Key
10	NC

F_AUDIO1: 前置面板音频接头

此接头可连接音频输出数据线，支持HD(高清)音频和AC’ 97。



HD Audio		AC’ 97	
针	定义	针	定义
1	Mic Left in	1	Mic In
2	接地	2	接地
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

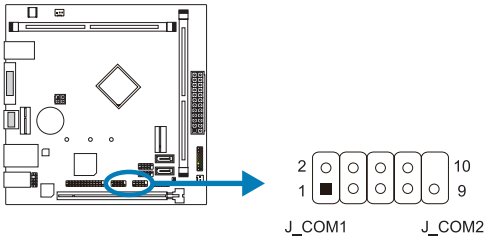
注意

» 建议您连接前置高清音频插孔，享用主板高清音频功能。

» 如果要连接AC’ 97前置音频输出数据线，请关闭”前置面板插孔检测功能”。此功能在系统音频工具中可见。

J_COM1/2: 串行端口

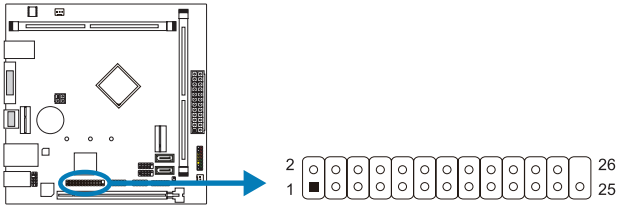
此主板有一个串行端口可接出RS-232接头。



针	定义
1	载波检测
2	接收资料
3	发送数据
4	资料终端备妥
5	接地信号
6	资料集备妥
7	输送要求
8	清除发送
9	振铃指示器
10	Key

J_PRINT1: 打印机端口

此接头可连接打印机端口。



针	定义	针	定义
1	-Strobe	14	接地
2	-ALF	15	Data 6
3	Data 0	16	接地
4	-Error	17	Data 7
5	Data 1	18	接地
6	-Lnit	19	-ACK
7	Data 2	20	接地
8	-Scltin	21	Busy
9	Data 3	22	接地
10	接地	23	PE
11	Data 4	24	接地
12	接地	25	SCLT
13	Data 5	26	Key

第三章: UEFI BIOS和软件

3.1 UEFI BIOS设置

- BIOS设置程序可用于查看和更改计算机的BIOS设置。开机自检时，按<DEL>键可进入BIOS设置程序。
- 更多相关UEFI BIOS设置信息，请参考网站上的UEFI BIOS手册。

3.2 刷新BIOS

以下任意一种工具都可以刷新BIOS:

- BIOSTAR BIO-Flasher: 使用此工具，BIOS可通过硬盘上的文件刷新，USB驱动刷新，或者CD-ROM 刷新。
- BIOSTAR BIOS刷新工具: 能够在Windows 环境下自动刷新。使用此工具，BIOS可通过硬盘上的文件刷新， USB驱动刷新，CD-ROM 刷新或者从网站上的文件地址刷新。

BIOSTAR BIO-Flasher

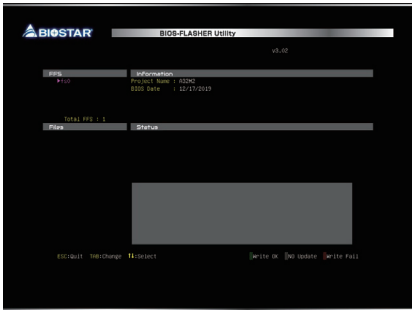
注意

» 此工具仅允许可使用FAT32/16格式化或单个分区的存储设备。
» 刷新BIOS时如关机或重启系统将导致系统引导失败。

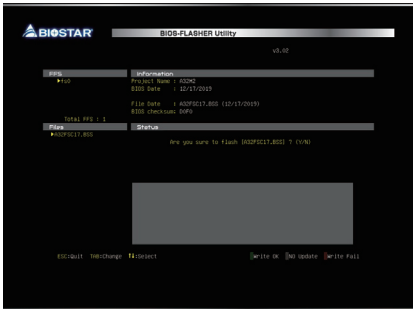
使用BIOSTAR BIO-Flasher刷新BIOS

1. 进入网站下载与主板相匹配的最新BIOS文件。
2. 然后保存BIOS文件到U-盘。(仅支持FAT/FAT32格式)
3. 插入包含BIOS文件的U-盘到USB接口
4. 开机或重启后，在自检过程中按<F12>键。.

