

# Interactive BIOS simulator

## HP Pavilion Gaming Laptop 15-dk0xxx

Welcome to the interactive BIOS simulator for the  
HP Pavilion Gaming Laptop 15-dk0xxx

### 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



System Time	
System Date	
Product Name	HP Pavillion Gaming Laptop 15-dk0xxx
System Family	HP Pavillion
Product Number	FPC5201#ABA
System Board ID	85FA
Born On Date	00/00/0000
Processor Type	Intel(R) Core(TM) i5-9300H CPU @ 2.40GHz
Total Memory	12 GB
BIOS Vendor	Insyde
BIOS Revision	V.08.TPDL2
Serial Number	CND907545P
UUID	2000FE00-A22D-E911-8BB6-B00CD1E7209D
System Board CT Number	PXXXXA61WBXRU4
Factory Installed OS	Win10
Primary Battery SN	01074 01/17/2019
Build ID	19WW1CPT6ah@SABA#DABA
Feature Byte	3K3Q 6b7B 7K7W aBap aqas awbC bhcb dUdp dpfP fdhZ j6 .Fn



System Time [16:52:34]  
 System Date [05/06/2019]  
 Product Name HP Pavillion Gaming Laptop 15-dk0xxx  
 System Family HP Pavillion  
 Product Number FPC5201#ABA  
 System Board ID 85FA  
 Born On Date 00/00/0000  
 Processor Type i7-9300H CPU @ 2.40GHz  
 Total Memory 15 52 23  
 BIOS Vendor 16 53 24  
 BIOS Revision 17 54 25  
 ➔ Device Firmware  
 Serial Number CND907545P  
 UUID 2000FE00-A22D-E911-8BB6-B00CD1E7209D  
 System Board CT Number PXXXXA61WBXRU4  
 Factory Installed OS Win10  
 Primary Battery SN 01074 01/17/2019  
 ➔ System Log  
 Build ID 19WW1CPT6ah@SABA#DABA  
 Feature Byte 3K3Q 6b7B 7K7W aBap aqas awbC bhcb  
 dUdp dpfP fdhZ j6 .Fn

System Time		
15	52	23
16	53	24
17	54	25



System Time [16:52:34]  
 System Date **[05/06/2019]**  
 Product Name HP Pavillion Gaming Laptop 15-dk0xxx  
 System Family HP Pavillion  
 Product Number FPC5201#ABA  
 System Board ID 85FA  
 Born On Date 00/00/0000  
 Processor Type i7-9300H CPU @ 2.40GHz  
 Total Memory 04 05 2018  
 BIOS Vendor 05 06 2019  
 BIOS Revision 06 07 2020  
 ➔ Device Firmware  
 Serial Number CNB9073431  
 UUID 2000FE00-A22D-E911-8BB6-B00CD1E7209D  
 System Board CT Number PXXXXA61WBXRU4  
 Factory Installed OS Win10  
 Primary Battery SN 01074 01/17/2019  
 ➔ System Log  
 Build ID 19WW1CPT6ah@SABA#DABA  
 Feature Byte 3K3Q 6b7B 7K7W aBap aqas awbC bhcb  
 dUdp dpfP fdhZ j6 .Fn

System Date

04	05	2018
05	06	2019
06	07	2020



Device Firmware Revision

Embedded Controller	42.14
Intel ME (Management Engine)	12.0.30.1406
GOP (Graphic Output Protocol)	9.0.1085
Discrete GOP (Graphica Output Protocol)	3000F
Discrete VBIOS Version	86.07.6C.00.0A
USB Type-C Controller(s)	F7.07.10.9C.06

Item Specific Help



**Security**



- Administrator Password
- Power-On Password
- Intel Software Guard Extensions (SGX)
- TPM Device
- TPM State
- Clear TPM

Item Specific Help

**Security**



Administrator Password	[Clear]
Power-On Password	[Clear]
Intel Software Guard Extensions (SGX)	[S/W Controller]
TPM Device	[Available]
TPM State	[Embedded]
Clear TPM	[No]
[Restore Security settings to Factory Default]	

**Item Specific Help**

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.

