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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
- 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.

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1.3 Motherboard Specifications

	Specifications
CDLL Support	N3150MP: Intel® Celeron® N3150 processor
CPU Support	N3050MP: Intel® Celeron® N3050 processor
	Supports Dual Channel DDR3L 1600(1.35V/1.5V)
Momony	2x DDR3L DIMM Memory Slot, Max. Supports up to 8 GB Memory
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.
Storago	2x SATA 6Gb/s Connector
Slorage	Supports AHCI Mode
	Realtek RTL8111H
LAN	10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
Audio Codec	ALC662, 5.1 Channels, High Definition Audio
	6x USB 2.0 port (2 on rear I/Os and 4 via internal header)
036	4x USB 3.0 port (2 on rear I/Os and 2 via internal header)
Expansion Slots	1x PCle 2.0 x16 Slot (x1 speed)
	2x PCI x1 Slot
	1x PS/2 Mouse
	1x PS/2 Keyboard
	1x VGA Port
	1x Printer Port
Rear I/Os	1x Serial Port
	1x LAN port
	2x USB 3.0 Port
	2x USB 2.0 Port
	3x Audio Jack
	2x SATA 6.0Gb/s Connector
	1x 24-Pin Power Connector
	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)
	1x USB 3.0 Header (each header supports 2 USB 3.0 ports)
Internal I/Os	2x System Fan Connector
	1x Front Panel Header
	1x Front Audio Header
	1x Clear CMOS Header
	1x Serial Port Header
Form Factor	microATX Form Factor, 226 mm x 195 mm
	Windows 7 (64bit)/ 8.1 (64bit)
OS Support	Biostar reserves the right to add or remove support for any OS with or without
	notice.

2 —

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:

VGA: 1920 x 1200 @60Hz

1.5 Central Processing Unit (CPU)

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

Model Name:	Onboard CPU:
N3150MP	Intel® Celeron® N3150 processor (Quad Core, 2M Cache, up to 2.08 GHz)
N3050MP	Intel® Celeron® N3050 processor (Dual Core, 2M Cache, up to 2.16 GHz)



1.6 Motherboard Layout

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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/SOC_FAN1: Fan Header



Note: 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

DDR3_A1 DDR3_B1

A. DDR3L 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.



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





B. Memory Capacity

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DIMM Socket Location	DDR3L Module	Total Memory Size
DIMMA1	512MB/1GB/2GB/4GB/8GB	Max in PCP
DIMMB1	512MB/1GB/2GB/4GB/8GB	IVIAX IS OGD

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: 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 x16 Slot (Gen2 x1 speed)

- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 500MB/s per direction; 1GB/s in total.

PCI1/PCI2: Peripheral Component Interconnect Slots

The PCI slots support 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.

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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".



Pin1-2 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.



*** Clear CMOS Procedures:**

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

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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.



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

Note1: Before you power on the system, please make sure the ATXPWR1 connector 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.

SATA1/2: Serial ATA Connectors

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



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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.



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

This header allows 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.



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JFRONT_USB3_1: Header for USB 3.0 Ports at Front Panel

This header allows 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.



Pin	Assignment	Pin	Assignment
1	VBUS0	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	Ground
4	Ground	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	Ground
7	Ground	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS1
10	ID	20	Key

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.



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.

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J_COM2: Serial Port Connector (Serial Port 2)

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:

- 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.



- 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.



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- 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.
- 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.

		00
da au	ee BIOS update process will take minutes. Please be patient and o not open any other applications during this process. System will to reboot after finish process.	
	Yes No	
Information		23
()	Do you want to download H67BR802.8ST BIOS via Internet ?	
	Yes No	
Information		23
i H	1678R802.BST Download Finish! Do you want to program ?	
	Yes No	
Informa	tion	x
Updat	te BIOS Finish ! Please Reboot System !	
	ОК	

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

Takan

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.



- 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.

			ОК	Canael
Pen Look in: Wy Recert Desturents Desktop My Documents My Computer	My Document My Music My Pittures Report Rest	3	x + 6 d f	2.
My Network Places	File name: Files of type:) 		Open Cancel

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

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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.

