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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

Table of Contents		
Chapter 1: Introduction		1
1.1	Before You Start.....	1
1.2	Package Checklist.....	1
1.3	Motherboard Specifications	2
1.4	Central Processing Unit (CPU).....	3
1.5	Rear Panel Connectors	3
1.6	Motherboard Layout	4
Chapter 2: Hardware Installation		5
2.1	Connect Cooling Fans	5
2.2	Install System Memory	5
2.3	Expansion Slots	7
2.4	Jumper Setting	8
2.5	Headers & Connectors	9
Chapter 3: UEFI BIOS & Software.....		13
3.1	UEFI BIOS Setup	13
3.2	BIOS Update	13
3.3	Software.....	17
Chapter 4: Useful Help		20
4.1	Driver Installation.....	22
4.2	AMI BIOS Beep Code.....	23
4.3	Troubleshooting.....	23
Appendix: SPEC In Other Languages		25
Arabic		25
French		26
German.....		27
Italian		28
Japanese		29
Polish.....		30
Portuguese		31
Russian.....		32
Spanish.....		33

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

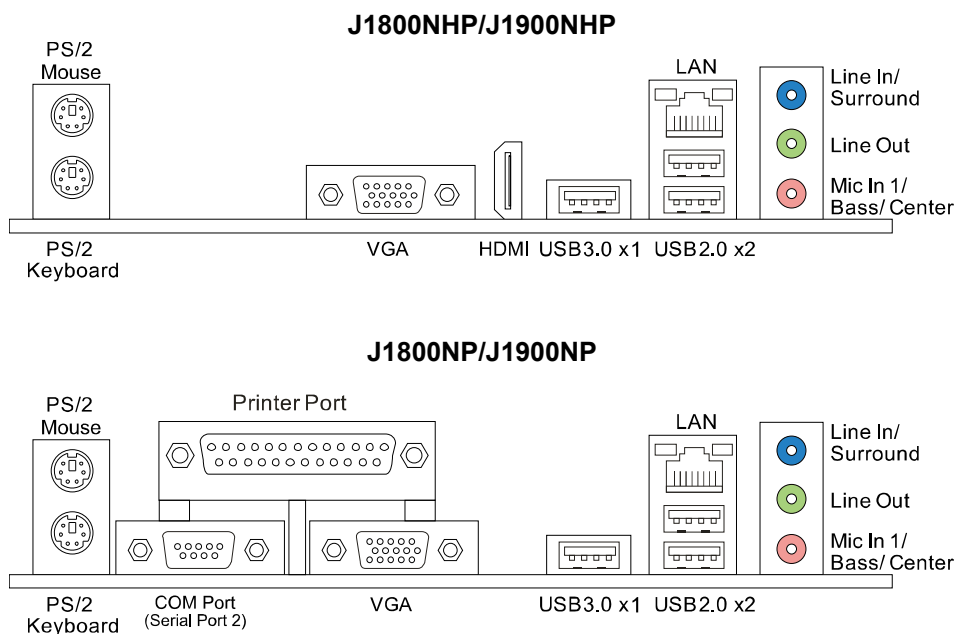
- ☒ Serial ATA Cable x2
- ☒ Rear I/O Panel for ATX Case x1
- ☒ Installation Guide x1
- ☒ Fully Setup Driver DVD x1

<p>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.</p>

1.3 Motherboard Specifications

Specifications																					
CPU Support	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)																				
Memory	Supports Dual Channel DDR3L 1333 (1.35V/1.5V) 2x DDR3L SO-DIMM Memory Slot, Max. Supports up to 16 GB Memory Each DIMM supports non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L module * Please refer to www.biostar.com.tw for Memory support list.																				
Storage	2x SATA 3Gb/s Connector, Supports Native IDE, AHCI Mode																				
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability																				
Audio Codec	ALC662, 5.1 Channels, High Definition Audio																				
USB	6x USB 2.0 port (2 on rear I/Os and 4 via internal header) 1x USB 3.0 port (1 on rear I/Os)																				
Expansion Slots	1x PCI x1 Slot																				
Rear I/Os	<table> <tr> <td>J1800NHP/J1900NHP:</td><td>J1800NP/J1900NP:</td></tr> <tr> <td>1x PS/2 Mouse</td><td>1x PS/2 Mouse</td></tr> <tr> <td>1x PS/2 Keyboard</td><td>1x PS/2 Keyboard</td></tr> <tr> <td>1x VGA Port</td><td>1x COM Port</td></tr> <tr> <td>1x HDMI Port</td><td>1x Printer Port</td></tr> <tr> <td>1x USB 3.0 Port</td><td>1x VGA Port</td></tr> <tr> <td>2x USB 2.0 Port</td><td>1x USB 3.0 Port</td></tr> <tr> <td>1x LAN port</td><td>2x USB 2.0 Port</td></tr> <tr> <td>3x Audio Jack</td><td>1x LAN port</td></tr> <tr> <td></td><td>3x Audio Jack</td></tr> </table>	J1800NHP/J1900NHP:	J1800NP/J1900NP:	1x PS/2 Mouse	1x PS/2 Mouse	1x PS/2 Keyboard	1x PS/2 Keyboard	1x VGA Port	1x COM Port	1x HDMI Port	1x Printer Port	1x USB 3.0 Port	1x VGA Port	2x USB 2.0 Port	1x USB 3.0 Port	1x LAN port	2x USB 2.0 Port	3x Audio Jack	1x LAN port		3x Audio Jack
J1800NHP/J1900NHP:	J1800NP/J1900NP:																				
1x PS/2 Mouse	1x PS/2 Mouse																				
1x PS/2 Keyboard	1x PS/2 Keyboard																				
1x VGA Port	1x COM Port																				
1x HDMI Port	1x Printer Port																				
1x USB 3.0 Port	1x VGA Port																				
2x USB 2.0 Port	1x USB 3.0 Port																				
1x LAN port	2x USB 2.0 Port																				
3x Audio Jack	1x LAN port																				
	3x Audio Jack																				
Internal I/Os	2x SATA 3.0Gb/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 1x Clear CMOS Header 1x Serial Port Header 1x S/PDIF out Connector																				
Form Factor	Mini-ITX Form Factor, 170 mm x 170 mm																				
OS Support	Windows 7 / 8 / 8.1 Biostar reserves the right to add or remove support for any OS with or without notice.																				

1.4 Rear Panel Connectors



Note 1: Since the audio chip supports High Definition Audio Specification, the function of each audio jack can be defined by software. The input / output function of each audio jack listed above represents the default setting. However, when connecting external microphone to the audio port, please use the Line In (Blue) and Mic In (Pink) audio jack.

