

ASUS EPU-4 Engine

ASUS EPU-4 Engine is an energy-efficient tool that provides you with a total system power-saving solution. It detects the current computer loading and intelligently adjusts the power usage in real-time. It automatically adjusts the power usage for the CPU, VGA card, hard drives, and CPU fan. It provides you with these modes to choose from: **Auto**, **High Performance**, and **Maximum Power Saving Mode**.



- Refer to the section **ASUS EPU-4 main screen** for more details about these modes.
- The EPU functions that are supported vary with motherboard models.

Installing ASUS EPU-4

To install the **ASUS EPU-4 Engine** on your computer:

1. Place the support DVD into the optical drive. The **Drivers** menu appears if Autorun is enabled on your computer.



If Autorun is disabled, double-click the **setup.exe** file from the ASUS EPU-4 Engine folder in the support DVD.

2. Click **ASUS EPU-4 Engine**.
3. Follow the onscreen instructions to complete the installation.

Launching ASUS EPU-4

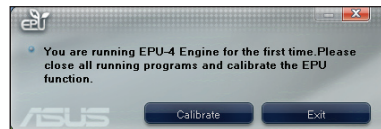
To launch **ASUS EPU-4**:

1. From the Windows taskbar, click the **ASUS EPU-4** icon.



2. When you launch ASUS EPU-4 for the first time, a message appears asking you to calibrate the EPU functions.

Click **Calibrate** and wait for a few seconds for the calibration process to complete. The **ASUS EPU-4** main menu appears.



Calibration allows the system to detect the CPU properties for optimal power management.

ASUS EPU-4 main screen



1 CPU status

Displays the current CPU power and the total CPU power saved.

2 VGA card status

Displays the status of the graphics card. If your graphics card is not compatible with the motherboard, a "No VGA card detected" message appears.



Refer to the ASUS VGA QVL List at http://event.asus.com/mb/EPU-4_Engine/ for compatible VGA cards.

3 HDD status

Lights up when the power saving mode is activated.

4 Fan status

Displays the fan status.

5 CO2 Emission button

Displays the current or total reduced CO2 emission.

6 Mode properties

Displays the properties of each mode.

7 Exit button

Closes the ASUS EPU-4 utility,

8 Calibrate button
Allows the system to detect the CPU properties for optimal power management.

9 Setting button
Click this button to configure the mode settings.



Refer to the section **Configuring the mode settings** for more details.

10 Modes



Auto Mode

When you select this mode, the system changes modes automatically according to the current system status.



High Performance Mode

When you select this mode, the system overclocks the components for maximum performance.



Maximum Power Saving Mode

When you select this mode, the system automatically adjusts the power usage for critical components in real-time to save power.


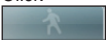
Configuring the mode settings

To configure the mode settings:

1. From the ASUS EPU-4 main menu, click **Setting** to launch the Setting screen.



The Setting screen varies with CPU types.

2. Click  to configure the High Performance mode settings. Click  to configure the Maximum Power Saving mode settings.
3. Based on your motherboard's CPU, configure any of these mode settings:



Intel Setting screen



AMD Setting screen

- **vCore Voltage Downgrade:** Lowers CPU vCore voltage.
 - **Small:** Downgrades voltage to the minimum level.
 - **Medium:** Downgrades voltage to the medium level.
 - **Heavy:** Downgrades voltage to the highest level for CPU power saving.
- **CPU Loadline:** Sets up the CPU loadline to manage CPU power saving.
 - **Small:** Saves CPU power to the minimum level.
 - **Medium:** Saves CPU power to the medium level.
 - **Heavy:** Saves CPU power to the highest level.
- **VDDNB Voltage Downgrade:** Sets up the VDDNB Voltage to manage CPU power saving.
 - **Small:** Saves CPU power to the minimum level.
 - **Medium:** Saves CPU power to the medium level.
 - **Heavy:** Saves CPU power to the highest level.

- **AI Nap Idle Time:** After the specified idle time, the system enters a sleep mode while all background tasks are still running.
 - **Turn off Screen:** After the specified idle time, the system turns off the screen and enters a sleep mode.
 - **Fan Control:** Adjusts fan speeds to reduce noise and save system power.
 - **Quiet:** Lowers CPU fan speed and shuts off two chassis fans.
 - **BIOS Setting:** Adjusts the fan speeds based on the BIOS settings.
4. Click **OK** to apply the settings made.