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Last Update : 2025/05/30 15:51 Troubleshooting - Device Boot Failure or No Display After Boot (Black Screen) Applicable Products: Notebook, Desktop, All-in-One PC, Gaming Handheld, MiniPC, ASUS NUCTo provide you more detailed instruction, you can also click ASUS YouTube video link below to know more aboutNotebook cannot power on and shows black screen: your device encounters issues with booting or displays a black screen after booting, please refer to the following solutions based on your situation:Scenario 1: Prior to encountering the issue, actions such as disconnecting the battery connector, replacing the memory modules, or performing resets of the Embedded Controller (EC) and the Real-Time Clock (RTC) might have been executed. The lack of display during boot-up could be attributed to the memory training process (or displays Working on Memory Training).The following troubleshooting steps are only applicable if your device doesn't display anything upon booting (or displays Working on Memory Training), but the power indicator is lit. If you have performed any of the following steps prior to encountering this issue, please refer to the instructions below:Disconnecting the battery interface or replacing the battery (including CMOS battery)Replacing memory modules with different capacities or brandsPerform an Embedded Controller (EC Reset) or Real-Time Clock (RTC) reset to restore the hardware in your device to its default state. You can refer to the following articles to understand how to clear it:Notebook/All-In-One PC/Gaming Handheld: How to Reset Embedded Controller (EC Reset), Real-Time Clock (RTC), and Hard ResetDesktop: How to clear CMOSIf you have performed any of the above three operations, your device will need to undergo a complete memory training during the next boot-up.During the memory training process, your device will not display anything, and the training duration is approximately 1-3 minutes, depending on the size of your devices memory.During this period, please ensure that your device is connected to the power source and refrain from forcefully shutting it down, allowing the device to complete the memory training and wait for the display to appear.Note: If your device is equipped with the Intel Lunar Lake CPU platform or higher, and the screen resolution is below 2880x1800 with a refresh rate below 120 Hz, you may see the text 'Working on Memory Training' displayed on the screen during memory training. Please be patient and allow the device to complete the memory training on its own before accessing the operating system. If your device does not meet these hardware specifications, no text will be displayed during memory training.Should you experience more than a three-minute wait with no display, kindly refer to the common troubleshooting methods for boot failure.Scenario 2: Prior to the problem, a BIOS update was performed, and due to an unsuccessful update (such as a forced shutdown), the system is now unable to boot into the Windows operating system.If you have encountered a situation where your device is unable to enter the Windows operating system upon booting due to a failed BIOS update (such as a forced shutdown), please refer to the three different boot screens below to continue the BIOS update process. Once the BIOS update is completed, you will be able to enter the Windows operating system smoothly.Please note: During the BIOS update process, ensure that your device is connected to a power source and avoid forcefully shutting it down to prevent any abnormal issues.Screen 1: If you encounter the following screen, it indicates a failed BIOS update. Please wait for 60 seconds or click Yes on the screen to initiate an automatic BIOS update. (Ensure that your device is connected to the power source)Screen 2: If you encounter the following screen, it indicates a failed BIOS update. Please follow the steps below to complete the BIOS update:Screen 3: If you are experiencing a black screen after booting (power indicator is lit, but no text is displayed), due to a failed BIOS update, you can try performing an Embedded Controller (EC Reset) or Real-Time Clock (RTC) clear to resolve the issue:Scenario 3: If you have previously installed or replaced a discrete graphics card (for desktop computer products only) and encounter issuesFor desktop computers equipped with Intel 13th generation CPUs (and subsequent platforms), if you have installed or replaced a discrete graphics card and the monitor's display output is connected to the discrete graphics card's port, you may experience a no-display issue upon startup. This occurs because the system needs to recognize the graphics card before it can properly output the display for the first time.If you encounter the aforementioned situation, please follow the steps below:Connect to the integrated graphics card: Initially, connect the monitor's display output to the integrated graphics card (port on the motherboard).Power on: Start the computer; the system should boot normally.Confirm graphics card recognition: Access Device Manager; if Microsoft Basic Display Adapter appears, it indicates that the system has recognized the new discrete graphics card.Note: If the new graphics card does not appear, please refer to this article: Troubleshooting - Graphics Card Not Detected.Switch display output: At this point, you can switch the monitor's display output to the discrete graphics card's port.Install the driver: Install the driver for the graphics card. The new graphics card should now function properly.Following these steps will resolve the no-display issue at startup and enable normal use of your