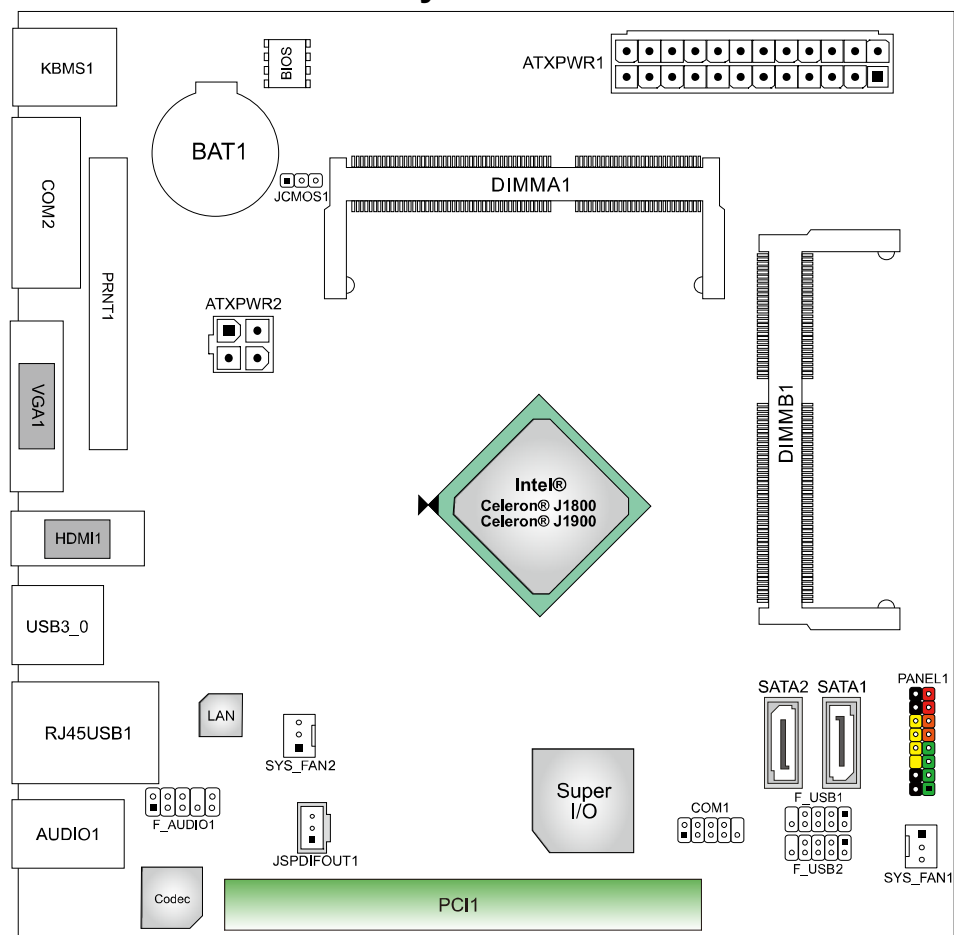
Note 2: Maximum resolution:
HDMI: 1920 x 1200 @60Hz
VGA: 2560 x 1600 @60Hz

1.5 Central Processing Unit (CPU)

The motherboard is equipped with an onboard Intel processor and a CPU cooler.

Model Name:	Onboard CPU:
J1800NHP	Intel® Celeron® J1800 processor (Dual core, 1M Cache, 2.58 GHz)
J1800NP	
J1900NHP	Intel® Celeron® J1900 processor (Quad core, 2M Cache, 2.42 GHz)
J1900NP	

1.6 Motherboard Layout



Note 1: ■ represents the 1st pin

Note 2: HDMI1 is only for J1800NHP/J1900NHP

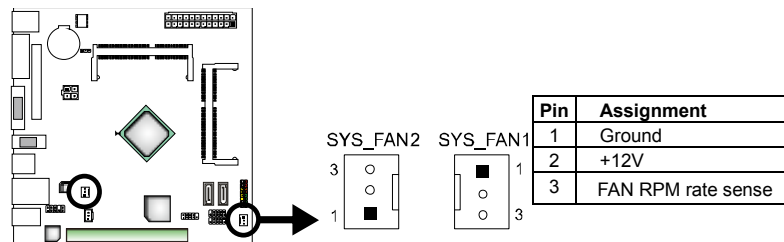
Note 3: PRNT1 & COM2 are only for J1800NP/J1900NP

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. Connect the fan cable to the connector while matching the black wire to pin#1.

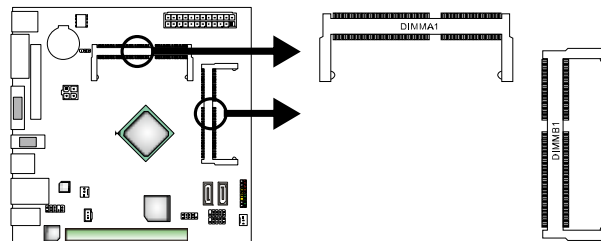
SYS_FAN1/2: System Fan Header



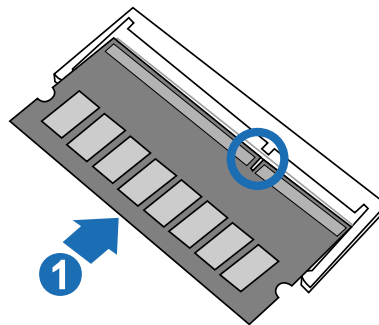
Note: SYS_FAN1/2 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.2 Install System Memory

A. DDR3L SO-DIMM Module (1.35V/1.5V)

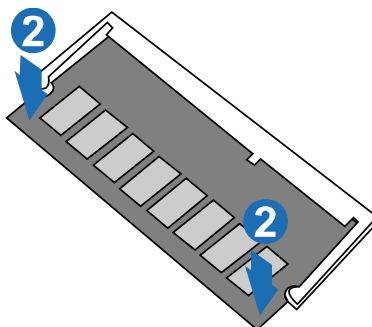


Step 1: Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



Motherboard Manual

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



Note1: The DIMM must be installed to DIMMA1 slot first.

Note2: If the DIMM does not go in smoothly, do not force it. Pull it all the way out and try again.

B. Memory Capacity

DIMM Socket Location	DDR3L Module	Total Memory Size
DIMMA1	512MB/1GB/2GB/4GB/8GB	Max is 16GB
DIMMB1	512MB/1GB/2GB/4GB/8GB	

C. 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
Enabled	O	O

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

Note: The DRAM bus width of the memory module must be the same (x8 or x16)

2.3 Expansion Slots

PCI1: Peripheral Component Interconnect Slots

- The PCI slot supports cards used in PCs include: LAN cards, sound cards, modems, TV tuner cards and other cards that comply PCI standard.



Install an Expansion Card

You can install your expansion card by following steps:

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

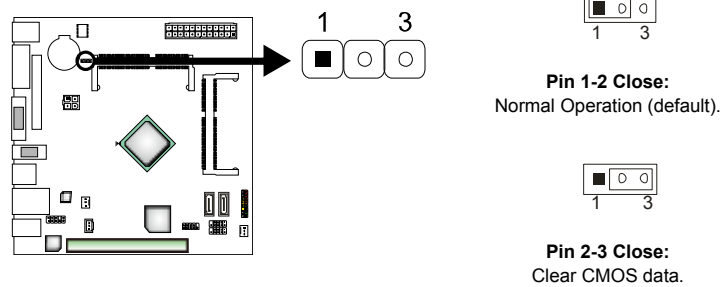
2.4 Jumper Setting

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”.



