

# Interactive BIOS simulator

## HP EliteBook x360 830 G5

Welcome to the interactive BIOS simulator for the  
HP EliteBook x360 830 G5

### 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

Advanced

UEFI Drivers



Item Specific Help

Suppress POST Errors

Help



BASIC SYSTEM INFORMATION

Product Name	HP EliteBook x360 830 G5
Processor 1	Intel(R) Core(TM) i3-8130U CPU @ 2.20GHz
Memory Size	16384 MB
System BIOS	R77 Ver. 80.20.00 11/12/2018

SERVICE -----

Born On Date	00/00/0000
Serial Number	000847007W
SKU Number	1234567#ABA
Universally Unique Identifier (UUID)	4A750CD9-2129-41FF-C5DA-3BD76ACE98F1
Asset Tracking Number	000847007W

Help

Item Specific Help



ADVANCED SYSTEM INFORMATION

Product Name	HP EliteBook x360 830 G5
Memory Size	16384 MB
Storage Device	WDC PC SN720 SDAPNTW-1T00-1006-184386800360 (1024 GB)

PROCESSOR 1 -----

ProcessorType	Intel(R) Core(TM) i3-8130U CPU @ 2.20GHz
Cache Size (L1/L2/L3)	128 KB / 512 KB / 4 MB
Processor Speed	2600 MHz
Processor Cores	2
MicroCode Revision	84
Processor Stepping	A
Memory Speed	2400 MHz
Bottom-Slot 1(left)	8 GB Kingston
Bottom-Slot 2(right)	8 GB Hynix/Hyundai

Help

Item Specific Help



FIRMWARE -----

System BIOS	R77 Ver. 80.20.00 11/12/2018
ME Firmware Version	11.8.60.355
Audio Controller	Realtek ALC3294
Video BIOS Version	Intel(R) GOP Driver [9.0.1080]
Reference Code Revision	3.3.1
Embedded Controller Firmware Version	53.15.30
USB Type-C Controller(s) Firmware Version:	CCG5 : 7.6.0

Item Specific Help



SERVICE -----

Born On Date	00/00/0000
Serial Number	000847007W
SKU Number	1234567#ABA
Universally Unique Identifier (UUID)	4A750CD9-2129-41FF-C5DA-3BD76ACE98F1
Asset Tracking Number	000847007W
Feature Byte	3X476J6Sb7B7H7M7R7W7maBapaqauawb8bVbhcAdUdpdqfAfXgdguhKhkjh.4F
Build ID	18WWORAT6ah#SABA#DABA
Product Family	103C_5336AN HP EliteBook x360
System Board ID	853D
System Board CT Number	1062E589600BXX
Primary Battery Serial Number	00259 2018/11/16

Item Specific Help



# HP PC Hardware Diagnostics UEFI

Please select a Language.

English

Cestina

Dansk

Deutsch

Nederlands

Espanol

eesti keel

Suomi

Francais

Hrvatski

Magyar







BIOS Event Log

Clear BIOS Event Log on Next Boot

Help

Item Specific Help



# Export BIOS Audit Log to USB Key

View BIOS Event Log

Date	Time	Description
-----		

No events have been logged.



