



N100I-EM-A

Industrial Motherboard

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Chapter 1

Product overview

1.1 Package contents

Check your industrial motherboard package for the following items.

- ☒ 1 x ASUS N100I-EM-A Motherboard
- ☒ 1 x Serial ATA 6.0 Gb/s cable
- ☒ 2 x M.2 screw packages
- ☒ 1 x ASUS I/O Shield



NOTE: If any of the above items is damaged or missing, contact your distributor or sales representative immediately.

1.2 Features

- Built-in Intel® Celeron® Quad-core Processor N100
- One DDR4 3200/3000/2800/2666/2400/2133 MHz Non-ECC SO-DIMM up to 16GB
- 2 x SATA 6Gb/s ports, 4 x USB 3.2 Gen 1 headers, 3 x USB 2.0 headers, 3 x COM headers, 3 x COM connectors
- 1 x PCIe 3.0/2.0 x 1 slot (x1 mode), 1 x M.2 socket (E key) , 1 x M.2 socket (M key)
- Multi-display: 1 x VGA port, 1 x HDMI™ port, 1 x LVDS connector

1.3 Specifications

CPU	Built-in Intel® Celeron® Quad-core Processor N100
Memory	1 x DDR4, max.16GB, 3200/3000/2800/2666/2400/2133 MHz Non-ECC Memory
Graphics	- Supports VGA output with a maximum resolution of 1920 x 1200 @ 60Hz (Default) - Supports HDMI™ output with a maximum resolution of 3840 x 2160 @ 60Hz (Default) - Supports LVDS output with a maximum resolution of 1920 x 1200 @ 60Hz (Default) Support up to three displays simultaneously
Expansion slots	1 x PCI Express 3.0/2.0 x1 slot (x1 mode) 1 x M.2 Socket 1 with E key, type 2230 for WIFI/BT device (PCIe x1 /USB2.0) 1 x M.2 Socket 3 with M key, type 2242/ 2260/ 2280 (SATA/ PCIe x1)
Storage	2 x SATA Gen 3.0 up to 6.0 Gb/s ports *SATA6G_2 shares bandwidth with M.2 socket 3.
Ethernet	2 x Realtek® 8111H
Audio	Realtek® ALC897 High Definition Audio
Rear panel I/O ports	1 x VGA port 1 x HDMI™ port 2 x USB 3.2 Gen 1 ports 2 x USB 2.0 ports 1 x Serial Port connector (RS232/422/485) 2 x Serial Port connectors (RS232) 2 x LAN (RJ45) ports 1 x DC-IN port 2 x Audio jacks
Internal Connectors	1 x USB 3.2 Gen 1 header supports 2 additional USB 3.2 Gen 1 ports 1 x USB 2.0 header supports 1 USB 2.0 port 1 x Chassis Fan header 1 x Chassis Intrusion header 1 x Front Panel Audio header (F_AUDIO) 3 x Serial Port headers 1 x System Panel header (10-1 pin F_Panel) 1 x Speaker header 1 x Stereo Out header

(continued on the next page)

Internal Connectors	1 x Clear CMOS header 1 x COM Debug header 1 x GPIO connector 1 x LVDS Signal header 1 x LCD Panel Monitor Switch header 1 x LVDS Panel VCC Power Selection jumper 1 x LVDS Panel Backlight Enable Signal Selection jumper 1 x LVDS Backlight Panel header 1 x 4-pin ATX power connector (DC in mode)
Watchdog Timer	Yes
Security	1 x SPI TPM header
Manageability	WfM 2.0, WOL by PME
Power requirement	12v DC-IN
Operation Temperature	0~60°C
Non-Operation Temperature	-40~85°C
Relative Humidity	Operational humidity: 40°C@10%~95%
OS support	Windows® 10 (64bit) / Windows® IoT enterprise Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
Form Factor	Mini-ITX Form Factor, 17.0cm x 17.0cm



NOTE: Specifications are subject to change without notice.

Chapter 2

Motherboard information

2.1 Before you proceed

Take note of the following precautions before you install motherboard components or change any motherboard settings.



CAUTION!

- Unplug the power cord from the wall socket before touching any component.
 - Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity.
 - Hold components by the edges to avoid touching the ICs on them.
 - Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.
 - Before you install or remove any component, always remove the AC power by unplugging the power cord from the power outlet. Failure to do so may cause severe damage to the motherboard, peripherals, or components.
-

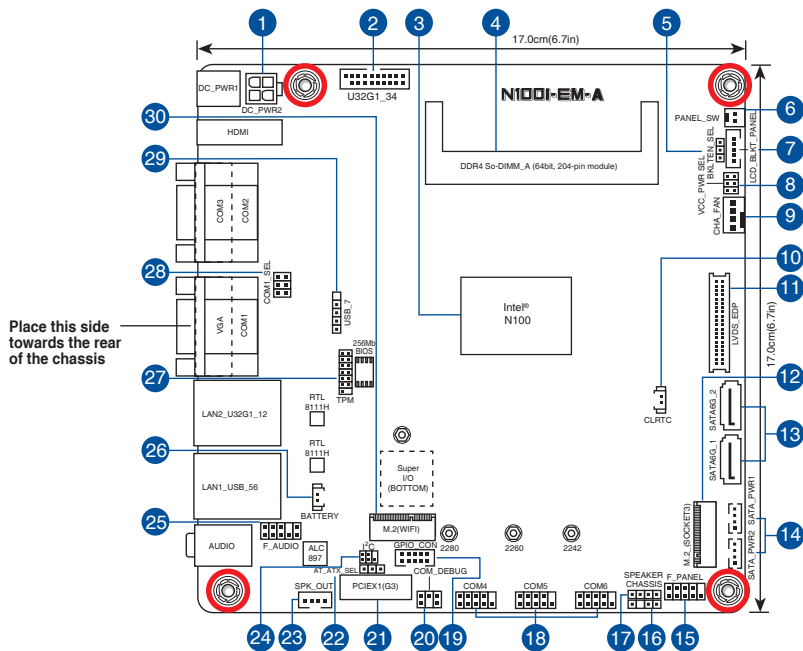
2.2 Motherboard layout



NOTE: Place four screws into the holes indicated by circles to secure the motherboard to the chassis.



CAUTION! Do not overtighten the screws! Doing so can damage the motherboard.

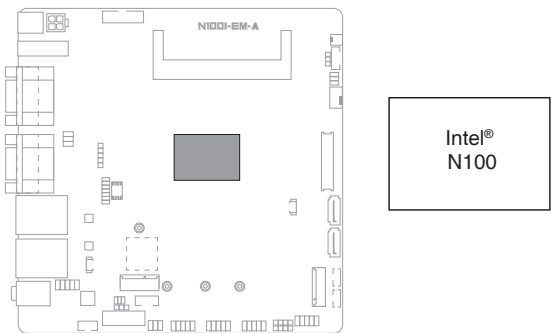


NOTE: The audio codec may vary between motherboards, please consult your sales window for the motherboards' exact codec type.

Connectors/Jumpers/Slots	Page
1. ATX Power connector (4-pin DC_PWR2)	2-14
2. USB 3.2 Gen 1 header (20-1 pin U32G1_34)	2-13
3. Built-in Intel® Celeron® Quad-core Processor N100	2-4
4. DDR4 SO-DIMM slot	2-4
5. LVDS Panel Backlight Enable Signal Selection jumper (3-pin BKLTEN_SEL)	2-8
6. LCD Panel Monitor Switch header (2-pin PANEL_SW)	2-18
7. LVDS Backlight Panel header (5-pin LCD_BLK_T_PANEL)	2-17
8. LVDS Panel VCC Power Selection jumper (6-pin VCC_PWR_SEL)	2-7
9. Chassis Fan header (4-pin CHA_FAN)	2-13
10. Clear RTC RAM (2-pin CLRTC)	2-6
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13. SATA ports (7-pin SATA6G_1, SATA6G_2)	2-17
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16. Chassis Intrusion header (4-1 pin CHASSIS)	2-13
17. Speaker header	2-23
18. Serial Port headers (10-1 pin COM4-6)	2-20
19. General Purpose Input/Output connector (10-pin GPIO_CON)	2-23
20. COM Debug header (6-1 pin COM_DEBUG)	2-21
21. PCI Express x1 slot	2-24
22. AT/ATX Mode Selection jumper (3-pin AT_ATX_SEL)	2-9
23. Stereo Speaker header (4-pin SPK_OUT)	2-19
24. I ² C header (6-1 pin I2C)	2-22
25. Front Panel Audio header (10-1 pin F_AUDIO)	2-19
26. RTC Battery connector	2-22
27. TPM header (14-1 pin TPM)	2-20
28. COM1 Ring/+5V/+12V Selection jumper (6-pin COM1_SEL)	2-10
29. USB 2.0 header (5-1 pin USB_7)	2-14
30. M.2 Wi-Fi	2-15

2.3 Central Processing Unit (CPU)

The motherboard comes with an onboard Intel® Celeron® Quad-core processor N100.