JCMOS1: Clear CMOS Header

Placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.



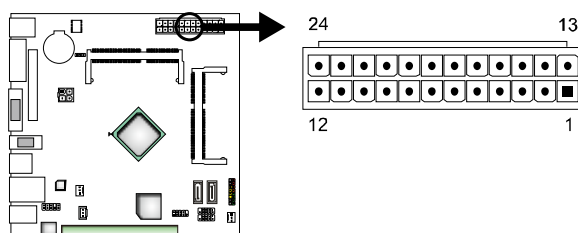
※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 2-3 close”.
3. Wait for five seconds.
4. Set the jumper to “Pin 1-2 close”.
5. Power on the AC.
6. Load Optimal Defaults and save settings in CMOS.

2.5 Headers & Connectors

ATXPWR1: ATX Power Source Connector

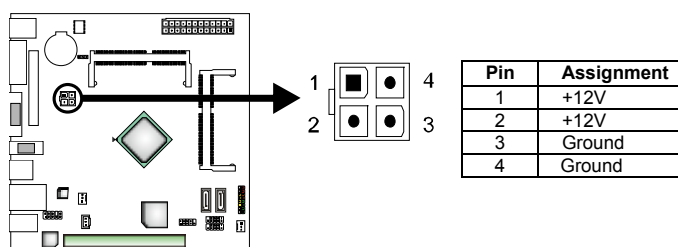
For better compatibility, we recommend to use a standard ATX 24-pin power supply for this connector. Make sure to find the correct orientation before plugging the connector.



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

This connector will provide +12V to CPU power circuit.



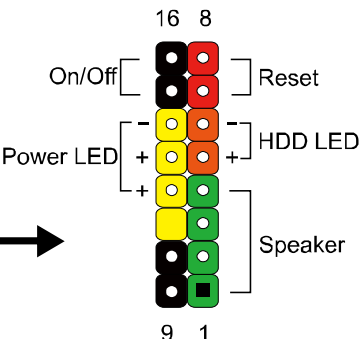
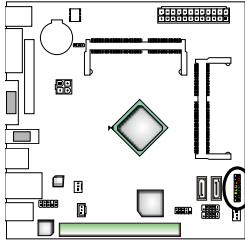
Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

Note1: Before you power on the system, please make sure that both ATXPWR1 and ATXPWR2 connectors have been plugged-in.

Note2: 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

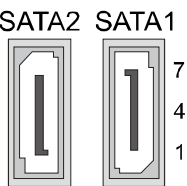
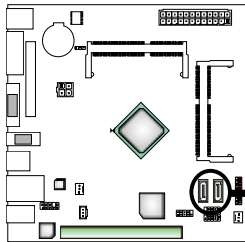
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	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	

SATA1/2: Serial ATA Connectors

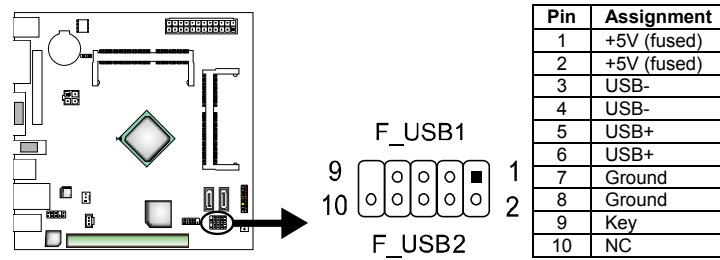
These connectors connect to SATA hard disk drives via SATA cables. It satisfies the SATA 2.0 specification and with transfer rate of 3.0Gb/s.



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

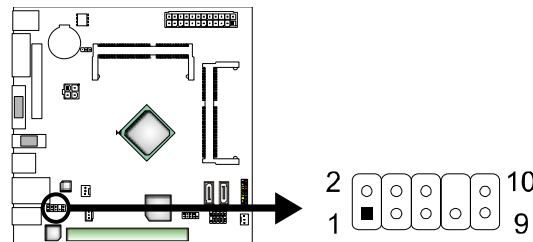
F_USB1/2: Header for USB 2.0 Ports at Front Panel

These headers allow user to connect additional USB cable on the PC front panel, and also can be connected with a wide range of simultaneously accessible external Plug and Play peripherals.



F_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel. This header supports HD and AC'97 audio front panel connector.



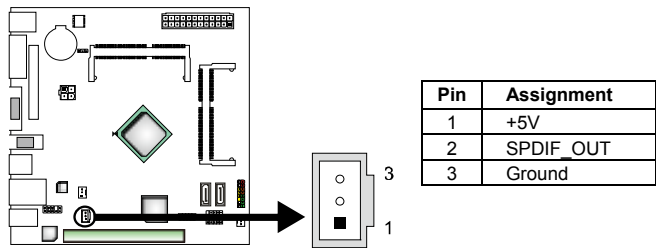
HD Audio		AC'97	
Pin	Assignment	Pin	Assignment
1	Mic Left in	1	Mic In
2	Ground	2	Ground
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

Note1: 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.

Note2: 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.

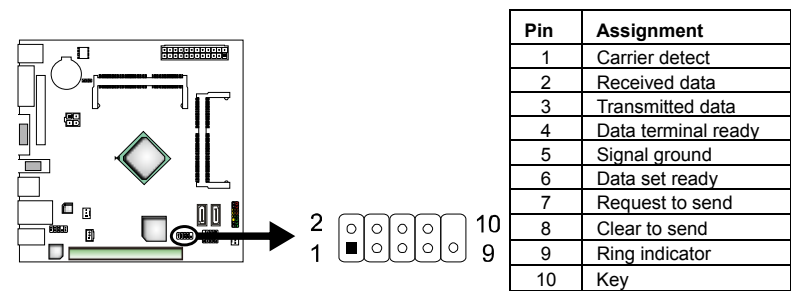
JSPDIFOUT1: Digital Audio-out Connector

The connector is for connecting the S/PDIF output bracket.



COM1: Serial Port Connector (Serial Port 1)

The motherboard has a Serial Port Connector for connecting RS-232 Port.



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 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 in the Setup DVD.

3.2 BIOS Update

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

- BIOSSTAR BIOS 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.
- BIOSSTAR 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 BIOS Flasher

BIOSTAR BIOS Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive.

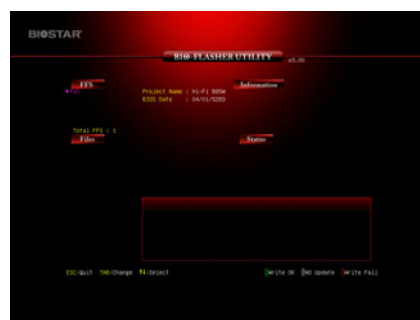
Note1: This utility only allows storage device with FAT32/16 format and single partition.