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.

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Outlook I	ixpress ? 🔀
⚠	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



application. Go to the following website <u>http://www.biostar.com.tw/app/en/about/contact.php</u> for getting our contact information.

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/

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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

1 Oursess heating	Number of Beeps	Description
Success booting.	1	Success booting.
8 Display memory error (system video adapter)	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 Indicator light on keyboard does not shine. 	 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.	 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.	 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

المواصفات	
N3150MP: Intel® Celeron® N3150 processor	قاعدة وحدة المعالجة
N3050MP: Intel® Celeron® N3050 processor	المركزية
تدعم قناة مزدوجة دي. دي. ار. (DDR3L 1600(1.35V/1.5V	
x2 دي. دي. ار. DDR3L فتحات الذاكرة المزدوجة DIMM، تتحمل كحد أقصى 8 جيجابايت ذاكرة	
كل فتحة مزدوجة DIMM تتحمل دون 512 ECC ميجا بايت /8/4/2/1 جيجابايت دي. دي. ار	الذاكرة
DDR3L	
* يرجى الرجوع إلى الموقع www.biostar.com.tw لقائمة دعم الذاكرة.	
وصلة x 2 ساتا 6 SATA جيجا بايت / الثانية	التخزين
تتحمل رايد الأم AHCI	0
Realtek RTL8111H	شيكة محلية I AN
10 / 100 / 1000 ميجابايت / الثانية ، تحديد تلقائي ، النصف / القدرة القصوى المزدوجة	
ALC662	التر ميز الصوتي
5.1 قنوات عالية الدقة	Ç, , , , , , , , , , , , , , , , , , ,
منافذ A i ناقل متسلسل علم USB (2 في المداخل والمخارج الخلفية و 4 من خلال الموزع	
الداخلي)	ناقل متسلسل عام
منافذ 4 x نافل منسلسل عام 3.0 USB (2 في المداخل والمخارج الخلفية و 2 من خلال الموزع المدار	USB
الداخلي) 4. بدائر قد بالالبار تارير الاغرار في 100 ما 100 من 100 (100)	
(X فتحة متعد الملحقات الإضافية PCIe 2.U (X1) الا X الا (X1)	فتحات التوسع
2 x للحدة متعا المتحات الإصالية PCI	
PS/2XI العان∘ PS/2X1 أية الدائية العانية	
۲ × ۲۵/۲۵ وکته المعانيخ محمدیو در ۲ × فتر مذال الدر آ	
T × فتحه سطيعه T × فترحة تساسل ف	
ر مست سسب فتحة توصيل عدد 1 x منظومة العرض المرئي VGA	المداخل والمخارج
فتحة لتوصيل عدد 1 x الشركة المحلية A المحلية VOV	الخلفية
فتحة توصيل عدد x 2 ناقل متسلسل عام 3 0 USB	
فتحة توصيل عدد 2 x ناقل متسلسل عام 2.0 USB	
فتحة توصيل عدد x 3 جاك الصوت	
وصلة 2 SATA x 2 جيجابايت / الثانية	
وصلة للطاقة x 1 x 24 دبوس	
موزع x 2 ناقل متسلسل عام USB (كل موزع يتحمل فتحتين ناقل متسلسل عام USB (2.0 USB)	
موزع x 1 ناقل متسلسل عام USB (كل موزع يتحمل فتحتين ناقل متسلسل عام USB (3.0 USB)	as the states th
وصلة x 2 مراوح تبريد المنظومة	المداخل والمحارج
موزع x 1 اللوحة الأمامية	(ند)حيب
موزع x 1 الصوت الأمامي	
موزع X 1 سیموس مباشر	
موزع x 1 فتحة تساسلية	
عامل شكل مدد التكنولوجيا المتقدمة microATX، 226 مم 195 مم 195	عامل الشكل
ويندوز إكس ب (Windows 7 (64bit)/ 8.1 (64bit) ويندوز إكس ب	أنظمة التشغيل
بيوستار BIOSTAR تحتفظ بحق إضافة أو أزلة الدعم لأي نظام تشغيل مع أو بدون أنظار.	المدعومة