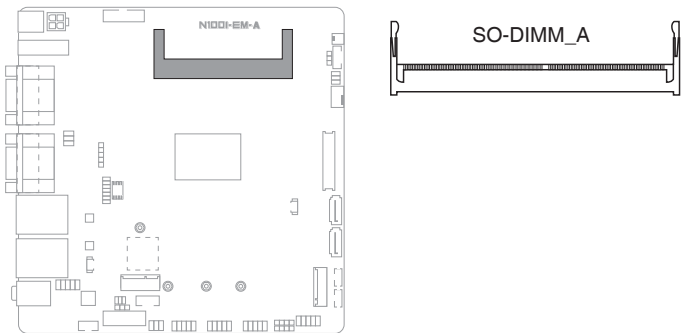


2.4 System memory

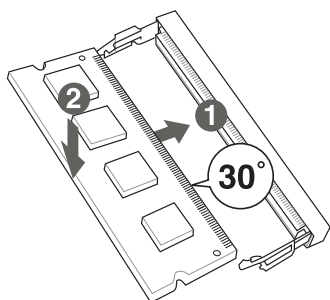
The motherboard comes with a Small Outline Dual Inline Memory Modules (SO-DIMM) slot designed for a DDR4 (Double Data Rate 4) memory module.



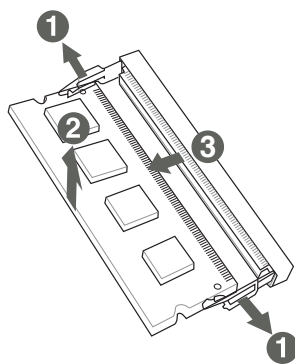
CAUTION! A DDR4 memory module is notched differently from a DDR, DDR2, or DDR3. DO NOT install a DDR, DDR2, or DDR3 memory module to the DDR5 slot.



2.4.1 Installing a DIMM



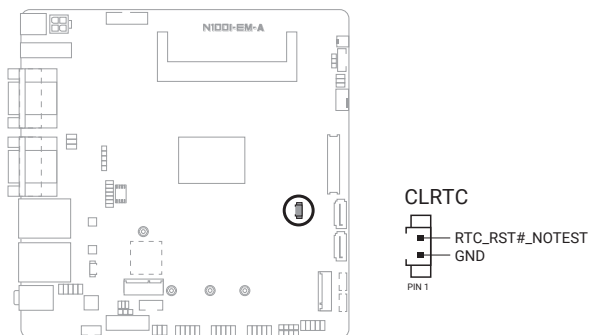
To remove a DIMM



2.5 Jumpers

1. Clear RTC RAM (2-pin CLRTC)

This header allows you to clear the CMOS RTC RAM data of the system setup information such as date, time, and system passwords.



Connector type	HEADER 1x2p, 2.54mm pitch, S/T
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To erase the RTC RAM:

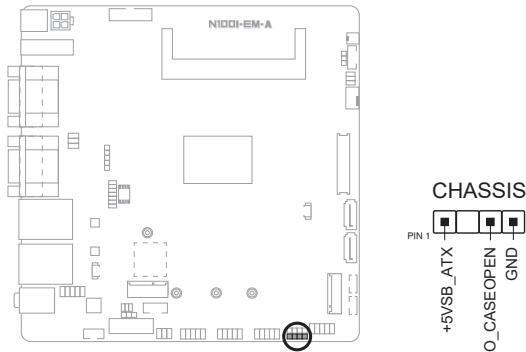
1. Turn OFF the computer and unplug the power cord.
2. Use a metal object such as a screwdriver to short the two pins.
3. Plug the power cord and turn ON the computer.
4. Hold down the key during the boot process and enter BIOS setup to re-enter data.



NOTE: If the steps above do not help, remove the onboard battery and move the jumper again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery.

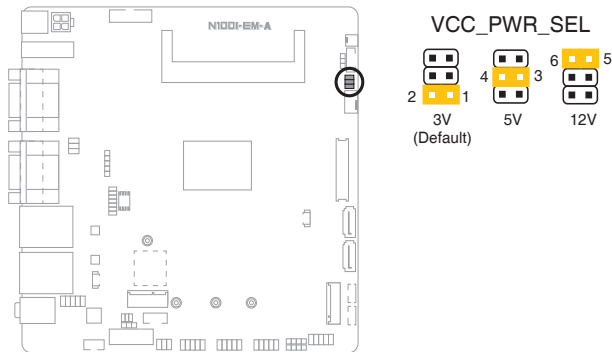
2. Chassis intrusion header (4-1 pin_CHASSIS)

This header is for a chassis-mounted intrusion detection sensor or switch. Connect one end of the chassis intrusion sensor or switch cable to this connector. The chassis intrusion sensor or switch sends a low-level signal to this connector when a chassis component is installed. The signal is then generated as a chassis intrusion event.



Connector type	HEADER 4p, K2, 2.54mm pitch
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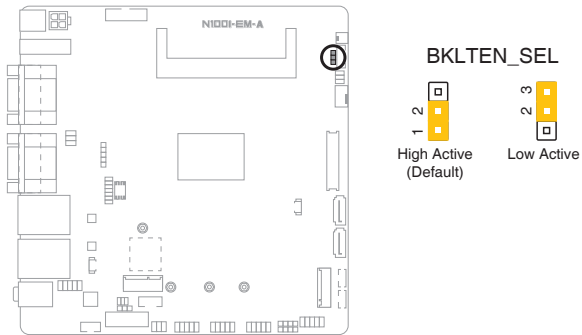
3. LVDS Panel VCC Power Selection jumper (6-pin VCC_PWR_SEL)



Setting	Pins
3V (Default)	1-2
5V	3-4
12V	5-6

Connector type	HEADER 2 x 3p, 2.54mm pitch, S/T
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4. LVDS Panel Backlight Enable Signal Selection jumper (BKLTEN_SEL)

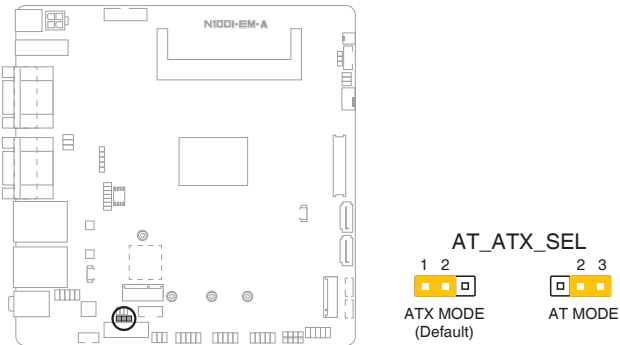


Pins	
1-2 (Default)	High Active
2-3	Low Active

Connector type	HEADER 1x3p, 2.54mm pitch, S/T
----------------	--------------------------------

5. **AT/ATX Mode Selection jumper (3-pin AT_ATX_SEL)**

In ATX mode (default), you will need to manually press the power button to turn on the system power. In AT mode, the board will automatically turn on when system power is connected.

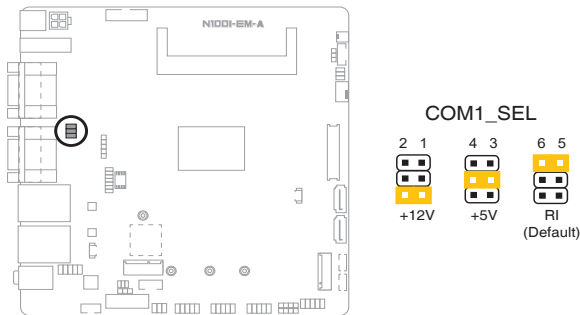


Pins	Description
1-2 (Default)	ATX mode
2-3	AT mode

Connector type	HEADER 1x3p, 2.54mm pitch, S/T
----------------	--------------------------------

6. **COM1 Ring/+5V/+12V Selection jumper (6-pin COM1_SEL)**

The COM1 Ring/+5V/+12V Selection jumper allows you to select 5V or 12V depending on your COM device.

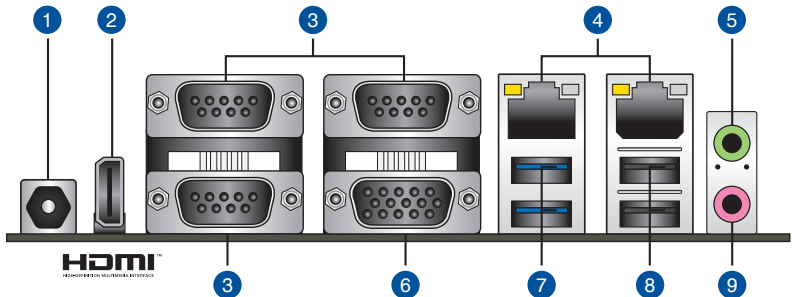


Setting	Pins
+12V	1-2
+5V	3-4
Ring (Default)	5-6

Connector type	HEADER 2x3p, 2.54mm pitch, S/T
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2.6 Connectors

2.6.1 Rear panel connectors



1. **DC Power connector.** Insert the power adapter into this port.