5. 进入自检后，屏幕会弹出BIO-FLASHER工具。选择<fs0>搜索BIOS文件。



6. 选择合适的BIOS文件，并按” Yes” 执行BIOS刷新程序。



7. BIOS刷新后会弹出是否重启系统的对话框。按<Y>重启系统

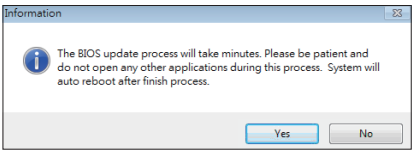
8. 系统引导并出现相关标识信息时，按<DEL>键进入BIOS设置。
选择<Save & Exit>，使用<Restore Defaults>功能加载系统默认值，然后选择<Save Changes and Reset>来重启系统，完成BIOS刷新。

BIOS刷新工具（通过网络）

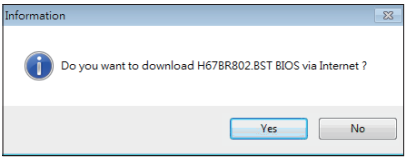
1. 用DVD驱动安装BIOS Update Utility。
2. 使用此功能时，请确保电脑联网。

3. 打开BIOS刷新工具，然后点击”Online Update”按钮。

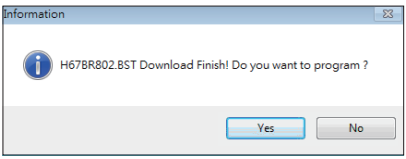
4. 屏幕弹出是否执行刷新BIOS程序的对话请求，点击”Yes”开始刷新BIOS。



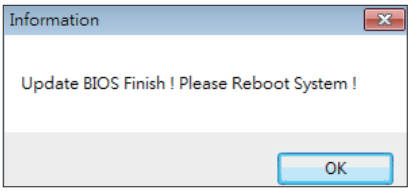
5. 如果BIOS有新版本，屏幕会弹出提示您下载最新版本的对话框。点击”Yes”下载。



6. 完成下载后，屏幕弹出提示您刷新BIOS的对话框，点击”Yes”开始刷新。



7. 刷新程序结束后，屏幕弹出提示您重启系统的对话框。点击”OK”重启系统。



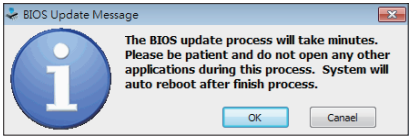
8. 系统引导并出现相关标识信息时，按<DEL>键进入BIOS设置。
选择<Save & Exit>，使用<Restore Defaults>功能加载系统默认值，然后选择<Save Changes and Reset>来重启系统，完成BIOS刷新。

BIOS刷新工具（通过BIOS文件）

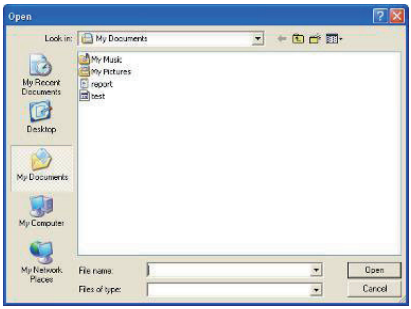
1. 用DVD驱动安装BIOS刷新工具。
2. 从我们的网站www.biostar.com.tw 下载合适的BIOS.

3. 在主页面打开BIOS Updat Utility，然后点击”Update BIOS”按钮。

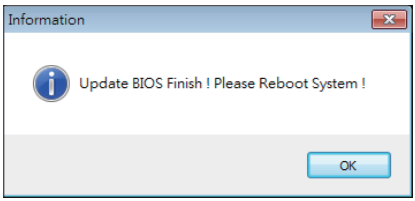
4. 屏幕弹出是否执行刷新BIOS程序的对话请求，点击”OK”开始刷新BIOS。



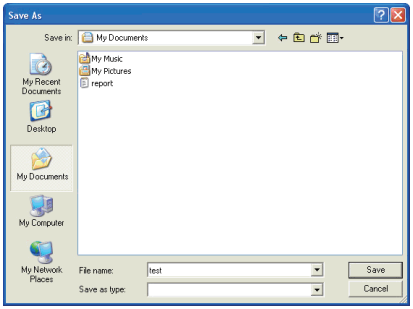
5. 选择BIOS文件的存放目录。然后选择合适的BIOS文件，点击”Open”。
刷新BIOS要花几分钟时间，请耐心等待。



6. BIOS刷新过程结束后，点击”OK”重启系统。



7. 系统引导并出现相关标识信息时，按<DEL>键进入BIOS设置。
选择<Save & Exit>，使用<Restore Defaults>功能加载系统默认值，然后选择<Save Changes and Reset>来重启系统，完成BIOS刷新。