Note2: Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

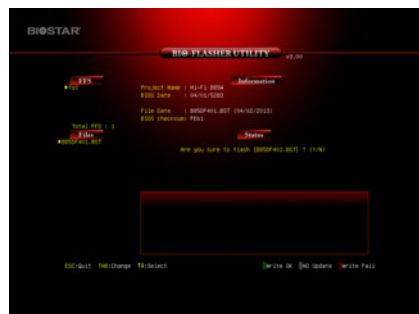
Updating BIOS with BIOSSTAR BIOS Flasher

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.
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.

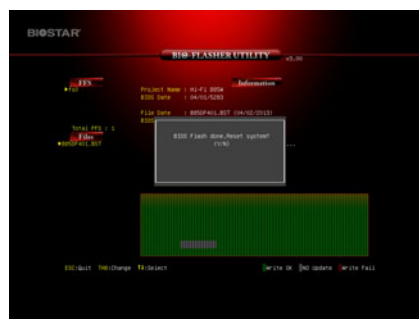
5. After entering the POST screen, the BIOS-FLASHER utility pops out. Choose [fs0] to search for the BIOS file.



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 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)

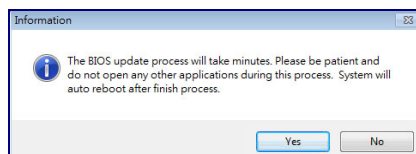
1. Installing BIOS Update Utility from the DVD Driver.
2. Please make sure the system is connected to the internet before using this function.

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

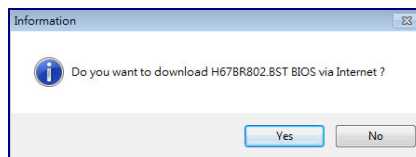


J1800NHP/J1800NP/J1900NHP/J1900NP

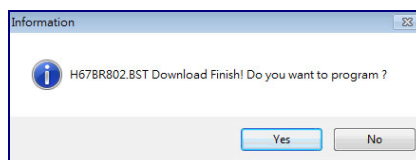
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



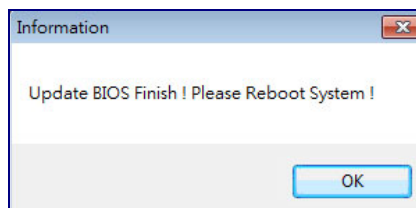
5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.



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 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.

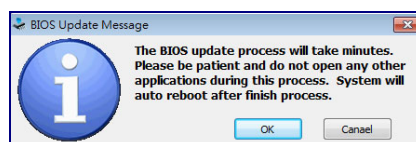
BIOS Update Utility (through a BIOS file)

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

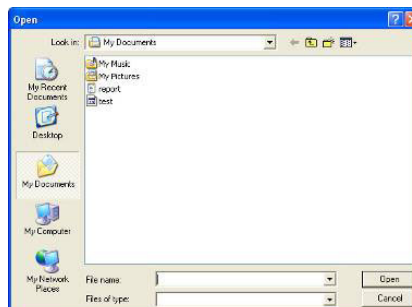
3. Launch BIOS Update Utility and click the **Update BIOS** button on the main screen.



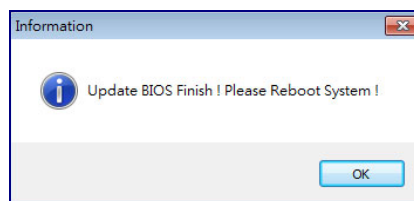
4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.



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.



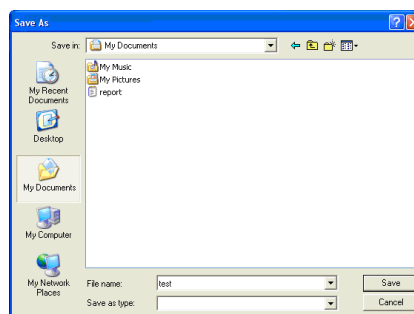
6. After the BIOS Update process is finished, click on **OK** to reboot the system.



7. While the system boots up and the full screen logo shows up, press 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

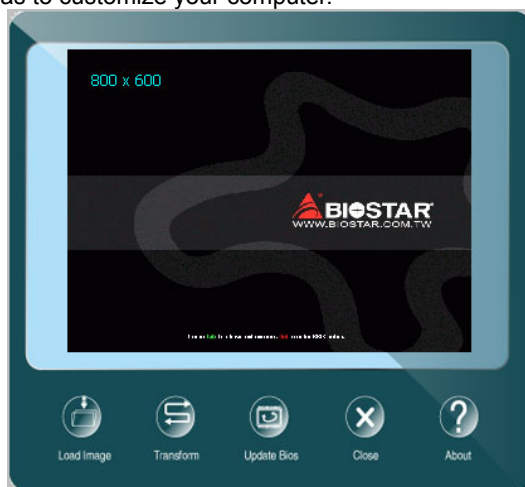
After the installation process is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

Note1: All the information and content about following software are subject to be changed without notice. For better performance, the software is being continuously updated.

Note2: 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.

BIOScreen Utility

This utility allows you to personalize your boot logo easily. You can choose BMP as your boot logo so as to customize your computer.



Please follow the step-by-step instructions below to update boot logo:

- Load Image : Choose the picture as the boot logo.
- Transform : Transform the picture for BIOS and preview the result.
- Update Bios : Write the picture to BIOS Memory to complete the update.

Motherboard Manual

eHot-Line

eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

Note: Before you use this utility, please set Outlook Express as your default e-mail client application program.

*represents important information that you must provide. Without this information, you may not be able to send out the mail.

This block will show the information which would be collected in the mail.

*Describe condition of your system.

The screenshot shows the eHot-Line utility window. On the left, a text box displays system information: Base board information: Caption: Base Board, CreationClassName: Win32_Base, Description: Base Board, HostingBoard: TRUE, HotSwappable: FALSE, Manufacturer: BIOSTAR Group, Name: Base Board, PoweredOn: TRUE, Product: TA780G M2+, Removable: FALSE, Replaceable: TRUE, RequiresDaughterBoard: FALSE, SerialNumber: None, Status: OK, Tag: Base Board, Version: 6.0. On the right, there is a 'Symptom Description' text area. Below it are fields for 'Region', 'CC E-mail', 'Memory Module: Manufacture', and 'Power Supply Manufacture/model'. At the bottom are 'Send', 'Save As...', and 'Exit' buttons. Annotations with red lines point to various parts: the system information box, the symptom description area, the 'Send' button, the 'Save As...' button, the 'Exit' button, the 'Region' dropdown, the 'CC E-mail' field, the 'Memory Module' field, and the 'Power Supply' field.

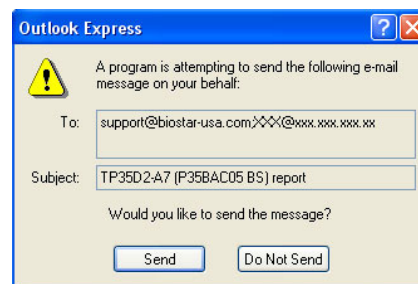
Send the mail out.