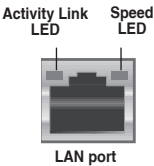
NOTES:

- It only supports 12V DC input.
- The power adapter is purchased separately.

2. **HDMI™ port.** This port is for a High-Definition Multimedia Interface (HDMI™) connector, and is HDCP compliant allowing playback of HD DVD, Blu-ray, and other protected content.
3. **Serial port connectors (COM).** These ports connect modems, or other devices that conform with serial specification.
4. **LAN (RJ-45) ports.** These ports allow Gigabit connection to a Local Area Network (LAN) through a network hub.

LAN port LED indications

Activity/Link LED		Speed LED	
Status	Description	Status	Description
Off	No link	OFF	10Mbps connection
Orange	Linked	ORANGE	100Mbps connection
Orange (Blinking)	Data activity	GREEN	1Gbps connection
Orange (Blinking then steady)	Ready to wake up from S5 mode		



5. **Line Out port (lme).** This port connects to a headphone or a speaker. In the 4, and 5.1 channel configurations, the function of this port becomes Front Speaker Out.

6. **Video Graphics Adapter (VGA) port.** This 15-pin port is for a VGA monitor or other VGA-compatible devices.
7. **USB 3.2 Gen 1 (up to 5Gbps) ports (blue, Type-A).** These Universal Serial Bus (USB) ports are for USB 3.2 Gen 1 devices.



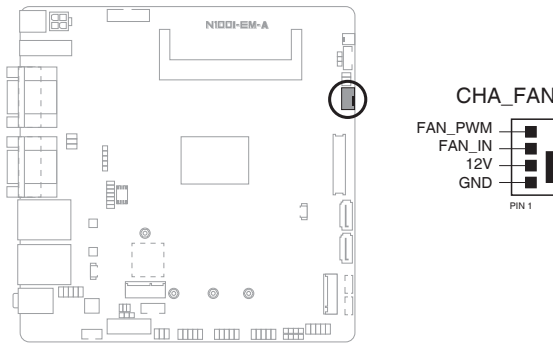
NOTE: We strongly recommend that you connect USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports for faster and better performance from your USB 3.2 Gen 1 devices.

8. **USB 2.0 ports.** These Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.
9. **Microphone port (pink).** This port connects a microphone.

2.6.2 Internal connectors

1. Chassis Fan header (4-pin CHA_FAN)

Connect the fan cable to the fan header on the motherboard, ensuring that the black wire of each cable matches the ground pin of the header.



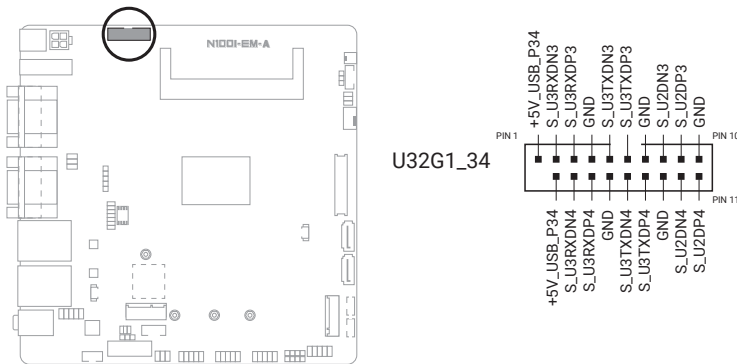
Connector type WAFER HD 4p, 2.54mm pitch, S/T



CAUTION! Do not forget to connect the fan cable to the fan header. Insufficient air flow inside the system may damage the motherboard components. This is not a jumper! Do not place a jumper cap on the fan header!

2. USB 3.2 Gen 1 header (20-pin U32G1_34)

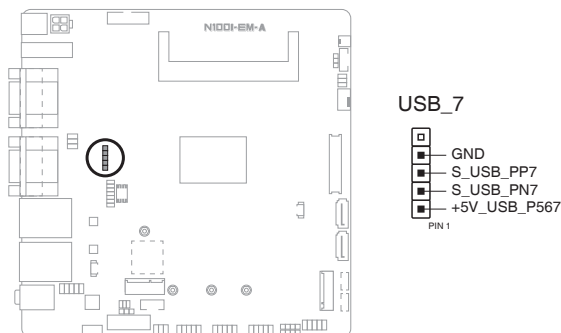
Connect a USB 3.2 Gen 1 module to this header for additional USB 3.2 Gen 1 front or rear panel ports. This header complies with USB 3.2 Gen 1 specifications and provides faster data transfer speeds of up to 5 Gbps, faster charging time for USB-chargeable devices, optimized power efficiency, and backward compatibility with USB 2.0.



Connector type BOX HD 2x10p, K20, 2.0mm pitch

3. USB 2.0 header (5-1 pin USB_7)

This header is for USB 2.0 ports. Connect the USB cable to this header. The USB header complies with USB 2.0 specification that supports up to 480 Mbps connection speed.



Connector type Header 1x5p, K5, 2.54mm pitch



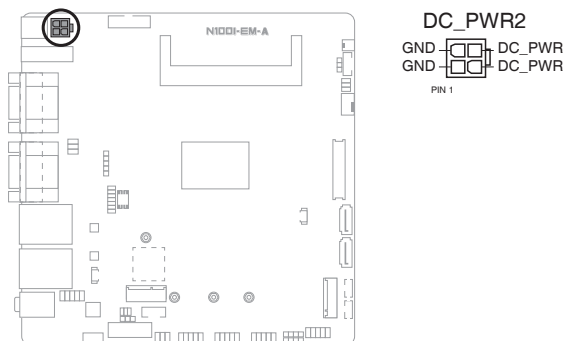
CAUTION! Never connect a 1394 cable to the USB headers. Doing so will damage the motherboard.



NOTE: The USB cable is purchased separately.

4. ATX Power connector (4-pin DC_PWR2)

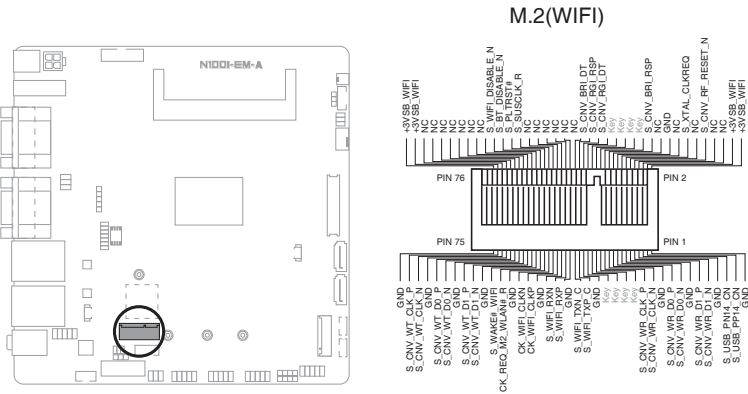
Correctly orient the ATX power supply plug into this connector and push down firmly until the connector completely fits.



CAUTION! DO NOT connect the DC_PWR2 to a power source unit and the DC_PWR1 to a power adapter simultaneously.

5. M.2 Wi-Fi

This socket connects to an M.2 Wi-Fi device.

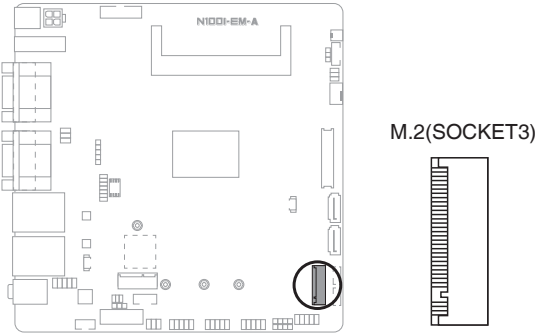


NOTES:

- The M.2 Wi-Fi module is purchased separately.
- We recommend using a PH1 screwdriver with a torque of 2.0+/-0.2 kgf·cm when tightening the screw.

6. M.2 socket 3

This socket allows you to install an M.2 SSD module.

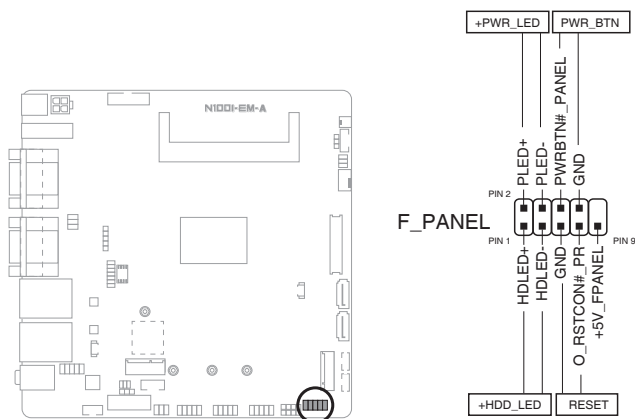


NOTES:

- The M.2 SSD module is purchased separately.
- These slots support M Key and 2242/2260/2280 storage devices.
- We recommend using a PH1 screwdriver with a torque of 2.0+/-0.2 kgf·cm when tightening the screw.

