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CE

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 Motherboard Specifications

	Specifications
CPU Support	Intel® Celeron® J1800 processor
Memory	Supports Dual Channel DDR3L 1066/1333 (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 (1 on rear I/Os and 5 via internal header) 1x USB 3.0 port (1 on rear I/Os)
Expansion Slots	1x mini PCIe Slot
Rear I/Os	1x DC-IN 19V Jack 1x VGA Port 1x HDMI Port 1x USB 3.0 Port 1x USB 2.0 Port 1x LAN port 2x Audio Jack (Mic-In, Line-Out)
Internal I/Os	2x SATA 3.0Gb/s Connector 1x SATA Power Connector 1x 2-Pin Power Connector 1x Front Panel Header 1x Front Audio Header 2x USB 2.0 2x5 Header (each header supports 2 USB 2.0 ports) 1x USB 2.0 1x5 Header 2x 4-Pin Fan Connector 1x Front Panel Display Connector (LVDS) 1x Front Panel Display Brightness Connector 1x Monitor Switch Header 1x Internal Stereo Speaker 1x Clear CMOS Jumper 1x LVDS Voltage Jumper 2x LVDS Jumper 1x Front Panel Display Voltage Jumper 1x Digital Microphone Header
Form Factor	Thin 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.



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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:
J1800TH	Intel® Celeron® J1800 processor (Dual core, 1M Cache, 2.58 GHz)

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1.6 Motherboard Layout

J1800TH

Assignment

Fan RPM rate sense

Smart Fan Control

GND

+12V

CHAPTER 2: HARDWARE INSTALLATION

Connect Cooling Fans 2.1

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 both 4-pin (PWM mode) and 3-pin (DC-Mode) smart fan control. 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.

Install System Memory 2.2



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



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	Maulia 400D
DIMMB1	512MB/1GB/2GB/4GB/8GB	Max is 16GB

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	0	х
Enabled	0	0

(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

MPCIE1: mini PCI Express slot

The mini PCIe slot supports half-length mini PCIe card.



Note1: Read the related expansion card's instruction document before install the expansion card into the computer.

Note2: The slot does not support mSATA SSD.

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Jumper Setting 2.4

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".



Pin1-2 closed

JCMOS1: Clear CMOS Jumper

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



* Clear CMOS Procedures:

- Remove AC power line. 1.
- Set the jumper to "Pin 2-3 close". 2.
- 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.

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JRESOL_SEL1: LVDS Resolution Jumper

This jumper selects LVDS resolution.



JLVDS_POWER1: LVDS Voltage Jumper

This jumper sets different screen voltage.



JLVDS_BK1: Front Panel Display Voltage Jumper

This jumper selects the required operating voltage for the backlight panel.



2.5 Headers & Connectors

SATA_POWER1: SATA Power Connector

This connector provides the appropriate power connection to support both HDDs and ODD.



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.

SATA2



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

JSPK1: Internal Stereo Speakers Header

The connector is for connecting Internal Stereo Speakers.



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.



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.

PANEL1: Front Panel Header

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



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F_USB1: Front Panel Dual USB 2.0 Header

The connector extends USB ports to the front panel of your system.



F_USB2: Internal Dual USB 2.0 Header

The connector connects to internal USB devices such as webcam, card reader and touch panel.



F_USB3: Internal Single USB 2.0 Header

The connector connects to internal USB devices such as webcam, card reader and touch panel.



Pin	Assignment
1	+5V DC
2	USB-
3	USB+
4	Ground
5	Key

Note: This USB port is shared with mini PCIe slot.

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FPD1: Front Panel Display Brightness Connector

This connector provides an additional connector for powering the inverter or driver board.



LVDS1: 40-pin LVDS Connector

This connector provides an internal 40-pin connector for flat panel display and backlight connectivity.



Note: * Voltage selected by JLVDS_POWER1. ** Voltage selected by JLVDS_BK1.

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LCD_SW1: Monitor Switch

This header allows user to turn on or off the flat panel display backlight.





JDMIC1: Digital Microphone Header

The connector is for connecting a digital microphone.