discrete graphics card.If you have not encountered the aforementioned scenarios, please explore the common troubleshooting methods for boot failureWhen your device fails to power on (won't turn on/can't be started), please refer to the following different solutions based on the status of the power indicator or the display screen:Note: The power indicator light may vary among different products or models (the image below uses a laptop as an example). For detailed information, please consult the user manual for your specific device model. Refer to this article to learn How to search for and download the user manual.Pressing the power button results in no display and no power indicator lightThe absence of illumination in the power indicator light may stem from either the adapters inability to supply power or a malfunction in the primary components, resulting in the failure to boot. Please proceed with the following steps:Kindly verify that the power cord, adapter, extension cord, and wall socket connected to the device are securely and properly plugged in. If an extension cord is being utilized, ensure that its switch is in the open position.Please utilize the adapter and power cord that adhere to the original manufacturer's specifications and configuration.Inspect whether the power connector is loose, or consider replacing the extension cord and socket to troubleshoot the issue. As shown in the figure below, ensure that the power cord is securely connected at the outlet end and the device end.Note: Different models may exhibit variations in the style of their adapters. Please consult the User Manual for further instructions. Examine the adapter or cable for any signs of damage. If such damage is observed, it is advisable to seek replacement at an authorized service center.Remove all external devices, including keyboards, mice, external hard drives, printers, memory cards, optical discs inside the optical drive, and also the adapter cards in the card reader.Note: Simultaneously detach all external monitors. In the case of a desktop computer, connect an external monitor initially to confirm whether the computer can boot properly and display the screen.Prior to the occurrence of the problem, have you installed any additional hard drives or memory? If so, please remove or restore that hardware to its factory default settings.Disconnect the adapter or power cord, then Perform an Embedded Controller (EC Reset) or Real-Time Clock (RTC) reset to restore the hardware in your device to its default state. You can refer to the following articles to understand how to clear it:Notebook/All-In-One PC/Gaming Handheld: How to Reset Embedded Controller (EC Reset), Real-Time Clock (RTC), and Hard ResetDesktop: How to clear CMOSReconnect the adapter or power cord, then press the power button to verify if the device can boot up normally.Pressing the power button results in no display but the power indicator light is onThe presence of illumination in the power indicator light signifies that the motherboard is receiving power. However, it is possible that certain devices are causing the inability to boot. Please follow the applicable troubleshooting methods based on the product you are using:Notebook, All-In-One PC, Gaming HandheldIf you have an external monitor, attempt to connect the device to it and use the Windows logo key + P shortcut to toggle the display mode, ensuring that the external monitor can display correctly. If you don't have an external monitor or if the external monitor also has no display, proceed to the next step.If the external monitor is functioning properly, try downloading and installing the display driver from the ASUS Support site. Learn more about How to search for and download drivers.Note: If your device is equipped with two graphics cards (commonly known as integrated and dedicated, such as Intel and NVIDIA), you can view them in the Device Manager. Make sure both are updated to the latest version released on the ASUS website.Try executing Microsoft's shortcut key: Windows logo key + Ctrl + Shift + B. This shortcut key can restore display-related settings and sometimes resolve display issues.Remove all external devices, including keyboards, mice, external hard drives, printers, memory cards, optical discs inside the optical drive, and also the adapter cards in the card reader.Note: Simultaneously detach all external monitors.Prior to the occurrence of the problem, have you installed any additional hard drives or memory? If so, please remove or restore that hardware to its factory default settings.Disconnect the adapter or power cord, then perform an Embedded Controller (EC Reset) or Real-Time Clock (RTC) reset to restore the hardware in your device to its default state. You can refer to this article to gain a better understanding of how to clear it: How to Reset Embedded Controller (EC Reset), Real-Time Clock (RTC), and Hard Reset.Reconnect the adapter or power cord, then press the power button to verify if the device can boot up normally.If you have tried the previous solutions and are still unable to resolve the booting issue, you can attempt to use the BIOS recovery mode to update the BIOS in your device. Here are the detailed steps:Note: You will need another computer to download the BIOS file and a USB flash drive (formatted in FAT32) to store the BIOS file. Learn more about converting the format of a USB flash drive to FAT32.Windows 11 operating systemVisit the ASUS Support website, look for the latest BIOS file under the BIOS category that is for the ASUS EZ Flash Utility, and learn more about How to search for and download BIOS files. (The following instructions use the X1505ZA model as an