Save these information to a .txt file

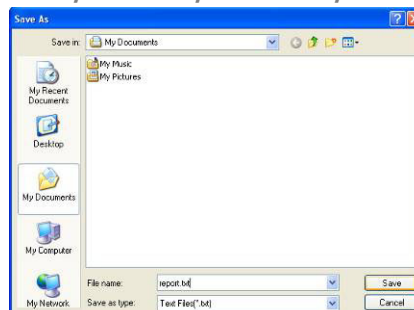
Exit this dialog.

After filling up this information, click “Send” to send the mail out. A warning dialog would appear asking for your confirmation; click “Send” to confirm or “Do Not Send” to cancel.

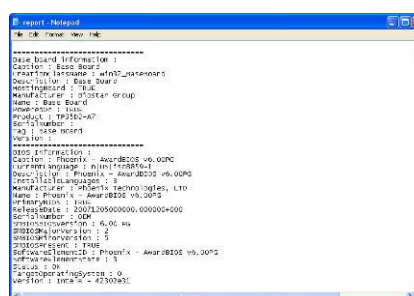
If you want to save this information to a .txt file, click “Save As...” and then you will see a saving dialog appears asking you to enter file name.



Enter the file name and then click "Save". Your system information will be saved to a .txt file.



Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/device/OS information. This information is also concluded in the sent mail.



Note1: We will not share customer's data with any other third parties, so please feel free to provide your system information while using eHot-Line service.

Note2: If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following website <http://www.biostar.com.tw/app/en/about/contact.php> for getting our contact information.

Smart Connect Technology

Intel® Smart Connect Technology is designed to update programs by periodically waking your computer from sleep/standby mode for a short time. This function works with applications that automatically get their data from the Internet.

System Requirement:

- Intel Smart Connect Technology enabled in BIOS Setup
- Set the “ACPI Sleep State” to S3 in BIOS Setup.
- Windows 7, Windows 8 and Windows 8.1
- Normal internet connection

Configuring Intel Smart Connect Technology

Step 1: After installing the operating system and motherboard drivers, install the Intel Smart Connect Technology application. Restart your computer when completed.

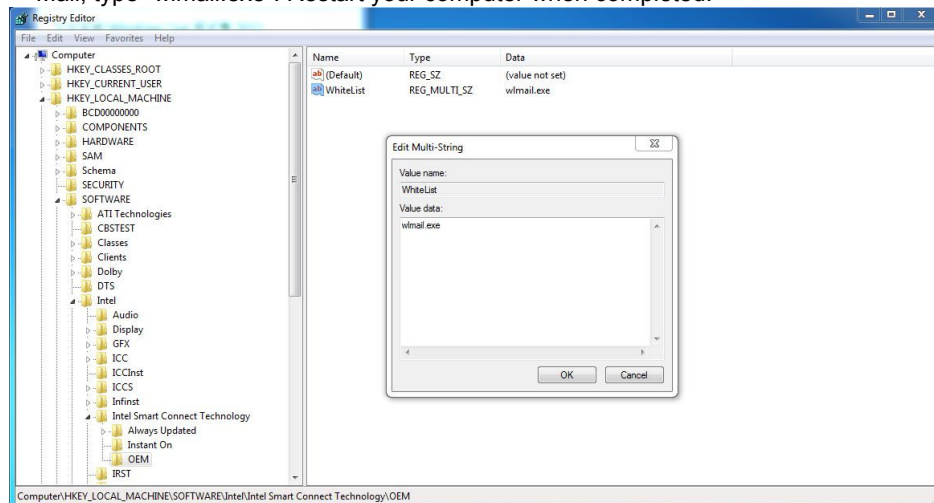
Step 2: Click on start menu and input "regedit" in the search bar. Press enter to open the registry editor. Look for the following directory in the registry editor:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Intel Smart Connect Technology

Right-click on *Intel Smart Connect Technology* and select *New > Key*. Type “OEM”.

Note: Intel Smart Connect Technology is for S3 mode only. During the updating process, the monitor will not light up and no sound will be output from the speaker.

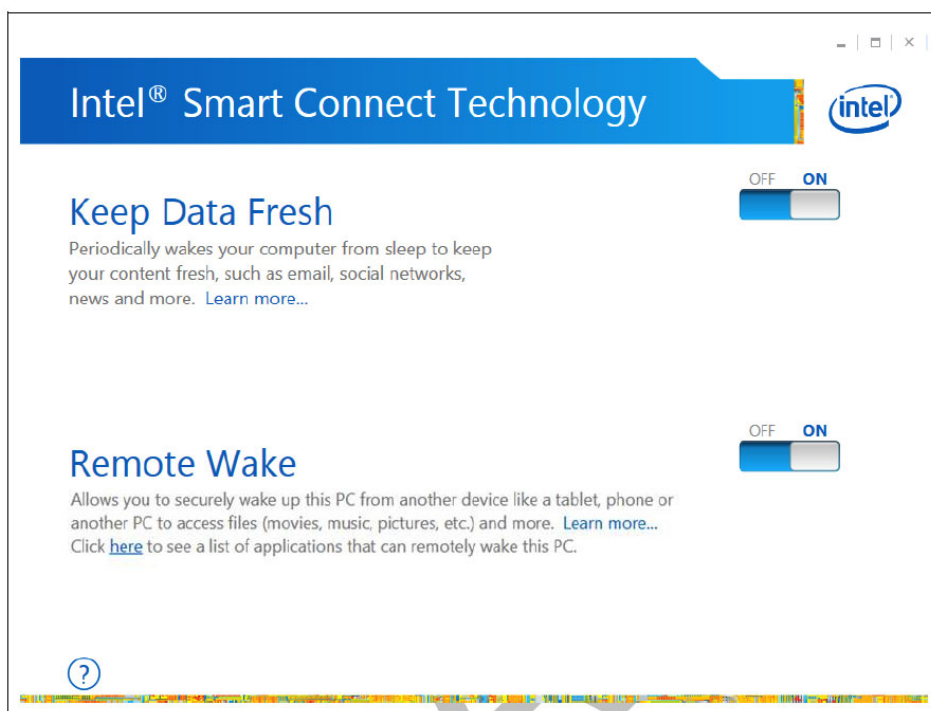
Step 3: As shown in the screenshot below, right-click on OEM, select *New > Multi-String Value*, and type “WhiteList”. Double-click WhiteList and type the application name to be added in Edit Multi-String. For example, to add Microsoft Live Mail, type “wlmail.exe”. Restart your computer when completed.



Step 4: After completing the steps above, go to *Start\All Programs\Intel* and launch *Intel(R) Smart Connect Technology*.