ATXPWR1: ATX Power Source Connector

The connector is for connecting a DC-19V power source.



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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:

- BIOSTAR 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.
- 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 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 BIOSTAR 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.



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```

- 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.



- 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.
- 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.

Informatic	n	
1	The BIOS update process will take minut do not open any other applications duri auto reboot after finish process.	tes. Please be patient and ing this process. System will
	(Yes No
Informatio	on	
(j	Do you want to download H67BR80	2.BST BIOS via Internet ?
	E	Yes No
Informatio	on	
i	H67BR802.BST Download Finish! Do	o you want to program ?
	E	Yes No
Inform	ation	
Upd	ate BIOS Finish ! Please Re	eboot 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 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.



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- 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.

C	The BIO Please b applicat auto rel	S update process we patient and do ions during this p poot after finish p OK	will take mi not open a rocess. Sys process. Ca	inutes. ny other stem will
Open				? 🔀
Look it Wy Recent Decuments Decuments My Documents My Documents My Computer	 My Boumerts My Hust My Planes mouth mouth 	×	- C # D-	
My Network Places	File name:		•	Gpen Cancel
Information	on Update BIOS Fi	nish ! Please Rel	boot Syste	**
				ж

7. While the system boots up and the full screen logo shows up, press key to enter BIOS setup.

la BIOS Update Me

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**.

Save in	My Docum	er/a	* • •	-
My Recent Documents Desktop	My Music Hy Pictures report			
Ay Documents My Computer				
•	Pla series	la a	-	From

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.



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.



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.

Outlook I	Express ? 🔀
⚠	A program is attempting to send the following e-mail message on your behalf:
To:	support@biostar-usa.com;XXX@xxxx.xxx.xxx.xx
Subject:	TP35D2-A7 (P35BAC05 BS) report
	Would you like to send the message?
	Send Do Not Send

Motherboard Manual Save in: My Documents 🖌 () 🌶 🕩 🖽 My Music My Pictures My Recent Documents Desktop Enter the file name and then click "Save". Your system information will be saved to a .txt file. My Computer My Network report.txt Text Files(".txt File name Save Cancel Save as typ eport-Notepad Edit Format View Tail se baard information : stor: Esc Boar scriptin: Esc Boar scriptin: Esc Boar scriptin: Taut mutationer : Taut mutationer : Jose Board scriptin: Taut scriptin: Taut scriptin: Tautor scriptin: Scripting Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/ 'Innation : : Fhierix - AxerdElos vo.ounc anguage : niuxitecasse-i iu: : Phierix - AxerdElos vo.ounc ibitLanguages : 3 Lifer : Phierix Technologies, LTD Prountx - AxerdElos vo.oons 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 <u>http://www.biostar.com.tw/app/en/about/contact.php</u> 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.

Computer	Name	Type	Data	
HKEY_CLASSES_ROOT HKEY_CURRENT_USER HKEY_LOCAL_MACHINE BCD0000000 LCOMPONENTS	🔌 (Default) 👼 WhiteList	REG_SZ REG_MULTI_SZ	(value not set) wimail.exe	
HARDWARE		Edit Multi-String		
>-de Schema		Value name:		
SECURITY		WhiteList		
ATI Technologies		Value data:		
Cleartes Cleartes Cleartes Cleartes Dolby Trai Trai Dolby Clearte Dolby Clearte Dolby Clearte Clearte		wimai exe	· · · · · · · · · · · · · · · · · · ·	

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

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Configuration Utility

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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:



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

Driver Software Manual About Exit	
Your Model Name	
DRIVER Version	
Your Operating System	
Driver Release Date	

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
 There is no power in the system. Power LED does not shine; the fan of the power supply does not work 	 Make sure power cable is securely plugged in. Replace cable
 Indicator light on keyboard does not shine. 	 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.	 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. Desking up the head drive is
	 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.	 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.	 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.