7. System Panel header (10-1 pin F_PANEL)

This header supports several chassis-mounted functions.



Connector type

Header 2x5p, K10, 2.54mm pitch

- **System Power LED header (2-pin +PWR_LED)**

The 2-pin header allows you to connect the System Power LED. The System Power LED lights up when the system is connected to a power source, or when you turn on the system power, and blinks when the system is in sleep mode.

- **Storage Device Activity LED header (2-pin +HDD_LED)**

The 2-pin header allows you to connect the Storage Device Activity LED. The Storage Device Activity LED lights up or blinks when data is read from or written to the storage device or storage device add-on card.

- **Power Button/Soft-off Button header (2-pin PWR_BTN)**

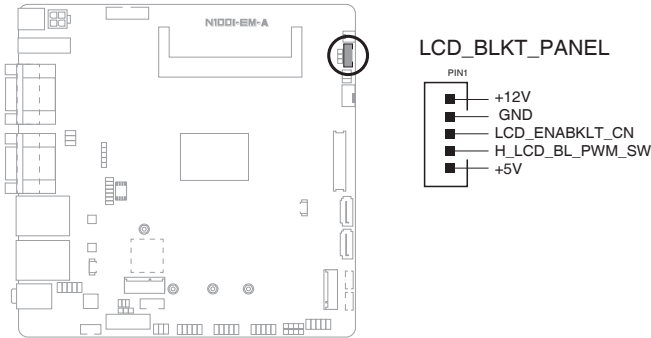
The 2 pin header allows you to connect the system power button. Press the power button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).

- **Reset button header (2-pin RESET)**

The 2-pin header allows you to connect the chassis-mounted reset button. Press the reset button to reboot the system.

8. LVDS Backlight Panel header (5-pin LCD_BLKT_PANEL)

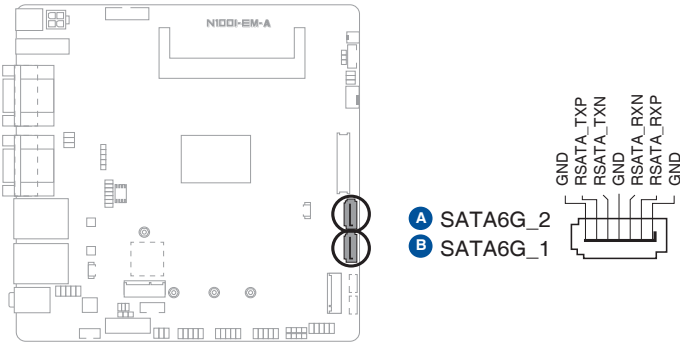
This header is for the LCD panel brightness controls.



Connector type	WAFER HD 5p, 2.0mm pitch
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9. Serial ATA 6.0Gb/s ports (7-pin SATA6G_1/2)

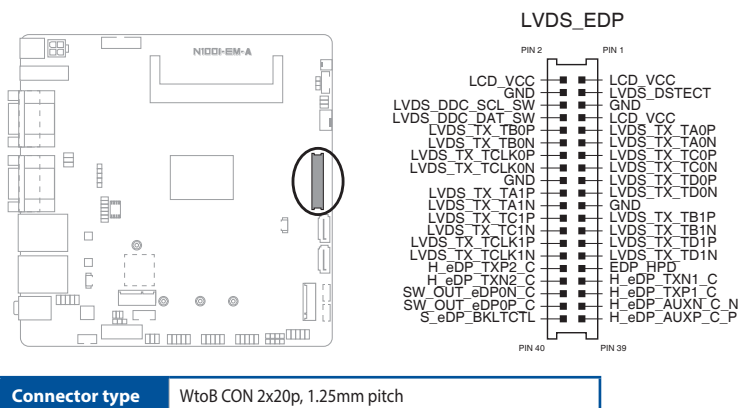
These ports connect to Serial ATA 6.0 Gb/s hard disk drives or optical drives via Serial ATA 6.0 Gb/s signal cables.



Connector type	SATA CON 7p S/T
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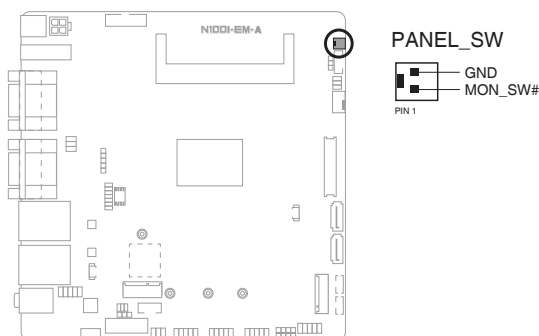
10. LVDS Signal header (40-pin LVDS_EDP)

This header is for an LCD monitor that supports Embedded DisplayPort (EDP) and Low Voltage Differential Signaling (LVDS) interfaces.



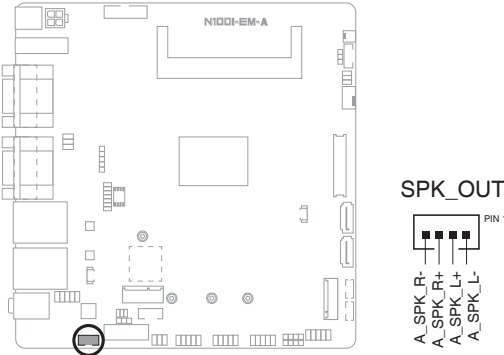
11. LCD Panel Monitor Switch header (2-pin PANEL_SW)

This 2-pin header is for connecting a monitor switch that can turn off the LCD panel display backlight.



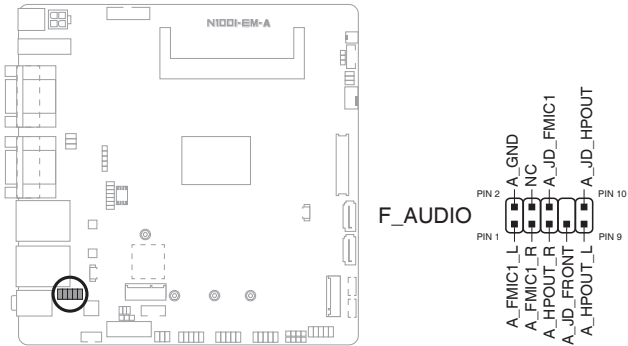
12. Stereo Speaker header (4-pin SPK_OUT)

This header allows connection to an internal, low-power speaker for basic system sound capability. The subsystem is capable of driving both 4Ω 3W speakers at the same time.



13. Front Panel Audio header (10-1 pin F_AUDIO)

This header is for a chassis-mounted front panel audio I/O module that supports HD Audio standard. Connect one end of the front panel audio I/O module cable to this header.



Connector type	HEADER 2x5p, K8, 2.54mm pitch
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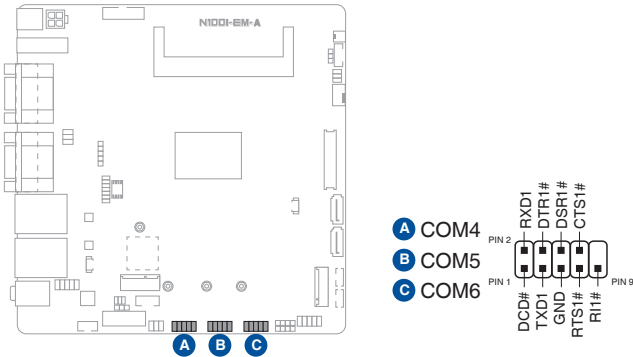


IMPORTANT!

- We recommend that you connect a high-definition front panel audio module to this header to avail of the motherboard's high-definition audio capability.
- If you want to connect a high-definition front panel audio module to this header, set the HD Audio Controller item in the BIOS setup to [Enabled].

14. Serial Port headers (10-pin COM4-6)

These headers are for serial (COM) ports. Connect the serial port cable to any of these headers, then install the module to a slot opening at the back of the system chassis.



