# tehnotzka

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# Uputstvo za upotrebu (EN)

BIOSTAR J4125NHU matična ploča





Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

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## **Chapter 1: Introduction**

#### 1.1 Before You Start

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

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

#### **1.2 Package Checklist**

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

#### ⊳Note

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



### 1.3 Specifications

Specifications	
CDU Current	J4025NHU: Intel® Celeron® J4025 processor
CPU Support	J4125NHU: Intel® Celeron® J4125 processor
	Supports Dual Channel DDR4-1866/ 2133/ 2400
Momory	2x DDR4 DIMM Memory Slot, Max. Supports up to 8 GB Memory
wentory	Each DIMM supports non-ECC 4GB DDR4 module
	* Please refer to www.biostar.com.tw for Memory support list.
Storage	2x SATA III (6Gb/s) : Supports AHCI
Storage	1x M.2 (M Key) : Supports PCIe 2.0 x2 (10Gb/s) & SATA III (6Gb/s) SSD
	RTL8111H
LAN	10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
Audio Codos	ALC887/ALC897
Audio Codec	7.1 Channels, High Definition Audio
	2x USB 3.1(Gen1) port (2 on rear I/Os)
036	6x USB 2.0 port (2 on rear I/Os and 4 via internal headers)
	Intel Processors
Expansion Slots	1x PCle 2.0 x16 Slot
Expansion Slots	Intel Chipset
	1x Key E - M.2 Slot (Optional)
	1x PS/2 Keyboard/ Mouse Port
	1x HDMI Port
	1x VGA Port
Rear I/Os	2x USB 3.1(Gen1) Port
	2x USB 2.0 Port
	1x LAN port
	3x Audio Jack
	2x SATA III - 6Gb/s Connector
	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)
	1x 4-Pin Power Connector
	1x 24-Pin Power Connector
	2x System Fan Connector
Internal I/Os	1x Front Panel Header
	1x Front Audio Header
	2x COM Port Header
	1x Printer Port Header
	1x Clear CMOS Header
	1x TPM Header (Optional)
Form Factor	Mini-ITX Form Factor, 170 mm x 170 mm
OS Support	Windows 10(64bit) / Windows 11(64bit)
	* Biostar reserves the right to add or remove support for any OS with or without notice.

#### **1.4 Rear Panel Connectors**



#### ⊳Note

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

#### The 2/4/5.1/7.1-channel configuration

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



#### 1.5 Motherboard Layout



#### ⊳Note

- » represents the 1st pin.
- » The PCIE-M2\_2 slot/ TPM header is optional.

# **Chapter 2: Hardware installation**

#### 2.1 Connect Cooling Fans

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

#### SYS\_FAN1/2: System Fan Header



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

#### ⊳Note

» SYS\_FAN1/2 support 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to pin#1(GND).

#### 2.2 Install System Memory

#### **DDR4 Modules**





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



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



#### ⊳Note

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

#### Memory Capacity

DIMM Socket Location	DDR4 Module	Total Memory Size
DIMMA1	4GB	May is 8CD
DIMMB1	4GB	IVIAX IS AGB.

#### **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
Disabled	Х	0
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 Gen2 x16 Slot

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



#### PCIE-M2\_1: M.2 (Key M) Slot

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

#### ►Note

» When using SATA SSD module on M.2 slot, the SATA\_2 connector will be disabled.



#### PCIE-M2\_2: M.2 (Key E) Slot (Optional)

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



PCIE-M2



#### Install an Expansion Card

You can install your expansion card by following steps:

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

#### 2.4 Jumper & Switch Setting

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

Pin opened

Pin closed

Pin 1-2 closed







#### JCMOS1: Clear CMOS Jumper

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





Pin 1-2 Open: Normal Operation (Default)