## Export to USB Key

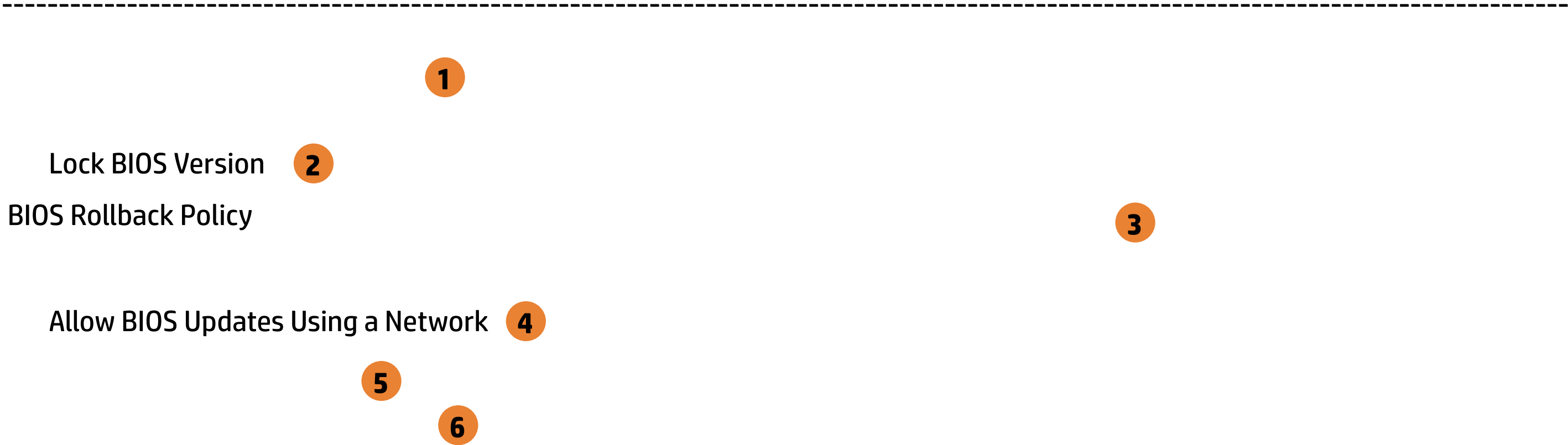
---

The file cannot be accessed. Please insert a USB storage device and try again.



Update System BIOS

Current System BIOS Version:	R77 Ver. 80.20.00
Current BIOS Release Date:	11/12/2018
Installation Date of Current BIOS:	11/26/2018
Most Recent Update Check:	Never Checked



Item Specific Help

- 1. Check HP.com for BIOS Updates**  
Checks for the latest BIOS release revision on the network, and lets the user decide whether to download the BIOS image and update System.
- 2. Lock BIOS Version**  
If not selected, then BIOS updates are allowed, if selected then updates to BIOS are not allowed.
- 3. Click on the field to see the options.*
- 4. Allow BIOS Updates Using a Network**  
Enable/Disable automatic BIOS updates through the network in a scheduled basis.
- 5. BIOS Update Preferences**  
Sets the configurations to perform BIOS updates through the network.
- 6. Network Configuration Settings**  
Configure network settings to be used for download and upload.



# Network BIOS Update

---

MS Windows Bitlocker Drive Encryption (BDE) may be enabled on your system. HP requires that BDE be suspended temporarily before the BIOS is flashed and that you obtain your BDE recovery password or recovery PIN before suspending BDE. After the BIOS is updated, BDE can be resumed.



BIOS Update Preferences

Check for Update on Next Reboot 1

BIOS Source

2

Automatic BIOS Update Setting

3

BIOS Update Frequency

4

Item Specific Help

- 1. Check for Update on Next Reboot**  
Enable/Disable an automatic BIOS check on next reboot.
- 2. BIOS Source**  
Choose one of the available options.  
*Click on the field to see the options.*
- Automatic BIOS Update Setting**  
Choose one of the available options.  
*Click on the field to see the options.*
- 3. BIOS Update Frequency**  
Choose one of the available options.



Network Configuration Settings

Proxy Server **1**

**2**

IPv4 Configuration

- ➔ [IPv4 Subnet Mask](#)
- ➔ [IPv4 Gateway](#)

**3**

DNS Configuration

**4**

Data transfer timeout

Force HTTP no-cache **5**

Item Specific Help

- 1. Proxy Server**  
Enable/Disable the use of a proxy server.
- 2. Test Network Connection**  
Check the network connection using current BIOS update configuration.  
*Click on the field to see the options.*
- 3. IPv4 Configuration**  
Setup for static IPv4 address.  
*Click on the field to see the options.*
- 4. DNS Configuration**  
Configure a list of DNS addresses.
- 5. Force HTTP no-cache**  
Disable HTTP caching.