example.)After the download is complete, right-click on the downloaded BIOS file and select [Extract All].Click on [Extract].Once the extraction is complete, rename the file extension of the file to .bin. Right-click on the extracted file, select [Rename].Modify the file name following the model number to .bin. (Example: X1505ZAAS.309 X1505ZA.bin)After renaming, connect the USB flash drive to your device. Right-click the .bin file, select [Show more options], and then choose your USB flash drive from the Send to option. This will copy the BIOS file to the root directory of the USB flash drive.Note: The USB flash drive should be formatted in FAT32. Learn more about converting the format of a USB flash drive to FAT32.Connect the USB flash drive to the device with the booting issue, then turn on the device and press the shortcut key combination (Ctrl + R) repeatedly. If you successfully enter the BIOS recovery mode, the device will restart and enter the ASUS Firmware Update screen (ASUS EZ Flash).Upon entering the BIOS setup screen, you will encounter two types of interfaces: UEFI interface and MyASUS in UEFI. Please refer to the following steps based on the BIOS screen of your device:How to update BIOS in the UEFI modeOnce in the ASUS Firmware Update screen (ASUS EZ Flash), select the .bin file from the USB flash drive.Click on [Yes] to start the BIOS update.Note: During the BIOS update, ensure that the device has a battery charge of 20% or more, and keep the power connected without forcing a shutdown to avoid any abnormal issues.After the BIOS update is complete, the device will automatically restart. Please verify if your issue has been resolved.How to update BIOS in the MyASUS in UEFI modeOnce in the ASUS Firmware Update screen (ASUS EZ Flash), select the .bin file from the USB flash drive.Click on [Confirm] to start the BIOS update.Note: During the BIOS update, ensure that the device has a battery charge of 20% or more, and keep the power connected without forcing a shutdown to avoid any abnormal issues.After the BIOS update is complete, the device will automatically restart. Please verify if your issue has been resolved.Windows 10 operating systemVisit the ASUS Support website, look for the latest BIOS file under the BIOS category that is for the ASUS EZ Flash Utility, and learn more about How to search for and download BIOS files. (The following instructions use the B9450FA model as an example.)After the download is complete, right-click on the downloaded BIOS file and select [Extract All].Click on [Extract].Once the extraction is complete, rename the file extension of the file to .bin. Right-click on the extracted file, select [Rename].Modify the file name following the model number to .bin. (Example: B9450FAAS.305 B9450FA.bin)After renaming, connect the USB flash drive to your device, right-click on the .bin file, select [Send to], and choose your USB flash drive. This will copy the BIOS file to the root directory of the USB flash drive.Note: The USB flash drive should be formatted in FAT32. Learn more about converting the format of a USB flash drive to FAT32.Connect the USB flash drive to the device with the booting issue, then turn on the device and press the shortcut key combination (Ctrl + R) repeatedly. If you successfully enter the BIOS recovery mode, the device will restart and enter the ASUS Firmware Update screen (ASUS EZ Flash).Upon entering the BIOS setup screen, you will encounter two types of interfaces: UEFI interface and MyASUS in UEFI. Please refer to the following steps based on the BIOS screen of your device:How to update BIOS in the UEFI modeOnce in the ASUS Firmware Update screen (ASUS EZ Flash), select the .bin file from the USB flash drive.Click on [Yes] to start the BIOS update.Note: During the BIOS update, ensure that the device has a battery charge of 20% or more, and keep the power connected without forcing a shutdown to avoid any abnormal issues.After the BIOS update is complete, the device will automatically restart. Please verify if your issue has been resolved.How to update BIOS in the MyASUS in UEFI modeOnce in the ASUS Firmware Update screen (ASUS EZ Flash), select the .bin file from the USB flash drive.Click on [Confirm] to start the BIOS update.Note: During the BIOS update, ensure that the device has a battery charge of 20% or more, and keep the power connected without forcing a shutdown to avoid any abnormal issues.After the BIOS update is complete, the device will automatically restart. Please verify if your issue has been resolved.Desktop or MiniPCMake sure the signal cable and power cable of the external display are correctly connected. If possible, try connecting the computer to another external display to determine if the issue is related to the display itself.Desktop computers have different interfaces for connecting to built-in or dedicated graphics cards. Refer to your product's User Manual for detailed connection instructions based on the supported configuration of your computer.Note: The support for built-in or dedicated graphics cards may vary depending on the model as mentioned in the user manual.If you have confirmed the correct display output connection or do not have another external display for testing, proceed to the next step.Try using the Microsoft shortcut key combination: Windows logo key + Ctrl + Shift + B. This shortcut can reset display-related settings and sometimes resolve display issues.Remove all external devices, including the keyboard, mouse, external hard drive, printer, memory cards, optical discs from the optical drive, and adapter cards in the card reader, etc.Note: Please connect the desktop computer to a single external monitor