X99 II Series
Feature Manual

Motherboard

E11551
First Edition
May 2016

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Contents

Conventions used in this guide

To ensure that you perform certain tasks properly, take note of the following symbols used throughout this manual.

DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Instructions that you MUST follow to complete a task.

NOTE: Tips and additional information to help you complete a task.

About this guide

This feature manual describes the software of the support DVD that comes with the motherboard package. Most of the applications in the support DVD have wizards that will conveniently guide you through the installation. View the online help or readme file that came with the software application for more information.

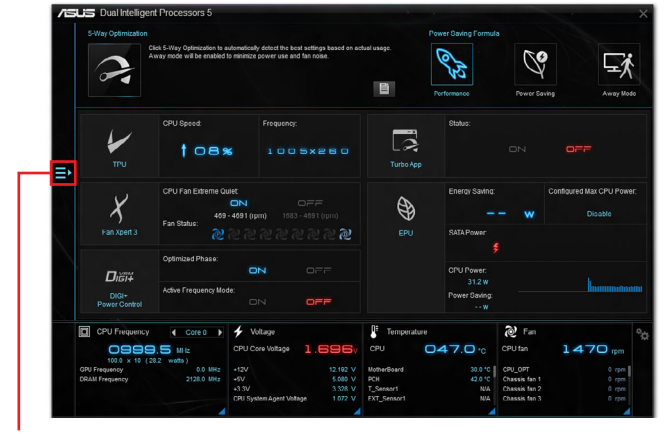
- Supported features may vary depending on the motherboard model.
- Motherboard settings and hardware options vary. Use the setup procedures presented in this feature manual for reference only.
- The contents of the support DVD are subject to change at any time without notice. Visit www.asus.com for updates.

AI Suite 3 Main menu

The AI Suite 3 main menu gives you easy-access controls and insight to what's going on with your computer - allowing you to optimize performance settings while at the same time ensuring system stability.

The AI Suite main menu includes is a quick-access menu bar that allows you to swiftly launch any of the integrated ASUS utilities. Click on the left of the menu to launch the menu bar.

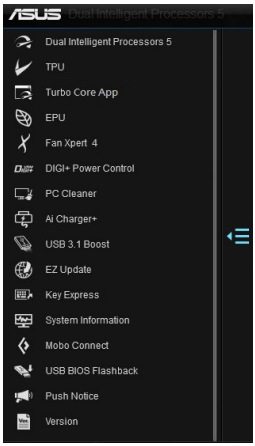
The AI Suite 3 screenshots in this section are for reference only and can vary depending on motherboard model.



Click to launch AI Suite 3 menu bar

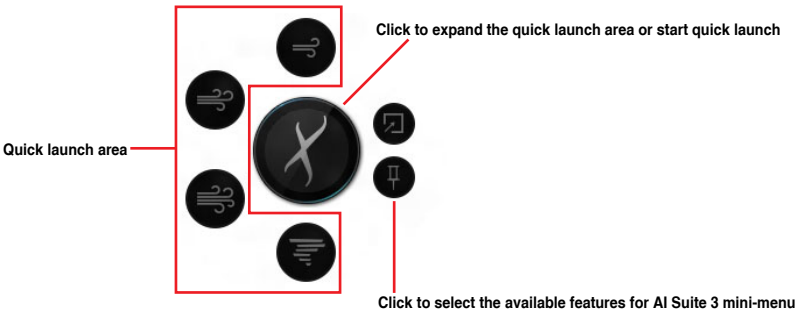
- Some functions in the AI Suite 3 main menu in this feature manual may vary depending on the motherboard model.
- Refer to the software manual in the support DVD or visit the ASUS website at www.asus.com for detailed software configuration.

AI Suite 3 main menu bar



AI Suite 3 mini-menu

The AI Suite 3 mini-menu appears on the desktop and can be conveniently accessed and moved around. The AI Suite 3 mini-menu allows you to quickly access the important items in the AI Suite 3.



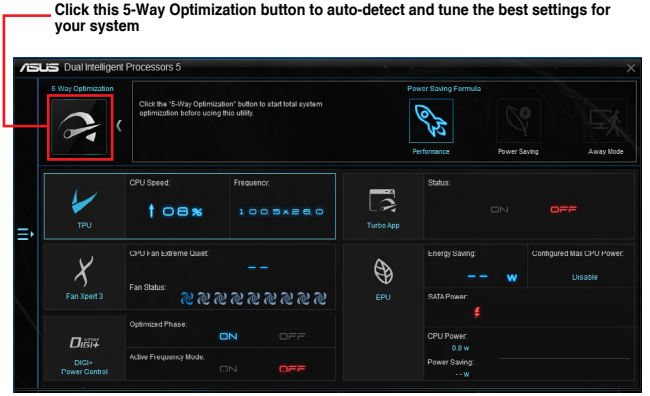
Dual Intelligent Processors 5

ASUS Dual Intelligent Processors 5 combines TPU, EPU, DIGI+ Power Control, Fan Xpert 4, and Turbo Core App functions to push the system's performance to its optimal potential. It automatically balances the system's performance, power saving, levels, and fan settings via the user-friendly AI Suite 3 utility.

5-Way Optimization

The 5-Way Optimization function dynamically optimizes your PC based on real-time usage to provide the best system status. It covers the essential areas such as CPU performance, energy saving, stable digital power, cool and quiet fan control, and includes tailored settings for your apps to ensure your PC is ready for gaming, entertainment, productivity, or just about anything.

5-Way Optimization screen



DO NOT remove your fan during the tuning process.

TPU (Turbo Processing Unit)

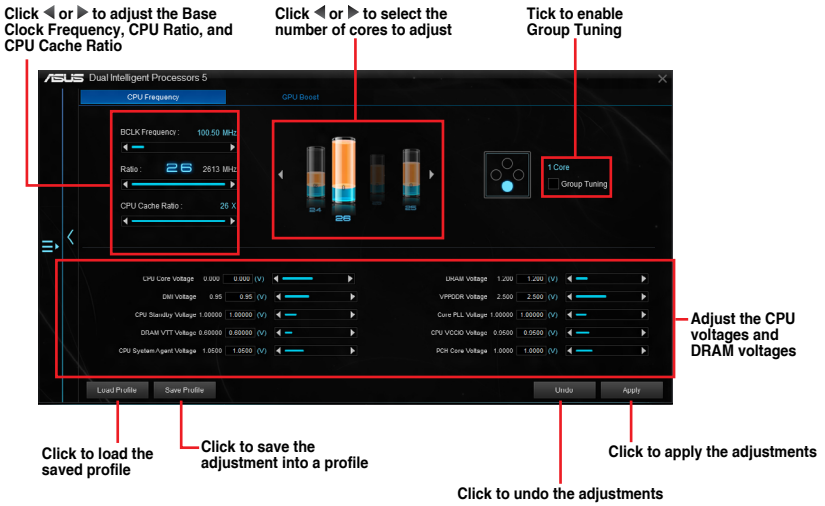
TPU allows you to manually adjust the CPU frequency, CPU cache, core frequencies, DRAM frequency, and related voltages for an enhanced system stability and a performance boost.

Refer to the CPU documentation before adjusting CPU voltage settings. Setting a high voltage may damage the CPU permanently, and setting a low voltage may lead to an unstable system.

For system stability, the TPU settings are not saved in the BIOS and are not loaded during system bootup. Save your overclocking settings as a TPU profile and manually load this profile after system bootup.

Using TPU

CPU Frequency

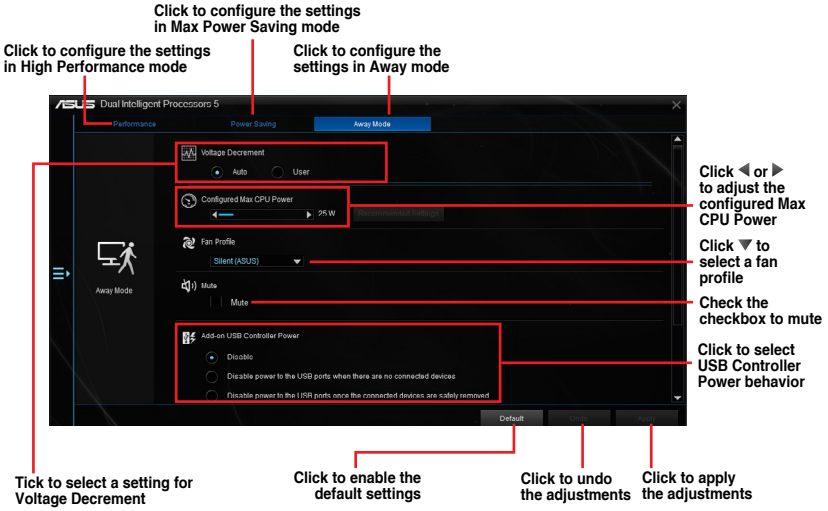


- Set the CPU Core Ratio item in BIOS to **[Auto]** before using the CPU Frequency in TPU. Refer to section **Ai Tweaker menu** in the BIOS chapter of your motherboard user manual for details.
- The CPU Frequency bars show the status of the CPU cores, which vary with your CPU model.

EPU (Energy Processing Unit)

EPU is a real-time system power-saving chip that automatically detects the current system load and intelligently moderates power usage. It offers a total system-wide energy optimization, reduces fan noise, and extends the lifespan of your hardware components.