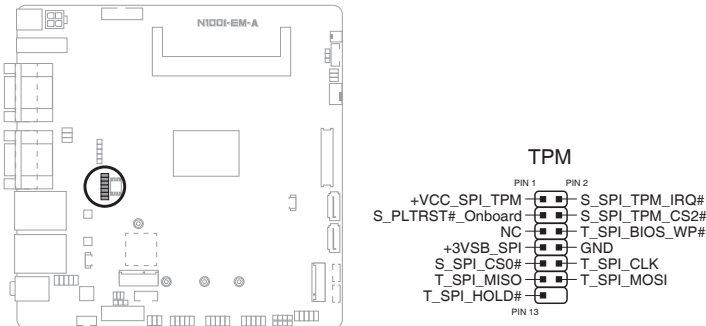
Connector type Header 2x5p, K10, 2.54mm pitch



NOTE: The serial port cable is purchased separately.

15. TPM header (14-1 pin TPM)

This header supports a Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords and data. A TPM system also enhances network security, protects digital identities, and ensures platform integrity.



Connector type Header 2x7p, K14, 2.0mm pitch

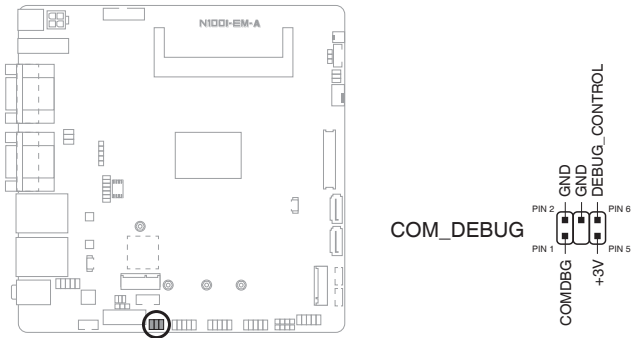
16. SATA Power connectors (4-pin SATA_PWR1, SATA_PWR2)

These connectors are for the SATA power cables. The power cable plug is designed to fit the connector in only one orientation. Find the proper orientation and push down firmly until the connector completely fits.



17. COM Debug header (6-1pin COM_DEBUG)

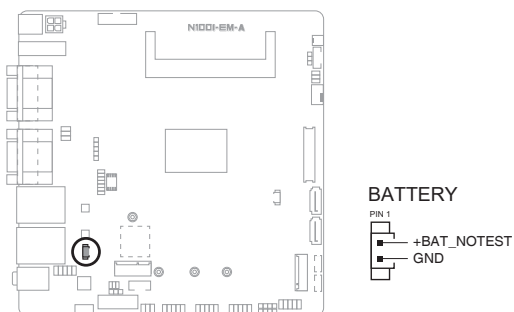
This header allows connection to a COM Debug card.



NOTE: The COM Debug Card is purchased separately.

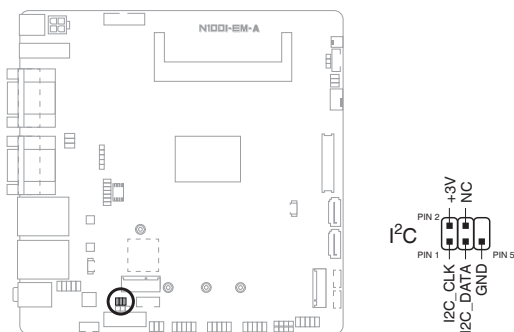
18. RTC Battery connector (2-pin BATTERY)

This connector is for the lithium CMOS battery.



19. I²C header (6-1 pin I2C)

This header allows you to connect an I²C compatible IoT security module.

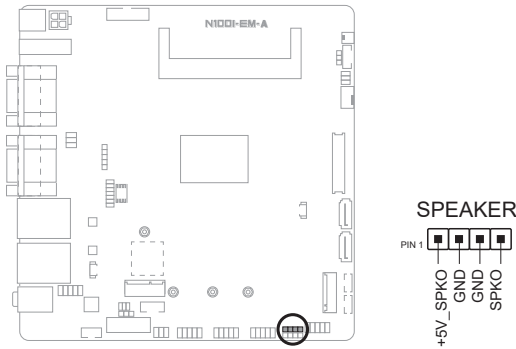


Connector type

Header 2x3p, K6, 2.0mm pitch

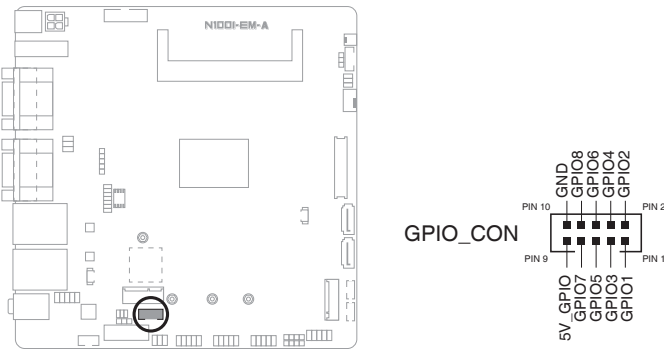
20. **Speaker header**

This header allows you to connect the chassis-mounted system warning speaker. The speaker allows you to hear system beeps and warnings.



21. **General Purpose Input/Output connector (10-pin GPIO_CON)**

The General Purpose Input/Output connector is for a general purpose input/output module which allows you to customize the digital signal input/output.

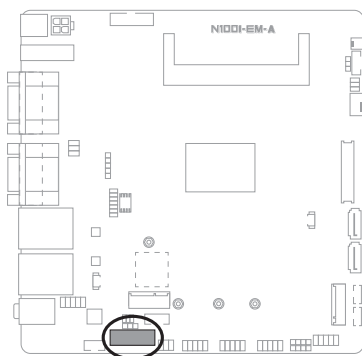


Connector type	WAFFER HD 2x5p, 2.0mm pitch, S/T
----------------	----------------------------------

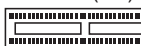
2.7 Slot

1. PCI Express x1 slot

This motherboard supports a PCIe x1 network card, SCSI card or other cards that comply with the PCI Express specification.



PCIEX1(G3)



Chapter 3

BIOS setup



IMPORTANT! Scan the code to view the BIOS update guide.



3.1 BIOS Setup program

Use the BIOS Setup program to configure its parameters. The BIOS screens include navigation keys and brief online help to guide you in using the BIOS Setup program.

Entering BIOS Setup at startup

To enter BIOS Setup at startup:

Press <Delete> or <ECS> during the Power-On Self Test (POST). If you do not press <Delete> or <ECS>, POST continues with its routines.

Entering BIOS Setup after POST

To enter BIOS Setup after POST:

- Press <Ctrl>+<Alt>+ simultaneously.
- Press the reset button on the system chassis.
- Press the power button to turn the system off then back on. Do this option only if you failed to enter BIOS Setup using the first two options.



NOTE: Using the power button, reset button, or the <Ctrl>+<Alt>+ keys to reboot a running operating system can cause damage to your data or system. Always shut down the system properly from the operating system.



IMPORTANT!

- Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard.
- The default BIOS settings for this motherboard apply to most working conditions and ensures optimal performance. If the system becomes unstable after changing any BIOS settings, load the default settings to regain system stability. Select the option **Restore Defaults** under the Exit menu or press hotkey <F3>.
- The BIOS Setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.

BIOS menu screen

The menu bar on top of the screen has the following main items:

Main	For changing the basic system configuration.
Advanced	For changing the advanced system settings.
Hardware Monitor	For displaying the system temperatures, fan and power status, and changing smart fan settings.
Security	For configuring the system security settings.
Boot	For changing the system boot configuration.
Exit	For selecting the save options and default options.

To select an item on the menu bar, press the right or left arrow key on the keyboard until the desired item is highlighted.

3.2 Main menu

The Main menu provides you with an overview of the basic system information, and allows you to set the system date and the system time.

3.2.1 System Date [Day MM/DD/YYYY]

Allows you to set the system date.

3.2.2 System Time [HH:MM:SS]

Allows you to set the system time.

3.3 Advanced menu

The Advanced menu items allow you to change the settings for the CPU and other system devices.



NOTE: Be cautious when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction.

3.3.1 LVDS Configuration

Switch to LVDS

Configuration options: [Disabled] [Enabled]



NOTE: The following item appears when you set **Switch to LVDS** to **[Enabled]**.

All-in-One Chassis

Allows you to select All-in-One (AiO) Chassis (if applicable) for simplified AiO configuration. Configuration options: [None] [1920*1080 LVDS1] [1920*1080 LVDS2] [1920*1080 LVDS3] [1600*900 LVDS4]



NOTE:

- Be cautious when selecting AiO chassis. Incorrect selection of AiO chassis can cause incorrect operation or potential damage to AiO chassis hardware.
 - The following items appear only when you set **All-in-One Chassis** to **[None]**.
-

EDID Data Source

Configuration options: [Pre-Defined] [Flat Panel Display]



NOTE: The following item appears when you set **EDID Data Source** to **[Pre-Defined]**.

LFP Panel Type

Allows you to select LFP panel used by Internal Graphics Device.