Pin 1-2 Close: Clear CMOS data

#### **Clear CMOS Procedures:**

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



#### 2.5 Headers & Connectors

#### ATXPWR1: ATX Power Source Connector

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



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

#### **ATXPWR2: ATX Power Source Connector**

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



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

#### ⊳Note

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

#### PANEL1: Front Panel Header

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



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

#### **TPM1: Trusted Platform Module Header (Optional)**

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



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

#### SATA1/2: Serial ATA Connectors

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



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

#### F\_USB1/ 2: Header for USB 2.0 Ports at Front Panel

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



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



# **Chapter 3: UEFI BIOS & Software**

#### 3.1 UEFI BIOS Setup

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

#### 3.2 BIOS Update

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

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

#### **BIOSTAR BIO-Flasher**

#### ⊳Note

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

#### Updating BIOS with BIOSTAR BIO-Flasher

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

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

BIOSTAR		BIOS-FLASHER Uti	llity	
FPS M(p)		Information Project Name : A32H2 8305 Date : 12/17/2019		
Total FF	8 : 1	Status		
		50.05		

BIOSTAR	BIOS-FLASHER Utility	
<b>FPS</b>	Information	
	8103 Date : 12/17/2019	
Total FFS : 1	Stetus	
BIOSTAR	BIOS-FLASHER Utility	
BIOSTAR	BIGS-FLASHER Utility v3.02	
BIOSTAR I	BIOD-FLASHER USINY (3.0) Information	
BIOSTAR I	BIOS-FLASHER Unity v1.02 References Provide the internet References	
BIOSTAR I	BIOS FLASHER Uppiny ck.d: Preparation. Full Sites + Society Set Sites + 12:27-040 Full Sites	
EIGSTAR +10 Teleffer Fe	BIOS FLASHER Unity         v8.42           Information         v8.42	
► BIOSTAR ■ *10 FEE FOR FEE 1 FOR	BIOS-FLASHER Lypiny.           VA18           Professional           Professional </td <td></td>	
EIGSTAR •10 •10 EIGL #48 + 1 EIGL #48 + 1 4000000,000 4000000,000 4000000,000	BIOS FLASHER Uppiny 	
BIOSTAR PR PR PR PR PR PR PR PR PR P	RIGS FLASHER Unity v3.42	
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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 <DEL> key to enter BIOS setup.

After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes and Reset> to restart the computer. Then the BIOS Update is completed.

#### BIOS Update Utility (through the Internet)

- 1. Installing BIOS Update Utility from the DVD Driver.
- 2. Please make sure the system is connected to the internet before using this function.
- 3. Launch BIOS Update Utility and click the "Online Update" button on the main screen.

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





#### F\_AUDIO1: Front Panel Audio Header

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



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

#### ⊳Note

- » It is recommended that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high definition audio capability.
- » Please try to disable the "Front Panel Jack Detection" if you want to use an AC'97 front audio output cable. The function can be found via O.S. Audio Utility.

#### J\_COM1/ 2: Serial Port Header

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



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

#### J\_PRINT1: Printer Port Connector

This header allows you to connector printer on the PC.



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

#### J4025NHU | J4125NHU <

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.

Information	8
Do you want to download H678R802	2.BST BIOS via Internet ?
	Yes No
Information	23
H67BR802.BST Download Finish! Do	you want to program ?
	Yes No
Information	×
Update BIOS Finish ! Please Re	boot System !
	ОК

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

After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes> and <Reset> to restart the computer. Then, the BIOS Update is completed.

#### **BIOS Update Utility (through a BIOS file)**

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

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



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



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



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

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

After entering the BIOS setup, please go to the <Save & Exit>, using the <Restore Defaults> function to load Optimized Defaults, and select <Save Changes and Reset> to restart the computer. Then, the BIOS Update is completed.

#### **Backup BIOS**

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

Save As					2 🛛
Save in:	My Documen	ts	•	🗢 🗈 💣 🗊-	
My Recent Documents Desktop My Documents	My Music My Pictures report				
My Computer					
My Network	File name:	test		•	Save
riaces	Save as type:			•	Cancel

#### 3.3 Software

#### **Installing Software**

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

#### Launching Software

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

#### ⊳Note

- » All the information and content about following software are subject to be changed without notice. For better performance, the software is being continuously updated.
- » The information and pictures described below are for your reference only. The actual information and settings on board may be slightly different from this manual.