Using EPU



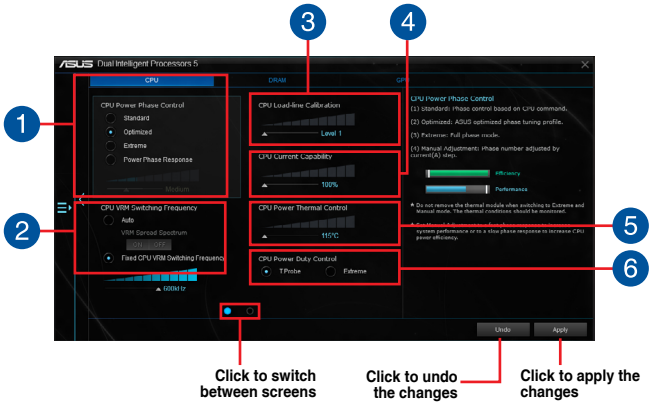
- When you enable Configured Max CPU Power for advanced energy saving condition, the CPU frequency may display 800 MHz in the Windows® OS information of your computer. However, the true CPU frequency varies depending on the wattage that you manually set. You can adjust the CPU wattage from the lowest base on your preferred default value.
- Configured Max CPU Power may decrease the total power delivery to the CPU and affects the CPU performance under system heavy load. To restore your system to its default settings, reboot your computer.

DIGI+ Power Control

ASUS DIGI+ Power Control features the revolutionary and innovative digital VRM and DRAM Voltage controllers. These controllers offers ultra-precise memory and voltage tuning for optimal system efficiency, stability and performance.

The following screens are for reference only. Configuration options varies depending on the motherboard model.

Adjusting the CPU Power



1 **CPU Power Phase Control**
Increase the phase number under a heavy system load to get more transient and better thermal performance. Reduce the phase number under a light system load to increase the VRM efficiency.

2 **CPU VRM Switching Frequency**
Enables spread spectrum to enhance system stability.

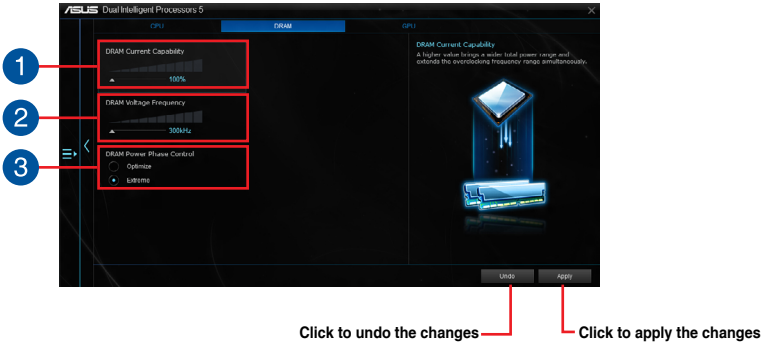
3 **CPU Load-line Calibration**
It allows you to adjust the voltage range to control the CPU Load-line. Adjust to a high value for system performance or to a low value for power efficiency.

4 **CPU Current Capability**
CPU Current Capability provides a wider total power range for overclocking. A higher value brings a wider total power range and extends the overclocking frequency range simultaneously.

5 **CPU Power Thermal Control**
A higher temperature brings a wider CPU power thermal range and extends the overclocking tolerance to enlarge the overclocking potential.

6 **CPU Power Duty Control**
CPU Power Duty Control adjusts the current of every VRM phase and the thermal conditions of every phase component.

Adjusting the DRAM Power



1 DRAM Voltage Frequency
Allows you to adjust the DRAM switching frequency to stabilize the system or to increase the overclocking range.

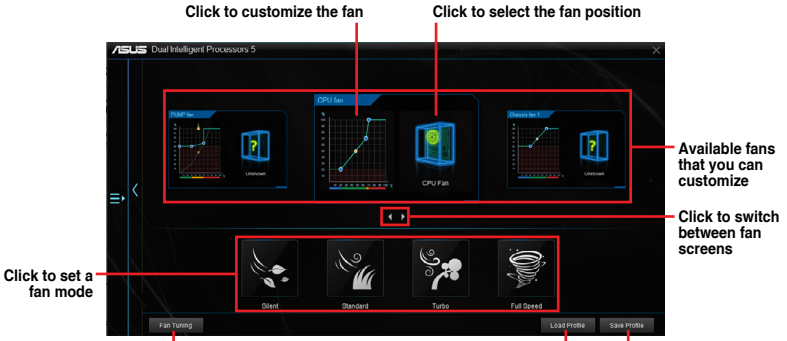
2 DRAM Current Capability
A higher value brings a wider total power range and extends the overclocking frequency range simultaneously.

3 DRAM Power Phase Control
Select **Extreme** for full phase mode to increase system performance or select **Optimized** for ASUS optimized phase tuning profile to increase the DRAM power efficiency.

- The actual performance boost may vary depending on your CPU specification.
- Ensure that the cooling modules are properly installed in your motherboard to monitor the thermal conditions.

Fan Xpert 4

ASUS Fan Xpert 4 provides customizable settings of your fans for a cooler and quieter computing environment. With its fan Auto Tuning feature, ASUS Fan Xpert 4 automatically tweaks the settings of CPU and chassis fans to achieve their best cooling performance. ASUS Fan Xpert 4 also supports hardware level PWM/DC combo mode for the CPU, chassis fans, and fans connected to the fan extension card. You can also reduce the CPU fan speed below the default minimum for a noiseless operation during light loads.

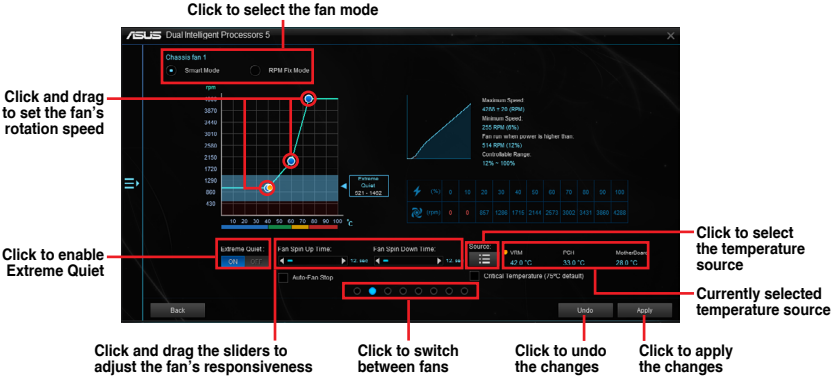


DO NOT remove your fan during the Fan Auto Tuning process.

Customizing the fan settings

Smart Mode

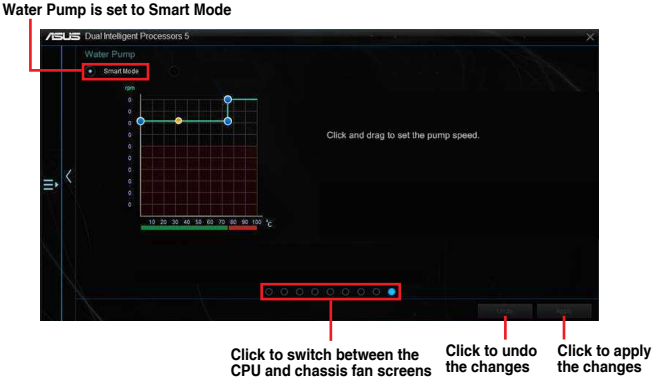
Smart Mode allows you to customize the fans' rotation speeds and responsiveness based on your system's temperature.



RPM Mode

RPM Mode allows you to set the fan speed when the CPU temperature is below 75ºC.

- When the CPU temperature reaches 75ºC, the fan will automatically run at full speed to protect the CPU.
- The Fan Xpert 4 may not be able to detect the fan speed if your fan is installed with an external control kit for rotation speed.
- Fan Xpert 4 does not support 2-pin fans. If you install a 2-pin fan, it can only run at its full speed.
- If the CPU or chassis fans have been changed, the Fan Tuning process should be repeated.

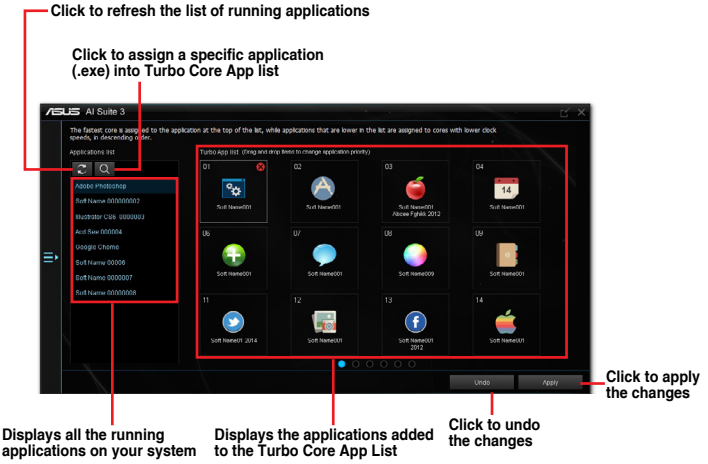


The water pump header does not support the **Fan Tuning** function to prevent the water pump from not working due to different water pump manufacturers.

Turbo Core App (for Broadwell-E CPUs)

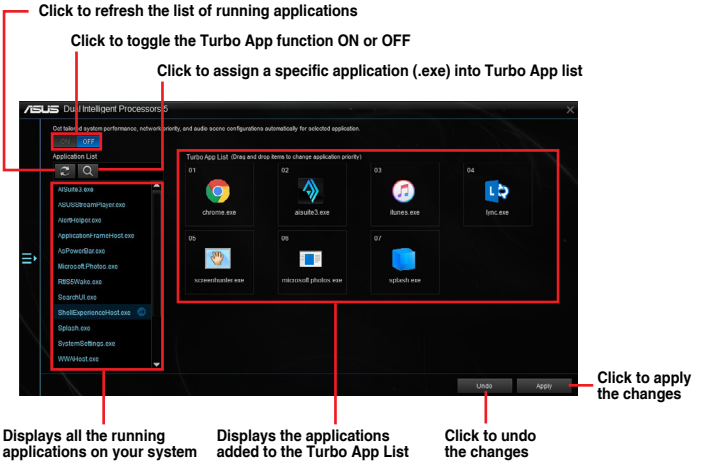
Turbo Core App allows you customize the system performance of an application. When an application is on the Turbo Core App List, you can drag and drop the application to change the priority to allocate the CPU frequency.