Configuration options: [VBIOS Default] [640x480] [800x600] [1024x768] [1280x1024] [1400x1050 LVDS1] [1400x1050 LVDS2] [1600x1200] [1366x768] [1680x1050] [1920x1200] [1440x900] [1600x900] [1024x768] [1280x800] [1920x1080] [2048x1536]

Inverter Polarity

Configuration options: [Normal] [Inverted]

Channel Select

Configuration options: [Dual Channel] [Single Channel]

Mode Select

Configuration options: [JEIDA] [VESA 6bit] [VESA 8bit] [VESA 10bit]

DIGON enable to LVDS_ON enable(T2)

Configuration options: [0] ~[50]

LVDS_ON enable to BLON enable (T3)

Configuration options: [0] ~[1023]

BLON disable to LVDS_ON disable (T4)

Configuration options: [0] ~[1023]

LVDS_ON disable to DIGON disable (T5)

Configuration options: [0] ~[50]

Completion of power down to power up (T7)

Configuration options: [0] ~[1023]

VARY_BL enable to BL_EN enable (T9)

Configuration options: [0] ~[1023]

BL_EN disable to VARY_BL disable (T10)

Configuration options: [0] ~[1023]

3.3.2 PCH-FW Configuration

This item allows you to configure Management Engine Technology parameters.

TPM Device Selection

Allows you to select TPM device.

[PTT] Enables PTT in SkuMgr.

[dTPM] Disables PTT in SkuMgr.



NOTE: When PTT is disabled, all data saved on it will be lost.

3.3.3 Trusted Computing

Security Device Support

Allows you to enable or disable BIOS support for security device.

Configuration options: [Disabled] [Enabled]



NOTE: The following items appear when a TPM device is installed on your motherboard.

SHA256 PCR Bank

Configuration options: [Disabled] [Enabled]

SHA384 PCR Bank

Configuration options: [Disabled] [Enabled]

SM3_256 PCR Bank

Configuration options: [Disabled] [Enabled]

Pending operation

Allows you to schedule an operation for security device.

Configuration options: [None] [TPM Clear]



NOTE: Your computer will reboot during restart in order to change the state of security device.

Platform Hierarchy

Configuration options: [Disabled] [Enabled]

Storage Hierarchy

Configuration options: [Disabled] [Enabled]

Endorsement Hierarchy

Configuration options: [Disabled] [Enabled]

Physical Presence Spec Version

Allows you to select to tell O.S. to support PPI Spec Version 1.2 or 1.3.

Configuration options: [1.2] [1.3]



NOTE: Some HCK tests might not support 1.3.

3.3.4 CPU Configuration

The items in this menu show CPU-related information the BIOS automatically detects.

Intel (VMX) Virtualization Technology

This item, when set to [enabled], will allow a VMM to utilize the additional hardware capacities provided by Vanderpool Technology.

Configuration options: [Disabled] [Enabled]

VT-d

Configuration options: [Disabled] [Enabled]

CPU - Power Management Control

This item allows you to manage and configure the CPU's power.

Intel® SpeedStep™

Allows your system to support more than two frequency ranges.

Configuration options: [Disabled] [Enabled]

Intel® Speed Shift Technology

Allows you to enable or disable Intel® Speed Shift Technology support.

When enabled, CPPC v2 interface allows hardware controlled P-state.

Configuration options: [Disabled] [Enabled]



NOTE: The following item appears only when **Intel® SpeedStep** or **Intel® Speed Shift Technology** are available and enabled.

Turbo Mode

Configuration options: [Disabled] [Enabled]

C states

Allows you to enable or disable CPU Power Management. Configuration

options: [Disabled] [Enabled]



NOTE: The following item appears only when you set **C states** to [Enabled].

Enhanced C-states

Allows you to enable or disable C1E. CPU will switch to minimum speed when all cores enter C-state. Configuration options: [Disabled] [Enabled]

Power Limit 1 Override

Allows you to enable or disable Power Limit 1 Override.

Configuration options: [Enabled] [Disabled]



NOTE: The following item appears only when you set **Power Limit 1 Override** to [Enabled].

Power Limit 1

Allows you to configure Power Limit 1 value in milliwatts.

Power Limit 2 Override

Allows you to enable or disable Power Limit 2 Override.

Configuration options: [Enabled] [Disabled]



NOTE: The following item appears only when you set **Power Limit 2 Override** to **[Enabled]**.

Power Limit 2

Allows you to configure Power Limit 2 value in milliwatts.

3.3.5 Graphics Configuration

This item allows you to select a primary display from IGFX and PEG graphical devices.

Primary Display

Allows you to select which of the IGFX/PEG Graphics devices should be the primary display or select SG for switchable Gfx.

Configuration options: [FORCE] [Auto] [IGFX] [PEG Slot]

Internal Graphics

Configuration options: [Disabled] [Enabled]

[Disabled] Disables internal graphics.

[Enabled] Enables internal graphics.

RC6 (Render Standby)

Allows you to enable or disable render standby support.

Configuration options: [Disabled] [Enabled]

3.3.6 PCI Express Configuration

This item allows you to configure PCI Express settings.

PCIEX1(G3) Slot

Allows you to configure the PCI Express Root Port settings.

PCI Express Root Port 1

Allows you to enable or disable the PCI Express Root Port.

Configuration options: [Disabled] [Enabled]

PCIe Speed

Allows you to configure the PCIe speed.

Configuration options: [Auto] [Gen1] [Gen2] [Gen3]

Detect Timeout

Allows you to set the time (milliseconds) of waiting for link to exit Detect state

for enabled ports before assuming there is no device and potentially disabling the port. Use the <+> and <-> keys to adjust the value or input the desired value.

Detect Non-Compliance Device

Allows you to enable/disable detection of non-compliant PCI express devices.

Configuration options: [Disabled] [Enabled]

3.3.7 Super IO Configuration

Serial Port 1 Configuration

This item allows you to set parameters of Serial Port 1 (COMA).

Serial Port

Allows you to enable or disable the serial port (COM).

Configuration options: [Disabled] [Enabled]

COM1 Control

Allows you to select COM1 mode.

Configuration options: [RS232] [RS422] [RS485]

Serial Port 2 Configuration

This item allows you to set parameters of Serial Port 2 (COMB).

Serial Port

Allows you to enable or disable the serial port (COM).

Configuration options: [Disabled] [Enabled]

Serial Port 3 Configuration

This item allows you to set parameters of Serial Port 3 (COMC).

Serial Port

Allows you to enable or disable the serial port (COM).Configuration options:
[Disabled] [Enabled]

Serial Port 4 Configuration

This item allows you to set parameters of Serial Port 4 (COMD).

Serial Port

Allows you to enable or disable the serial port (COM).Configuration options:
[Disabled] [Enabled]

Serial Port 5 Configuration

This item allows you to set parameters of Serial Port 5 (COME).

Serial Port

Allows you to enable or disable the serial port (COM).Configuration options:
[Disabled] [Enabled]

Serial Port 6 Configuration

This item allows you to set parameters of Serial Port 6 (COMF).

Serial Port

Allows you to enable or disable the serial port (COM).Configuration options:
[Disabled] [Enabled]

3.3.8 Serial Console Redirection

COM1(~6)

Console Redirection

Allows you enable or disable the console redirection feature.

Configuration options: [Enabled] [Disabled]



NOTE: The following item is accessible when you set **Console Redirection** to [Enabled].

Console Redirection Settings

The settings specify how the host computer and the remote computer (which the user is using) will exchange data. Both computers should have the same or compatible settings.

Terminal Type

Configuration options: [VT100] [VT100Plus] [VT-UTF8] [ANSI]

[VT100] ASCII char set.

[VT100Plus] Extends VT100 to support color, function keys, etc.

[VT-UTF8] Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.

[ANSI] Extended ASCII char set.

Bits per second

Allows you to select serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.

Configuration options: [9600] [19200] [38400] [57600] [115200]

Data Bits

Configuration options: [7] [8]

Parity

A parity bit can be sent with the data bits to detect some transmission errors.

Configuration options: [None] [Even] [Odd] [Mark] [Space]

[None] Disables parity check.

[Even] Parity bit is 0 if the num of 1's in the data bits is even.

[Odd] Parity bit is 0 if the num of 1's in the data bits is odd.

[Mark] Parity bit is always 1.

[Space] Parity bit is always 0.



NOTE: Mark and Space Parity do not allow for error detection.

Stop Bits

Stop bits indicate the end of a serial data packet. The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.

Configuration options: [1] [2]

Flow Control

Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a “stop” signal can be sent to stop the data flow. Once the buffers are empty, a “start” signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.

Configuration options: [None] [Hardware RTS/CTS]

VT-UTF8 Combo Key Support

Allows you to enable or disable VT-UTF8 Combination Key Support for ANSI/VT100 terminals. Configuration options: [Disabled] [Enabled]

Recorder Mode

With this mode enabled only text will be sent. This is to capture Terminal data. Configuration options: [Disabled] [Enabled]

Resolution 100x31

Allows you to enable or disable extended terminal resolution.