# **Chapter 4: Useful help**

#### 4.1 Driver Installation

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

		11 11 11 11	
YOUR MODE		SSF TOP	
YOUR OPERATING DRIVER VERSION /	G SYSTEM RELEASE DATE		
>> <b>&gt;</b>	Auto		
		Chipset Driver	
		Realtek Network Chip Driver	
Driver		Realtek HD Audio Driver	
Software			
Manual		install	

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

#### A. Driver Installation

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

#### **B. Software Installation**

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

#### C. Manual

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

#### ⊳Note

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

#### 4.2 AMI BIOS Beep Code

#### **Boot Block Beep Codes**

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

#### **POST BIOS Beep Codes**

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

#### 4.3 AMI BIOS post code

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



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

#### 4.4 Troubleshooting

Probable	Solution
<ol> <li>There is no power in the system. Power LED does not shine; the fan of the power supply does not work</li> <li>Indicator light on keyboard does not shine.</li> </ol>	<ol> <li>Make sure power cable is securely plugged in.</li> <li>Replace cable.</li> <li>Contact technical support.</li> </ol>
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> <li>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.</li> <li>Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.</li> </ol>
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> <li>Back up data and applications files.</li> <li>Reformat the hard drive. Re-install applications and data using backup disks.</li> </ol>
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> <li>Set master/slave jumpers correctly.</li> <li>Run SETUP program and select correct drive types.</li> <li>Call the drive manufacturers for compatibility with other drives.</li> </ol>

#### CPU Overheated

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

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

In this case, please double check:

- 1. The CPU cooler surface is placed evenly with the CPU surface.
- 2. CPU fan is rotated normally.
- 3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

- 1. Remove the power cord from power supply for seconds.
- 2. Wait for seconds.
- 3. Plug in the power cord and boot up the system.

Or you can:

- 1. Clear the CMOS data. (See "Close CMOS Header: JCMOS1" section)
- 2. Wait for seconds.
- 3. Power on the system again.