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French

Spécifications	
Support Unité	N3150MP: Intel® Celeron® N3150 processor
Centrale	N3050MP: Intel® Celeron® N3050 processor
	Supporte mémoire DDR3L double canal 1600 (1.35V/1.5V)
	Banc de mémoire 2 x DDR3L DIMM, Supporte max. jusqu'à une mémoire de 8
Méreosino	GB
wemoire	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 2 x SATA 6Gb/s
Slockage	Supporte système indigène AHCI mode
	Realtek RTL8111H
Réseau local	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)
000	Port 4x USB 3.0 (2 sur les I/O arrières et 2 en interne)
Connecteur	1x PCle 2.0 x16 Fente (x1)
d'extension	2x PCI Fente
	1x PS/2 Clavier
	1x PS/2 Souris
	1x Port imprimante
	1x Port série
I/O arrirées	1x Port VGA
	1x port LAN
	2x Port USB 3.0
	2X Port USB 2.0
	3X entrees audio
	2X Connecteur SATA 6.0GD/S
	1X 24-Broche de carte
	2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0)
1/O on intorno	2x Connectour ventilatour avetème
NO en interne	2x Connecteur ventiliateur systeme
	1x Fiche audio avant
	1x Fiche mémoire CMOS vide
	1x Embase port série
Facteur	
d'encombremen	Facteur d'encombrement microATX 226 mm x 195 mm
t	
	Windows 7 (64bit)/ 8.1 (64bit)
Support SE	Biostar se réserve le droit d'ajouter ou d'enlever le support pour toute SE avec
	ou sans préavis.

German

Spezifikationen	
CPU-Unterstützun	N3150MP: Intel® Celeron® N3150 processor
g	N3050MP: Intel® Celeron® N3050 processor
	Unterstützt zweikanaliges DDR3L 1600 (1.35V/1.5V)
	2 x DDR3L DIMM-SpeicherSlot, Max. Uterstützung bis zu 8 GB-Speicher
Festplattenspeich	Jedes DIMM unterstützt nicht-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L-Module
er	* Bitte konsultieren Sie www.biostar.com.tw für für Speicherunterstützung
	Liste.
Arbaitaanaiahar	2x SATA 6Gb-Verbindung
Arbeitsspeicher	Unterstützt Ureinwohner AHCI Modus
	Realtek RTL8111H
LAN	10/ 100/ 1000 Mb Auto-Negotiation, Halb- / Voll-Duplex-fähig
Audio Codoc	ALC662
Audio-Codec	5.1 Kanäle, HD-Audio
	6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header)
035	4x USB 3.0-Port (2 hintere I/Os und 2 via interne Header)
Erweiterungsansc	1x PCle 2.0 x16-Slot (x1)
hlüsse	2x PCI Slot
	1x PS/2-Maus
	1x PS/2-Keyboard
	1x für Druckerport
	1x Serieller Port
Hintere I/Os	1x VGA-Port
	1x LAN-Port
	2x USB 3.0-Port
	2x USB 2.0-Port
	3x Audio Jack
	2x SATA 6.0Gb/s-Verbinung
	1x 24-Pin-Stromverbindung
	2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports)
	1x USB 3.0-Header (jeder Header unterstützt 2 USB 3.0-Ports)
Interne I/Os	2x System-Ventilatorverbindung
	1x Header für Frontpanel
	1x Header für Frontaudio
	1x Header für klares CMOS
	1x Serieller Port-Header
Formfaktor	microATX Formfaktor, 226 mm x 195 mm
OS-Unterstützung	Windows 7 (64bit)/ 8.1 (64bit)
	Biostar reserves the right to add or remove support for any OS with or without
	notice.