to verify that the system boots up and displays correctly.Check if any hard disk or memory expansion was performed before the issue occurred. If yes, remove the hardware or restore it to its factory default state.Remove the power cord, then perform a CMOS reset to restore the hardware in your computer to its default state. You can refer to this article: How to Clear CMOS.Connect the power cord, then press the power button to check if the computer can boot properly.Pressing the power button results in no display but the power indicator light or battery charge indicator light is flashingThe power indicator light or battery charge indicator light being lit and flashing indicates that the motherboard is receiving power. At this time, the BIOS ROM is preparing to execute recovery, so the screen will remain black. Please wait for approximately 5-8 minutes until the progress window of the BIOS ROM recovery mechanism appears.Note: For Notebook products, please check the battery charge indicator light flashes; for Desktop products, please check the power indicator light flashes.Once the BIOS ROM recovery window appears, please refer to the system's estimated recovery processing time (approximately 2.5 to 3.5 hours). The system will then automatically proceed with the repair.Please note: During recovering process, ensure that your device is connected to a power source and avoid forcefully shutting it down to prevent any abnormal issues.After pressing the power button, a white text on a black background screen appearsIf you see a black screen with white text after booting up your device, first refer to Scenario 2: Failure to Boot Due to Improper BIOS Update and Failure section to see if it matches the screen displayed on your device. If it doesn't match, proceed to the following steps.If the screen displays S.M.A.R.T Status Bad, you can refer to this article to resolve the issue: Boot Displaying Error Message S.M.A.R.T Status Bad.If the error message prompts you to press F1 to enter setup during boot, it indicates that there is a hardware configuration problem detected by the BIOS during startup. The prompt on the screen will indicate which hardware setting is abnormal, and you can follow the instructions to correct it.Additionally, you can try pressing F1 to enter the BIOS setup screen and restore the BIOS settings to their default state. You can refer to this article to learn how to restore BIOS settings: How to restore BIOS settings. (For desktop computers, refer to: How to restore BIOS settings)After pressing the power button, the device boots up with a display, but the screen goes blank after entering the desktopIf you can see the Windows welcome screen during boot but the screen goes black after entering the desktop, it may be a problem caused by the graphics card driver. It is recommended to enter Safe Mode, and you can refer to this article for instructions on how to enter Safe Mode: How to enter Safe Mode when unable to enter the system.Once in Safe Mode, reinstall the graphics card driver. You can refer to this article to learn How to search for and download drivers.If the above steps do not resolve your issue, please contact your local ASUS customer service center for technical support. Above information might be partly or entirely quoted from exterior websites or sources. please refer to the information based on the source that we noted. Please directly contact or inquire the sources if there is any further question and note that ASUS is neither relevant nor responsible for its content/serviceThis information may not suitable for all the products from the same category/series. Some of the screen shots and operations could be different from the software versions.ASUS provides the above information for reference only. If you have any questions about the content, please contact the above product vendor directly. Please note that ASUS is not responsible for the content or service provided by the above product vendor.Brand and product names mentioned are trademarks of their respective companies. ASUS estore price starting at 2,599.99 2,599.99The lowest price from 30 days before the promotion: Last Update : 2024/05/30 14:03 Related Topics [Windows 11/10] How to Enter the BIOS Configuration Screen Applicable Products: Notebook, Desktop, All-in-One PC, Gaming Handheld, MiniPCThis article elucidates two distinct approaches for accessing the BIOS configuration interface, allowing you to opt for the most appropriate procedure tailored to your requirements:Method 1: Entering BIOS Configuration within the Windows Desktop EnvironmentNote: Should your device be incapable of initiating the Windows operating system, please consult Method 2: Accessing BIOS Configuration Before Booting the Operating System.Note: For those utilizing a 2-in-1 laptop (convertible, such as the Transformer Book), ensure the keyboard is connected prior to executing the following steps.Please go to the correspondinginstruction based on the current Windows operating system on your device:Windows 11 operating systemTo provide you more detailed instruction, you can also click ASUS YouTube video link below to know more about How to enter the BIOS configuration:Https://www.youtube.com/watch?v=11wlU-p0jmkType and search [Change advanced startup options] in the Windows search bar, then click [Open].In the Advanced startup filed, click [Restart now].Windows will restart your device, please be sure to save your work, and then select [Restart now].Upon reboot, when the following screen appears, select [Troubleshoot].Select [Advanced options].Select [UEFI Firmware Settings].Click [Restart], your device will enter the BIOS configuration after the