# **APPENDIX: Specifications in Other Languages**

#### Arabic

المواصفات		
Intel <sup>®</sup> Celeron <sup>®</sup> J4025 processor : J4025NHU	قامت حدال الحالية السكنية	
Intel <sup>®</sup> Celeron <sup>®</sup> J4125 processor : J4125NHU	قاعدة وحدة المعالجه المردريه	
ندعم قناة مزدوجة دي. دي. ار. DDR4-1866/2133/2400	e elill	
x2 دي. دي. ار. DDR4 فتحات الذاكرة المزدوجة DIMM، تتحمل كحد أقصى 8 جيجابايت ذاكرة		
كل فتحة مزدوجة DIMM فتحمل دون ECC 4 جيجابايت دي. دي. ار DDR4	التالون	
* يرجى الرجوع إلى الموقع www.biostar.com.tw لقائمة دعم الذاكرة.		
وصلة AHCl : ساتا2 x تتحمل رايد الأم AHCl : ساتا2 x قتحمل رايد الأم		
x1 فتحة (M.2 (M Key) : تدعم M.2 (M Key) & PCI-E 2.0 x2 (10Gb/s) : تدعم x1	التخزين	
Realtek RTL8111H		
10 / 100 / 1000 ميجابايت / الثانية ، تحديد تلقاني ، النصف / القدرة القصوى المزدوجة	شبكة محلية LAN	
ALC887/ALC897	م ال م طال	
7.1 قنوات عالية الدقة	الترمير الصنوني	
منافذ x 2 ناقل متسلسل عام Gen1)3.1 USB) (2 في المداخل والمخارج الخافية)		
منافذ k 6 ناقل متسلسل عام 2.0 USB ( 2 في المداخل والمخارج الخلفية و 4 من خلال الموزع الداخلي )	ناقل متسلسل عام USB	
Intel Processors		
x 1 فتحة منفذ الملحقات الإضافية PCle 2.0 متحة منفذ الملحقات الإضافية x 1		
Intel Chipsets	فتحات التوسع	
x 1 فَتَحَةُ M.2-E Key (الحَتَيَاري)		
PS/2 x 1 لُوحة المفاتيح للكمبيوتر /الفارة		
فتحة توصيل عدد HDMI x 1 وسيط متعدد العالى الوضوح	المداخل والمخارج الخلفية	
فتحة توصيل عدد x 1 منظومة العرض المرني VGA		
فتحة توصيل عدد x 2 ناقل متسلسل عام Gen1) 3.1USB)		
فتحة توصيل عدد x 2 ناقل متسلسل عام 2.0 USB		
فتحة لتوصيل عدد 1 x الشبكة المحلية LAN		
فتحة توصيل عدد x 3 جاك للصوت		
رصلة     SATA III (6Gb/s) مساتا2 x 2		
موزع x 2 ناقل متسلسل عام USB (كل موزع يتحمل فتحتين ناقل متسلسل عام 2.0 USB)	المداخل والمخارج الداخلية	
وصلة للطاقة 1 x 1 دبابيس		
وصلة للطاقة 1 x 1 ديوس		
وصلة x 2 مراوح تبريد المنظومة		
موزع 1 x اللوحة الأمامية		
موزع X 1 الصوت الأماسي		
موزع x 2 فتحة تسلسلية		
موزع x 1 فتحة للطابعة		
موزع x 1 سیموس مباشر		
موزع TPM x 1 )اختياري(		
عامل شكل مدد التكغولوجيا المتقدمة Mini-ITX، 170 مم 170 مم	عامل الشكل	
ويندوز (10(64bit)	أنظمة التشغبل المدعومة	
* بيوستار BIOSTAR تحتفظ بحق إضافة أو أزلة الدعم لأي نظام تشغيل مع أو بدون أنظار.	الطالة التسبي الماعوني	

#### German

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



#### Russian

Спецификации	
Поддержка	J4025NHU: Intel® Celeron® J4025 processor
центрального	J4125NHU: Intel® Celeron® J4125 processor
процессора	
	Поддерживает двухканальный DDR4-1866/2133/2400
Память	2 гнезда платы памяти ООК4 ОТМИИ, максимальная память до 8 го
	каждый модуль DIMINI поддерживает модуль не-ECC 4 го DDR4
	* Перечень поддержки памяти смотрите на www.blostar.com.tw.
Накопитель	соединитель 2x SAIA III (660/s) : Поддерживает Анст
	1X М.2 (М Кеу) . Поддерживает РСе 2.0 X2 (1000/5) & SATA III (600/5) SSD
Локальная сеть	
	ABIOCOLINACOBANIE 10/ 100/ 1000 W0/C, padorael B Holino/Holiygyiniekchow pewwwe
Аудиокодек	
	2 порта LISB 3 1(Gen1) (2 сзади ввода-вывода)
USB	6 порта USB 3.1(3сн1) (2 свода выбода) 6 порта USB 2.0 (2 свади ввода-вывода и 4 через внутренние контакты)
	о нерка созда созда созда и нерко силиренние контактону
	1х РС е 2.0 х16 гнездо
Гнезда расшир.	Intel Yuncer
	1х Кеу Е - М.2 гнездо (необязательный)
	1 клавиатура / мышь PS/2
	1 порт HDMI
	1 порт VGA
Задняя плата ввода-	2 порта USB 3.1(Gen1)
вывода	2 порта USB 2.0
	1 порт локальной сети
	3 гнезд для подключения наушников
	Соединитель 2х SATA III 6 Гб/с
	2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0)
	1 4-выводный разъем питания
	1 24-выводный разъем питания
Внутр Плата ввола-	2 Разъем системного вентилятора
вывода	1 контакт передней панели
	1 контакт передней аудиопанели
	2 контакт последовательного порта
	1 контакт порта принтера
	1 контакт микросхемы Clear CMOS
	1 контакт ТРМ (необязательный)
Конструктив	Форм-фактор Mini-ITX, 170мм х 170 мм
Поддержка ОС	Windows 10(64bit)
	* Biostar оставляет за собой право добавлять или удалять поддержку любой ОС, с уведомлением
	или без.