# Test Network Connection

---

Your network server connection is working.

IPV4 Configuration: Automatic  
IPV4 Address: 192.168.0.106  
IPV4 Subnet Mask: 255.255.255.0  
IPV4 Gateway: 192.168.0.1  
DNS Configuration: Automatic  
Primary DNS: 75.75.75.75  
Secondary DNS: 75.75.76.76  
MAC Address: 88-88-88-88-87-88

Current Proxy:  
Current Custom Source URL: HP.COM





Change Date And Time

Set Date (MM/DD/YYYY)  
Set Time (HH:MM):

03 / 14 / 2019  
22 : 13

Item Specific Help



Item Specific Help



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Feature Byte

Current Setting: 3X476J6Sb7B7H7M7R7W7maBapaqauawb8bVbhcAdUdpdqfAfXgdguhKhkjh.4F



---

Build ID

Current Setting: 18WWORAT6ah#SABA#DABA

Press the space key followed by the enter key to clear current setting



---

Serial Number

Current Setting: 000847007W

Press the space key followed by the enter key to clear current setting



---

SKU Number

Current Setting: 1234567#ABA

Press the space key followed by the enter key to clear current setting



---

Product Family

Current Setting: 103C\_5336AN HP EliteBook x360

Press the space key followed by the enter key to clear current setting



---

System Board CT Number

Current Setting: 1062E589600BXX

Press the space key followed by the enter key to clear current setting





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Product Name

Current Setting: HP EliteBook x360 830 G5

Press the space key followed by the enter key to clear current setting



System IDs

Item Specific Help

Help



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Asset Tracking Number

Current Setting: 000847007W

Press the space key followed by the enter key to clear current setting



---

Ownership Tag

Current Setting:

Press the space key followed by the enter key to clear current setting



Replicated Setup

Item Specific Help

Help

# Replicated Setup

---

The file cannot be accessed. Please insert a USB storage device and try again.

# Replicated Setup

---

The file cannot be accessed. Please insert a USB storage device and try again.



Are you sure you want to save custom defaults and exit?

Item Specific Help





Are you sure you want to apply custom defaults and exit?

Item Specific Help



Are you sure you want to apply factory defaults and exit?

Item Specific Help



Are you sure you want to ignore changes and exit?

Item Specific Help



Are you sure you want to save changes and exit?

Item Specific Help



# Security

HP Computer Setup

## Administrator Tools

1

Fingerprint Reset on Reboot

## Security Configuration

Physical Presence Interface 2

Intel Software Guard Extension (SGX)

3

## Utilities

Absolute® Persistence Module Current State

Activation Status : Inactive

Absolute® Persistence Module Permanent Disable : No

System Management Command

### Item Specific Help

#### 1. Create BIOS Administrator Password

The Administrator password controls access to the following features:

- Setup Menu (F10)
- 3rd Party Option ROM Management (F3)
- Update System ROM
- WMI Commands that change system settings
- BIOS Configuration Utility (BCU)
- Alternative Power-On Password

#### 2. Physical Presence Interface

When this feature is set to “Enable”, then the user is notified on system power up when changes are made to system security policy, and the user must manually agree to those changes before the change is confirmed

#### 3. Intel Software Guard Extensions (SGX)

Enable/Disable Software Guard Extensions (SGX)

Help



# BIOS Administrator Password

---

Enter BIOS Administrator Password



# POST Power-On Password

---

Enter POST Power-On Password



# Security

HP Computer Setup

TPM Embedded Security

TPM Specification Version 2.0

TPM Device 1

TPM State 2

Clear TPM

TPM Activation Policy

## Item Specific Help

**1. TPM Device**  
Exposes the integrated Trusted Platform Module (TPM) for use.  
*Click on the field to see the options.*