Configuration Utility

The Intel Smart Connect Technology Configuration Utility allows configuration of the sleep duration, extended hours sleep duration, and viewing of the Event History along with other settings. To launch the application, select the application “Intel® Smart Connect Technology in the Start menu (Windows* 7) or Start screen (Windows* 8/8.1) to launch the configuration GUI. Once launched, the following is presented:

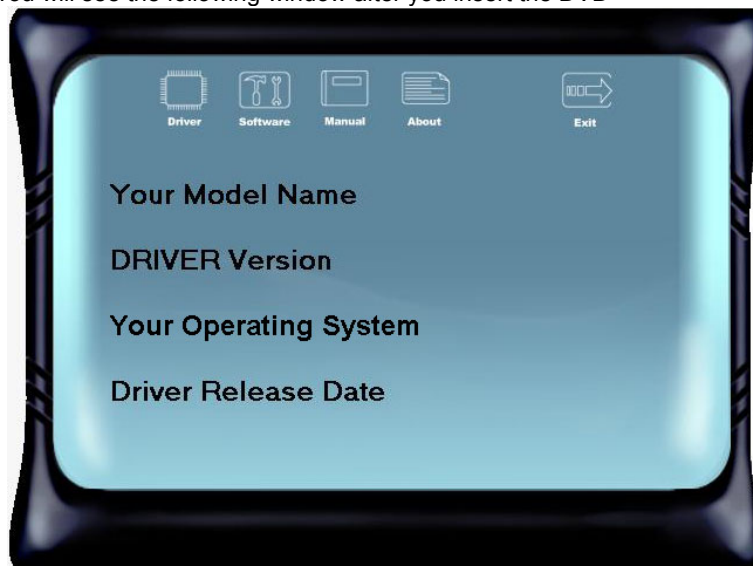


Note: For detailed setting of Intel® Smart Connect Technology, please check the below link.
<http://www.intel.com/support/services/smartconnect/sb/CS-033109.htm>

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 manuals.

Note1: 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.

Note2: 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/>

Note3: Intel(R) Trusted Execution Engine Interface Driver is only supported with Windows 8/8.1& Windows 7. For Windows 7 user, please install Microsoft Kernel-Mode Driver Framework (KMDF) version 1.1. Otherwise, you found a yellow bang appears as "Intel Trusted Execution Engine Interface" under system device manager. Also, you can follow the Microsoft instructions from the link: KB2685811. <http://support.microsoft.com/kb/2685811>

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 Troubleshooting

Probable	Solution
<ol style="list-style-type: none"> There is no power in the system. Power LED does not shine; the fan of the power supply does not work Indicator light on keyboard does not shine. 	<ol style="list-style-type: none"> Make sure power cable is securely plugged in. Replace cable. 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.	<ol style="list-style-type: none"> 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. 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.	<ol style="list-style-type: none"> Back up data and applications files. 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.	<ol style="list-style-type: none"> Set master/slave jumpers correctly. 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.
2. Wait for seconds.
3. Power on the system again.

APPENDIX: SPEC IN OTHER LANGUAGES

Arabic

المواصفات	
Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)	قاعدة وحدة المعالجة المركزية
تدعم قناة مزدوجة دي. دي. ار. (DDR3L 1066/1333 (1.35V/1.5V) x2 دي. دي. ار. DDR3L فتحات الذاكرة المزدوجة SO-DIMM، تتحمل كحد أقصى 16 جيجابايت ذاكرة كل فتحة مزدوجة DIMM تتحمل دون 512 ECC ميجا بايت 8/4/2/1 جيجابايت دي. دي. ار. DDR3L * يرجى الرجوع إلى الموقع www.biostar.com.tw لقائمة دعم الذاكرة.	الذاكرة
وصلة x 2 ساتا SATA3 جيجا بايت / الثانية تتحمّل رايد الأم AHCI / IDE	التخزين
Realtek RTL 8111G	شبكة محلية LAN
ALC662 5.1 قنوات عالية الدقة	الترميز الصوتي
منافذ x 6 ناقل متسلسل عام USB 2.0 (2 في المداخل والمخارج الخلفية و 4 من خلال الموزع الداخلي) منافذ x 1 ناقل متسلسل عام USB 3.0 (1 في المداخل والمخارج الخلفية)	ناقل متسلسل عام USB
x 1 فتحة منفذ الملحقات الإضافية PCI	فتحات التوسع
1 x PS/2 الفأرة 1 x PS/2 لوحة المفاتيح للكمبيوتر HDMI x 1 بسيط متعدد العالي الوضوح (J1800NHP/J1900NHP) فتحة توصيل عدد x 1 فتحة للطابعة (J1800NP/J1900NP) فتحة توصيل عدد x 1 فتحة تسلسلية (J1800NP/J1900NP) فتحة توصيل عدد x 1 منظومة العرض المرني VGA فتحة لتوصيل عدد x 1 الشبكة المحلية LAN فتحة توصيل عدد x 1 ناقل متسلسل عام 3.0 USB فتحة توصيل عدد x 2 ناقل متسلسل عام 2.0 USB فتحة توصيل عدد x 3 جاك للصوت	المداخل والمخارج الخلفية
وصلة x 2 SATA 3 جيجابايت / الثانية موزع x 2 ناقل متسلسل عام 2.0 USB (كل موزع يتحمل فتحتين ناقل متسلسل عام 2.0 USB) وصلة للطاقة x 1 دبائيس وصلة للطاقة x 1 24 دبوس وصلة x 2 مراوح تبريد المنظومة موزع x 1 اللوحة الأمامية موزع x 1 الصوت الأمامي موزع x 1 سيموس مباشر موزع x 1 فتحة تسلسلية وصلة x 1 خارجية S/PDIF سوني فيليبس الواجهة الرقمية	المداخل والمخارج الداخلية
عامل شكل ممد التكنولوجيا المتقدمة Mini-ITX، 170 x 170 مم	عامل الشكل
ويندوز إكس ب 7 / 8 / 8.1 بيوستار BIOSSTAR تحتفظ بحق إضافة أو إزالة الدعم لأي نظام تشغيل مع أو بدون أنظار.	أنظمة التشغيل المدعومة

French

Spécifications	
Support Unité Centrale	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Mémoire	Supporte mémoire DDR3L double canal 1333 (1.35V/1.5V) Banc de mémoire 2 x DDR3L SO-DIMM, Supporte max. jusqu'à une mémoire de 16 GB Chaque module DIMM supporte module DDR3L non-ECC 512MB/ 1/ 2/ 4/ 8 GB * Veuillez vous reporter à www.biostar.com.tw pour la liste des soutien de la mémoire.
Stockage	Connecteur 2 x SATA 3Gb/s Supporte système indigène IDE & AHCI mode
Réseau local	Realtek RTL 8111G 10/ 100/ 1000 Mb/s auto négociation, capacité bidirectionnelle à l'alternat / bidirectionnelle simultanée
Codec audio	ALC662, Canaux 5.1, écoute audio de haute définition
USB	Port 6x USB 2.0 (2 sur les I/O arrières et 4 en interne) Port 1x USB 3.0 (1 sur les I/O arrières)
Connecteur d'extension	1x PCI Fente
I/O arrières	1x PS/2 Clavier 1x PS/2 Souris 1x Embase port imprimante (J1800NP/J1900NP) 1x Embase port série (J1800NP/J1900NP) 1x Port HDMI (J1800NHP/J1900NHP) 1x Port VGA 1x port LAN 1x Port USB 3.0 2x Port USB 2.0 3x entrées audio
I/O en interne	2x Connecteur SATA 3.0Gb/s 2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0) 1x 4-Broche de carte 1x 24-Broche de carte 2x Connecteur ventilateur système 1x Fiche panneau avant 1x Fiche audio avant 1x Fiche mémoire CMOS vide 1x Embase port série 1x Connecteur sortie S/PDIF
Facteur d'encombrement	Facteur d'encombrement Mini-ITX, 170 mm x 170 mm
Support SE	Windows 7 / 8 / 8.1 Biostar se réserve le droit d'ajouter ou d'enlever le support pour toute SE avec ou sans préavis.

