

Interactive BIOS simulator

HP ENVY x360 Convertible 13-ar0xxx

Welcome to the interactive BIOS simulator for the
HP ENVY x360 Convertible 13-ar0xxx

Here's how to use it...

[BIOS Utility Menus](#): (Click the link to navigate to the individual menus)

On this page you will find thumbnail images of each of the product's BIOS utility menus. To view a specific menu in greater detail, simply click that thumbnail. Just as in the live BIOS, on each menu, you can select the tab of each of the other utility menus to navigate directly to that menu.

Menu options:

While the menu options cannot be toggled, many of them offer item specific information about that option. To view this information, use the cursor to rollover the option and the information will present in a pane on the right of the BIOS screen.

That's it!

On every page there is a link that brings you back to either this Welcome page or the BIOS Utility Menus page enabling you to navigate to whatever BIOS option you wish to review.

BIOS Utility Menus

Main

Security

Configuration

Boot Options

Exit

Main Menu



Main

System Time	[03:28:05]
System Date	02/13/2019
Product Name	HP ENVY x360 Convertible 13-ar0xxx
System Family	HP Envy
Product Number	4810GA010010
System Board ID	85DE
Born On Date	02/06/2019
Processor Type	AMD Ryzen 5 3500U with Radeon Vega Mobile Gfx
Processor Speed	2100 MHz
Total Memory	8 GB
BIOS Vendor	AMI
BIOS Version	B.10
Serial Number	ABC8510076
UUID	F16865BD-0297-11E9-86E2-283A4D6-2A168
System Board CT Number	4550GA01D01358
Factory installed OS	Win10
Primary Battery SN	00657 11/29/2018
Build ID	19WW1BRT6ag#SABA#DABA
Feature Byte	3K3Q 6b7B 7K7N 7WaB apaq asaw bBbV bhcb d6d8 dUdX dpdq fPhZ hujF .fB

1

2

Item Specific Help

1. Provides firmware revision information of devices built in the system.
2. View System Log.

Main Menu



Main

Device Firmware Revision

Embedded Controller 40.15

GOP (Graphic Output Protocol) 2.5.0

Item Specific Help

Main Menu



Main

System Log

Result:

Time:

- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -
- No Data -

Item Specific Help

Security Menu



Security

Administrator Password

1

Power-On Password

2

TPM Device

3

Item Specific Help

1. Administrator Password prevents unauthorized access to the Setup Utilities. To disable the audible password prompt (beeping sound), set the POST Hotkey Delay (sec) option to 0. This also disables the audible prompt for Power-On Password.
2. Power-On Password prevents unauthorized computer system start (boot). To disable the audible password prompt (beeping sound), set the POST Hotkey Delay (sec) option to 0. This also disables the audible prompt for Administrator Password.
3. If the item is set to Hidden, the TPM device is not visible in the operating system.
4. If the TPM device is hidden, this option is hidden. When the TPM device is changed to Available, this option is shown without the need to restart the computer. The TPM state is saved if the TPM device is changed to Hidden. The next time the TPM device is changed to Available, the previous setting will be restored.
5. If the TPM Device is hidden, this option is hidden. A confirmation message will be displayed during the next system startup to confirm you want to clear the TPM.
For TPM 1.2, the BIOS sends the TPM_ForceClear command to clear the TPM_ForceClear command to clear the TPM. For TPM 2.0, the BIOS sends the TPM2_Clear command to clear the Storage and Endorsement Hierarchy. Once the TPM is cleared, the BIOS disables TPM Power-on Authentication.
After the BIOS clears the TPM or you reject clearing the TPM during the physical presence check in POST, this setting is reverted back to No.
The setting of the TPM State shall stay the same before and after the "Clear TPM" operation. Clear TPM is also set to No without any action taken if the user selects No for the Physical Presence prompt.
6. This option will restore all the security settings to factory defaults. For example, TPM device will be cleared and set to default shipping state.

Security Menu



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TPM Device

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2. Power-On Password prevents unauthorized computer system start (boot). To disable the audible password prompt (beeping sound), set the POST Hotkey Delay (sec) option to 0. This also disables the audible prompt for Administrator Password.
3. If the item is set to Hidden, the TPM device is not visible in the operating system.
4. If the TPM device is hidden, this option is hidden. When the TPM device is changed to Available, this option is shown without the need to restart the computer. The TPM state is saved if the TPM device is changed to Hidden. The next time the TPM device is changed to Available, the previous setting will be restored.
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Security Menu