BIOS备份

点击BIOS备份按钮，选择存储备份文件的合适目录，然后点击”Save”。

3.3 软件

安装软件

1. 将光盘放入光驱，若Autorun功能已激活，驱动安装程序将会出现。
2. 选择Software Installation，然后点击各软件图标。
3. 根据屏幕上的指令完成安装。

启动软件

安装程序完成后，桌面上将出现软件图标。请双击图标启动软件工具。

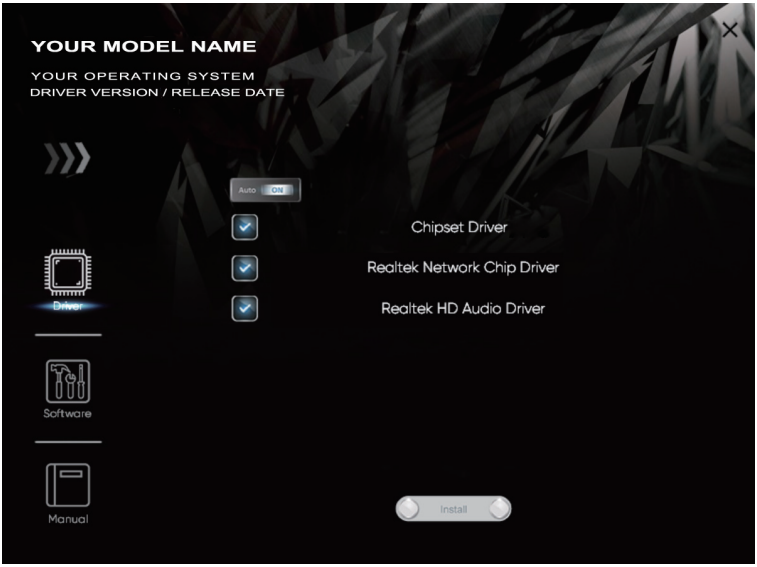
注意

» 所有软件的相关信息和内容若有变更，恕不另行通知。为使系统性能更佳，软件会不断升级。
» 下面的图片和信息仅供参考，此主板的实际信息和设置可能与手册稍有差异。

第四章:帮助信息

4.1 驱动程序安装注意事项

为获得更好的系统性能，在操作系统安装完成后，请插入您的系统驱动到光驱并安装。插入DVD后，将出现如下所示窗口。



此设置向导将自动检测您的主板和操作系统。

A. 驱动程序安装

安装驱动程序，请点击驱动器图标。设置向导将列出主板兼容驱动和操作系统。点击各设备驱动程序，以开始安装进程。

B. 软件安装

安装软件，请点击软件图标。设置向导将列出系统可用软件，点击各软件名称，以开始安装进程。

C. 使用手册

除了书本形式的手册，我们也提供光盘形式的使用指南。点击Manual图标，浏览可用相关使用指南。

注意

» 在插入驱动之后，如此窗口未出现，请用文件浏览器查找并执行SETUP.EXE文件。
» 若需要Acrobat Reader打开manual文件。请从网站http://get.adobe.com/reader/下载最新版本的Acrobat Reader软件。
» 插图中使用的主板可能与实际的主板不同。 这些插图仅供参考。

4.2 AMI BIOS 哔声代码

引导模块哔声代码

哔声次数	含义
持续哔声	持续哔声

BIOS 开机自检哔声代码

哔声次数	含义
1	系统引导成功
8	显存错误(系统视频适配器)

4.3 AMI BIOS 开机自检代码

代码	含义
10	PEI核心启动
11	CPU Pre-memory初始化启动
15	北桥Pre-memory初始化启动
19	南桥Pre-memory初始化启动
2B	内存初始化，读取SPD数据
2C	内存初始化，检测Memory presence
2D	内存初始化，编程内存时序信息
2E	内存初始化，配置内存
2F	内存初始化（其他）
31	内存安装完成
32	CPU post-memory初始化启动
33	CPU post-memory初始化，Cache初始化
34	CPU post-memory初始化，应用处理器初始化
35	CPU post-memory初始化，选择BSP
36	CPU post-memory初始化，系统管理模式初始化
37	北桥Post-Memory初始化启动
3B	北桥Post-Memory初始化
4F	DXE IPL启动
60	DXE核心启动
F0	固件引起的恢复条件(自动恢复)
F1	用户引起的恢复条件(强制恢复)
F2	恢复进程启动
F3	找到固件恢复图象
F4	加载固件恢复图象
E0	S3唤醒启动
E1	执行S3启动脚本
E2	重新发送影像
E3	系统S3待机导向
60	DXE内核启动
61	NVRAM初始化
62	安装南桥运行期
63	CPU DXE初始化启动
68	PCI HB初始化
69	北桥DXE初始化
6A	北桥DXE SMM初始化启动