Portuguese

Especificações	
Suporte	N3150MP: Intel® Celeron® N3150 processor
Processador	N3050MP: Intel® Celeron® N3050 processor
	Suporta DDR3L 1600 Canal Duplo (1.35V/1.5V)
	2 x DDR3L DIMM Slot de memória Suporta até 8 GB Memória
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 6Gb/s,Suporta AHCI modo
	Realtek RTL8111H
2/ 11	10/ 100/ 1000 Mb auto negociação, capacidade duplex Metade / Cheio
Codec de Audio	ALC662
	Canais de Audio de Alta Definição 5.1
	Porta 6x USB 2.0 (2 nas entradas/saídas traseiras e 4 pelos Dispositivos
USB	internos)
	Porta 4x USB 3.0 (2 nas entradas/saídas traseiras e 2 pelos Dispositivos
	internos)
Slots de	Porta 1x PCIe 2.0 x16 (x1)
expansão	Porta 2x PCI
	Mouse 1x PS/2
	Teclado 1x PS/2
	Porta Impressora x1
Entradas/Saídas	Porta Série x1
no painel	Porta 1x VGA
traseiro	Porta 1x LAN
	Porta 2x USB 3.0
	Porta 2x USB 2.0
	Soquete audio 3x
	Conector 2x SATA 6.0Gb/s
	Conector de 24 pinos x1
	Dispositivo 2x USB 2.0 (cada Dispositivo suporta 2 portas USB 2.0)
Conectores na	Dispositivo 1x USB 3.0 (cada Dispositivo suporta 2 portas USB 3.0)
placa	Conector de Ventoinha Sistema x2
h	Dispositivo Painel Frontal x1
	Dispositivo de Audio Frontal x1
	Dispositivo CMOS Direct x1
	Dispositivo Porta Série x1
⊢ator de Fôrma	Fator de Förma microATX, 226 mm x 195 mm
	Windows 7 (64bit)/ 8.1 (64bit)
Suporte OS	Biostar reserva seu direito de adicionar ou retirar o suporte para qualquer OS
	com ou sem notificação.

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Russian

Спецификации	
Поддержка	N3150MP: Intel® Celeron® N3150 processor
центрального	N3050MP: Intel® Celeron® N3050 processor
процессора	
	2 гнезда платы памяти DDR3L DIMM максимальная память до 8 Гб
Память	Каждый модуль DIMM поддерживает модуль не-ЕСС 512 Мб/ 1/ 2/ 4/ 8 Гб
	DDR3L
	* Перечень поддержки памяти смотрите на <u>www.biostar.com.tw</u> .
Накопитель	Соединитель 2х SATA 6 Гб/с, Поддерживает родной АНСІ режим
	Realtek RTL8111H
Локальная сеть	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)
	4 порта USB 3.0 (2 сзади ввода-вывода и 2 через внутренние контакты)
Гнезда расшир.	
	1 последовательного порта
Задняя плата	1 порт VGA
ввода-вывода	1 порт локальной сети
	2 порта USB 3.0
	2 порта USB 2.0
	3 гнезд для подключения наушников
	1x 19V DC-IN
	Соединитель 2х SATA 6 Гб/с
	1 24-выводный разъем питания
	2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0)
Внутр. Плата	1 контакта USB 3.0 (каждыи контакт поддерживает 2 порта USB 3.0)
ввода-вывода	2 разъема вентилятора системы
	1 контакт передней панели
Конструктив	Форм-фактор тісгоАТХ 226мм х 195 мм
	Windows 7 $(64 \text{ bit})/81(64 \text{ bit})$
Поддержка ОС	Biostar оставляет за собой право добавлять или удалять поддержку
	любой ОС, с уведомлением или без.