Set Administrator Password

Enter New Password	<input type="password"/>
Confirm New Password	<input type="password"/>

**Security**



- Administrator Password [Clear]
- Power-On Password **[Clear]**
- Intel Software Guard Extensions (SGX) [S/W Controller]
- TPM Device [Available]
- TPM State [Embedded]
- Clear TPM [No]
- [Restore Security settings to Factory Default]

**Item Specific Help**

Power-On 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 Administrator Password.

Set Power On Password

Enter New Password	<input type="password"/>
Confirm New Password	<input type="password"/>

**Security**



Administrator Password [Clear]  
Power-On Password [Clear]  
Intel Software Guard Extensions (SGX) **[S/W Controller]**  
TPM Device [Available]  
TPM State [Embedded]  
Clear TPM [No]  
[Restore Security settings to Factory Default]

Intel Software Guard Extensions (SGX)

**Item Specific Help**

Enable/Disable Intel Software Guard Extensions (SGX).

**Security**



Administrator Password	[Clear]
Power-On Password	[Clear]
Intel Software Guard Extensions (SGX)	[S/W Controller]
TPM Device	<b>[Available]</b>
TPM State	[Embedded]
Clear TPM	[No]
[Restore Security settings to Factory Default]	

TPM Device

A blue rectangular menu box for the 'TPM Device' setting. The text 'TPM Device' is centered at the top of the box. The rest of the box is empty, indicating that the list of available TPM devices is currently hidden.

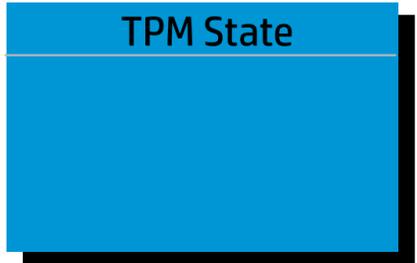
**Item Specific Help**

If the Item is set to "Hidden", the TPM device is not visible in the Operating System.

**Security**



Administrator Password	[Clear]
Power-On Password	[Clear]
Intel Software Guard Extensions (SGX)	[S/W Controller]
TPM Device	[Available]
TPM State	<b>[Embedded]</b>
Clear TPM	[No]
[Restore Security settings to Factory Default]	



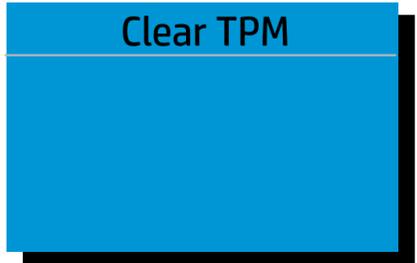
**Item Specific Help**

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.

**Security**



Administrator Password	[Clear]
Power-On Password	[Clear]
Intel Software Guard Extensions (SGX)	[S/W Controller]
TPM Device	[Available]
TPM State	[Embedded]
Clear TPM	<b>[No]</b>
[Restore Security settings to Factory Default]	



**Item Specific Help**

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\_Force-Clear 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, the 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.



**Security**

- Administrator Password [Clear]
- Power-On Password [Clear]
- Intel Software Guard Extensions (SGX) [S/W Controller]
- TPM Device [Available]
- TPM State [Embedded]
- Clear TPM [No]
- [Restore Security settings to Factory Default]**

**Item Specific Help**

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 Feature Reset Request**  
 A request to Reset Security Defaults is pending. Please enter the pass code displayed below to complete the change. If you did not initiate this request, press the ESC key to continue without accepting the pending change.