Turbo Core App will automatically determine the CPU cores with the best performance, and then allocate the best cores to the applications in the Turbo Core App list based on the application priority.



Turbo App

Turbo App allows you customize the system performance, network priority, and audio setting of an application. When an application is on the Turbo App List, you can you can drag and drop the application to change the priority to allocate the CPU frequency, network priority, and define the audio setting of the selected application.



Ai Charger+

Ai Charger+ allows you to fast-charge your portable BC 1.1* mobile devices on your computer's USB port three times faster than the standard USB devices**.

Launching Ai Charger+

To launch Ai Charger+, click on the left of the AI Suite 3 main menu, then select **Ai Charger+**.

Ai Charger+ is available on selected motherboard models.

Ai Charger+ screen

- * Check the manufacturer if your USB device is a Battery Charging Specification 1.1 (BC 1.1) compliant or compatible device.
- ** Actual charging speeds may vary depending on the charging rate and specifications of your USB device.
- To ensure normal charging function, disconnect and reconnect your USB device every time you enable or disable Ai Charger+.
- Ai Charger+ does not support USB hubs, USB extension cables, and generic USB cables.

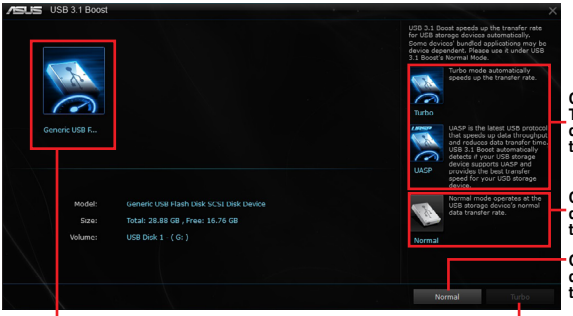
USB 3.1 Boost

USB 3.1 Boost technology supports UASP (USB Attached SCSI Protocol) that automatically speeds up the transfer rates of your USB storage devices.

Launching USB 3.1 Boost

To launch USB 3.1 Boost, click on the left of the AI Suite 3 main menu, then select **USB 3.1 Boost**.

Using the USB 3.1 Boost



Click to enable UASP or Turbo Mode to the USB device for a faster data transfer rate

Click to enable the USB device's normal data transfer rate

Click to enable the USB device's normal data transfer rate

Click to enable UASP or Turbo Mode for a faster data transfer rate

Click to select a USB device

Ensure to connect your USB 3.0 or 3.1 device to the USB ports that support USB 3.1 Boost. Refer to the **Rear I/O connection section** of your motherboard's user guide for more details.

- USB 3.1 Boost automatically detects the USB 3.1/3.0 devices that support UASP.
- The data transfer speed varies with USB devices. For a higher data transfer performance, use a USB 3.1/3.0 device.

EZ Update

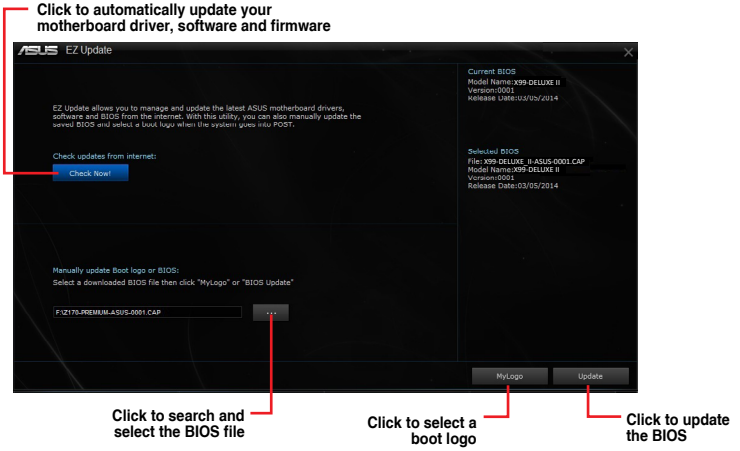
EZ Update is a utility that allows you to automatically update your motherboard's software, drivers and BIOS easily.

With this utlity, you can also manually update the BIOS and select the boot logo that displays during POST.

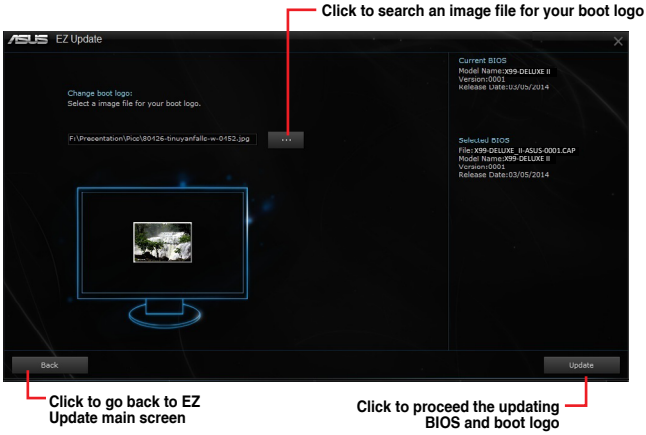
Launching EZ Update

To launch EZ Update, click on the left of the AI Suite 3 main menu, then select **EZ Update**.

Using EZ Update



Manually update the BIOS and selecting a boot logo



After you Click **BIOS Update** button, Click **Flash** to update the BIOS and upload the boot logo in your system.

System Information

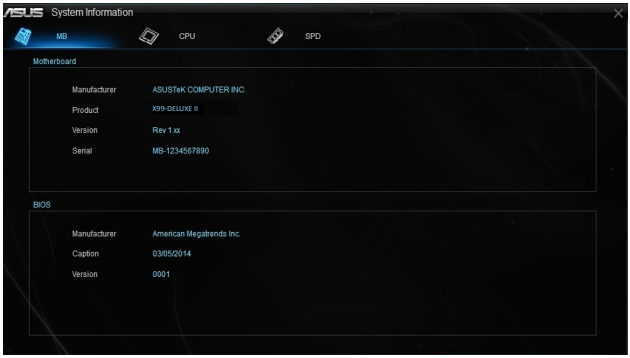
This utility allows you to get the detailed information of the motherboard, CPU, and memory settings.

Launching the System Information

To launch System Information, click on the left of the AI Suite 3 main menu, then select **System Information**.

Viewing the motherboard information

Click the **MB** tab to view the motherboard's information.



Viewing the CPU information

Click the **CPU** tab to view the processor's information.

Viewing the SPD information

Click the **SPD** tab to view the memory's information.

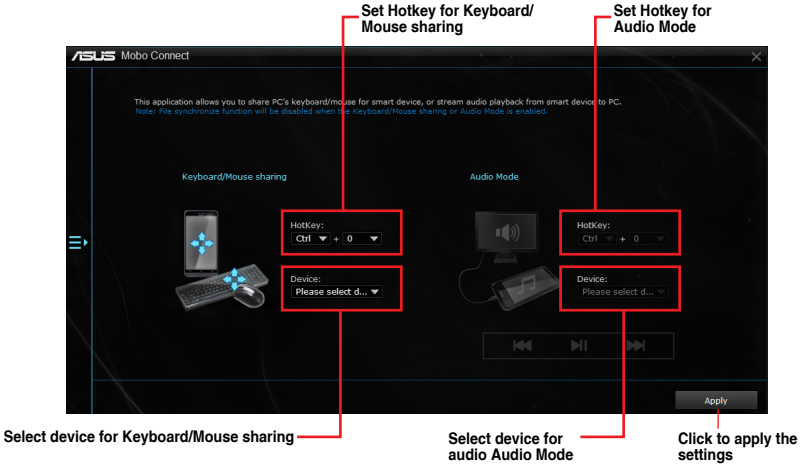
Mobo Connect

Mobo Connect allows you to share the PC's keyboard/mouse for smart devices, or stream audio playback from your smart device to the PC.

Launching Mobo Connect

To launch Mobo Connect, click on the left of the AI Suite 3 main menu, then select **Mobo Connect.**

Mobo Connect screen



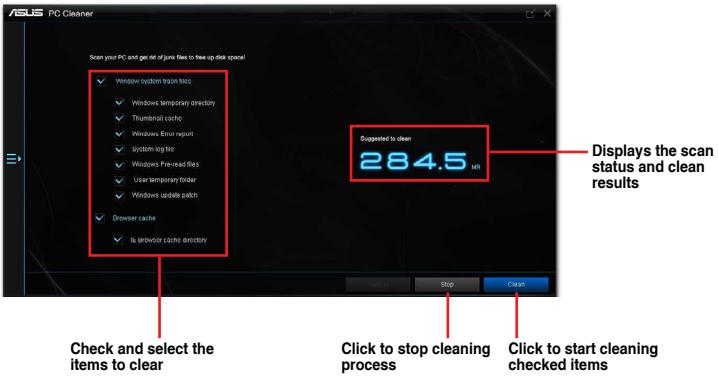
- This feature only supports Android devices.
- Audio mode supports audio playback from your smart device to the PC.

PC Cleaner

PC Cleaner allows you to clean the system junk files by scanning and deleting selected files.

Launching PC Cleaner

To launch PC Cleaner, click on the left of the AI Suite 3 main menu, then select **PC Cleaner**.



USB BIOS Flashback

USB BIOS Flashback allows you to check and save the latest BIOS version to a USB storage device. Use this utility to quickly check for the latest available BIOS and set the BIOS download schedule.

Launching USB BIOS Flashback

To launch USB BIOS Flashback, click on the left of the AI Suite 3 main menu, then select **USB BIOS Flashback**.