German

Spezifikationen	
CPU-Unterstützung	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Festplattenspeicher	Unterstützt zweikanaliges DDR3L 1333 (1.35V/1.5V) 2 x DDR3L SO-DIMM-SpeicherSlot, Max. Unterstützung bis zu 16 GB-Speicher Jedes DIMM unterstützt nicht-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L-Module * Bitte konsultieren Sie www.biostar.com.tw für Speicherunterstützung Liste.
Arbeitsspeicher	2x SATA 3Gb-Verbindung Unterstützt Ureinwohner IDE & AHCI Modus
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb Auto-Negotiation, Halb- / Voll-Duplex-fähig
Audio-Codec	ALC662, 5.1 Kanäle, HD-Audio
USB	6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header) 1x USB 3.0-Port (1 hintere I/Os)
Erweiterungsanschlüsse	1x PCI-Slot
Hintere I/Os	1x PS/2-Maus 1x PS/2-Keyboard 1x für Druckerport Port (J1800NP/J1900NP) 1x Serieller Port (J1800NP/J1900NP) 1x HDMI-Port (J1800NHP/J1900NHP) 1x VGA-Port 1x LAN-Port 1x USB 3.0-Port 2x USB 2.0-Port 3x Audio Jack
Interne I/Os	2x SATA 3.0Gb/s-Verbindung 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 1x Header für klares CMOS 1x Serieller Port-Header 1x S/PDIF-Auswurfsverbindung
Formfaktor	Mini-ITX Formfaktor, 170 mm x 170 mm
OS-Unterstützung	Windows 7 / 8 / 8.1 Biostar reserves the right to add or remove support for any OS with or without notice.

Italian

Specificazioni	
Supporto processore	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Memoria	Supporta DDR3L 1333 Doppio Canale (1.35V/1.5V) 2 x DDR3L SO-DIMM Slot di Memoria Supporta fino a 16 GB Memoria Ogni DIMM supporta non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L moduli * Si prega di consultare www.biostar.com.tw per la lista di supporto del memoria.
Memorizzazione	Connettore 2x SATA 3Gb/s Supporta nativo IDE & AHCI modo
Catena	Realtek RTL 8111G 10/ 100/ 1000 Mb auto negoziazione, capacita di duplex Meta / Completo
Codec Audio	ALC662 Canali Audio di Alta Definizione 5.1
USB	Slot 6x USB 2.0 (2 nei ingressi/ uscite posteriore e 4 da distributori interni) Slot 1x USB 3.0 (1 nei ingressi/ uscite posteriore)
Slot di espansione	Slot 1x PCI
Ingressi/ Uscite Posteriore	Mouse 1x PS/2 Tastiera 1x PS/2 Slot Stampante x1 (J1800NP/J1900NP) Slot Serie x1 (J1800NP/J1900NP) Slot 1x HDMI (J1800NHP/J1900NHP) Slot 1x VGA Slot 1x LAN Slot 1x USB 3.0 Slot 2x USB 2.0 Jack audio 3x
Ingressi/ Uscite Interni	Connettore 2x SATA 3.0Gb/s Distributore 2x USB 2.0(ogni distributore supporta 2 slot USB 2.0) Connettore con 4 pin x1 Connettore con 24 pin x1 Connettore Ventilatore Sistema x2 Distributore Pannello Frontale x1 Distributore Audio Frontale x1 Distributore CMOS Diretto x1 Distributore Slot Serie x1 Connettore esterno S/PDIF x1
Fattore di Forma	Fattore di Forma Mini-ITX, 170 mm x 170 mm
Supporto SO	Windows 7 / 8 / 8.1 Biostar si riserva il diritto di aggiungere o ritirare il supporto per qualsiasi SO con o senza preavviso.

Japanese

仕様	
CPU サポート	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
メモリ	デュアルチャンネル DDR3L 1333 をサポート(1.35V/1.5V) 2 x DDR3L SO-DIMM メモリ スロット、最大 16GB メモリまでサポート 各 DIMM は、非-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L モジュールをサポートしています *サポートされているメモリのリストについては、 www.biostar.com.tw を参照してください。
保存スペース	2x SATA 3Gb/s コネクタ ネイティブ IDE & AHCI モード のサポート
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s オートネゴシエーション、半/全 二重通信
オーディオ コーデック	ALC662 5.1 チャンネル, ハイ デフィニション オーディオ
USB	6x USB 2.0 ポート (後部 I/O に2つ 及び 内蔵ヘッダー経由に4つ) 1x USB 3.0 ポート (後部 I/O に1つ)
拡張スロット	1x PCI スロット
後部 I/O	1x PS/2 キーボード 1x PS/2 マウス 1x プリンター ポート(J1800NP/J1900NP) 1x シリアル ポート(J1800NP/J1900NP) 1x HDMI ポート(J1800NHP/J1900NHP) 1x VGA ポート 1x LAN ポート 1x USB 3.0 ポート 2x USB 2.0 ポート 3x オーディオ ジャック
内蔵 I/O	2x SATA 3.0Gb/s コネクタ 2x USB 2.0 ヘッダー (各ヘッダーは、2つの USB 2.0 ポートをサポートしています) 1x 4-Pin パワー コネクタ 1x 24-Pin パワー コネクタ 2x システム ファン コネクタ 1x フロント パネル ヘッダー 1x フロント オーディオ ヘッダー 1x クリア CMOS ヘッダー 1x シリアル ポート ヘッダー 1x S/PDIF アウト コネクタ
フォーム ファクタ	Mini-ITXフォーム ファクタ、170 mm x 170 mm
サポート OS	Windows 7 / 8 / 8.1 Biostar には、通知なしでサポート OS を変更する権限があります。

