

# Interactive BIOS simulator

## HP Z2 Mini G4 Workstation

Welcome to the interactive BIOS simulator for the  
HP Z2 Mini G4 Workstation

### 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

Supress Post Errors



BASIC SYSTEM INFORMATION

Product Name	HP Z2 Mini G4 Workstation
Processor 1	Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz
Memory Size	16384 MB DDR4 @ 2667 MHz
System BIOS	Q50 Ver. 00.31.03 03/15/2018

SERVICE -----

Serial Number	HPEW308130
SKU Number	3AQ05AV
Universally Unique Identifier (UUID)	1601D6B1-9264-FDC5-6633-79A8636EA3AE
Asset Tracking Number	HPEW308130

Item Specific Help



Item Specific Help

Product Name

HP Z2 Mini G4 Workstation

Memory Size

16384 MB DDR4 @ 2667 MHz

PROCESSOR 1 -----

ProcessorType

Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz

Cache Size (L1/L2/L3)

384 KB / 1536 KB / 12 MB

Processor Speed

3200 MHz

MicroCode Revision

84

Processor Stepping

A

Memory Speed

2667 MHz

DIMM1

16 GB Micron

DIMM1

Empty



Item Specific Help

FIRMWARE -----

System BIOS	Q50 Ver. 00.31.03 03/15/2018
ME Firmware Version	12.0.0.1059
ME Firmware Mode	Enabled
Video BIOS Version	nVidia GP107 Board(86.07.4A.00.3E)
Reference Code Revision	7.0.1C.58
Super I/O Firmware Version	7.7.3



Item Specific Help

SERVICE -----

Serial Number	HPEW308130
SKU Number	3AQ05AV
Universally Unique Identifier (UUID)	1601D6B1-9264-FDC5-6633-79A8636EA3AE
Asset Tracking Number	HPEW308130
Feature Byte	3X476J6S6b727N7Q7T7U7W8HaUaXapaqaubhdUdpdqedfJ.54
Build ID	18WWCMAT6al#SABA#DABA
Product Family	103C_53335X HP Workstation
System Board ID	8458
System Board CT Number	PGVQVXACYAKB28

COMMUNICATION -----

Integrated MAC Address 1	3C-52-82-66-2D-47
--------------------------	-------------------



# HP PC Hardware Diagnostics UEFI

Please select a Language.

- Cestina
- Dansk
- Deutsch
- Nederlands
- Espanol
- eesti keel
- Suomi
- Francais
- Hrvatski
- Magyar







# HP PC Hardware Diagnostics UEFI

Version 6.6.0.0

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



System Tests

Component Test

Test Logs

Languages



# HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics UEFI - Version 6.6.0.0

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# System Information

Manufacturer	HP
Model	HP Z2 Mini G4 Workstation
System ID	8458
Processor Type	Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz
Current Processor speed	3200 MHz
Memory Size	16384 MB DDR4 @ 2667 MHz
BIOS Date	03/15/2018
BIOS Version	Q50 Ver. 00.31.03
Serial Number	HPEW308130
Asset Tracking Number	HPEW308130
Operating System Image	18WWCMAT6al#SABA#DABA





# Memory Information

DIMM:	Device Locator	DIMM1
	Manufacturer	MICRON
	Serial Number	-----
	Part Number	-----
	Memory Size	16384 MB DDR4 @ 2667 MHzA
	Max Memory Speed	2133 MHz
	Memory Clock Speed	2133 MHz
	Memory Type	DDR4
	Type Deatail	Synchronous
DIMM:	Device Locator	DIMM2
	Not Installed	





# Hard Drive Information

HDD 1:	Type	SATA
	Model	HGST HTS721010A9E630
	Firmware Version	01.01
	Serial Number	-----
	Capacity	1 TB
	LBA48	Supported
	SMART	Enabled
	Sector Type	4k/512e





# Optical Drive Information

No optical drive detected or the system does not provide support for an optical drive. If the system does provide support for an optical drive, please check that the power and data cables are connected properly.





Exiting...