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APPENDIX: SPEC IN OTHER LANGUAGES

Arabic

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المواصفات	
Intol® Coloron® 11800 processor	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 نتحمل دون 512ECC ميجا بايت /8/4/2/1 جيجابايت دي. دي. ار DDR3L * يرجى الرجوع إلى الموقع www.biostar.com.tw لقائمة دعم الذاكرة.	الذاكرة
وصلة 2x ساتاً SATA3 جيجا بايت / الثانية تتحمل رايد الأم AHCI / IDE	التخزين
Realtek RTL 8111G 10 / 100 / 1000 ميجابايت / الثانية ، تحديد تلقائي ، النصف / القدرة القصوى المزدوجة	شبكة محلية LAN
ALC662 5.1 قنوات عالية الدقة	الترميز الصوتي
منافذ 6 x ناقل متسلسل عام USB (1 في المداخل والمخارج الخلفية و 5 من خلال الموزع الداخلي)	ناقل متسلسل عام
منافذ 1 x ناقل متسلسل عام USB (1 في المداخل والمخارج الخلفية)	USB
x 1 فتحة منفذ الملحقات الإضافية mini PCle	فتحات التوسع
ا مقبس بيار مياسر 19 قولت 1 منفذ VGA 1 منفذ HDMI 1 منفذ USB 3.0 1 منفذ LAN 2 مقبس صوتي (إدخال ميكرفون، مخرج خط خارجي)	المداخل والمخارج الخلفية
2 موصل ساتا 3 جيجا بيت/ ثانية 1 موصل طاقة ساتا 1 رأس لوحة أمامية 2 رأس صوتي أمامية 2 رأس 2002 (يدعم الرأس 2 منفذ 2.0 USB (2 رأس 2005 2.0 الالاع منفذ 2.0 USB (2 رأس 2005 2.0 الالاع منفذ 2.0 USB (2 موصل مروحة ذو أربع مسامير 1 موصل لوحة شاشة أمامي (LVDS) 1 رأس مفتاح الشاشة 1 رابط فرق جهد لوحة الشاشة الأمامية 1 رباط فرق جهد لوحة الشاشة الأمامية 1 رباط فرق جهد لوحة الشاشة الأمامية 2 مامل شكل مدد التكنولوجيا المتقدمة Mini-ITT مم 100 مم	المداخل والمخارج الداخلية عامل الشكل
ويندوز إكس بـ 8.1 / 8 / 8 / Windows 7	أنظمة التشغيل
ويو فو با 10 ما 10 معتقد المعالمين المعالية أو أزلة الدعم لأي نظام تشغيل مع أو بدون أنظار . بيوستار BIOSTAR تحتفظ بحق إضافة أو أزلة الدعم لأي نظام تشغيل مع أو بدون أنظار .	المدعومة

French

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Spécifications		
Support Unité Centrale	Intel® Celeron® J1800 processor	
Mémoire	Supporte mémoire DDR3L double canal 1066/1333 (1.35V/1.5V) Banc de mémoire 2x 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 <u>www.biostar.com.tw</u> pour la liste des soutien de la mémoire.	
Stockage	Connecteur 2x 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 (1 sur les I/O arrières et 5 en interne) Port 1x USB 3.0 (1 sur les I/O arrières)	
Connecteur d'extension	1xmini PCIe Fente	
I/O arrirèes	1x DC-IN 19V Jack 1x VGA Port 1x HDMI Port 1x USB 3.0 Port 1x USB 2.0 Port 1x LAN Port 2x Audio Jack (Mic-Entrée, Line-Sortie)	
I/O en interne	2x SATA 3.0Gb/s Connecteur 1x SATA Prise Électrique 1x 2-Fiche Prise Électrique 1x En-tête du Panneau Avant 1x Front Audio Header En-tête d'Audio Avant 2x USB 2.0 2x5 En-tête (chaque en-tête supporte 2 USB 2.0 ports) 1x USB 2.0 1x5 En-tête (supporte 1 USB 2.0 port) 2x 4-Fiche Ventilateur Connecteur 1x Écran Connecteur du Panneau Avant (LVDS) 1x Écran Luminosité Connecteur du Panneau Avant 1x En-tête du Commutateur du Moniteur 1x Haut-parleur Stéréo Interne 1x Claire CMOS Cavalier 2x LVDS Cavalier 1x Écran Cavalier du Voltage du Panneau Avant 1x microphone numérique-tête	
Facteur d'encombremen t	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.	