Polish

Specyfikacje techniczne	
Obsługa procesora	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Pamięć	Pojedynczy pamięci DDR3L 1333 Dwukanałowa (1.35V/1.5V) 2x DDR3L SO-DIMM Pamięć Gniazda procesora (Slot), Maksymalna wielkość pamięci 16 GB Każdy DIMM obsługuje jeden moduł non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L * Proszę sprawdzić listę obsługiwanych pamięć na stronie internetowej www.biostar.com.tw
Przechowywanie	Złącze 2x SATA 3Gb/s, Obsługa rodzimy IDE & AHCI tryb
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb auto negocjacja, pojemność duplex Połowe / Pełny
Codec Audio	ALC662 Kanały Audio wysokiej Definicji 5.1
USB	6 x złącza USB 2.0 (2 przez tylne porty wejścia/ wyjścia oraz 4 przez wewnętrzne porty) 1x złącza USB 3.0 (1 przez tylne porty wejścia)
Złącza rozszerzeń	złącza 1x PCI
Tylne porty wejścia/ wyjścia	Myszka 1x PS/2 Klawiatura 1x PS/2 Porty 1x Złącze drukarki (J1800NP/J1900NP) Porty 1x szeregowy (J1800NP/J1900NP) Porty 1x HDMI (gniazdo) (J1800NHP/J1900NHP) Porty 1x VGA Porty 1x LAN Porty 1x USB 3.0 Porty 2x USB 2.0 Porty audio 3x
Wewnętrzne porty wejścia/ wyjścia	Złącza 2x SATA 2.0Gb/s Złącza 2x USB 2.0 (każde złącze obsługuje dodatkowe 2 porty USB 2.0) Złącza 4 pionowe x 1 Złącza 24 pionowe x 1 Złącze wentylatora obudowy x2 Złącze przedniego panelu x1 Złącze audio przedniego panelu x1 Złącze bezpośrednie CMOS x1 Port szeregowy x1 Port zewnętrzny S/PDIF x1
Obudowa	Obudowa Mini-ITX, 170 mm x 170 mm
Obsługa OS	Windows 7 / 8 / 8.1 Biostar zastrzega sobie prawo do dodania lub wycofania obsługi dla OS, z wypowiedzeniem lub bez wypowiedzenia.

Portuguese

Especificações	
Suporte Processador	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Memória	Suporta DDR3L 1333 Canal Duplo (1.35V/1.5V) 2 x DDR3L SO-DIMM Slot de memória Suporta até 16 GB Memória Cada DIMM suporta non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L módulo * Por favor consulte www.biostar.com.tw para obter uma lista de suporte do memória.
Armazenamento	Conector 2x SATA 3Gb/s, Suporta nativo IDE & AHCI modo
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb auto negociação, capacidade duplex Metade / Cheio
Codec de Audio	ALC662 Canais de Áudio de Alta Definição 5.1
USB	Porta 6x USB 2.0 (2 nas entradas/saídas traseiras e 4 pelos Dispositivos internos) Porta 1x USB 3.0 (1 nas entradas/saídas traseiras)
Slots de expansão	Porta 1x PCI
Entradas/Saídas no painel traseiro	Mouse 1x PS/2 Teclado 1x PS/2 Porta 1x Impressora (J1800NP/J1900NP) Porta 1x Série (J1800NP/J1900NP) Porta 1x HDMI (J1800NHP/J1900NHP) Porta 1x VGA Porta 1x LAN Porta 1x USB 3.0 Porta 2x USB 2.0 Soquete audio 3x
Conectores na placa	Conector 2x SATA 3.0Gb/s Dispositivo 2x USB 2.0 (cada Dispositivo suporta 2 portas USB 2.0) Conector de 4 pinos x1 Conector de 24 pinos x1 Conector de Ventoinha Sistema x2 Dispositivo Painel Frontal x1 Dispositivo de Audio Frontal x1 Dispositivo CMOS Direct x1 Dispositivo Porta Série x1 Conector Externo S/PDIF x1
Fator de Fôrma	Fator de Fôrma Mini-ITX, 170 mm x 170 mm
Suporte OS	Windows 7 / 8 / 8.1 Biostar reserva seu direito de adicionar ou retirar o suporte para qualquer OS com ou sem notificação.

Russian

Спецификации	
Поддержка центрального процессора	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Память	Поддерживает двухканальный DDR3L 1333 (1.35V/1.5V) 2 гнезда платы памяти DDR3L SO-DIMM, максимальная память до 16 Гб Каждый модуль DIMM поддерживает модуль не-ECC 512 Мб/ 1/ 2/ 4/ 8 Гб DDR3L * Перечень поддержки памяти смотрите на www.biostar.com.tw .
Накопитель	Соединитель 2x SATA 3 Гб/с, Поддерживает родной IDE & AHCI режим
Локальная сеть	Realtek RTL 8111G Автосогласование 10/ 100/ 1000 Мб/с, работает в полно/полудуплексном режиме
Аудиокодек	ALC662 Каналы 5.1, высококачественное аудио
USB	6 порта USB 2.0 (2 сзади ввода-вывода и 4 через внутренние контакты) 1 порта USB 3.0 (1 сзади ввода-вывода)
Гнезда расшир.	1x PCI гнездо
Задняя плата ввода-вывода	1 мышь PS/2 1 клавиатура PS/2 1 порта принтера (J1800NP/J1900NP) 1 последовательного порта (J1800NP/J1900NP) 1 порт HDMI (J1800NHP/J1900NHP) 1 порт VGA 1 порт локальной сети 1 порта USB 3.0 2 порта USB 2.0 3 гнезд для подключения наушников
Внутр. Плата ввода-вывода	Соединитель 2x SATA 3 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 разъема вентилятора системы 1 контакт передней панели 1 контакт передней аудиопанели 1 контакт микросхемы Clear CMOS 1 контакт последовательного порта 1 соединитель S/PDIF-Out
Конструктив	Форм-фактор Mini-ITX, 170мм x 170 мм
Поддержка ОС	Windows 7 / 8 / 8.1 Biostar оставляет за собой право добавлять или удалять поддержку любой ОС, с уведомлением или без.

Spanish

Especificaciones	
Compatibilidad con el procesador	Intel® Celeron® J1800 processor (J1800NHP & J1800NP) Intel® Celeron® J1900 processor (J1900NHP & J1900NP)
Memoria	Soporta DDR3L 1333 Doble Canal (1.35V/1.5V) 2x DDR3L SO-DIMM Ranura de memoria Soporta hasta 16 GB Memoria Cada DIMM soporta un modulo non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L *Por favor consultar con www.biostar.com.tw para la lista de compatibilidad con el memoria.
Almacenamiento de información	Conector 2x SATA 3Gb/s, Soporta nativo IDE & AHCI modo
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s auto negociación, capacidad dúplex Mitad/Completo
Códec Audio	ALC662, Canales Audio de Alta Definición 5.1
USB	Ranura 6x USB 2.0 (2 en las entradas/salidas posteriores y 4 por los distribuidores internos) Ranura 1x USB 3.0 (1 en las entradas/salidas posteriores)
Ranuras de Extinción	Ranura 1x PCI
Panel trasero de E/S	Ratón 1x PS/2 Teclado 1x PS/2 Ranura Impresora x1 (J1800NP/J1900NP) Ranura Serie x1 (J1800NP/J1900NP) Ranura 1x HDMI (J1800NHP/J1900NHP) Ranura 1x VGA Ranura 1x LAN Ranura 1x USB 3.0 Ranura 2x USB 2.0 Socket audio 3x
Conectores en placa	Conector 2x SATA 3Gb'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 CMOS Directo x1 Distribuidor Ranura Serie x1 Conector Externo S/PDIF x1
Factor de Forma	Factor de Forma Mini-ITX, 170 mm x 170 mm
Soporte OS	Windows 7 / 8 / 8.1 Biostar reserva su derecho de añadir o retirar el soporte para cada OS con o sin notificación.

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