USB BIOS Flashback is available only in selected motherboard models.

Using USB BIOS Flashback

Scheduling the BIOS download

1. In the Download Setting field, tick **Schedule (days)** then select the number of days for the BIOS download schedule.
2. Click **Apply** to save the BIOS download schedule. Click **Cancel** to cancel the download schedule.

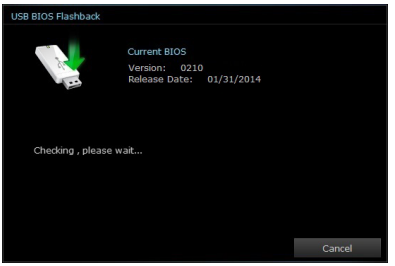
Downloading the latest BIOS

Before you start downloading, ensure that you have installed the USB storage device to your computer's USB port that supports USB BIOS Flashback. Refer to section **Rear I/O connection** of your motherboard's user manual for more details.

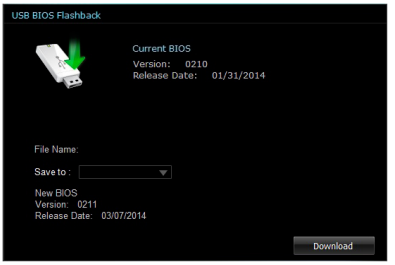
To download the updated BIOS:

1. From the USB BIOS Flashback screen, Click **Check for New BIOS Update**.

   Wait for the system to check the latest BIOS version.



2. After the utility detects a new BIOS, Click from the Save to: field, select the USB flash drive, then Click **Download**.

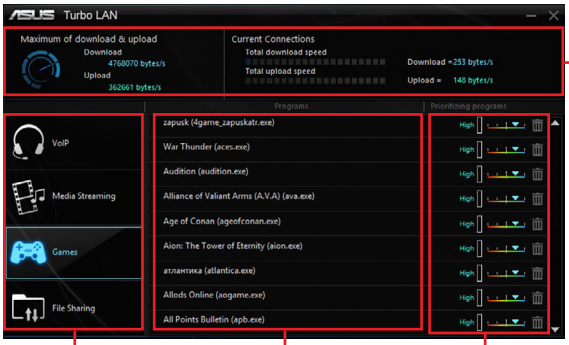


3. After the download is complete, Click **OK**.

Turbo LAN

Turbo LAN is a network management software that features four preset packet prioritized profiles (VoIP, Media Streaming, Games and File Sharing) facilitating different user scenarios. Users can also manually allocate bandwidth and adjust priority settings of each application to run faster and smoother.

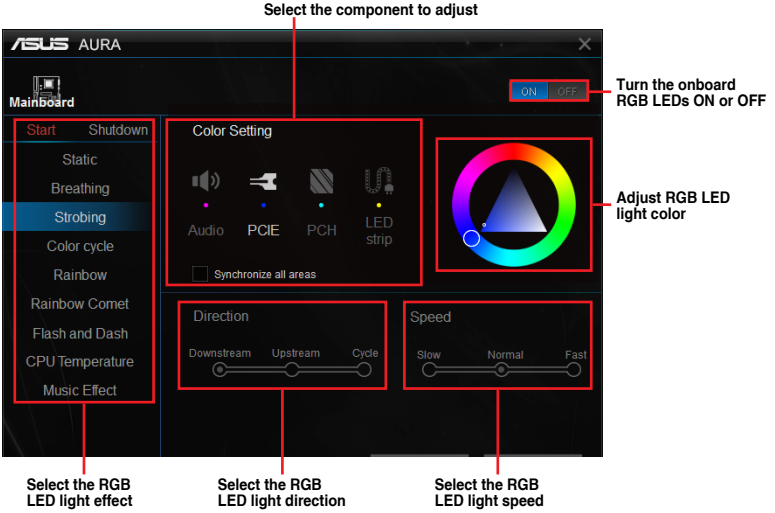
To use Turbo LAN, double click  on the desktop.



Aura

Aura allows you to adjust the onboard RGB LEDs' color and also select different light effects. You can also correct or adjust the RGB LED color by calibrating the LED strip.

To use Aura, double click  on the desktop.

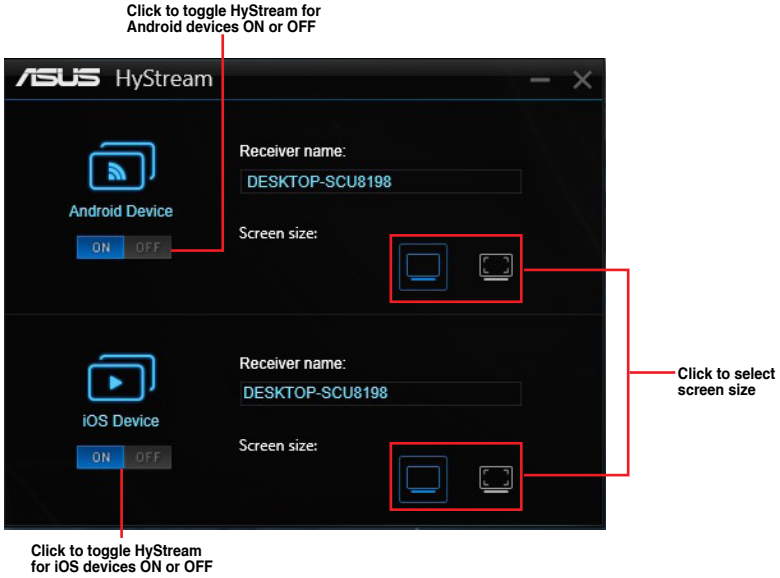


A header calibration pop-up window will appear when you select a header for the first time.

HyStream

HyStream allows you to stream contents on your smart device straight onto your computer's monitor.

To use HyStream, double click  on the desktop.



- This feature may not be compatible on some smart devices.
- Use AirPlay to stream photos and audio files from iOS devices.

Wi-Fi GO! Card

The Wi-Fi GO! card is an easy-to-use wireless LAN adapter that allows you to connect to a wireless LAN in a single network. With the Wi-Fi GO! card, you can also use your system as an access point for other Wi-Fi supported devices.

By default, the Wi-Fi GO! card is already installed on your motherboard. To locate the Wi-Fi GO! card, refer to section **Motherboard rear and audio connections** of your motherboard's user guide.

The Wi-Fi standard of 802.11ac will be restricted by countries' regulations. Wi-Fi 802.11ac feature will be supported under the complete 11ac eco-system environment.

ASUS Wi-Fi GO! card specifications

Bluetooth v4.0 Wi-Fi 802.11 a/b/g/n/ac version

Wi-Fi Standard	IEEE 802.11 a/b/g/n/ac
Bluetooth standard	Bluetooth v4.0
Data rate	**3T3R** 802.11ac(HT80*) up to 1300 Mbps, 802.11n(HT40*) up to 450 Mbps 802.11n(HT20) up to 225 Mbps, 802.11a up to 54 Mbps 802.11b up to 11 Mbps, 802.11g up to 54 Mbps * **When using Wi-Fi Engine in AP mode, the channel bandwidth is limited to HT20, with a maximum data rate of 216.5 Mbps due to Windows® limitation.** **2T2R** 802.11ac(HT80*) up to 867 Mbps, 802.11n(HT40*) up to 300 Mbps 802.11n(HT20) up to 150 Mbps, 802.11a up to 54 Mbps 802.11b up to 11 Mbps, 802.11g up to 54 Mbps * **When using Wi-Fi Engine in AP mode, the channel bandwidth is limited to HT20 with a maximum data rate of 150 Mbps due to Windows® limitation.**
Security	WEP, WPA & WPA2* * **Use WPA2 or open system to reach 65Mbps and above.**
Network architecture types	AP Mode Client mode
Frequency band	2.4GHz & 5GHz ISM radio band
Operating range	**Wi-Fi*:** Outdoor up to 300 meters, Indoor up to 100 meters * **The transmission speed may vary according to the environment** **Bluetooth:** 10 - 20 meters (depends on the environment)

(continued on the next page)

ASUS Wi-Fi GO! card specifications

Antenna	Antenna 1: Wi-Fi Tx/Rx Antenna 2: Wi-Fi Tx/Rx + Bluetooth 1 x ASUS 2T2R dual band Wi-Fi moving antenna (with SMA connector) Antenna3: Wi-Fi- Tx/Rx 1 x ASUS 3T3R dual band Wi-Fi moving antenna (with MMCX connector)
Support OS	32-bit / 64-bit Windows® 7, 32-bit / 64-bit Windows® 8 / 8.1, Windows® 10
ASUS special features	ASUS Wi-Fi Engine ASUS Wi-Fi GO!

*** The specifications are subject to change without notice.**

Installation

System requirements

To use the Wi-Fi GO! card, ensure that your system meets the following requirements:

1. 32-bit / 64-bit Windows® 7, 32-bit / 64-bit Windows® 8 / 8.1, Windows® 10
2. DVD Optical drive
3. ASUS support DVD containing the Wi-Fi GO! card driver
4. ASUS AI Suite 3 utility

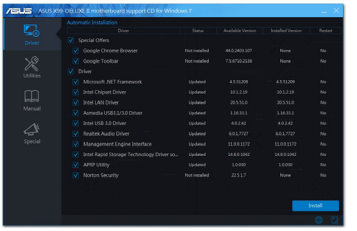
- Ensure to install the bundled Wi-Fi antenna connector to the Wi-Fi GO! card ports.
- To install ASUS AI Suite 3 utility, place the support DVD into the optical drive and follow the onscreen instructions.

Installing Wi-Fi GO! card driver

The contents of the support DVD are subject to change without notice. Visit the ASUS support site at https://www.asus.com/support/ for driver or utilities updates.