**TPM State**  
Enables the integrated Trusted Platform Module (TPM).





## BIOS Sure Start

Verify Boot Block on every boot

## BIOS Data Recovery Policy

Dynamic Runtime Scanning of Boot Block

Sure Start BIOS Settings Protection **1**

Sure Start Secure Boot Keys Protection

Enhanced HP Firmware Runtime Intrusion Prevention and Detection **2**

## Sure Start Security Even Policy

## Sure Start Security Event Boot Notification

**3**

### Item Specific Help

#### 1. Sure Start BIOS Settings Protection

When enabled, HP Sure Start will lock all critical BIOS settings and provide enhanced protection for these settings via the HP Sure Start non-volatile (flash) memory

- The BIOS administrator credentials must be set to enable this setting
- See HP Sure Start documentation for details on which BIOS settings are protected

#### 2. Enhanced HP Firmware Runtime Intrusion Prevention and Detection

- Enables monitoring of HP system firmware executing out of main memory while the user Operating System is running.
- Any anomalies detected in HP System firmware that is active while the user operating system is running will result in a Sure Start Security Event being generated. *Click on the field to see the options.*

#### 3. Sure Start Security Event Policy

This setting controls HP Sure Start behavior upon identifying a critical security event (any modification to HP firmware) during OS runtime.

- Log event only - HP Sure Start will log all critical security events in the HP Sure Start Audit log within the HP Sure Start non-volatile (flash) memory
- Log Event and notify user: In addition to logging all critical security events, HP Sure Start will notify the user within the operating system that a critical event has occurred
- Log Event and power off system: In addition to logging all critical events, HP Sure Start will power off the system upon detecting a HP Sure Start Security Event. Due to the potential for data loss, use of this setting is only recommended in situations where security integrity of the system is a higher priority than the risk of potential data loss



# Security

HP Computer Setup

## Secure Platform Management (SPM)

HP Sure Run Current State: Inactive

SPM Current State: Not provisioned

## Item Specific Help



Hard Drive Utilities

Save/Restore MBR of the system hard drive is only available with drives that have a Master Boot Record.

Save/Restore GPT of System Hard Drive **1**

Boot Sector (MBR/GPT) Recovery Policy

Allow OPAL Hard Drive SID Authentication

Item Specific Help

- 1. Save/Restore GPT of System Hard Drive**  
Enabling this feature will save the GUID Partition table (GPT) of the system Hard Drive. If the GPT is subsequently changed the user will be prompted to choose whether to restore GPT.



# Security

HP Computer Setup

Select a Drive

Item Specific Help

Help



# Security

HP Computer Setup

Select a Drive

Item Specific Help

Help



# Secure Erase

---

This operation will erase all data on the hard drive. Please make sure the computer is connected to AC power during this process.



# Restore Security Settings to Factory Defaults

---

Are you sure you want to restore security settings to default?



1

Remote HP PC Hardware Diagnostics

2

3

#### Item Specific Help

##### 1. Port Options

Enable/Disable Port Settings

##### 2. Settings

Set the configuration for Remote HP PC Hardware Diagnostics, including the URLs used for download and upload, the scheduled execution frequency, etc.

##### Execute Remote HP PC Hardware Diagnostics

Immediate execution of Remote HP PC Hardware Diagnostics based on the configurations is Settings option. Note that any unsaved BIOS settings are lost.





# Advanced

HP Computer Setup

Display Language

Select Language

Select Keyboard Layout

Item Specific Help



# Advanced

HP Computer Setup

## Scheduled Power-On

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Hour 0  
Minute 0

## Item Specific Help



# Advanced

HP Computer Setup

## Boot Options

### Startup Delay (sec.)

- Fast Boot
- USB Storage Boot
- Network (PXE) Boot
- Power On When AC Detected
- Power On When Lid is Opened
- Prompt on Battery Errors
- Prompt on Memory Size Change
- Prompt on Fixed Storage Change
- Audio Alerts During Boot
- NumLock on at boot
- UEFI Boot Order