**Reset Security Defaults (023)**

-  2866 - ENTER - to complete the change
-  ESC - continue without changing

For more information, please visit [www.hp.com/go/techcenter/startup](http://www.hp.com/go/techcenter/startup)

**Configuration**



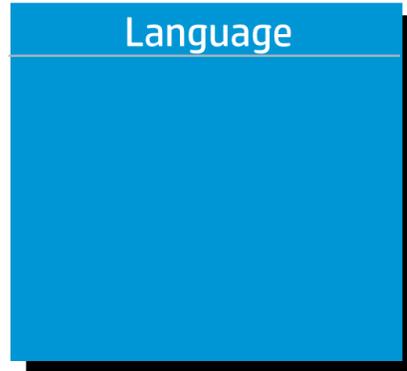
- Language
- Virtualization Technology
- Fan Always On
- Action Keys Mode
- USB Charging
- Battery Remaining Time
- Battery Care Function

Item Specific Help

**Configuration**



- Language **English**
- Virtualization Technology [Enabled]
- Fan Always On [Enabled]
- Action Keys Mode [Enabled]
- USB Charging [Enabled]
- Battery Remaining Time [Disabled]
- Battery Care Function [100%]
- ➔ UEFI HII Configuration



**Item Specific Help**

Select the display language for the BIOS.

**Configuration**



- Language [English]
- Virtualization Technology **[Enabled]**
- Fan Always On [Enabled]
- Action Keys Mode [Enabled]
- USB Charging [Enabled]
- Battery Remaining Time [Disabled]
- Battery Care Function [100%]
- ➔ UEFI HII Configuration

Virtualization Technology

Item Specific Help

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.

**Configuration**



- Language [English]
- Virtualization Technology [Enabled]
- Fan Always On **[Enabled]**
- Action Keys Mode [Enabled]
- USB Charging [Enabled]
- Battery Remaining Time [Disabled]
- Battery Care Function [100%]
- ➔ UEFI HII Configuration

Fan Always On

A blue rectangular box with a black border, containing the text 'Fan Always On' in white. The box is positioned to the right of the 'Fan Always On' configuration item in the list.

Item Specific Help

Set the Fan Always On (or Off).

**Configuration**



- Language [English]
- Virtualization Technology [Enabled]
- Fan Always On [Enabled]
- Action Keys Mode **[Enabled]**
- USB Charging [Enabled]
- Battery Remaining Time [Disabled]
- Battery Care Function [100%]
- ➔ UEFI HII Configuration

Action Keys Mode

Item Specific Help

Set the Fan Always On (or Off).

**Configuration**



- Language [English]
- Virtualization Technology [Enabled]
- Fan Always On [Enabled]
- Action Keys Mode [Enabled]
- USB Charging [Enabled]**
- Battery Remaining Time [Disabled]
- Battery Care Function [100%]
- ➔ UEFI HII Configuration

USB Charging

**Item Specific Help**

Allow the system to charge the USB device such as mobile phones in S4 (Hibernation) or S5 (off) state.

**Configuration**



- Language [English]
- Virtualization Technology [Enabled]
- Fan Always On [Enabled]
- Action Keys Mode [Enabled]
- USB Charging [Enabled]
- Battery Remaining Time **[Disabled]**
- Battery Care Function [100%]
- ➔ UEFI HII Configuration

Battery Remaining Time

**Item Specific Help**

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.

**Configuration**



Language	[English]
Virtualization Technology	[Enabled]
Fan Always On	[Enabled]
Action Keys Mode	[Enabled]
USB Charging	[Enabled]
Battery Remaining Time	[Disabled]
Battery Care Function	<b>[100%]</b>

**Battery Care Function**

**Item Specific Help**

Battery Care Function (100%): The battery charge stops at 91-100%.  
Battery Care Function (80%): The battery charge stops at 76-80%.  
Battery Care Function (50%): The battery charge stops at 46-50%.