To install Wi-Fi GO! card driver:

1. Place the support DVD into the optical drive. If Autorun is enabled in your computer, the DVD automatically displays the installation wizard.
2. Click the **Driver** tab then click **ASUS Bluetooth 4.0 Wi-Fi Driver**.
3. Follow the onscreen instructions to complete the installation.
4. After the installation is completed, restart your computer.



Wi-Fi Engine

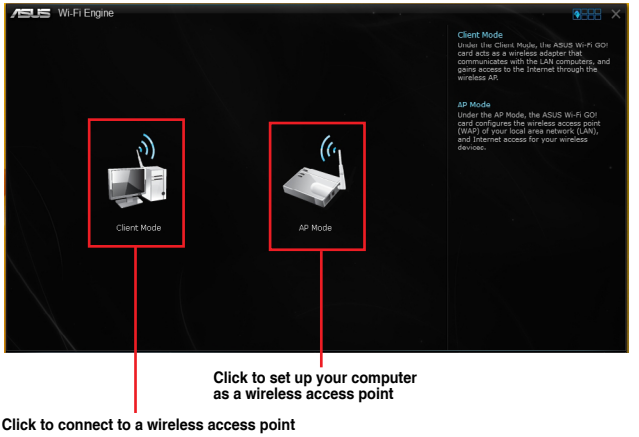
Wi-Fi Engine allows you to connect to a wireless network and set up your computer as an access point for Internet connection sharing among Wi-Fi enabled devices.

Launching Wi-Fi Engine

To launch Wi-Fi Engine, click on the left of the AI Suite 3 main menu, then select **Wi-Fi Engine**.

Wi-Fi Engine is available only on selected motherboard models.

Using Wi-Fi Engine

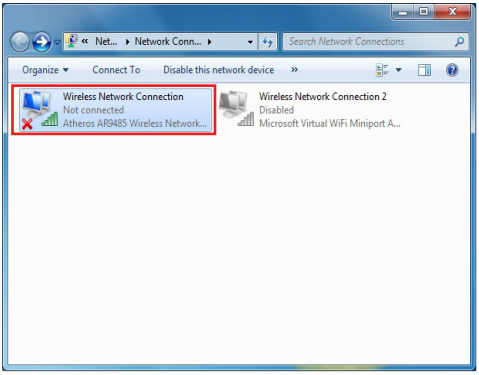


Using the Client Mode

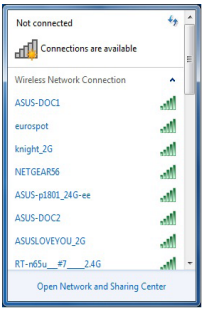
The Client mode allows you to connect your system to a wireless network.

To use the client mode:

1. Click **Client Mode** to launch Network Connections.
2. From the Network Connections window, select a network adapter.



3. From the list of available networks, select a network that you want to connect to.

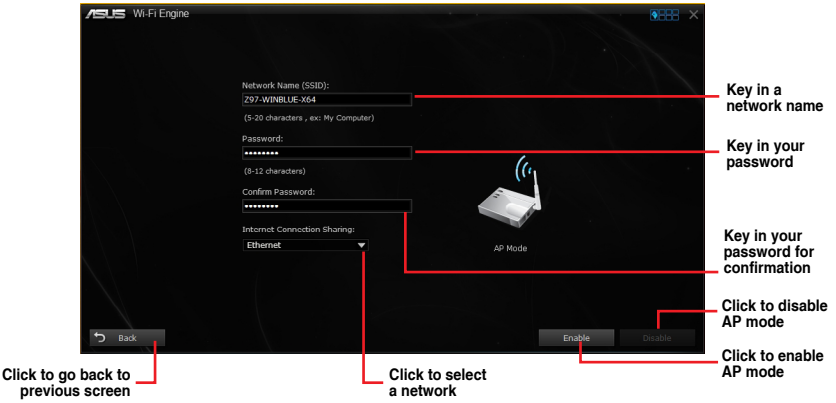


Some networks may require you to key in a password.

Using the AP Mode

The AP mode allows you to set your system as an access point for other wireless-enabled devices.

To use AP mode, click **AP Mode** on the Wi-Fi Engine menu.



- ASUS WiFi Engine supports Windows® 7 (32-bit & 64-bit) and Windows® 8.1 (32-bit & 64-bit).
- In AP mode, the Internet Connection Sharing may depend on the Bluetooth/Internet device's driver support.
- Due to Windows® 8 limitations, it may take several minutes to set up the AP mode for the first time.
- Due to the restriction of Windows OS SoftAP feature, the AP mode only supports 2.4 GHz bandwidth with 802.11n communication standard.

Wi-Fi GO! and Remote GO!

Wi-Fi GO! and Remote GO! are ASUS exclusive utilities that gives you complete control of your PC anytime and anywhere with your smart devices. You can manage all your public clouds or sync and backup files among your PC and devices.

The user interface of your smart device may vary with the operating system and the screen resolution.

System requirements

System requirements	PC	Smart device
OS	Windows® 7/Windows® 8/ Windows® 8.1, Windows® 10	Android 4.0 or higher versions iOS7 or later versions
Utilities	ASUS HomeCloud	ASUS Wi-Fi GO! & NFC Remote

- For Android devices, download the ASUS Wi-Fi GO! & NFC Remote from Google Play. For iOS devices, download it from App Store.
- Install the Wi-Fi GO! card driver and ASUS HomeCloud utility from the support DVD bundled with your ASUS motherboard or visit www.asus.com.
- Ensure to reinstall the Wi-Fi GO! card driver to fully utilize the Wi-Fi GO! functions.

Smart device supported screen resolutions

Wi-Fi GO! & NFC Remote supports the following screen resolutions of smart devices:

Screen type	Low density (120 ldpi)	Medium density (160 mdpi)	High density (240 hdpi)	Extra high density (320 xhdpi)
Screen Resolution	1024 x 600	WXGA (1280 x 800)	1536 x 1152	2048 x 1536
		1024 x 768	1920 x 1152	2560 x 1536
		1280 x 768	1920 x 1200	2560 x 1600

ASUS Account Login

Wi-Fi GO! gives you complete control of your PC anytime and anywhere. Create and login the same ASUS Account on your PC and smart devices for public-to-private network functions.

- Remote Desktop and File Transfer support public-to-private networks feature.
- You can access the ASUS Account tab by clicking from Wi-Fi GO! main page.

Creating an ASUS account

Ensure that you have an internet connection before you create an account.

To create a new ASUS Account:

1. Click **Create a New Account** on your PC or smart device.

   The browser will direct you to the ASUS website (www.asus.com).

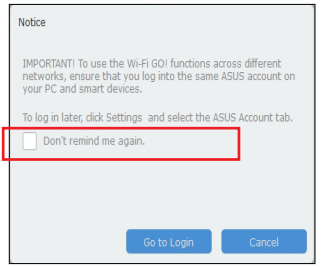
2. From the ASUS website, click **Sign Up** then follow onscreen instructions to complete the registration.

Logging in

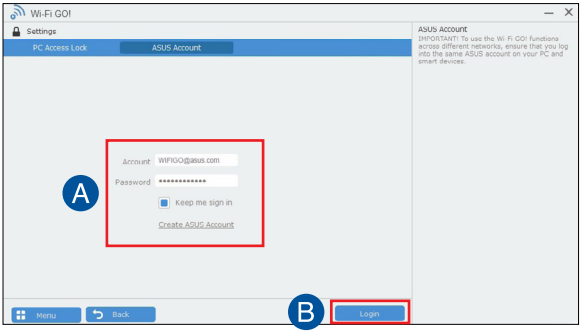
To log-in using your PC:

1. Launch Wi-Fi GO! on your PC.

A login notice is displayed when you launch Wi-Fi GO! for the first time on your PC. To stop this notice from appearing again, tick **Don't remind me again** then click **Go to Login.**

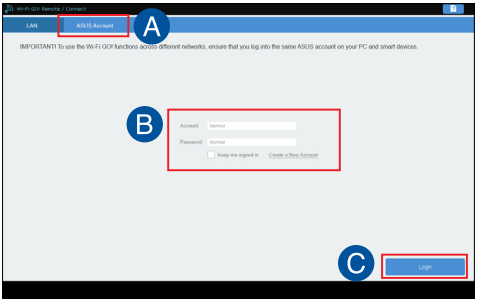


2. From the log-in window, key in your ASUS account and password (A) then click **Login** (B).



To log-in using your smart device:

1. Launch **Wi-Fi GO! & NFC Remote** on you smart device.
2. Tap **ASUS Account (A),** key in your ASUS Account and password, then click Login (C).



- PCs with the same ASUS account logged in will show up in the device list.
- The public-to-private network functions for the iOS system will be available from **Wi-Fi GO! & NFC Remote V2.00.00** or later versions.

Using Wi-Fi GO!

To launch **Wi-Fi GO!**, click the **ASUS HomeCloud** shortcut on your desktop, then select **Wi-Fi GO!** from the mini bar.

To protect your Wi-Fi utility from unauthorized remote access, click then set a password.

Launch Wi-Fi GO! & NFC Remote on your smart device to use the Wi-Fi GO! & NFC remote control functions. For more details, refer to section **Wi-Fi GO! & NFC Remote** of this user manual for more details.