M.2: Windows Boot Manager  
USB:  
Network Boot:IPV4  
Network Boot:IPV6

### Legacy Boot Order

USB:  
M.2 WDC PC SN720 SDAPNTW-1T00-1006-18438680036  
NETWORK BOOT:PXE

## Item Specific Help



# Advanced

HP Computer Setup

## HP Sure Recover

- HP Sure Recover 1
- Recover from Network 2
- Recover after Boot Failure 3

### Recover Agent

URL: ftp://ftp.hp.com/pub/pcbios/CPR  
Username:  
Provisioning Version: 0

### Recovery Image

URL:  
Username:  
Provisioning Version: 0

### Item Specific Help

- 1. HP Sure Recover**  
If this setting is enabled, the system firm-ware will honor local and remote requests to reinstall the OS. If it is disabled, all requests to reinstall the OS will be ignored.
- 2. Recover from Network**  
If this setting is enabled, the system firm-ware will obtain the recovery agent from the network. Otherwise, the system firmware will obtain the recovery agent from a local drive.
- 3. Recover after Boot Failure**  
If this setting is enabled and no bootable UEFI OS is found, the system firmware will launch HP Sure Recover.



# Advanced

HP Computer Setup

## Secure Boot Configuration

### Configure Legacy Support and Secure Boot

#### Secure Boot Key Management

Import Custom Secure Boot keys

Clear Secure Boot keys

Reset Secure Boot keys to factory defaults

Enable MS UEFI CA key

Access to the above settings requires Sure Start Secure Boot Keys Protection to be disabled

#### Ready BIOS for Device Guard Use

Requires BIOS Administrator credentials to be configured and Secure Boot to be enabled.

#### Item Specific Help



# Advanced

HP Computer Setup

## System Options

Turbo-Boost

Hyperthreading **1**

Multi-processor

Hyperthreading and Multi-processor has been enabled and grayed out because Deep sleep is set to On.

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

Fast Charge

## Power Button Protection

USB Type-C Connector System Software Interface (UCSI) **3**

Special Keys mapped to Fn + keypress

Swap Fn and Ctrl (Keys) **4**

Enable Turbo Boost on DC

Dynamic Platform and Thermal Framework (DPTF)

**2**

### Item Specific Help

- 1. Hyperthreading**  
Permits the user to control the processor capability
- 2. Power Button Protection**  
This feature ensures that unintentional activation of the power button while it is being transported in a bag does not cause the system to wake up.  
  
On Battery Only: Power button is only disabled when the lid is closed, the system is in a low power state, and no power external power source is present.  
  
Always: Power button is always disabled when the lid is closed.  
  
Never: Power button is enabled always when this lid is closed.
- 3. USB Type-C Connector System Software Interface (UCSI)**  
The UCSI option should be disabled if booting a Microsoft Windows 10 version before 1709 to avoid system stability issues.
- 4. Special Keys mapped to Fn + keypress**  
Fn+R. Fn+S. Fn+C, Fn+ W, Fn+E will worked as Break. Sys Rq, Scroll Lock, pause, insert if no legacy keys when enabled



# Advanced

HP Computer Setup

## Built-In Device Options

### Video memory size

- Audio Device
- Microphone
- Internal Speakers
- Headphone Output
- Lock Wireless Button
- Wireless Network Device (WLAN)
- Bluetooth
- Mobile Network Device (WWAN) and GPS Combo Device

### HP LAN-Wireless Protection

- LAN/WLAN Auto Switching
- LAN/WWAN Auto Switching
- Fan Always on while on AC Power
- Boost Converter