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Power-On Password

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TPM Device

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Security Menu



Security

Administrator Password

Power-On Password

TPM Device

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2

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TPM State

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3. If the item is set to Hidden, the TPM device is not visible in the operating system.
4. If the TPM device is hidden, this option is hidden. When the TPM device is changed to Available, this option is shown without the need to restart the computer. The TPM state is saved if the TPM device is changed to Hidden. The next time the TPM device is changed to Available, the previous setting will be restored.
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Security Menu



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Power-On Password

TPM Device

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Clear TPM

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Configuration Menu



Configuration

- Language 1
- Virtualization Technology 2
- Card Reader Power Saving 3
- Fan Always On 4
- Action Keys Mode 5
- USB Charging 6
- Battery Remaining Time 7
- Modern Standby Support 8

Item Specific Help

1. Select the display language for the BIOS.
2. Hardware VT enables a processor feature for running multiple simultaneous Virtual Machines allowing specialized software applications to run in full isolation of each other. HP recommends that this feature remain disabled unless specialized applications are being used.
3. To reduce the power consumption of Card Reader on DC mode
4. Sets the Fan Always On
5. Disabled: Requires pressing fn key + f1 through f12 to activate action keys Enabled: Requires pressing only f1 through f12 to activate action keys.
6. Allow the system to charge the USB device such as mobile phone in S4 (Hibernation) or S5 (off) state.
7. This item enables or disables the reporting of battery remaining time from the BIOS to the operating system. If disabled, the operating system displays battery life in a percentage only.
8. This item enables or disables the Modern Standby Support from the BIOS to the operating system.

Configuration Menu



Configuration

- Language
- Virtualization Technology
- Card Reader Power Saving
- Fan Always On
- Action Keys Mode
- USB Charging
- Battery Remaining Time
- Modern Standby Support

<English>

- 1
- 2
- 3
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Language

Item Specific Help

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Configuration Menu



Configuration

- Language
- Virtualization Technology
- Card Reader Power Saving
- Fan Always On
- Action Keys Mode
- USB Charging
- Battery Remaining Time
- Modern Standby Support

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Virtualization Technology

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Configuration Menu



Configuration

- Language
- Virtualization Technology
- Card Reader Power Saving
- Fan Always On
- Action Keys Mode
- USB Charging
- Battery Remaining Time
- Modern Standby Support

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<Enabled>

Card Reader Power Saving

Item Specific Help

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Configuration Menu



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- Language
- Virtualization Technology
- Card Reader Power Saving
- Fan Always On
- Action Keys Mode
- USB Charging
- Battery Remaining Time
- Modern Standby Support

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<Enabled>

Fan Always On

Item Specific Help

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- Language
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<Enabled>

Action Keys Mode

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Configuration Menu



Configuration

- Language
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- 4
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- 6
- 7

<Enabled>

USB Charging

Item Specific Help

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Configuration Menu



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- Battery Remaining Time
- Modern Standby Support

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<Enabled>

Battery Remaining Time

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Configuration Menu



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- Battery Remaining Time 7
- Modern Standby Support <Enabled> 8

Modern Standby Support

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Boot Options Menu



Boot Options

- Post Hotkey Delay (sec) **1**
- USB Boot **2**
- Network Boot **3**
- Network Boot Protocol **4**
- Legacy Support **5**
- Platform Key **6**
Enrolled MSFT
- Pending Action
None
- Load HP Factory Default Keys
- Load MSFT Debug Policy Keys
- UEFI Boot Order **7**
- Legacy Boot Order
Notebook Hard Drive

Item Specific Help

1. POST Hotkey Delay (sec) controls the amount of time given to press the function key to enter the Setup Utilities when the system starts. To disable the audible password prompt (beeping sound) for both the Administrator Password and power-On Password, set the POST Hotkey Delay (sec) options to 0.
2. Enable/Disable USB boot
3. Enable/Disable network boot during boot time.
4. Select Network Boot Protocol using IPv4, IPv6 or IPv4+IPv6. When IPv4+IPv6 selected, BIOS will use IPv4 first.
5. When Legacy Support is enabled, BIOS will load compatibility Support Module (CSM) to support Legacy OS such as Windows 7, Windows Vista, Windows XP and DOS. When Legacy Support is disabled, BIOS will boot in UEFI Mode without CSM to support newer OS such as Windows 8.
6. When Secure Boot is enabled, BIOS performs cryptographic check during bootup, for the integrity of the software image. It prevents unauthorized or maliciously modified software from running.
7. Up and Down arrow keys select a device. < F5 > and < F6 > keys move the device down or up. The boot capability will be disabled if the Device is marked with an exclamation mark. When Legacy Support is enabled, UEFI boot order and Legacy boot order are both available and UEFI boot order has higher priority than Legacy boot order.