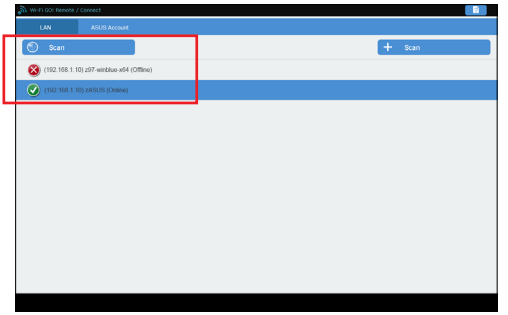
Wi-Fi GO! & NFC Remote (App for smart devices)

Using Wi-Fi GO! & NFC Remote

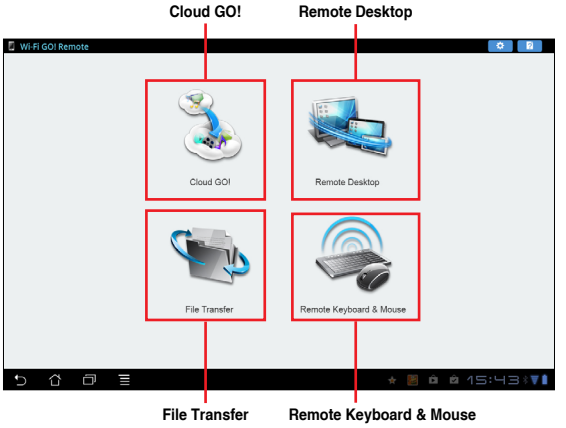
To use the Wi-Fi GO! & NFC Remote:

1. Connect your smart device to the same Wi-Fi network as your computer or log in on your computer and smart devices using the same ASUS account to fully utilize the Wi-Fi GO! functions across different networks.
2. On your smart device, tap 

then tap **Enter**.
3. From the list of scanned PCs, tap the computer that you want to connect with your smart device.



Wi-Fi GO! & NFC Remote interface main page



The screenshots are for reference only and vary with the type of smart device.

Using the Wake-on-LAN

If you want to wake up your computer using the smart device, ensure that you enable the computer's Wake-on-LAN settings.

To configure your computer's Wake-on-LAN settings:

1. From BIOS Setup, go to **Advanced > APM Configuration** then set **Power On By PCI-E/PCI** to **[Enabled]**.
2. From Windows® OS, do the following:
    a. On your desktop, click **Start**, right-click **Computer > Manage** to launch the Computer Management screen.
    b. Click **Device Manager** to view all the installed devices.
    c. Click **Network Adapters**, right-click the installed module card (Broadcom or Atheros) then click **Properties > Power Management** tab.
    d. Tick these items **Allow this device to wake up the computer** and **Only allow a magic packet to wake the computer**.

For 802.11ac standard Wi-Fi GO! Card, the Wake-on-LAN function will be supported in the later version for Windows® 8 and Windows® 10 operating system.

Cloud GO!

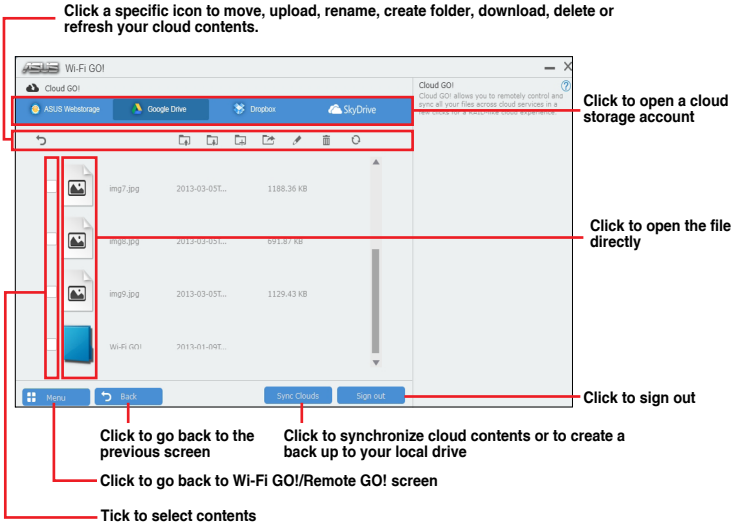
Cloud GO! allows you to control and synchronize your files across multiple cloud services such as ASUS WebStorage, Dropbox®, Google Drive™, and OneDrive®.

- Ensure to set the correct system date and time of your computer and smart device when using Cloud GO!
- Due to the cloud storage limitation, you can only upload or synchronize files with a maximum size of 100 MB.
- The synchronized files will be saved under the Wi-Fi GO! folder of each cloud storage. For the backed up files, you can find them in C://MyFavorites folder.
- Log into the cloud storages accounts first in your PC and stay signed in to allow smart device control.

To use Cloud GO!:

1. Click **Cloud GO!**.
2. Log in to your cloud account then click **Sign In**.

To log in to your Google Drive™, Dropbox®, or OneDrive® accounts, click **Sign in**. Cloud GO! directs you to the Google Drive™, Dropbox®, or OneDrive® website to log in to your account.



Remote Desktop

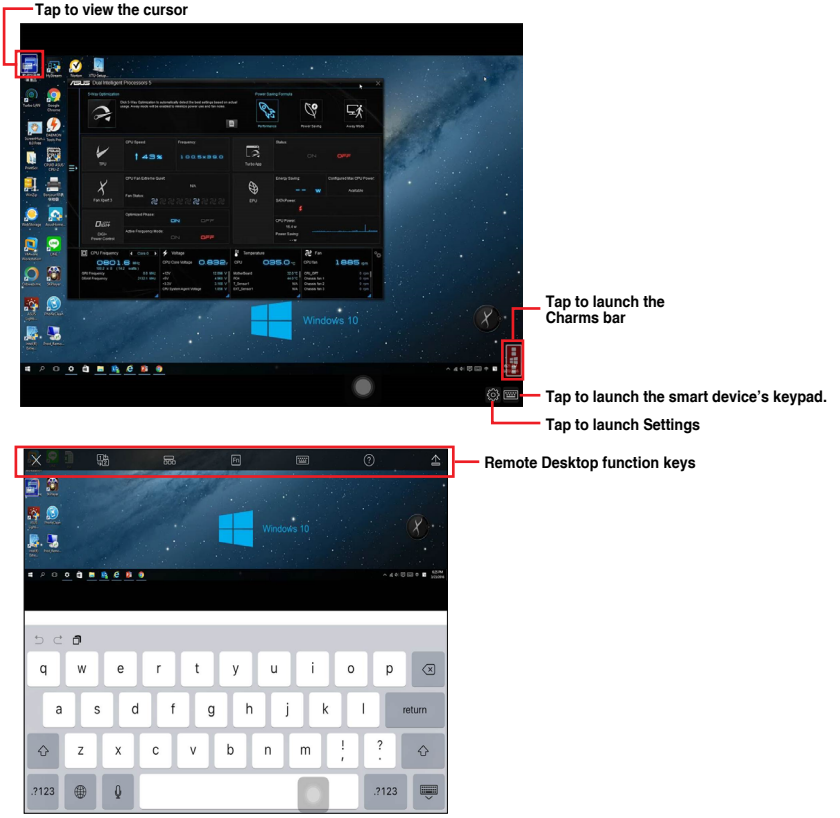
Remote Desktop allows you to remotely control your desktop in real-time using your smart device.

The System User Account Control (UAC) will be set to **Never Notify** when using Remote Desktop function. The UAC level will return to your previous settings after you exit Remote Desktop.

To use Remote Desktop:

On your smart device, tap **Remote Desktop.**

Remote Desktop interface for Windows® 10



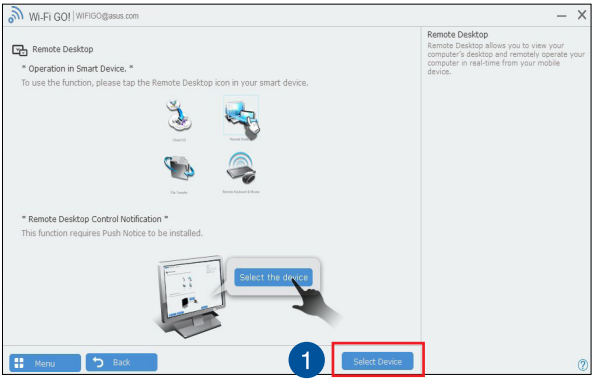
- Microsoft multitouch functions are supported on Windows® 8 / 8.1 / 10.
- The Extended Mode support varies with the VGA driver installed in your computer.

Remote Desktop Control Notification

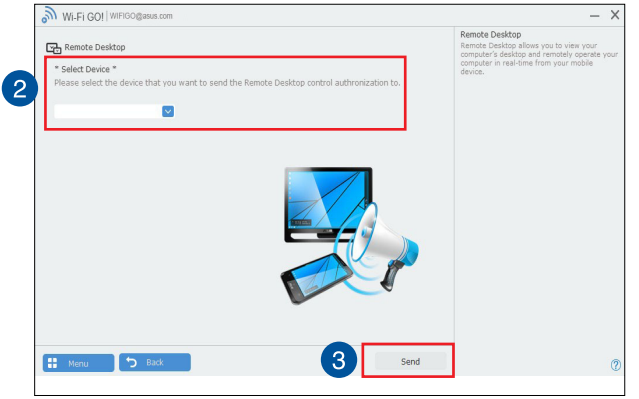
This function allows you to send the control authorization to a smart device and directly start using Remote Desktop in your device.

To use Remote Desktop Control Notification:

1. Click **Select Device**.



2. Select a device from the drop list.
3. Click **Send** to send the Remote Desktop control authorization to the selected device.



This function requires the **Push Notice** feature to be installed. You can get the PUSH Notice installer from the bundled support DVD or download the latest installer from www.asus.com.

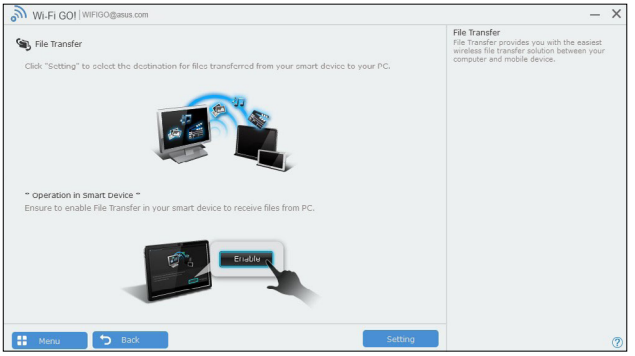
File Transfer

File Transfer allows you to sync and share files between your PCs and smart devices with just a click in public-to-private networks.