restart.Upon entering the BIOS configuration screen, you will encounter three types of interfaces: UEFI interface, Legacy interface, and MyASUS in UEFI.Note: The BIOS configuration interface may vary slightly depending on the model.UEFI interfaceLegacy interfaceMyASUS in UEFIWindows 10 operating systemTo provide you more detailed instruction, you can also click ASUS YouTube video link below to know more about How to enter the BIOS configuration:Https://www.youtube.com/watch?v=HQXFd0CN4s8Type and search [Change advanced startup options] in the Windows search bar, then click [Open].In the Advanced startup filed, click [Restart now]. Windows will restart your device, if you have unsaved work, please be sure to save it before continuing.Upon reboot, when the following screen appears, select [Troubleshoot].Select [Advanced options].Select [UEFI Firmware Settings].Click [Restart], your device will enter the BIOS configuration after the restart.Upon entering the BIOS configuration screen, you will encounter three types of interfaces: UEFI interface, Legacy interface, and MyASUS in UEFI.Note: The BIOS configuration interface may vary slightly depending on the model.UEFI interfaceLegacy interfaceMyASUS in UEFIMethod 2: Accessing BIOS Configuration Before Booting the Operating SystemTo provide you more detailed instruction, you can also click ASUS YouTube video link below to know more about How to enter the BIOS configuration:Https://www.youtube.com/watch?v=NbnPWhI4xisWhen the device is completely shut down, persistently hold the [F2] key on the keyboard and simultaneously press the [Power button] to boot up. Once the BIOS configuration screen appears, you may release the [F2] key. You may consult this video for a visual guide on How to enter the BIOS configuration.Note: For some older desktop models, you may need to press and hold the [Del] key during startup to access the BIOS configuration screen.Note: For gaming handhelds, press and hold the [Volume Down] button and then press the power button.Upon entering the BIOS configuration screen, you will encounter three types of interfaces: UEFI interface, Legacy interface, and MyASUS in UEFI.Note: The BIOS configuration interface may vary slightly depending on the model.UEFI interfaceLegacy interfaceMyASUS in UEFI Above information might be partly or entirely quoted from exterior websites or sources. please refer to the information based on the source that we noted. Please directly contact or inquire the sources if there is any further question and note that ASUS is neither relevant nor responsible for its content/serviceThis information may not suitable for all the products from the same category/series. Some of the screen shots and operations could be different from the software versions.ASUS provides the above information for reference only. If you have any questions about the content, please contact the above product vendor directly. Please note that ASUS is not responsible for the content or service provided by the above product vendor.Brand and product names mentioned are trademarks of their respective companies. Disclaimer The standard Asus test environment for battery life is as follows: Windows operating system, display module with 150 nits of brightness, lighting off, and other application settings. Video Playback: Testing is done with Wi-Fi/Bluetooth off, Windows Power Plan set to Balanced, Taskbar Power Mode set to Battery Saver, system volume at 67%, and video at full screen, 1080p resolution Web Browsing: Testing is done with Wi-Fi/Bluetooth, Windows Power Plan set to Balanced, Taskbar Power Mode set to Better Battery, and using the Weblooper Top50 website in Google Chrome to play the video with a refresh time of 10 seconds. Factors that affect battery life include laptop configuration, power settings, and the way it is used. Battery capacity fades with its cycle count and age. Quick-charging times apply when using the proper ASUS/ROG adapter included alongside the select model and the system is powered off (via the "shut down" command). In compatible scenarios, batteries can be recharged to 50% within 30 minutes under the optimal temperature range of 20-45 degrees Celsius. Charging times may vary +/- 10% due to system tolerance. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. The actual HDMI version of the products should be checked in the product specifications page respectively. Unit with RJ45 port does not support Power over Ethernet (PoE), only support data transmission. Due to surface-mounted components near the motherboard's M.2 slot, only single-sided SSDs are supported. The availability of the 6GHz Wi-Fi band may vary depending on the country and its specific regulations. This feature is only supported when used with the specific wireless card provided at shipment, and requires Windows 11 or later. Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products. All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets. Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details. PCB color and bundled software versions are subject to change without notice. Brand and product names mentioned are trademarks of their respective companies. Unless otherwise stated, all performance claims are based on theoretical performance. Actual figures may vary in real-world situations. The actual transfer speed of USB 3.0, 3.1, 3.2, and/or Type-C will vary depending on many factors including the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment. ASUS estore price starting at $2,099.99 $2,099.99The lowest price from 30 days before the promotion: Skip to main content Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. Skip to main content Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. Last Update : 2025/06/18 14:13 How to update BIOS in Windows Applicable Products: Notebook, Desktop, All-in-One PC, Gaming Handheld, MiniPCThis article will guide you on how to update the BIOS in the Windows operating system. Based on the processor architecture of your device (x86/x64 or ARM), it provides corresponding operating methods and detailed steps to assist you in completing the BIOS upgrade through MyASUS or the ASUS official website.Note: After updating the BIOS, you may be prompted to enter the BitLocker recovery key to unlock and access the operating system. For detailed steps, please refer to this article: How to Find the BitLocker Key. You can also disable Device Encryption and Standard BitLocker Encryption before updating the BIOS, and then re-enable encryption after the BIOS update to protect your data security. For detailed steps, please refer to this article: Introduction to Device Encryption and Standard BitLocker Encryption.Note: The following update method is exclusively applicable to devices with x86/x64 architecture. For devices with ARM architecture (such as the Qualcomm CPU platform), please Click Here to learn How to update the BIOS for ARM-based devices.Note: How to determine the architecture of your deviceNavigate to Windows Settings > System > About. Here, you can view the architecture of your device under System type. (The image on the left shows an x64 architecture; the image on the right shows an ARM architecture.)To provide you more detailed instruction, you can also click ASUS YouTube video link below to know more about How to Update BIOS in Windows. can download and update the BIOS from MyASUS or the official ASUS website. Please refer to the following steps for each method:Note: If you encounter any issues during the BIOS update process, please contact ASUS service center.Method 1: Update BIOS via MyASUSType and search [MyASUS] in the Windows search bar, then click [Open].(The left-side search illustration below is in Windows 11, and the right-side is Windows 10.)Note: If there is no result searched, it means your device may not install it, and please refer to How to install MyASUS.In the MyASUS window, click [System Update].Note: If your device does not display the System Update tab, it means your device does not support this feature. You can use Method 2: Download and update BIOS via the ASUS support site. Learn more about Why can I only see the partial features in the MyASUS app.When entering the System Update page, MyASUS will automatically check and list the items that need updating for your system.Note: If no update items are displayed on this page, it means your system is already up to date.Select [BIOS Update for Windows or BIOS Installer for Windows], then click [Update Selected Items].Note: If you do not see BIOS Update for Windows or BIOS Installer for Windows, since some models may not support updating BIOS in Windows, please refer to How to use EZ Flash to update BIOS.Review the BIOS update details, then click [Confirm] to start downloading the BIOS file.MyASUS will begin downloading the BIOS file.After the BIOS file download is complete, click [Restart] to initiate the BIOS update.The device will restart and enter the BIOS update screen. Please refer to your BIOS interface for the subsequent steps:Note: The BIOS update screen below may vary slightly depending on the model.UEFI interfaceClick [Yes] to begin the BIOS update.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.The device is now performing the BIOS update. Please wait patiently for the BIOS update to complete.Once the following screen appears, it indicates that your device has completed the BIOS update. Click [Ok], and the device will restart into the Windows operating system.MyASUS in UEFIClick [Confirm] to begin the BIOS update.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.The device is now performing the BIOS update. Please wait patiently for the BIOS update to complete.Once the following screen appears, it indicates that your device has completed the BIOS update. Click [Confirm], and the device will restart into the Windows operating system.2025 UXWhen the following screen appears, it indicates that the BIOS is being updated.Note: Your device may receive a system notification that automatically initiates the BIOS update and displays the screen below, eliminating the need to perform the previous steps manually. During the BIOS update process, please ensure that the device is connected to a power source and do not force a shutdown to avoid any potential issues.Note: If the following prompt appears, the device must have a battery level above 20% and be connected to a power source in order to proceed with the BIOS update. Once the battery level exceeds 20% while connected to the charger, the BIOS update will begin automatically.The device is currently updating the BIOS. Please wait patiently until the update is complete.When the following screen appears, it indicates that the BIOS update has been successfully completed. The device will restart several times and then boot into the Windows operating system.Method 2: Download and update BIOS via the ASUS support siteGo to the ASUS support site with your device's model name, here you can learn more about How to search and download BIOS.Note: To download the corresponding BIOS file, please refer to How to check the model name.In the support page, please search for [BIOS Update for WindowsorBIOS Installer for Windows] which is located in the BIOS Update(Windows) category. If you are able to see the file, please click [Download].Note: If you do not see BIOS Update for Windows or BIOS Installer for