Boot Options Menu



Boot Options

Post Hotkey Delay (sec)
 USB Boot
 Network Boot
 Network Boot Protocol
 Legacy Support

Platform Key
 Pending Action

Load HP Factory Default Keys
 Load MSFT Debug Policy Keys

UEFI Boot Order

Legacy Boot Order
 Notebook Hard Drive

1

2

3

4

5

6

Enrolled MSFT
 None

Post Hotkey Delay (sec)

7

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Boot Options Menu



Boot Options

Post Hotkey Delay (sec)
USB Boot
Network Boot
Network Boot Protocol
Legacy Support

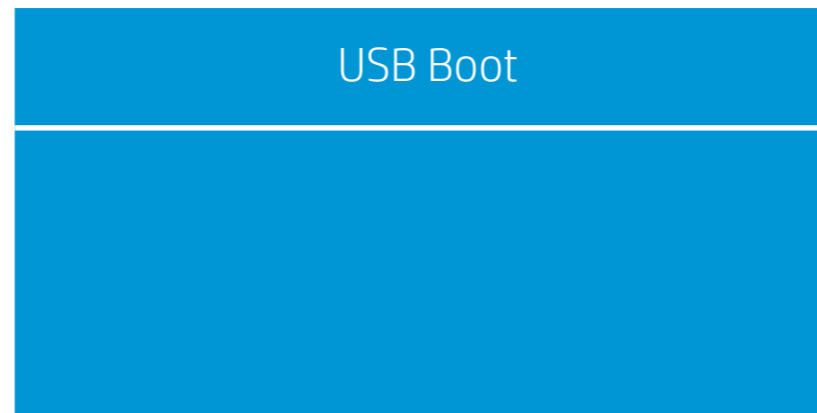
Platform Key
Pending Action

Load HP Factory Default Keys
Load MSFT Debug Policy Keys

UEFI Boot Order

Legacy Boot Order
Notebook Hard Drive

Enrolled MSFT
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Boot Options Menu

hp

Boot Options

- Post Hotkey Delay (sec) **1**
- USB Boot **2**
- Network Boot **3**
- Network Boot Protocol **4**
- Legacy Support **5**
- Platform Key **6**
- Pending Action
- Enrolled MSFT
- None
- Load HP Factory Default Keys
- Load MSFT Debug Policy Keys
- UEFI Boot Order **7**
- Legacy Boot Order
- Notebook Hard Drive

Network Boot

Item Specific Help

1. POST Hotkey Delay (sec) controls the amount of time given to press the function key to enter the Setup Utilities when the system starts. To disable the audible password prompt (beeping sound) for both the Administrator Password and power-On Password, set the POST Hotkey Delay (sec) options to 0.
2. Enable/Disable USB boot
3. Enable/Disable network boot during boot time.
4. Select Network Boot Protocol using IPv4, IPv6 or IPv4+IPv6. When IPv4+IPv6 selected, BIOS will use IPv4 first.
5. When Legacy Support is enabled, BIOS will load compatibility Support Module (CSM) to support Legacy OS such as Windows 7, Windows Vista, Windows XP and DOS. When Legacy Support is disabled, BIOS will boot in UEFI Mode without CSM to support newer OS such as Windows 8.
6. When Secure Boot is enabled, BIOS performs cryptographic check during bootup, for the integrity of the software image. It prevents unauthorized or maliciously modified software from running.
7. Up and Down arrow keys select a device.< F5 > and < F6 > keys move the device down or up. The boot capability will be disabled if the Device is marked with an exclamation mark. When Legacy Support is enabled, UEFI boot order and Legacy boot order are both available and UEFI boot order has higher priority than Legacy boot order.

Boot Options Menu



Boot Options

Post Hotkey Delay (sec)
 USB Boot
 Network Boot
 Network Boot Protocol
 Legacy Support

Platform Key
 Pending Action

Load HP Factory Default Keys
 Load MSFT Debug Policy Keys

UEFI Boot Order

Legacy Boot Order
 Notebook Hard Drive

Enrolled MSFT
 None

- 1
- 2
- 3
- 4
- 5
- 6

Network Boot Protocol

7

Item Specific Help

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Load HP Factory Default Keys
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UEFI Boot Order

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Notebook Hard Drive

Enrolled MSFT
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- 1
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Legacy Support

7

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Boot Options Menu



Boot Options

Post Hotkey Delay (sec)
USB Boot
Network Boot
Network Boot Protocol
Legacy Support