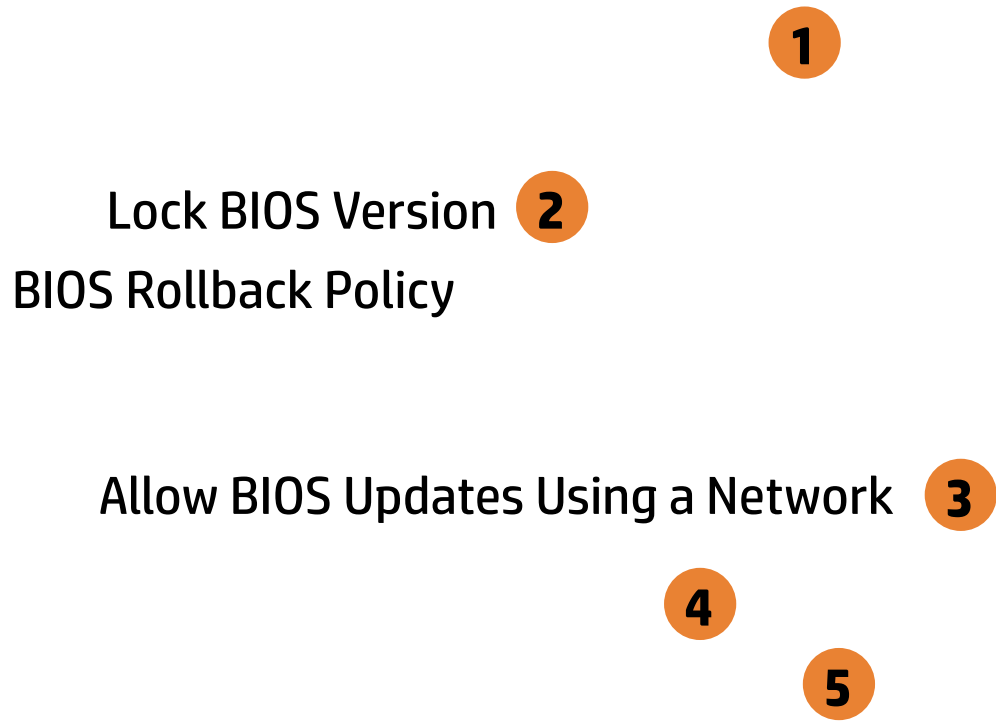
Are you Sure?

No



Update System BIOS

Current System BIOS Version:	Q50 Ver. 00.31.03
Current BIOS Release Date:	03/15/2018
Installation Date of Current BIOS:	03/23/2018
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. Allow BIOS Updates Using a Network**  
Enable/Disable automatic BIOS updates through the network in a scheduled basis.
- 4. BIOS Update Preferences**  
Sets the configurations to perform BIOS updates through the network.
- 5. Network Configuration Settings**  
Configure network settings to be used for download and upload.





Network Configuration Settings

Proxy Server 1

2

IPv4 Configuration

3

DNS Configuration

4

Data transfer timeout

100

5

Force HTTP no-cache 6

Item Specific Help

- 1. Proxy Server**  
Enable/Disable the use of a proxy server.
- 2. Edit Proxy Server**  
Specify the Proxy Server Address and the Port Number through the common-use <server>:<port> notation.
- 3. Test Network Connection**  
Check the network connection using current BIOS update configuration.  
*Click on the field to see the options.*
- 4. IPv4 Configuration**  
Setup for static IPv4 address.  
*Click on the field to see the options.*
- 5. DNS Configuration**  
Configure a list of DNS addresses.
- 6. Force HTTP no-cache**  
Disable HTTP caching.



# Test Network Connection Failed

---

An error has occurred with your network connection. Please see the error message below.

IPv4 Configuration: Automatic

IPv4 Address:

IPv4 Subnet Mask:

IPv4 Gateway:

DNS Configuration: Automatic

Primary DNS:

Secondary DNS:

MAC Address:

Current Proxy:

Current Customer Source URL: HP.com

Error: Could not detect network link or network cable is unplugged.



Help



# Configure Proxy Address

---

There is no Proxy URL Configured.

Provide the Proxy URL and (option) Port Number if your system is on a network that requires proxy access.