Transferring files from computer to smart device

To transfer files from computer to smart device:

1. Click **File Transfer**.
2. Click **Setting** to select the destination for your transferred files.
3. Right-click the file then select **Send to > [Device Name]**.



4. After the file transfer is complete, click **OK**.

- To receive files on your iOS device, go to **Settings > Privacy > Photos** then turn on the Wi-Fi GO! & NFC Remote.
- Find your transferred files from <SD Card>\Wi-Fi GO! for Android devices and Camera roll for iOS devices.

Transferring files from smart device to computer

To transfer files from smart device to computer:

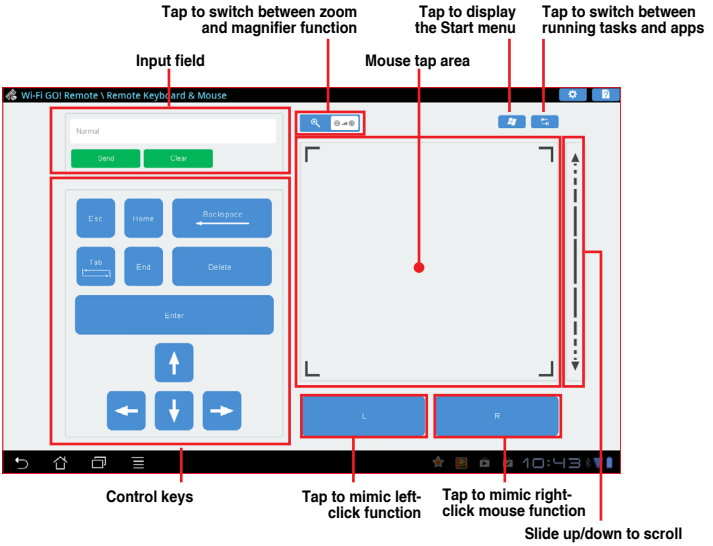
1. Tap **File Transfer > Enter**.
2. Tick the files that you want to send to your computer, then tap **Send**.

- The files you transferred can be found on the location **X:\Users\Documents\ASUS HomeCloud\Wi-Fi GO!\File Transfer**
- To select a new storage location, click **Setting**.

Another way to transfer files is to open the file directly, tick the file, tap the **Share icon/ button** then click the **File Transfer** app to start sending the file to the computer.

Remote Keyboard & Mouse

Remote Keyboard & Mouse allows you to use your smart device's touch panel as a remote keyboard and mouse for your computer.



ASUS Media Streamer

The ASUS Media Streamer allows you to enjoy your PC's multimedia content anywhere. You can pipe music from your PC or stream your favorite movie to a smart TV using your PC or smart device.

- Ensure to enable the DLNA setting of your devices first.
- ASUS Media Streamer supports NFC function. Some functions may require you to install NFC EXPRESS 2. Visit www.asus.com for more information about NFC EXPRESS 2.

- The public-to-private network functions for the iOS system will be available from Media Streamer V2.00.00 or later versions.
- The iOS system only support photo and video streaming for Media Streamer.

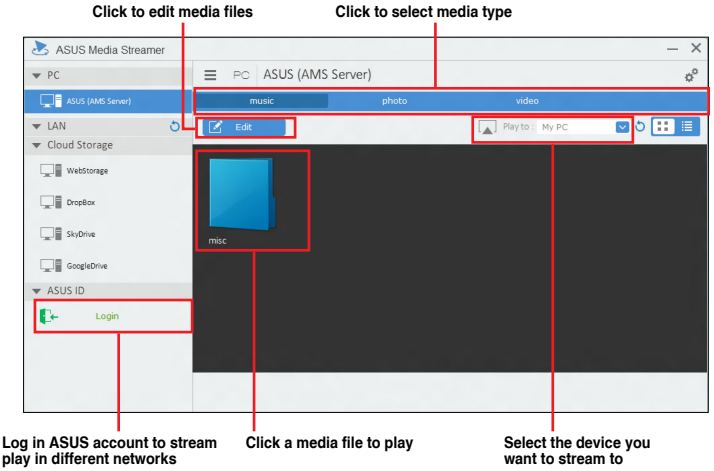
System requirements

System requirements	PC	Smart device
OS	Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10	Android 4.0 or higher versions iOS7 or later versions
Utilities	ASUS HomeCloud	ASUS Media Streamer

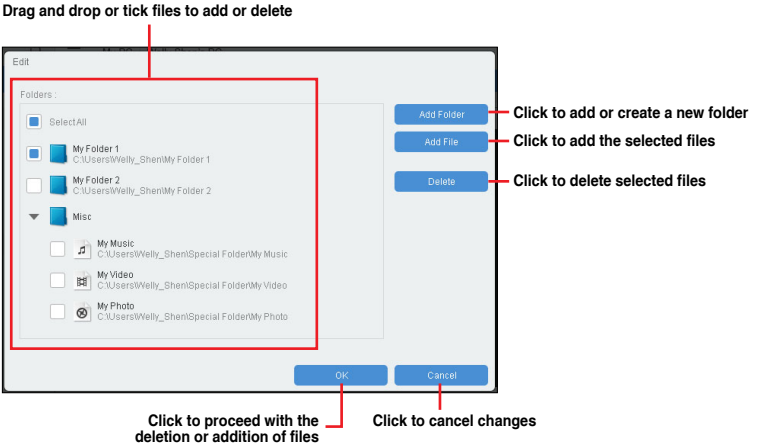
To use ASUS Media Streamer:

On your computer, click **ASUS HomeCloud** then select **Media Streamer** from the mini bar.
On your device, click or tap **Media Streamer**.

You can use Push Notice to receive a media link. The link can be clicked and allows you to play the file directly.



Adding and deleting media files



The following media formats are supported by Android and iOS devices:

- **Android:** .3gp, .mp4, .m4a, .aac, .ts, .flac, .mp3, .mid, .xmf, .mxmf, .rtttl, .rtx, .ota, .imy, .ogg, .mkv, .wav, .jpg, .gif, .png, .bmp, .webp, .webm
- **iOS Supports the following media formats:** .mov, .mp4, .mpv, .3gp.

Push Notice

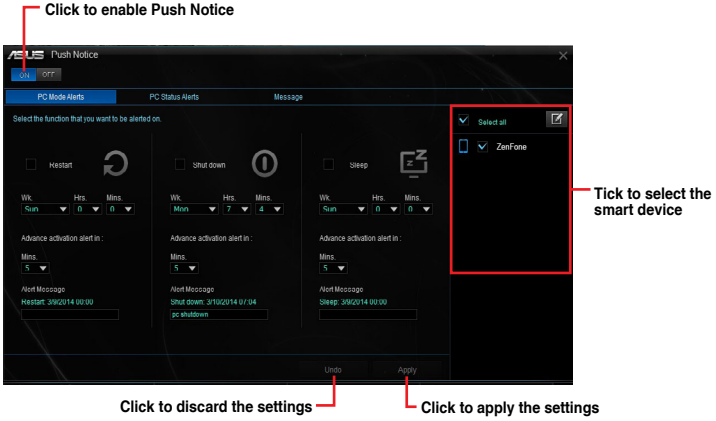
This utility allows you get the detailed status of your system to your smart device. You can also send messages to your smart device using this utility.

Before using this utility, ensure that you pair your computer with your smart device. For pairing information, refer to section **Pairing your computer and smart device**.

Launching Push Notice on your computer

To launch Push Notice, click on the left of the AI Suite 3 main menu, then select **Push Notice**.

Push Notice screen



You can also enable the Push Notice via the Push Notice shortcut on the lower-right corner of your screen. To do this, Click << then Click then select .

Pairing your computer and smart device

To pair your computer and smart device:

1. On your smart device, tap Push Notice to launch Push Notice.
2. Tap **Push Scan** then tap the name of your computer that you want to pair with.

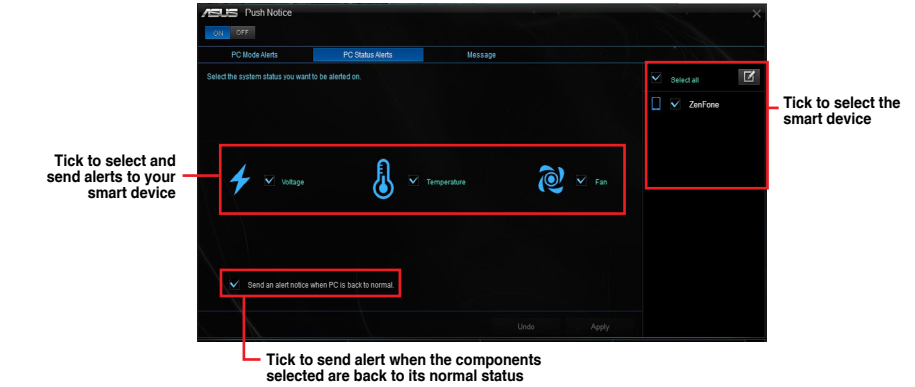
To pair your computer and smart device, ensure that both are connected to the same wireless network.

Setting up PC Mode alerts of your computer

This feature allows you to restart, shut down, or put your computer to sleep mode and sends an alert to your smart device.

Setting up PC Status alerts

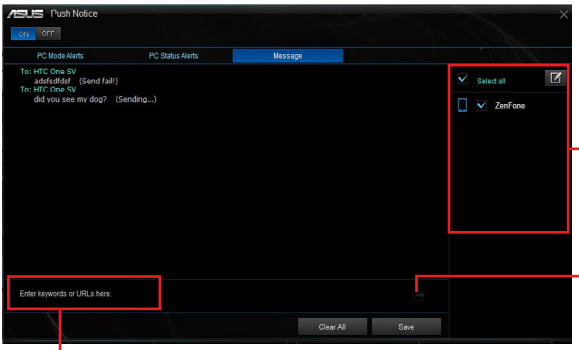
This feature allows you to send alerts of the unusual activities of the voltage, temperature, and fan settings of your computer to your smart device.