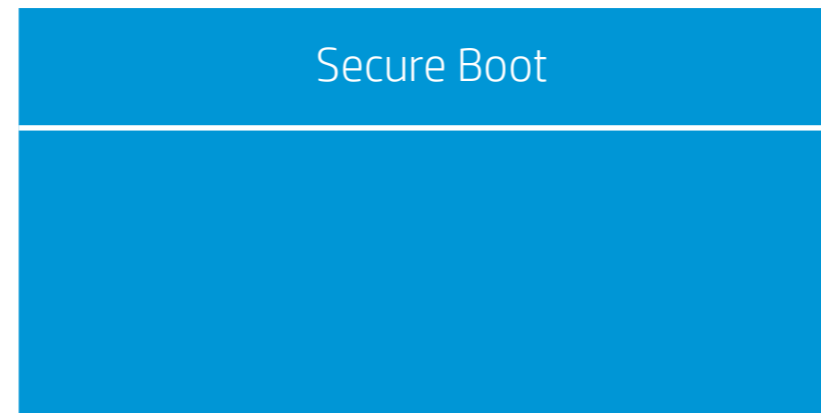
Platform Key
Pending Action

Load HP Factory Default Keys
Load MSFT Debug Policy Keys

UEFI Boot Order

Legacy Boot Order
Notebook Hard Drive

Enrolled MSFT
None



Item Specific Help

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Boot Options Menu



Boot Options

Post Hotkey Delay (sec)
USB Boot
Network Boot
Network Boot Protocol
Legacy Support

Platform Key
Pending Action

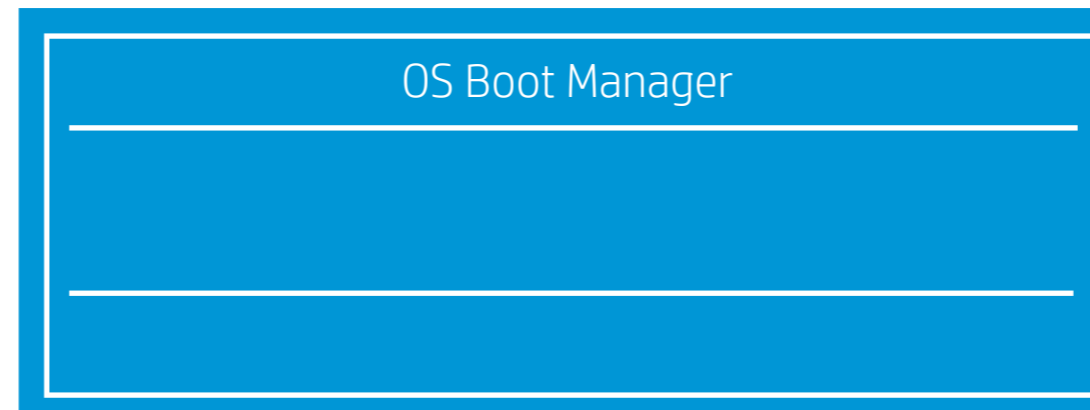
Load HP Factory Default Keys
Load MSFT Debug Policy Keys

UEFI Boot Order

▶ OS Boot Manager 7

Legacy Boot Order
Notebook Hard Drive

1
2
3
4
5
6
Enrolled MSFT
None



Item Specific Help

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Exit Menu



Exit

- 1
- 2
- 3

Item Specific Help

1. Exit System Setup and save your changes to CMOS.
2. Exit utility without saving Setup data to CMOS.
3. Load default values for all SETUP items.

Exit Menu



Exit

- 1
- 2
- 3

Save Changes and Exit?

Item Specific Help

1. Exit System Setup and save your changes to CMOS.
2. Exit utility without saving Setup data to CMOS.
3. Load default values for all SETUP items.

Exit Menu

The screenshot shows the HP BIOS Exit Menu. On the left is the HP logo. At the top right is the 'Exit' button. In the center, the 'Ignore Changes and Exit' option is highlighted with a black bar and numbered callouts 1, 2, and 3. Below this is a blue button labeled 'Ignore Changes and Exit'. On the right is a help panel titled 'Item Specific Help' containing a numbered list of instructions.

hp

Exit

1
Ignore Changes and Exit 2
3

Ignore Changes and Exit

Item Specific Help

1. Exit System Setup and save your changes to CMOS.
2. Exit utility without saving Setup data to CMOS.
3. Load default values for all SETUP items.

Exit Menu



Exit

- 1
- 2
- 3

Load Setup Defaults?

Item Specific Help

1. Exit System Setup and save your changes to CMOS.
2. Exit utility without saving Setup data to CMOS.
3. Load default values for all SETUP items.