### Spanish

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



#### Thai

คุณสมบัต	
ชีพีย	J4025NHU: Intel® Celeron® J4025 processor
	J4125NHU: Intel® Celeron® J4125 processor
	สนับสนุน Dual Channel DDR4-1866/2133/2400
	รองรับหน่วยความจำ 2 สล็อต DDR4 DIMM สูงสุดถึง 8 GB
หน่วยความจา	ทุก DIMM สนับสนุนโมดูล non-ECC 4GB DDR4
	* เข้าชมได้ที่ www.biostar.com.tw สำหรับรายการหน่วยความจำที่สนับสนุน
d = 0.150	2x SATA III พอร์ดเชือมต่อ (6Gb/s) : สนับสนุน AHCI
สตอเรจ	1x M.2 (M Key) : สนับสนุน PCIe 2.0 x2 (10Gb/s) & SATA (6Gb/s) SSD
ແລນ	RTL8111H
	10/ 100/ 1000 Mb/s การเจรจาอัตโนมัติ, ความสามารถในการเพล็กซ์ Half / Full
	ALC887/ALC897
ออดิโอ โคเดก	7.1 Channels, High Definition Audio
	2x USB 3.1(Gen1) พอร์ต (2 พอร์ตด้านหลัง I/O)
ยูเอลบ	6x USB 2.0 พอร์ต (2 พอร์ตด้านหลัง I/O และ 4 พอร์ต ผ่านพอร์ตเชือมต่อด้านใน)
	Intel โปรเขสเขอร์
	1x PCIe 2.0 x16 สล็อด
ลลอดขยายเพมเดม	Intel ชิปเช็ด
	1x Key E - M.2 สล็อต (ไม่จำเป็น)
	1x PS/2 คีย์บอร์ด / เมาส์
	1x HDMI พอร์ต
	1x VGA พอร์ต
พอร์ต I/O ด้านหลัง	2x USB 3.1(Gen1) พอร์ต
	2x USB 2.0 พอร์ด
	1x LAN พอร์ต
	3x Audio Jack
	2x SATA III - 6Gb/s พอร์ตเชือมต่อ
	2x USB 2.0 พอร์ดเซือมด่อ (หัวเซือมด่อทุกดัวรองรับ 2 พอร์ด USB 2.0)
	1x 4-Pin Power พอร์ดเชือมต่อ
	1x 24-Pin Power พอร์ดเชือมด่อ
	2x พอร์ดเขือมด่อระบบ Fan
พอร์ต I/O ด้านใน	1x พอร์ตเชือมแต่แผงด้านหน้า
	1x พอร์ตเชือมด่อออดิโอด้านหน้า
	2x พอร์ดเชื่อมด่อ Serial Port
	1x พอร์ดเชือมด่อปรีนเตอร์
	1x พอร์ต Clear CMOS
	1x พอร์ดเชือมด่อ TPM (ไม่จำเป็น)
รูปแบบจากโรงงาน	Mini-ITX จากโรงงาน, 170มม. x 170 มม
สนับสนุน OS	Windows 10(64bit)
	Biostar ขอสงวนสิทธิ์ในการเพิ่มหรือถอดการสนับสนุนสำหรับระบบปฏิบัติการ OS ด่างๆ
	โดยไม่ต้องแจ้งให้ทราบล่วงหน้า

# tehnotzka

Ovaj dokument je originalno proizveden i objavljen od strane proizvođača, brenda Biostar, i preuzet je sa njihove zvanične stranice. S obzirom na ovu činjenicu, Tehnoteka ističe da ne preuzima odgovornost za tačnost, celovitost ili pouzdanost informacija, podataka, mišljenja, saveta ili izjava sadržanih u ovom dokumentu.

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

https://tehnoteka.rs/p/biostar-j4125nhu-maticna-ploca-akcija-cena/