代码	含义
70	南桥DXE初始化启动
71	南桥DXE SMM初始化启动
72	南桥设备初始化
78	南桥DXE初始化
79	ACPI模组初始化
90	引导设备选择阶段启动
91	驱动连接启动
92	PCI总线初始化启动
93	PCI总线热拔插控制器初始化
94	PCI总线列举
95	PCI总线请求资源
96	PCI总线分配资源
97	控制台输出设备连接
98	控制台输入设备连接
99	高级IO初始化
9A	USB初始化启动
9B	USB复位
9C	USB检测
9D	USB启用
A0	IDE初始化启动
A1	IDE复位
A2	IDE检测
A3	IDE启用
A4	SCSI初始化启动
A5	SCSI复位
A6	SCSI检测
A7	SCSI启用
A8	设置校对密码
A9	设置开始
AB	设置输入等待
AD	准备启动环境
AE	传统启动环境
AF	退出启动环境
B0	虚拟地址图开始
B1	虚拟地址图结束
B2	传统可选ROM初始化
B3	系统复位
B4	USB热拔插
B5	PCI总线热拔插
B6	清理NVRAM
B7	配置复位(NVRAM设置复位)

注意

» 如此窗若出现表格未列出的代码，请联系我们的技术支持。

4.4 问题解答

问题	解决方法
1. 系统没有电，电源指示灯不亮，电源风扇不转动。 2. 键盘上的指示灯不亮。	1. 确定电源线是否接好。 2. 更换线材。 3. 联系技术支持。
系统不起作用。键盘指示灯亮，电源指示灯亮，硬盘正常运作。	用力按压内存两端，确保内存安置于插槽中。
系统不能从硬盘启动，能从光盘启动。	1. 检查硬盘与主板的连线，确定各连线是否确实接好，检查标准CMOS设置中的驱动类型。 2. 硬盘随时都有可能坏掉，所以备份硬盘数据是很重要的。
系统只能从光盘启动。硬盘能被读，应用程序能被使用，但是不能从硬盘启动。	1. 备份数据和应用程序。 2. 重新格式化硬盘。用后备盘重新安装应用程序和数据。
屏幕提示“Invalid Configuration” 或“CMOS Failure”。 再次检查系统设备，确定设定是否正确安装了第二个硬盘	再次检查系统设备，确定设定是否正确
安装了第二个硬盘后，系统不能启动。	1. 正确设置主/从硬盘跳线。 2. 运行安装程序，选择正确的驱动类型。与驱动器厂商联系，寻求驱动兼容性的技术支持。

CPU过热保护系统

在开启系统数秒后如有自动关机的现象，这说明CPU保护功能已被激活。CPU过热时，防止损坏CPU，主机将自动关机，系统则无法重启。

此种情况下，请仔细检查。

1. CPU 散热器平放在CPU表面。
2. CPU风扇能正常旋转。
3. CPU风扇旋转速度与CPU运行速度相符。

确认后，请按以下步骤缓解CPU保护功能。

1. 切断电源数秒。
2. 等待几秒钟。
3. 插上电源开启系统。

或是:

1. 清除CMOS数据。(查看“Close CMOS Header: JCMOS1” 部分)
2. 等待几秒钟。
3. 重启系统。

附录Ⅰ：产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅（Pb）	汞（Hg）	镉（Cd）	六价铬（Cr(VI)）	多溴联苯（PBB）	多溴二苯醚（PBDE）
PCB板	O	O	O	O	O	O
结构件	O	O	O	O	O	O
芯片及其它主动零件	X	O	O	O	O	O
连接器	X	O	O	O	O	O
被动电子元器件	X	O	O	O	O	O
焊接金属	O	O	O	O	O	O
线材	O	O	O	O	O	O
助焊剂、散热膏、标签及其它耗材	O	O	O	O	O	O

O：表示该有毒有害物质在该部件所有均质材料中的含量在SJ/T11363-2006标准规定的限量要求以下。
X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。
备注：在芯片及其它主动零件、连接器、被动电子元器件Pb栏位中有打X，表示Pb在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求，但均符合欧盟ROHS指令豁免条款。