Sending messages to your smart device

This feature allows you to send messages to your smart device.

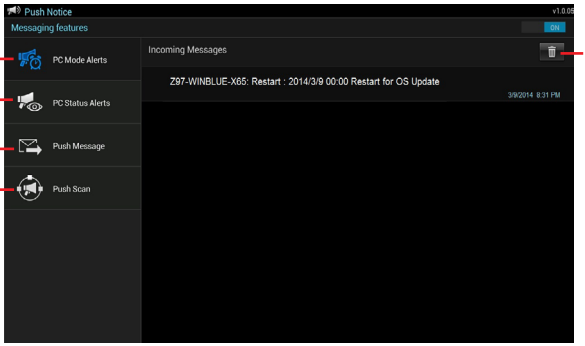
You can also send messages via the Push Notice messaging shortcut on the lower-right corner of your screen. To do this, Click << then Click  then select  .



Viewing your computer status on your smart device

Tap  on your smart device to launch Push Notice.

Push Notice



Key Express

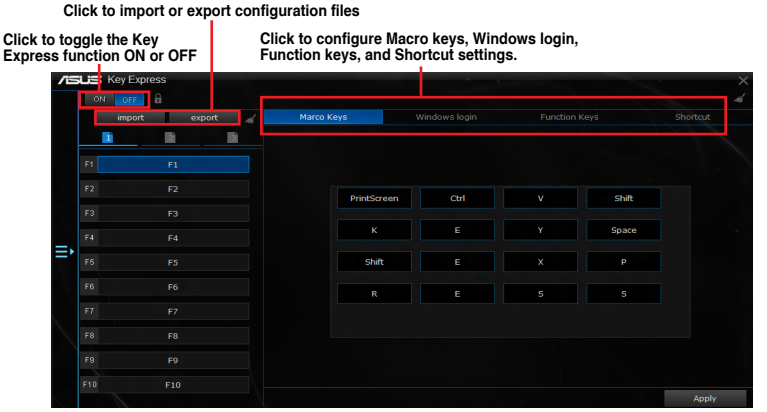
Key Express is a built-in microprocessor that provides instant upgrade to your keyboard. You can configure and assign macros to specific keys on your keyboard to perform specific or several task at the same time.

1. Connect the USB keyboard into the dedicated Key Express USB port.

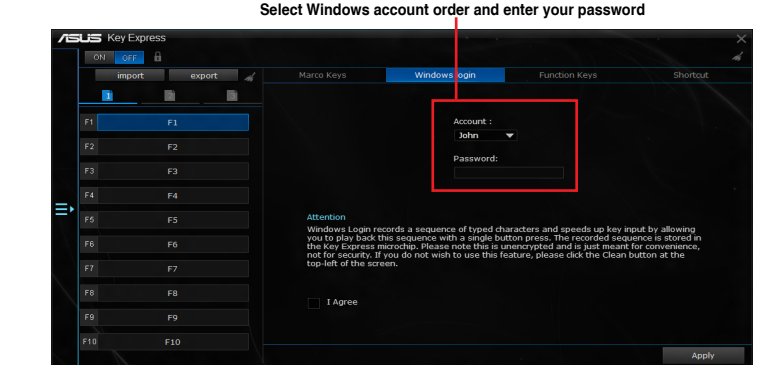
Refer to the I/O shield for more information about the location of the Key Express USB port.

2. Click on the left of the AI Suite 3 main menu, then select **Key Express.**

Macro Keys

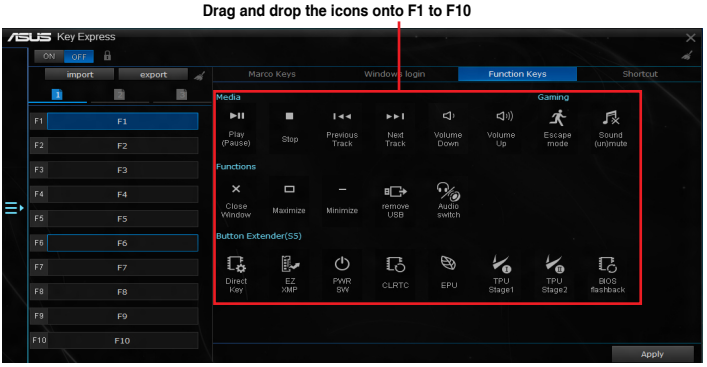


Windows Login



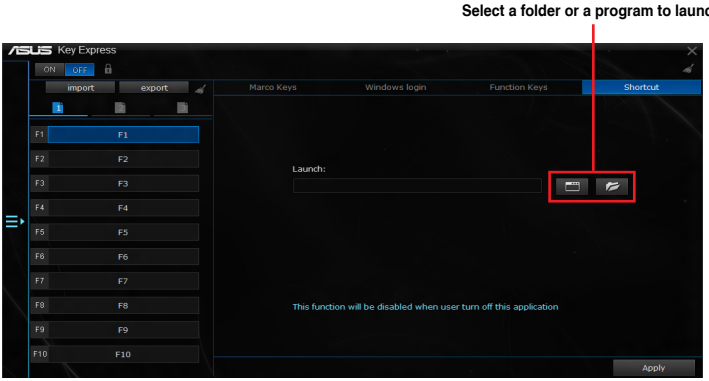
- This function is meant for convenience, not for security.
- This function is not supported at the account switch screen.

Function Keys



Set the power-on button to a hotkey to use it to wake up your PC when Key Express is installed.

Shortcut



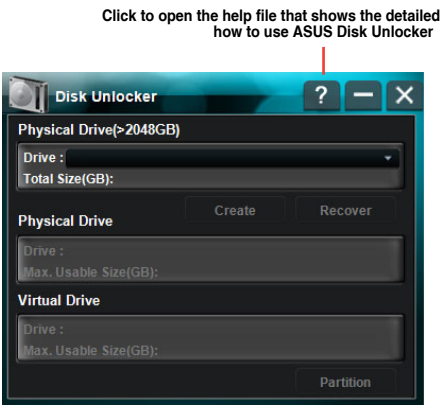
- Key Express is designed for standard keyboards. We recommend not to use keyboards which have its own software or hub for better compatibility.
- When Key Express is enabled, you can only activate your PC by using the hotkeys in S5 mode.
- The <Enter> and <Del> key on the numeric keypad cannot be utilized under S5 mode.

ASUS Disk Unlocker

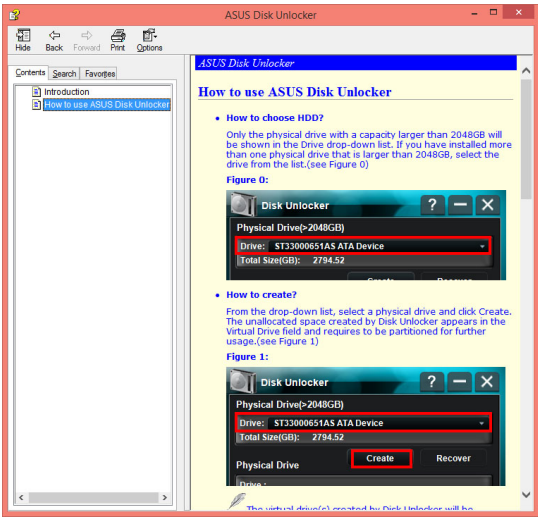
This ASUS exclusive utility provides an easy-to-use interface to identify and utilize all drive space in hard disk drives (HDD).

ASUS Disk Unlocker is supported only on Windows® 7 and Windows® 8.

To launch ASUS Disk Unlocker, click .



ASUS Disk Unlocker Help file



ASUS Boot Setting

ASUS Boot Setting utility allows you to quickly enter the BIOS setup with a click of the DirectBIOS button. It also allows you to select the system bootup process using Normal Boot or Fast Boot.

To fully support ASUS Boot Setting on your motherboard, download the latest BIOS from ASUS Support site at http://www.asus.com and update the BIOS to your system.

Using DirectBIOS button

This button allows you to restart your system and enters directly to BIOS Setup without having to press the <DEL> key during POST.

Using the DirectBIOS function may result to data loss. We recommend to save your data before clicking this button.

To use DirectBIOS:

1. From the ASUS Boot Setting screen, click **DirectBIOS**.
2. On the confirmation message, click **OK** to restart your system and go to the BIOS setup directly.

Using Advanced setup

Advanced setup allows you to set the bootup process of your system.

There are two settings to boot up your system: **Fast Boot** and **Next boot after AC power loss**.

Enabling or disabling Fast Boot

This setting allows you to quickly boot your system.

This setting will take effect after shutting down or restarting your system normally.

To enable or disable Fast Boot:

1. Click **Advanced Setup** to show the boot setup settings.
2. In **Fast Boot**, click **Enabled**. If you want to turn off Fast Boot function, click **Disabled**.
3. On the confirmation message, click **Yes** to apply the setting.

Using Next boot after AC power loss

This setting allows you to boot your system in Fast Boot or Normal Boot under **Next boot after AC power loss**.

To use Fast Boot under AC power loss:

1. Click **Advanced Setup** to show the boot setup settings.
2. In **Fast Boot**, click **Enabled**.
3. In **Next boot after AC power loss**, click **Fast Boot**.
4. On the confirmation message, click **Yes** to apply this setting.

To use Normal Boot under AC power loss:

1. Click **Advanced Setup** to show the boot setup settings.
2. In **Next boot after AC power loss**, click **Normal Boot**.
3. On the confirmation message, click **Yes** to apply this setting.