Windows, since some models may not support updating BIOS in Windows, please refer toHow to use EZ Flash to update BIOS.After downloading the BIOS Update for Windows file, double-click the BIOS Update application to start updating BIOS.If the type of the downloaded file is Compressed (Zipped), please right-click the file > select Extract All.The setup wizard will guide you to start the BIOS update process, click [Next].Please read the License Agreement, and check the box to [I accept the agreement] and then select [Next].Follow the indicator to process the BIOS update installation.Select [Yes, restart the computer now], then click [Finish]. The device will restart and enter the BIOS update screen.Note: Before restarting the device, please ensure to save your work to prevent any data loss.The device will restart and enter the BIOS update screen. Please refer to your BIOS interface for the subsequent steps:Note: The BIOS update screen below may vary slightly depending on the model.UEFI interfaceClick [Yes] to begin the BIOS update.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.The device is now performing the BIOS update. Please wait patiently for the BIOS update to complete.Once the following screen appears, it indicates that your device has completed the BIOS update. Click [Ok], and the device will restart into the Windows operating system.MyASUS in UEFIClick [Confirm] to begin the BIOS update.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.The device is now performing the BIOS update. Please wait patiently for the BIOS update to complete.Once the following screen appears, it indicates that your device has completed the BIOS update. Click [Confirm], and the device will restart into the Windows operating system.2025 UXWhen the following screen appears, it indicates that the BIOS is being updated.Note: Your device may receive a system notification that automatically initiates the BIOS update and displays the screen below, eliminating the need to perform the previous steps manually. During the BIOS update process, please ensure that the device is connected to a power source and do not force a shutdown to avoid any potential issues.Note: If the following prompt appears, the device must have a battery level above 20% and be connected to a power source in order to proceed with the BIOS update. Once the battery level exceeds 20% while connected to the charger, the BIOS update will begin automatically.The device is currently updating the BIOS. Please wait patiently until the update is complete.When the following screen appears, it indicates that the BIOS update has been successfully completed. The device will restart several times and then boot into the Windows operating system.Method 3: Update BIOS via Windows UpdateThe Windows operating system provides a convenient update mechanism through Windows Update, enabling users to easily access the latest features, patches, and security updates. You can refer to this article to learn How to update the BIOS using Windows Update. Above information might be partly or entirely quoted from exterior websites or sources. please refer to the information based on the source that we noted. Please directly contact or inquire the sources if there is any further question and note that ASUS is neither relevant nor responsible for its content/serviceThis information may not suitable for all the products from the same category/series. Some of the screen shots and operations could be different from the software versions.ASUS provides the above information for reference only. If you have any questions about the content, please contact the above product vendor directly. Please note that ASUS is not responsible for the content or service provided by the above product vendor.Brand and product names mentioned are trademarks of their respective companies. Last Update : 2025/06/18 18:44 How to Update BIOS with ASUS Firmware Update/EZ Flash Applicable Products: Notebook, All-in-One PC, Gaming Handheld, MiniPCThere are two methods to update BIOS:Since some models are not able to update BIOS in Windows, this article will introduce how to update BIOS in BIOS Utility.Note:It is not allowed to downgrade the BIOS version.Please back up your personal file before upgrading BIOS to prevent any unexpected issue.After updating the BIOS, you may be prompted to enter the BitLocker recovery key to unlock and access the operating system. For detailed steps, please refer to this article: How to Find the BitLocker Key.You can also disable Device Encryption and Standard BitLocker Encryption before updating the BIOS, and then re-enable encryption after the BIOS update to protect your data security. For detailed steps, please refer to this article: Introduction to Device Encryption and Standard BitLocker Encryption.The operation interface may be different because of the model version.Please keep the power supply / AC adapter connected during the BIOS update process.If you have any issue about the content below, please consult with ASUS Service Center.To provide you more detailed instruction, you can also click ASUS YouTube video link below to know more about How to update BIOS with ASUS Firmware Update/EZ Flash: follow the steps below to learn how to update the BIOS using ASUS Firmware Update/EZ Flash:Step 1. Download the BIOS file from ASUS support siteStep 2. Save BIOS file to portable storage device and start updatingBefore starting to use ASUS Firmware Update/EZ Flash to update BIOS, please extract the downloaded BIOS file, and then copy the extracted file to a portable storage device (USB flash drive or external hard drive).Note: The USB flash drive format must be FAT32 so that you are able