Configuration options: [Disabled] [Enabled]

Putty KeyPad

Allows you to select FunctionKey and KeyPad on Putty.

Configuration options: [VT100] [LINUX] [XTERMR6] [SCO] [ESCN] [VT400]

COM6(Pci Bus0,Dev0,Func0) (Disabled)



NOTE: The following items can be configured only when AMT is provisioned.

Console Redirection Settings

Redirection COM Port

Allows you to select a COM port to display redirection of Legacy OS and Legacy OPRM Messages.

Configuration options: [COM1] [COM2] [COM3] [COM4] [COM5] [COM6(Pci Bus0,Dev0,Func0) (Disabled)]

Resolution

This allows you to set the number of rows and columns supported on the Legacy OS. Configuration options: [80x24] [80x25]

Redirect After POST

Configuration options: [Always Enable] [BootLoader]

[Always Enable]

Legacy Console Redirection is enabled for Legacy OS.

[BootLoader]

Legacy Console Redirection is disabled before booting to Legacy OS.

3.3.9 SATA Configuration

This item allows you to configure SATA device options settings.

SATA Controller(s)

Allows you to enable or disable the onboard SATA device.
Configuration options: [Disabled] [Enabled]



NOTE: The following item appears only when you set **SATA Controller(s)** to [Enabled].

SATA Mode Selection

Allows you to determine how SATA controller(s) operate. Configuration options: [AHCI]

SATA6G_1

Allows you to enable or disable SATA Port.
Configuration options: [Disabled] [Enabled]

M.2 M Key / SATA 6G_2

Configuration options: [Disabled] [Enabled]

3.3.10 Network Stack Configuration

Network Stack

This item allows you to disable or enable the UEFI Network Stack.
Configuration options: [Disabled] [Enabled]



NOTE: The following items appear only when you set **Network Stack** to [Enabled].

IPv4 PXE Support

Allows you to enable or disable IPv4 PXE boot support. If disabled, IPv4 PXE boot support will be unavailable. Configuration options: [Disabled] [Enabled]

IPv6 PXE Support

Allows you to enable or disable IPv6 PXE boot support. If disabled, IPv6 PXE boot support will be unavailable. Configuration options: [Disabled] [Enabled]

3.3.11 USB Configuration

Legacy USB Support [Enabled]

[Enabled]	Enables the support for USB devices on legacy operating systems (OS).
[Disabled]	The USB devices can be used only for the BIOS setup program.
[Auto]	Allows the system to detect the presence of USB devices at startup. If detected, the USB controller legacy mode is enabled. If no USB device is detected, the legacy USB support is disabled.

XHCI Hand-off

This item functions as a workaround for OSeS without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.

Configuration options: [Enabled] [Disabled]

USB Mass Storage Driver Support

Allows you to enable or disable USB Mass Storage Driver Support.

Configuration options: [Disabled] [Enabled]

U32G1_1(~4)

Allows you to enable or disable USB port. Once set to [Disabled], any USB devices plugged into the connector will not be detected by BIOS or OS.

Configuration options: [Disabled] [Enabled]

USB_5(~7)

Allows you to enable or disable USB port. Once set to [Disabled], any USB devices plugged into the connector will not be detected by BIOS or OS.

Configuration options: [Disabled] [Enabled]

3.3.12 NVMe Configuration

The NVMe Configuration menu displays the NVMe controller and drive information of the devices connected and allows you to configure NVMe device options settings.

3.3.13 Onboard Devices Configuration

HD Audio Controller

Allows you to control detection of the HD-Audio device.

Configuration options: [Enabled] [Disabled]

[Enabled] Enables the HD Audio Device unconditionally.

[Disabled] Disables the HD Audio Device unconditionally.

Realtek LAN 1 Controller

Configuration options: [Disabled] [Enabled]

Realtek LAN 2 Controller

Configuration options: [Disabled] [Enabled]

M.2 WiFi

Allows you to enable or disable M.2 WiFi. Configuration options: [Disabled] [Enabled]

M.2 BT

Allows you to enable or disable M.2 BT.

Configuration options: [Disabled] [Enabled]

I2C1 Controller

Configuration options: [Disabled] [Enabled]

3.3.14 Miscellaneous

DMI/OPI Configuration

DMI Link ASPM Control

Configuration options: [Disabled] [Auto] [ASPM L0s] [ASPM L1] [ASPM L0sL1]

PCI Express Configuration

DMI Link ASPM Control

Allows you to disable or control Active State Power Management on SA side of the DMI link. Configuration options: [Disabled] [L0s] [L1] [L0sL1][Auto]

3.3.15 APM Configuration

This item allows you to configure APM (Advanced Power Management) settings.

ErP Ready

Allows BIOS to switch off some power at S5 to get the system ready for ErP requirement. When set to [Enabled], all other PME options will be switched off. Configuration options: [Disabled] [Enabled]

Restore AC Power Loss

Allows you to select AC power state when power is re-applied after a power failure. Configuration options: [S5 State] [S0 State]

Power On By PCIE

Allows you to enable or disable the Wake-on-LAN function of the onboard LAN controller or other installed PCIe LAN cards. Configuration options: [Disabled] [Enabled]

Power On By Ring

Configuration options: [Disabled] [Enabled]

Power On By RTC

Configuration options: [Disabled] [Single event] [Daily event] [Weekly event] [Monthly event]



NOTE: The following items appear when you set **Power On By RTC** to **[Single event]** or **[Daily event]**.

Wake up hour

Allows you to enter a natural number within 0-23 for hour. For example, enter 3 for 3:00 am and 15 for 3:00 pm.

Wake up minute

Allows you to enter a natural number within 0-59 for minute.

Wake up second

Allows you to enter a natural number within 0-59 for second.



NOTE: The following items appear when you set **Power On By RTC** to **[Weekly event]**.

Alarm day of Week

Allows you to select the day of the week when the system is to wake up.

Configuration options: [Sunday] [Monday] [Tuesday] [Wednesday] [Thursday] [Friday] [Saturday]

Wake up hour

Allows you to enter a natural number within 0-23 for hour. For example, enter 3 for 3:00 am and 15 for 3:00 pm.

Wake up minute

Allows you to enter a natural number within 0-59 for minute.

Wake up second

Allows you to enter a natural number within 0-59 for second.



NOTE: The following items appear when you set **Power On By RTC** to **[Monthly event]**.

Day of the Month

Allows you to select the day of the month when the system is to wake up.

Wake up hour

Allows you to enter a natural number within 0-23 for hour. For example, enter 3 for 3:00 am and 15 for 3:00 pm.

Wake up minute

Allows you to enter a natural number within 0-59 for minute.

Wake up second

Allows you to enter a natural number within 0-59 for second.

3.3.16 EZ-Flash

This item allows you to enter EZ-Flash mode. After you press <Enter>, a confirmation message appears. Use the left/right arrow key to select between [Yes] or [No], then press <Enter> to confirm your choice.

3.3.17 Watchdog Timer

Watchdog Support

Configuration options: [Disabled] [Enabled]



NOTE: The following items appear when you set **Watchdog Support** to **[Enable]**.

Watchdog Count mode

Allows you to select Watchdog Timer I count mode.

Configuration options: [Second Mode] [Minute Mode]

Watchdog Timer

Allows you to set the Watchdog Timer I Time-out value.

3.4 Hardware Monitor menu

The Hardware Monitor menu displays the system temperatures, fan and power status, and allows you to configure the smart fan.

Smart Fan Mode

Allows you to select the Smart Fan mode. Configuration options: [Disabled] [Normal] [Manual Mode]



NOTE: The following items appear only when you set **Smart Fan Mode** to [Manual Mode].

Smart Fan Function

Chassis Fan Setting

Chassis Fan Temperature 1 ~4

Allows you to set the value of temperature1~4.

Chassis Fan FD/RPM 1~4

Allows you to set the value of Fan Duty/PRM when temperature is T1~4.

3.5 Security menu

The Security menu allows a new password to be created or a current password to be changed. The menu also enables or disables the Secure Boot state and lets the user configure the System Mode state.

3.5.1 Administrator Password

If you have set an administrator password, we recommend that you enter the administrator password for accessing the system.

To set an administrator password:

1. Select the **Administrator Password** item and press <Enter>.
2. From the **Create New Password** box, key in a password, then press <Enter>.

To change an administrator password:

1. Select the **Administrator Password** item and press <Enter>.
2. From the **Enter Current Password** box, key in the current password, then press <Enter>.

3. From the **Create New Password box**, key in a new password, then press <Enter>.
4. Confirm the password when prompted.



NOTE: To clear the administrator password, follow the same steps as in changing an administrator password, but press <Enter> when prompted to create/confirm the password.

3.5.2 User Password

If you have set a user password, you must enter the user password for accessing the system.

To set a user password:

1. Select the **User Password** item and press <Enter>.
2. From the **Create New Password box**, key in a password, then press <Enter>.
3. Confirm the password when prompted.