### Backlist keyboard timeout

- Integrated Camera
- Fingerprint Device
- Touch Device
- NFC

### Disable battery on next shut down

## Item Specific Help



# Advanced

HP Computer Setup

## Port Options

Left USB Ports

Right USB Ports

USB Legacy Port Charging

Disable Charging Port

in sleep/off if battery below (%): 10

Smart Cards

Smart Card Power Savings

Thunderbolt Type-C Ports

Thunderbolt Mode

Require BIOS PW to change Thunderbolt Security

## Level

Thunderbolt Security Level

Native PCIe Hot Plug

Thunderbolt S4 Boot is disable due to Native PCIe Hot Plug enabled

## Item Specific Help





# Advanced

HP Computer Setup

Option ROM Launch Policy

Configure Option ROM Launch Policy

1

## Item Specific Help

- 1. Configure Option ROM Launch Policy**  
Configure the launching of EFI versus Legacy Option ROM's



# Advanced

HP Computer Setup

## Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

Deep Sleep

Power control

Battery Health Manager

### Item Specific Help

- 1. Runtime Power Management**  
Enables Runtime Power Management.
- 2. Extended Idle Power States**  
Increases the OS's Idle Power Savings.



# Advanced

HP Computer Setup

Electronic Labels

Item Specific Help



# Advanced

HP Computer Setup

MAC Address Pass Through

Host Based MAC Address

## Item Specific Help

### 1. Port Options

Enable/Disable Port Settings

### 2. Settings

Set the configuration for Remote HP PC Hardware Diagnostics, including the URLs used for download and upload, the scheduled execution frequency, etc.

### 3. Execute Remote HP PC Hardware Diagnostics



# Configure Factory/System MAC Address

---

Current Factory : 10-62-ES-89-60-0B

Current System : 10-62-ES-89-60-0B

Examples:

1234567890AB

12-34-56-78-90-AB

Writes blank to clear the MAC address

The Second Byte must be even digit, either 0, 2, 4, 6, 8, A, C or E

Press ESC to CANCEL

Type the System MAC Address and press ENTER to SAVE



# Advanced

HP Computer Setup

## Settings

Diagnostics Download URL

1

2

Diagnostics Logs Upload URL

3

4

5

Scheduled Execution

6

Frequency

7

Execute On Next Boot

8

9

### Item Specific Help

#### 1. Diagnostics Download URL

Select between HP server URL and a custom server URL.

#### 2. Custom Download Address

Configure a URL for HP PC Hardware diagnostics download.

#### 3. Custom Upload Address

Configure a URL for diagnostics logs upload.

#### 4. Username

Configure the username for uploading diagnostics logs to the server, if authentication is required.

#### 5. Password

Configure the password for uploading diagnostics logs to the server, if authentication is required.

#### 6. Schedule Execution

Enable/disable the schedule execution of Remote HP PC Hardware Diagnostics

#### 7. Frequency

Select the frequency for scheduled execution of Remote HP PC Hardware Diagnostics.

#### 8. Execute On Next Boot

Enable/disable the execution on next boot. The flag will be disabled after the diagnostics have run.

#### 9. Last Execution Result

Displays the results of the last Remote HP PC Hardware Diagnostics execution.



# Custom Download URL

---

There is no Custom Download URL configured.  
Type a new Custom Upload URL and press ENTER to save.  
Press ESC to CANCEL



# Custom Upload URL

---

There is no Custom Upload URL configured.  
Type a new Custom Upload URL and press ENTER to save.  
Press ESC to CANCEL





# Custom Server Username

---

There is no Username configured.  
Type a new Username and press ENTER to save.  
Press ESC to CANCEL



# Custom Server Password

---

There is no Upload Server Password configured.  
Type a new Upload Server Password and press ENTER to save.  
Press ESC to CANCEL



# Remote PC Hardware Daignostics Result

---

Remote HP PC Hardware Daignostics was never executed.



# Advanced

HP Computer Setup

Remote HP PC Hardware Diagnostics

Status of last attempted to execute: Could not detect network line or network cable is unplugged.

Item Specific Help



# UEFI Drivers

HP Computer Setup

This will restart the system into the 3rd Party Option ROM Management application. You can get to this application directly by pressing F3 during startup.

Item Specific Help