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German

Spezifikationen		
CPU-Unterstützun g	Intel® Celeron® J1800 processor	
Festplattenspeich er	Unterstützt zweikanaliges DDR3L 1066/1333 (1.35V/1.5V) 2x DDR3L SO-DIMM-SpeicherSlot, Max. Uterstützung bis zu 16 GB-Speicher Jedes DIMM unterstützt nicht-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L-Module * Bitte konsultieren Sie <u>www.biostar.com.tw</u> für 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 (1 hintere I/Os und 5 via interne Header) 1x USB 3.0-Port (1 hintere I/Os)	
Erweiterungsansc hlüsse	1x mini PCIe-Slot	
Hintere I/Os	1x DC-IN 19V Klinkenstecker 1x VGA Anschluss 1x HDMI Anschluss 1x USB 3.0 Anschluss 1x USB 2.0 Anschluss 1x LAN Anschluss 2x Audio Klinkenstecker (Mic-In, Line-Out)	
Interne I/Os	2x SATA 3.0Gb/s Steckverbinder 1x SATA Steckdose 1x 2-Stecknadel Steckdose 1x Frontplattenstecker 1x Frontaudiostecker 2x USB 2.0 2x5 Stecker (jeder Stecker unterstützt 2 USB 2.0 Anschluss) 1x USB 2.0 1x5 Stecker (unterstützt 1 USB 2.0 Anschluss) 2x 4-Stecknadel Lüftersteckverbinder 1x Frontplatten Displaysteckverbinder (LVDS) 1x Frontplattendisplay Helligkeitsteckverbinder 1x Monitorschalterstecker 1x Internen Stereolautsprecher 1x Helle CMOS Steckbrücke 2x LVDS Steckbrücke 1x Frontplattendisplay Spannung Steckbrücke 1x Digitalmikrofon Kopf	
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	
Memoria	Supporta DDR3L 1066/1333 Doppio Canale (1.35V/1.5V) 2x 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 <u>www.biostar.com.tw</u> 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 (1 nei ingressi/ uscite posteriore e 5 da distributori interni) Slot 1x USB 3.0 (1 nei ingressi/ uscite posteriore)	
Slot di espansione	Slot 1x mini PCIe	
Ingressi/ Uscite Posteriore	Presa 1x CC-Ingresso 19V 1x porta VGA 1x porta HDMI 1x porta USB 3.0 1x porta USB 2.0 1x porta LAN 2x prese Audio (Ingresso Microfono, Uscita Linea)	
Ingressi/ Uscite Interni	2x connettori SATA 3.0Gb/s 1x connettore elettrico SATA 1x connettore elettrico 2-Perni 1x collettore pannello frontale 1x collettore uUSB 2.0 2x5 (ogni collettore supporta 2 porte USB 2.0) 1x collettore USB 2.0 1x5 (supporta 1 porta USB 2.0) 2x connettori 4-Perni ventola 1x connettore schermo pannello frontale (LVDS) 1x connettgore luminosità schermo pannello frontale 1x collettore interruttore monitor 1x altoparlante stereo interno 1x ponticello pulizia CMOS 2x ponticello voltaggio schermo pannello frontale 1x microfono digitale Header	
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