Examples:

proxy.host.com:8088

proxy.host.com

192.168.0.1:8088

Press ESC to CANCEL

Type the PROXY URL with optional Port Number and press ENTER or SAVE

Help



# Configure IPv4 Address

---

There is no static IPv4 Address configured

Provide the static IPv4 Address if your system needs manual network configuration.

Example:

192.202.145.23

192.168.0.48

192.3.78.200

Do not forget to configure the other items of IPv4 Configuration: IPv4 Subnet Mask and IPv4 Gateway

Press ESC to CANCEL

Type the IPv4 ADDRESS and press ENTER to SAVE

Help



# Configure IPv4 Subnet Mask

---

There is no static IPv4 Subnet Mask address configured.

Provide the static IPv4 Subnet Mask address if your system needs manual network configuration.

Example:

255.255.255.254

255.255.255.240

255.255.255.0

Do not forget to configure the other items of IPv4 Configuration: IPv4 Address and IPv4 Gateway

Press ESC to CANCEL

Type the IPv4 SUBNET MASK address and press ENTER to SAVE

Help



# Configure IPv4 Gateway

---

There is no static IPv4 Gateway address configured.

Provide the static IPv4 Gateway address if your system needs manual network configuration.

Example:  
192.202.145.250  
192.168.0.247  
192.3.78.230

Do not forget to configure the other items of IPv4 Configuration: IPv4 Address and IPv4 Subnet Mask

Press ESC to CANCEL  
Type the IPv4 GATEWAY address and press ENTER to SAVE



# Configure DNS Addresses

---

There is no DNS address configured.

Provide one or more DNS addresses if your system is on a network that requires a DNS server.

Example:

192.168.0.245

192.5.43.250

192.67.9.220, 192.145.32.222, 192.8.39.247

Press ESC to CANCEL

Type the DNS SERVER ADDRESSES between commas and press ENTER to SAVE

Help



# System BIOS Update

---

The system could not find one of the BIOS Update binary files. Please make sure the correct BIN file is located on the system hard drive or on removable USB Key under the “HP\BIOS\New” folder or under the “EFI\HP\BIOS\New” folder. It must also be placed under the “HP\BIOS\Previous” folder or under the “EFI\HP\BIOS\Previous” folder.



Help





# 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.



Help



# Network BIOS Update

---



Could not detect network link or network cable is unplugged



30

Help



# Minimum BIOS Version

---

Current Minimum BIOS Version 00.00.00

Minimum BIOS Version

Help



BIOS Update Preferences

Check for Update on Next Reboot 1

BIOS Source 2

3

Automatic BIOS Update Setting

4

BIOS Update Frequency 5

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.*
- 3. Edit Custom URL**  
Specify a custom BIOS update address
- 4. Automatic BIOS Update Setting**  
Choose one of the available options.  
*Click on the field to see the options.*
- 5. BIOS Update Frequency**  
Choose one of the available options.



# Configure Update Source

---

There is no custome URL Configured

BIOS Update source can be changed to a CUSTOM URL instead of HP.com.  
This is only recommended for systems in a managed IT environment

Examples:

http://www.host.com/path

ftp://ftp.host.com/path

ftp://user:password@ftp.host.com/path

http://192.168.0.1/path

Press ESC to CANCEL

Type the CUSTOM URL for BIOS update checks via network and Press ENTER to SAVE

Help



Change Date And Time

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

07 / 39 / 2018  
20 : 35

Item Specific Help



Item Specific Help



Feature Byte

Current Setting: 3X476J6S6b727N7Q7T7U7W8HaUaXapaqaubhdUdpdqedfJ.54

Help





---

Build ID

Current Setting: 18WWCMAT6al#SABA#DABA

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

Help



Serial Number

Current Setting: HEPW308130

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

Help



---

SKU Number

Current Setting: 3AQ05AV

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

Help



---

## Product Family

Current Setting: 103C\_53335X HP Workstation

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

Help



System Board CT Number

Current Setting: PGVQVXACYAKB28

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

Help



---

Product Name

Current Setting: HP Z2 Mini G4 Workstation

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

Help



System IDs

Item Specific Help



---

Asset Tracking Number

Current Setting: HPEW308130

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

Help





Ownership Tag

Current Setting:

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



Replicated Setup

Item Specific Help



# Replicated Setup

---

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



Help



# Replicated Setup

---

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



Help



Are you sure you want to save your current settings as custom defaults

Item Specific Help

Help



Are you sure you want to restore defaults and exit?