To change a user password:

1. Select the **User Password** item and press <Enter>.
2. From the **Enter Current Password box**, key in the current password, then press <Enter>.
3. From the **Create New Password box**, key in a new password, then press <Enter>.
4. Confirm the password when prompted.

To clear a user password:

1. Select the **Clear User Password** item and press <Enter>.
2. Select **Yes** from the Warning message window then press <Enter>.

3.5.3 Secure Boot

Secure Boot feature is active when Secure Boot is set to [Enabled], Platform Key (PK) is enrolled and the system is running in User mode. Changing the mode requires platform reset. Configuration options: [Disabled] [Enabled]

Secure Boot Mode

Allows you to select Secure Boot Mode. When set to [Custom], Secure Boot Policy variables can be configured by a physically present user without full authentication. Configuration options: [Standard] [Custom]

Key Management

Allows you to modify Secure Boot Policy variables without full authentication.

Platform Key (PK)

Configuration options: [Update]

Key Exchange Keys / Authorized Signatures

Configuration options: [Update] [Append]

Forbidden Signatures

Configuration options: [Update] [Append] [Details] [Export] [Delete]

3.6 Boot menu

The items in the Boot menu allow you to change the system boot options.

Boot Configuration

CHASSIS INTRUDE

Allows you to enable or disable CHASSIS INTRUDE. Configuration options: [Disabled] [Enabled]

Setup Prompt Timeout

Allows you to set the number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Post Time Delay

Allows you to select the desired additional POST waiting time to easily enter the BIOS setup.

Bootup NumLock State

Allows you to select the keyboard NumLock state. Configuration options: [On] [Off]

Quiet Boot

Configuration options: [Disabled] [Enabled]

Fast Boot

Allows you to enable or disable boot with initialization of a minimal set of devices required to launch active boot option. This has no effect for BBS boot options. Configuration options: [Disabled] [Enabled]

FIXED BOOT ORDER Priorities

Boot Option #1(~6)

Allows you to set the system boot order. Configuration options: [Hard Disk] [NVME] [CD/DVD] [SD] [USB Device: UEFI: USB, Partition 1] [Network] [Disabled]

UEFI USB Drive BBS Priorities

Boot Option #1

Allows you to set the system boot order. Configuration options: [USB Device: UEFI: USB, Partition 1] [Disable]

3.7 Exit menu

The items in the Exit menu allow you to save or discard your changes to the BIOS items.

Save Changes and Exit

Allows you to exit the system setup program after saving the changes.

Discard Changes and Exit

Allows you to exit the system setup program without saving the changes you made. When you select this option or if you press <Esc>, a confirmation window appears. Select **Yes** to discard changes and exit.

Save Changes and Reset

Allows you to reset the system setup after saving the changes.

Discard Changes and Reset

Allows you to reset the system setup without saving the changes you made.

Save Options**Save Changes**

Allows you to save changes done so far to any of the setup options.

Discard Changes

Allows you to discard changes done so far to any of the setup options.

Restore Defaults

Allows you to restore or load default values for all the setup options.

Save as User Defaults

Allows you to save the changes done so far as User Defaults.

Restore User Defaults

Allows you to restore the User Defaults to all the setup options.

[illegible]

Appendix

Notices

FCC Compliance Information

Responsible Party: Asus Computer International

Address: 48720 Kato Rd., Fremont, CA 94538, USA

Phone / Fax No: (510)739-3777 / (510)608-4555

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

HDMI Trademark Notice

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-003(B)/NMB-003(B)

Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-003(B)/NMB-003(B)

VCCI: Japan Compliance Statement

Class B ITE

この装置は、クラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

V C C I - B

KC: Korea Warning Statement

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at <http://csr.asus.com/english/REACH.htm>.



DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



DO NOT throw the mercury-containing button cell battery in municipal waste. This symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

Safety Precautions

Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories for other products to prevent the risk of electric shock or fire.

安全上のご注意

付属品は当該専用品です。他の機器には使用しないでください。機器の破損もしくは、火災や感電の原因となることがあります。

English ASUSTeK Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related Directives. Full text of EU declaration of conformity is available at: www.asus.com/support

Français ASUSTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes des directives concernées. La déclaration de conformité de l'UE peut être téléchargée à partir du site Internet suivant: www.asus.com/support

Deutsch ASUSTeK Computer Inc. erklärt hiermit, dass dieses Gerät mit den wesentlichen Anforderungen und anderen relevanten Bestimmungen der zugehörigen Richtlinien übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: www.asus.com/support

Italiano ASUSTeK Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con le direttive correlate. Il testo completo della dichiarazione di conformità UE è disponibile all'indirizzo: www.asus.com/support

Русский Компания ASUS заявляет, что это устройство соответствует основным требованиям и другим соответствующим условиям соответствующих директив. Подробную информацию, пожалуйста, смотрите на www.asus.com/support

Български С настоящото ASUSTeK Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложения постановления на свързаните директиви. Пълният текст на декларацията за съответствие на ЕС е достъпен на адрес: www.asus.com/support

Hrvatski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o skladnosti dostupan je na: www.asus.com/support

Čeština Společnost ASUSTeK Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení souvisejících směrnic. Plné znění prohlášení o shodě EU je k dispozici na adrese: www.asus.com/support

Dansk ASUSTeK Computer Inc. erklærer hermed, at denne enhed er i overensstemmelse med hovedkravene og andre relevante bestemmelser i de relaterede direktiver. Hele EU-overensstemmelseserklæringen kan findes på: www.asus.com/support

Nederlands ASUSTeK Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van de verwante richtlijnen. De volledige tekst van de EU-verklaring van conformiteit is beschikbaar op: www.asus.com/support

Eesti Käesolevaga kinnitab ASUSTeK Computer Inc, et see seade vastab asjakohaste direktiivide olulistele nõuetele ja teiste asjassepuutuvate sätetele. El vastavusdeklaratsiooni täielik tekst on saadaval järgmisel aadressil: www.asus.com/support

Suomi ASUSTeK Computer Inc. ilmoittaa täten, että tämä laite on asiaankuuluvien direktiivien olennaisien vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa: www.asus.com/support

Ελληνικά Με το παρόν, η ASUSTeK Computer Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες σχετικές διατάξεις των Οδηγιών της ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης είναι διαθέσιμο στη διεύθυνση: www.asus.com/support

Magyar Az ASUSTeK Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel a kapcsolódó irányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezésének. Az EU megfeleléségi nyilatkozat teljes szövege innen letölthető: www.asus.com/support

Latviski ASUSTeK Computer Inc. ar šo paziņo, ka šī ierīce atbilst saisto Direktīvu būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: www.asus.com/support

Lietuviai „ASUSTeK Computer Inc.“ šiuo tvirtina, kad šis įrenginys atitinka pagrindinius reikalavimus ir kitas svarbias susijusių direktyvų nuostatas. Visą ES atitikties deklaracijos tekstą galima rasti: www.asus.com/support

Norsk ASUSTeK Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i relaterte direktiver. Fullstendig tekst for EU-samsvarserklæringen finnes på: www.asus.com/support

Polski Firma ASUSTeK Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanych dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem: www.asus.com/support

Português A ASUSTeK Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas relacionadas. Texto integral da declaração da UE disponível em: www.asus.com/support

Română ASUSTeK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și altor prevederi relevante ale directivelor conexe. Textul complet al declarației de conformitate a Uniunii Europene se găsește la: www.asus.com/support

Srpski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama povezanih Direktiva. Pun tekst EU deklaracije o usaglašenosti je dostupan da adres: www.asus.com/support

Slovensky Spoločnosť ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatným príslušným ustanoveniam príslušných smerníc. Celý text vyhlásenia o zhode pre štáty EÚ je dostupný na adrese: www.asus.com/support

Slovenščina ASUSTeK Computer Inc. izjavlja, da je ta naprava skladna z bistvenimi zahtevami in drugimi ustreznimi določbami povezanih direktiv. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu: www.asus.com/support

Español Por la presente, ASUSTeK Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de las directivas relacionadas. El texto completo de la declaración de la UE de conformidad está disponible en: www.asus.com/support

Svenska ASUSTeK Computer Inc. förklarar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta föreskrifter i relaterade direktiv. Fulltext av EU-försäkran om överensstämmelse finns på: www.asus.com/support

Українська ASUSTeK Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним положенням відповідних Директив. Повний текст декларації відповідності стандартам ЄС доступний на: www.asus.com/support

Türkçe ASUSTeK Computer Inc., bu aygıtın temel gereksinimlerle ilişkili Yönergelerin diğer ilgili koşullarıyla uyumlu olduğunu beyan eder. AB uyumluluk bildiriminin tam metni şu adreste bulunabilir: www.asus.com/support

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj uskladen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o uskladenosti dostupan je na: www.asus.com/support

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Country	United Kingdom

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.