**Configuration**



UEFI HII Configuration



**Item Specific Help**

This format allows the user to manage RAID volumes on the Intel(R) RAID Controller

**Configuration**



Intel(R) RST 17.0.0.3808 RAID Driver

Optane Volume



**Item Specific Help**

Select to see more information about the Intel Optane Volume

**Configuration**



Optane Volume Info

Optane Mode  
Size

Safe  
931.5GB



Volume member disks

Item Specific Help

Disable Optane Volume

**Configuration**



DISPLAY OPTANE VOLUME

Preserve user data

Enabled



Are you sure you want to disable

➔ [Disable](#)

Item Specific Help

Select whether to preserve user data

**Configuration**



DISPLAY OPTANE VOLUME

Preserve user data

Press Link "Disable" To Confirm



Are you sure you want to disable

[Yes]

Item Specific Help

Select whether to preserve user data

**Configuration**



PHYSICAL DISK INFO

	Port	0.0
	Model Number	ST1000LM049-2GH1.72
	Serial Number	WGS3J023
	Size	931.5GB
	Status	Non-RAID
	Controller Type	AHCI
	Controller Interface	SATA

Item Specific Help

**Configuration**



PHYSICAL DISK INFO

	Port	1.0
	Model Number	Intel MEMPEK1J016GAH
	Serial Number	PHBT845507Y1016N
	Size	13.4GB
	Status	Cache
	Controller Type	NVMx
	Controller Interface	PCIe

Item Specific Help



POST Hotkey Delay  
USB Boot  
Network Boot  
Network Boot Protocol  
Legacy Support  
Security Boot  
Platform Key  
Pending Action

Enrolled  
None

Load HP Factory Default Keys  
Load MSFT Debug Policy Keys

**UEFI Boot Order**

USB Flash Drive/USB Hard Drive  
USB CD/DVD ROM Drive  
1 Network Adaptor

Legacy Boot Order

Internal Hard Drive  
USB Flash Drive/USB Hard Drive  
USB CD/DVD ROM Drive  
1 Network Adaptor

Item Specific Help



POST Hotkey Delay  
 USB Boot  
 Network Boot  
 Network Boot Protocol  
 Legacy Support  
 Security Boot  
 Platform Key  
 Pending Action  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

**0**  
 [Enabled]  
 [Disabled]  
 [IPv4+IPv6 (UEFI)]  
 [Disabled]  
 [Enabled]  
 Enrolled  
 None

UEFI Boot Order  
 ➔ OS Boot Manager  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Legacy Boot Order  
 Internal Hard Drive  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

POST Hotkey Delay (sec)

Item Specific Help

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) option to 0.



POST Hotkey Delay  
 USB Boot  
 Network Boot  
 Network Boot Protocol  
 Legacy Support  
 Security Boot  
 Platform Key  
 Pending Action  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

[Enabled]  
 [Disabled]  
 [IPv4+IPv6 (UEFI)]  
 [Disabled]  
 [Enabled]  
 Enrolled  
 None

UEFI Boot Order  
 ➔ OS Boot Manager  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor



Legacy Boot Order  
 Internal Hard Drive  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Item Specific Help

Enable/Disable USB Boot.

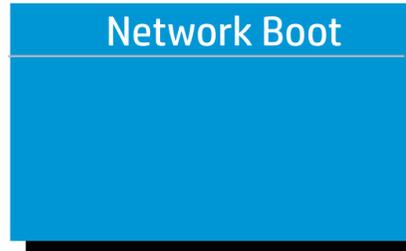


POST Hotkey Delay  
 USB Boot  
 Network Boot  
 Network Boot Protocol  
 Legacy Support  
 Security Boot  
 Platform Key  
 Pending Action  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

[Enabled]  
**[Disabled]**  
 [IPv4+IPv6 (UEFI)]  
 [Disabled]  
 [Enabled]  
 Enrolled  
 None

UEFI Boot Order

- ➔ OS Boot Manager
- USB Flash Drive/USB Hard Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor



Legacy Boot Order

- Internal Hard Drive
- USB Flash Drive/USB Hard Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor

Item Specific Help

Enable/Disable network boot during boot time.