to update BIOS in the BIOS utility.Here you can learn more about How to convert the USB flash drive format to FAT32.After downloading the BIOS file, right-click the file and then select [Extract All].Select a Destination and then click [Extract].After the extraction is completed, please go to the folder and connect the portable storage device to your ASUS device. Right-click theBIOS file, then select [Show more options].Select[Send to], then select[Your portable device].The preparation is finished, please access the BIOS setup screen on the device.When the device is not powered on, press and hold the [F2] key on the keyboard, then press the power button to turn on the device. Keep holding the [F2] key until the BIOS setup screen appears, then release the [F2] key. Learn more about How to enter the BIOS setup screen.Note: Gaming handhelds need to press and hold the volume (-) key, then press the power button to turn on the device.Upon entering the BIOS setup screen, you will encounter three types of interfaces: UEFI interface, legacy interface, and MyASUS in UEFI. Please refer to the following steps based on the BIOS screen of your device:How to update BIOS in the UEFI modeIn the UEFI interface, you can navigate and confirm using the Arrow Keys and Enter key on the keyboard, Touchpad, or Mouse.Note: The BIOS update screen below may vary slightly depending on the model.After entering the BIOS Utility, go to the Advanced Mode by pressing Hotkey[F7] or use cursor to click.After entering the Advanced Mode, select [Advanced] screen.Select [ASUS Firmware Update] item.Note: Some models are displayed as the [ASUS EZ Flash 3 Utility] item.Select the storage device where the BIOS file located, then click the BIOS file.The BIOS file naming convention for ASUS devices follows the format of 'Model'AS.'BIOS Version', as illustrated by the example B9450FAAS.302, where the model is B9450FA and the BIOS version is 302.Note: Ensure that the device maintains a battery level of 20% or higher and is connected to a power source before proceeding with the BIOS update.When prompted to confirm whether you wish to proceed with the update, please click on [Yes].Verify whether the BIOS file information for updating is correct, then click on [Yes].The device is currently performing a BIOS update. Please wait patiently for the BIOS update to complete. Once the update is finished, the device will automatically restart and boot into the Windows operating system.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.How to update BIOS in the Legacy modeIn the Legacy mode, you can only select and choose item via Arrow Keys and Enter of keyboard.Note: The BIOS update screen below may vary slightly depending on the model.After entering the BIOS Utility, select [Advanced] screen.Select [ASUS EZ Flash 3 Utility] item and press Enter.Select the storage device where the BIOS file located, then select the BIOS file.The BIOS file naming convention for ASUS devices follows the format of 'Model'AS.'BIOS Version', as illustrated by the example UX32LNAS.203, where the model is UX32LN and the BIOS version is 203.Note: Ensure that the device maintains a battery level of 20% or higher and is connected to a power source before proceeding with the BIOS update.Select [Yes] and press Enter to confirm and update BIOS.The device is currently performing a BIOS update. Please wait patiently for the BIOS update to complete. Once the update is finished, the device will automatically restart and boot into the Windows operating system.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues.How to update BIOS in the MyASUS in UEFI modeIn the MyASUS in UEFI interface, you can navigate and confirm using the Arrow Keys and Enter key on the keyboard, Touchpad, or Mouse.Note: The BIOS update screen below may vary slightly depending on the model.After entering the BIOS Utility, go to the Advanced Settings by pressing Hotkey[F7] or use cursor to click.After entering the Advanced Settings, select [Advanced] screen, and then select [ASUS Firmware Update] item.Select the storage device where the BIOS file located, then click the BIOS file.The BIOS file naming convention for ASUS devices follows the format of 'Model'AS.'BIOS Version', as illustrated by the example X1505ZAAS.310, where the model is X1505ZA and the BIOS version is 310.Note: Ensure that the device maintains a battery level of 20% or higher and is connected to a power source before proceeding with the BIOS update.When prompted to confirm whether you wish to proceed with the update, please click on [Confirm].Verify whether the BIOS file information for updating is correct, then click on [Confirm].The device is currently performing a BIOS update. Please wait patiently for the BIOS update to complete. Once the update is finished, the device will automatically restart and boot into the Windows operating system.Note: Ensure that the device is connected to power and do not force shutdown during the BIOS update to prevent any abnormal issues. Above information might be partly or entirely quoted from exterior websites or sources. please refer to the information based on the source that we noted. Please directly contact or inquire the sources if there is any further question and note that ASUS is neither relevant nor responsible for its content/serviceThis information may not suitable for all the products from the same category/series. Some of the screen shots and operations could be different from the software versions.ASUS provides the above information for reference only. If you have any questions about the content, please contact the above product vendor directly. 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