Spanish

Especificaciones	
Compatibilidad con el procesador	N3150MP: Intel® Celeron® N3150 processor N3050MP: Intel® Celeron® N3050 processor
Memoria	Soporta DDR3L 1600 Doble Canal (1.35V/1.5V) 2x DDR3L DIMM Ranura de memoria Soporta hasta 8 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 6Gb/s, Soporta nativo AHCI modo
LAN	Realtek RTL8111H 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 4x USB 3.0 (2 en las entradas/salidas posteriores y 2 por los distribuidores internos)
Ranuras de	Ranura 1x PCle 2.0 x16 (x1)
Panel trasero de E/S	Ratón 1x PS/2 Teclado 1x PS/2 Ranura Impresora x1 Ranura Serie x1 Ranura 1x VGA Ranura 1x LAN Ranura 2x USB 3.0 Ranura 2x USB 2.0 Socket audio 3x
Conectores en placa	Conector 2x SATA 6Gb's Conector con 24 patillas x1 Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0) Distribuidor 1x USB 3.0 (cada distribuidor soporta 2 ranuras USB 3.0) Conector Ventilador Sistema x2 Distribuidor Panel Frontal x1 Distribuidor Audio Frontal x1 Distribuidor CMOS Directo x1 Distribuidor Ranura Serie x1
Factor de Forma	Factor de Forma microATX, 226 mm x 195 mm
Soporte OS	Windows 7 (64bit)/ 8.1 (64bit) Biostar reserva su derecho de añadir o retirar el soporte para cada OS con o sin notificación.

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คุณสมบัติ	
**	N3150MP: Intel® Celeron® N3150 processor
ซีพียู	N3050MP: Intel® Celeron® N3050 processor
	สนับสนุม Dual Channel DDR3L 1600 (1.35V/1.5V)
	รองรับหน่วยความจำ 2 สล็อต DDR3L DIMM สูงสุดถึง 8 GB
หนวยความจา	ทุก DIMM สนับสนุนโมดูล non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L
	* เข้าชมได้ที่ <u>www.biostar.com.tw</u> สำหรับรายการหน่วยความจำที่สนับสนุน
	2x SATA 6Gb/s พอร์ตเชื่อมต่อ
สตอเรจ	สนับสนุน AHCI
	Realtek RTL 8111H
แลน	10/ 100/ 1000 Mb/s การเจรจาอัตโนมัติ, ความสามารถในการเพล็กซ์ Half / Full
	ALC662
ออดเอ เคเตก	5.1 Channels, High Definition Audio
. ed	6x USB 2.0 พอร์ต (2 พอร์ตด้านหลัง I/O และ 4 พอร์ต ผ่านพอร์ตเชื่อมต่อด้านใน)
ยูเอลบ	4x USB 3.0 พอร์ต (2 พอร์ตด้านหลัง I/O และ 2 พอร์ต ผ่านพอร์ตเชื่อมต่อด้านใน)
. .	1x PCle 2.0 x16 สลีอต (x1)
ลลอดขยายเพมเตม	2x PCI สล็อต
	1x PS/2 เมาส์
	1x PS/2 คีย์บอร์ด
	1x VGA พอร์ต
	1x พอร์ตเชื่อมต่อปริ้นเตอร์
พอร์ต I/O ด้านหลัง	1x พอร์ตเชื่อมต่อ Serial
	1x LAN พอร์ต
	2x USB 3.0 พอร์ต
	2x USB 2.0 พอร์ต
	3x Audio Jack
	2x SATA 6Gb/s พอร์คเชื่อมค่อ
	1x 24-Pin Power พอร์ตเชื่อมต่อ
	2x USB 2.0 พอร์ดเชื่อมต่อ (หัวเชื่อมต่อทุกดัวรองรับ 2 พอร์ด USB 2.0)
	1x USB 3.0 พอร์ดเชื่อมต่อ (หัวเชื่อมต่อทุกดัวรองรับ 2 พอร์ด USB 3.0)
พอร์ต I/O ด้านใน	2x พอร์ดเชื่อมต่อระบบ Fan
	1x พอร์ตเชื่อมแต่แผงด้านหน้า
	1x พอร์ตเชื่อมต่อออดิโอด้านหน้า
	1x พอร์ต Clear CMOS
	1x พอร์ตเชื่อมต่อ Serial
รูปแบบจากโรงงาน	microATX จากโรงงาน, 226มม. x 195 มม.
	Windows 7 (64bit)/ 8.1 (64bit)
ลนับสนุน OS	Biostar ขอสงวนสิทธิ์ในการเพิ่มหรือถอดการสนับสนุนสำหรับระบบปฏิบัติการ OS ต่างๆ
	โดยไม่ต้องแจ้งให้ทราบล่วงหน้า

2016/02/24

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