CPU サポート	Intel® Celeron® J1800 processor
メモリ	デュアルチャンネル DDR3L 1066/1333 をサポート(1.35V/1.5V) 2x 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、 <u>www.biostar.com.tw</u> 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 オートネゴーシエーション、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 ボート (後部 I/O に1つ 及び 内蔵ヘッダー経由に5つ) 1x USB 3.0 ボート (後部 I/O に1つ)
拡張スロット	1x mini PCle スロット
後部 I/O	1x DC-IN 19V ジャック 1x VGA ボート 1x HDMI ボート 1x USB 3.0 ボート 1x USB 2.0 ボート 1x LAN ボート 2x オーディオ ジャック (Mic-In、Line-Out)
内蔵 I/O	2x SATA 3.0Gb/s コネクタ 1x SATA電源コネクタ 1x 2-ピン電源コネクタ 1x フロントオーディオヘッダ 2x USB 2.0 2x5 ヘッダ (各ヘッダはUSB 2.0ポートの2つに対応) 1x USB 2.0 1x5 ヘッダ (USB 2.0 ポートの1つに対応) 2x 4-ピン・ファンコネクタ 1x フロントパネル・ディスプレイコネクタ (LVDS) 1x フロントパネル・ディスプレイコネクタ (LVDS) 1x モニタースイッチ・ヘッダ 1x モニタースイッチ・ヘッダ 1x 内蔵ステレオスピーカー 1x CMOS クリアジャンパ 2x LVDS ジャンパ 1x フロントパネル・ディスプレイ・電圧ジャンパ 1x デジタルマイクヘッダー
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。