POST Hotkey Delay  
 USB Boot  
 Network Boot  
 Network Boot Protocol  
 Legacy Support  
 Security Boot  
 Platform Key  
 Pending Action  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

[Enabled]  
 [Disabled]  
**[IPv4+IPv6 (UEFI)]**  
 [Disabled]  
 [Enabled]  
 Enrolled  
 None

UEFI Boot Order

- ➔ OS Boot Manager
- USB Flash Drive/USB Hard Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor

Network Boot Protocol

Legacy Boot Order

- Internal Hard Drive
- USB Flash Drive/USB Hard Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor

Item Specific Help

Select Network Boot Protocol using IPv4, IPv6 or IPv4+IPv6. When IPv4+IPv6 is selected, BIOS will use IPv4 first.



POST Hotkey Delay  
 USB Boot [Enabled]  
 Network Boot [Disabled]  
 Network Boot Protocol [IPv4+IPv6 (UEFI)]  
 Legacy Support  
 Security Boot [Enabled]  
 Platform Key Enrolled  
 Pending Action None  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

UEFI Boot Order  
 ➔ OS Boot Manager  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor



Legacy Boot Order  
 Internal Hard Drive  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Item Specific Help

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. System might be unable to boot into operating system after changing this setting.



POST Hotkey Delay  
 USB Boot [Enabled]  
 Network Boot [Disabled]  
 Network Boot Protocol [IPv4+IPv6 (UEFI)]  
 Legacy Support  
 Security Boot [Enabled]  
 Platform Key Enrolled  
 Pending Action None  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

UEFI Boot Order  
 ➔ OS Boot Manager  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Legacy Boot Order  
 Internal Hard Drive  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Item Specific Help

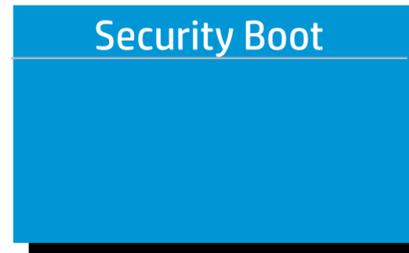
When Legacy Support is enabled, BIOS will load Compatibility Support Module (CSM) to support Legacy OS such as Windows 7, Windows Vista, Windows XP and DOS. When Legacy Support is disabled BIOS will boot in UEFI Mode without CSM to support newer OS such as Windows 8. System might be unable to boot into operating system after changing this setting.

Changing this setting may make the system unable to boot the OS. Do you want to make this change?



POST Hotkey Delay  
 USB Boot [Enabled]  
 Network Boot [Disabled]  
 Network Boot Protocol [IPv4+IPv6 (UEFI)]  
 Legacy Support  
 Security Boot **[Enabled]**  
 Platform Key Enrolled  
 Pending Action None  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

UEFI Boot Order  
 ➔ OS Boot Manager  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor



Legacy Boot Order  
 Internal Hard Drive  
 USB Flash Drive/USB Hard Drive  
 USB CD/DVD ROM Drive  
 1 Network Adaptor

Item Specific Help

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.



POST Hotkey Delay  
 USB Boot [Enabled]  
 Network Boot [Disabled]  
 Network Boot Protocol [IPv4+IPv6 (UEFI)]  
 Legacy Support  
 Security Boot [Enabled]  
 Platform Key Enrolled  
 Pending Action None  
 [Clear All Secure Boot Keys]  
 Load HP Factory Default Keys  
 Load MSFT Debug Policy Keys

UEFI Boot Order

- ➔ OS Boot Manager
- USB Flash Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor

Changing all Secure Boot Keys will disable Secure boot. Please enter the pass code displayed below to complete the action or press the ESC key to cancel.

Legacy Boot Order

- Internal Hard Drive
- USB Flash Drive/USB Hard Drive
- USB CD/DVD ROM Drive
- 1 Network Adaptor

Item Specific Help

Clears all secure boot keys and certificates from secure boot databases. This option disables secure boot.



Item Specific Help