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Polish

Specyfikacje techniczne		
Obsługa procesora	Intel® Celeron® J1800 processor	
Pamięć	Pojedynczy pamięci DDR3L 1066/1333 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 dupleks Połowe / Pełny	
Codec Audio	ALC662 Kanały Audio wysokiej Definicji 5.1	
USB	6 x złącza USB 2.0 (1 przez tylne porty wejścia/ wyjścia oraz 5 przez wewnętrzne porty) 1x złącza USB 3.0 (1 przez tylne porty wejścia)	
Złącza rozszerzeń	złącza 1x mini PCIe	
Tylne porty wejścia/ wyjścia	1x gniazdo DC-IN 19V 1x Port VGA 1x Port HDMI 1x Port USB 3.0 1x Port USB 2,0 1x Port LAN 2x gniazdo Audio (wej. mik, wyj. linia)	
Wewnętrzne porty wejścia/ wyjścia	2x złącze SATA 3.0Gb/s 1x złącze zasilania SATA 1x złącze zasilania 2-pinowe 1x złącze płyty głównej 1x złącze Audio 2x USB 2.0 złącza 2x5 (każde złącze obsługuje 2 porty USB 2.0) 1x USB 2.0 złącze 1x5 (obsługuje 1 port USB 2,0) 2x 4-pinowe złącze wentylatora 1x złącze wyświetlacza płyty głównej (LVDS) 1x złącze jaskrawości wyświetlacza płyty głównej 1x złącze wyłącznika monitora 1x wewnętrzny głośnik stereo 1x zworka resetu CMOS 2x zworka LVDS 1x zworka napięcia wyświetlacza płyty głównej 1x Nagłówek 1x mikrofon cyfrowy	
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	
Memória	Suporta DDR3L 1066/1333 Canal Duplo (1.35V/1.5V) 2x 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 <u>www.biostar.com.tw</u> 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 (1 nas entradas/saídas traseiras e 5 pelos Dispositivos internos) Porta 1x USB 3.0 (1 nas entradas/saídas traseiras)	
Slots de expansão	Porta 1x mini PCIe	
Entradas/Saídas no painel traseiro	1x Entrada DC-IN 19V 1x Porta VGA 1x Porta HDMI 1x Porta USB 3.0 1x Porta USB 2.0 1x Porta LAN 2x Entrada de Áudio (Mic-In, Line-Out)	
Conectores na placa	2x Conector SATA 3.0Gb/s 1x Conector de Alimentação SATA 1x Conector de Alimentação 2 Pinos 1x Cabeçalho de Painel Frontal 1x Cabeçalho de Áudio Frontal 2x Cabeçalho USB 2.0 2x5 (cada cabeçalho suporta 2 portas USB 2.0) 1x Cabeçalho USB 2.0 1x5 (suporta 1 porta USB 2.0) 2x Conector de Ventoínha de 4 Pinos 1x Conector de Ecrã de Painel Frontal (LVDS) 1x Conector de Brilho de Ecrã de Painel Frontal 1x Cabeçalho de Interruptor de Monitor 1x Coluna Estérea Interna 1x Jumper CMOS Transparente 2x Jumper LVDS 1x Jumper de Voltagem de Ecrã de Painel Frontal 1x Microfone Digital Header	
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 Intel® Celeron® J1800 processor центрального процессора Поддерживает двухканальный DDR3L 1066/1333 (1.35V/1.5V) 2 гнезда платы памяти DDR3L SO-DIMM, максимальная память до 16 Гб Память Каждый модуль DIMM поддерживает модуль не-ЕСС 512 Мб/ 1/ 2/ 4/ 8 Гб * Перечень поддержки памяти смотрите на www.biostar.com.tw. Накопитель Соединитель 2х SATA 3 Гб/с, Поддерживает родной IDE & AHCI режим Realtek RTL 8111G Локальная сеть Автосогласование 10/ 100/ 1000 Мб/с, работает в полно/полудуплексном режиме ALC662 Аудиокодек Каналы 5.1, высококачественное аудио 6 порта USB 2.0 (1 сзади ввода-вывода и 5 через внутренние контакты) USB 1 порта USB 3.0 (1 сзади ввода-вывода) Гнезда расшир. 1x mini PCle гнездо 1х 19V гнездо входа постоянного тока 1х Порт VGA 1х Порт HDMI Задняя плата 1х Порт USB 3.0 ввода-вывода 1х Порт USB 2.0 1х Порт LAN 2х Аудио вход (Микрофон-Вход, Выход в линию) 2х Разъем SATA 3.0 Гбит/сек. 1х Разъем питания SATA 1х Разъем питания 2-контактный 1х Разъем передней панели 1х Передний разъем аудио 2x USB 2.0 2x5 Разъем (каждый разъем поддерживает 2 USB 2.0 порта) 1x USB 2.0 1x5 Разъем (поддерживает 1 USB 2.0 порт) 2х 4-контактный Разъем вентилятора Внутр. Плата 1х Разъем для дисплея на передней панели (LVDS) ввода-вывода 1х Разъем для яркости дисплея на передней панели 1х Переключатель разъема для монитора 1х Внутренний стерео динамик 1х Перемычка чистого КМОП (CMOS) 2x LVDS напряжения 1х Перемычка напряжения дисплея на передней панели 1х Цифровой микрофон Заголовок Форм-фактор Mini-ITX, 170мм х 170 мм Конструктив Windows 7 / 8 / 8.1 Поддержка ОС 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	
Memoria	Soporta DDR3L 1066/1333 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 <u>www.biostar.com.tw</u> 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 (1 en las entradas/salidas posteriores y 5 por los distribuidores internos) Ranura 1x USB 3.0 (1 en las entradas/salidas posteriores)	
Ranuras de Extinción	Ranura 1x mini PCIe	
I/Os Trasera	1x Jack de DC-IN 19V 1x Puerto de VGA 1x Puerto de HDMI 1x Puerto de USB 3.0 1x Puerto de USB 2.0 1x Puerto de LAN 2x Audio Jack (Mic-Entrada, Línea-Salida)	
I/Os Interna	2x Conector de SATA 3.0Gb/s 1x Conector de Potencia SATA 1x Conector de Potencia 2-Pin 1x Cabecera de Panel Delantero 1x Cabecera de Audio Delantero 2x USB 2.0 2 x 5 Cabecera (cada cabecera suministra 2 Puertos de USB 2.0) 1x USB 2.0 1x 5 Cabecera (suministrar 1 Puerto de USB 2.0) 2x Conector de Ventilador de 4-Pin 1x Conector de Exposición de Panel Delantero (LVDS) 1x Conector de Brillo de Exposición de Panel Delantero 1x Cabecera de Interruptor de Monitor 1x Altavoz de Estéreo Interna 1x Jumper de CMOS Claro 2x Jumper de LVDS 1x Jumper de Voltaje de Exposición de Panel Delantero 1x Micrófono Digital Header	
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.	

2016/03/04