Item Specific Help

Help



Are you sure you want to apply settings and exit?

Item Specific Help

Help



Are you sure you want to ignore changes and exit?

Item Specific Help

Help





# Security

HP Computer Setup

Administrator Tools

1

Security Configuration

Physical Presence Interface 2

Trusted Execution Technology (TXT)

TXT cannot be enabled unless VTx. VTd and TPM are enabled first.

Intel Software Guard Extension (SGX)

Utilities

Absolute® Persistence Module Current State

Activation Status : Inactive

Absolute® Persistence Module Permanent Disable : No

System Management Command

3

## 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

Help



# POST Power-On Password

---

Enter POST Power-On Password

Help



## Password Policies

- At least one symbol is required in Administrator and User password
- At least one number is required in Administrator and User password
- At least one upper case character is required in Administrator and User password
- At least one lower case character is required in Administrator and User password
- Are spaces allowed in Administrator and User password?

## Clear Password Jumper

- Prompt Admin password on F9 (Boot Menu)
- Prompt Admin password on F11 (System Recovery)
- Prompt Admin password on F12 (Netword Boot)
- Prompt Admin password on Capsule Update

1

### 1. Clear Password Jumper

Are Clear Password Jumper Honored?



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**

#### 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

➔ [Deactivate HP Sure Run](#)

SPM Current State: Not Provisioned

➔ [Unprovisioned SPM](#)

## 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



# 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.

Continue

Help



## DriveLock Security Options

- ➔ [Set DriveLock Master Password](#)
- ➔ [Enable DriveLock](#)

The DriveLock Master and User passwords cannot be changed if you enable Automatic DriveLock or it was already enabled.

### Item Specific Help

#### 1. Automatic DriveLock

In Automatic DriveLock, your BIOS Administrator password is the DriveLock Master password, and the BIOS generates the DriveLock User Password. If you enable Automatic DriveLock on a drive, you will need to use your BIOS Administrator password to unlock the drive if it is placed in another system.

#### 2. Set DriveLock Master Password

Sets the drive's Master password, but it does not enable DriveLock.

#### 3. Enable DriveLock

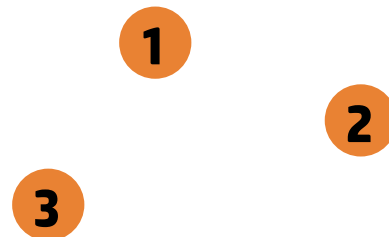
Sets the drive's User password and enables DriveLock.



# Security

HP Computer Setup

## DriveLock Security Options



The DriveLock Master and User passwords cannot be changed if you enable Automatic DriveLock or it was already enabled

Help

### Item Specific Help

#### 1. Automatic DriveLock

In Automatic DriveLock, your BIOS Administrator password is the DriveLock Master password, and the BIOS generates the DriveLock User Password. If you enable Automatic DriveLock on a drive, you will need to use your BIOS Administrator password to unlock the drive if it is placed in another system.

#### 2. Set DriveLock Master Password

Sets the drive's Master password, but it does not enable DriveLock.

#### 3. Enable DriveLock

Sets the drive's User password and enables DriveLock.



# Security

HP Computer Setup

Select a Drive

Item Specific Help

Help



# Set DriveLock Password

---

Please exercise caution when using DriveLock.  
Losing the passwords will render a drive premanently unusable.

Please be aware these settings take place immediately: save not necessary.

Enter DriveLock Master Password.

Help



# Set DriveLock User Password

---

Please exercise caution when using DriveLock.  
Losing the passwords will render a drive premanently unusable.

Please be aware these settings take place immediately: save not necessary.

Enter DriveLock User Password.

Help



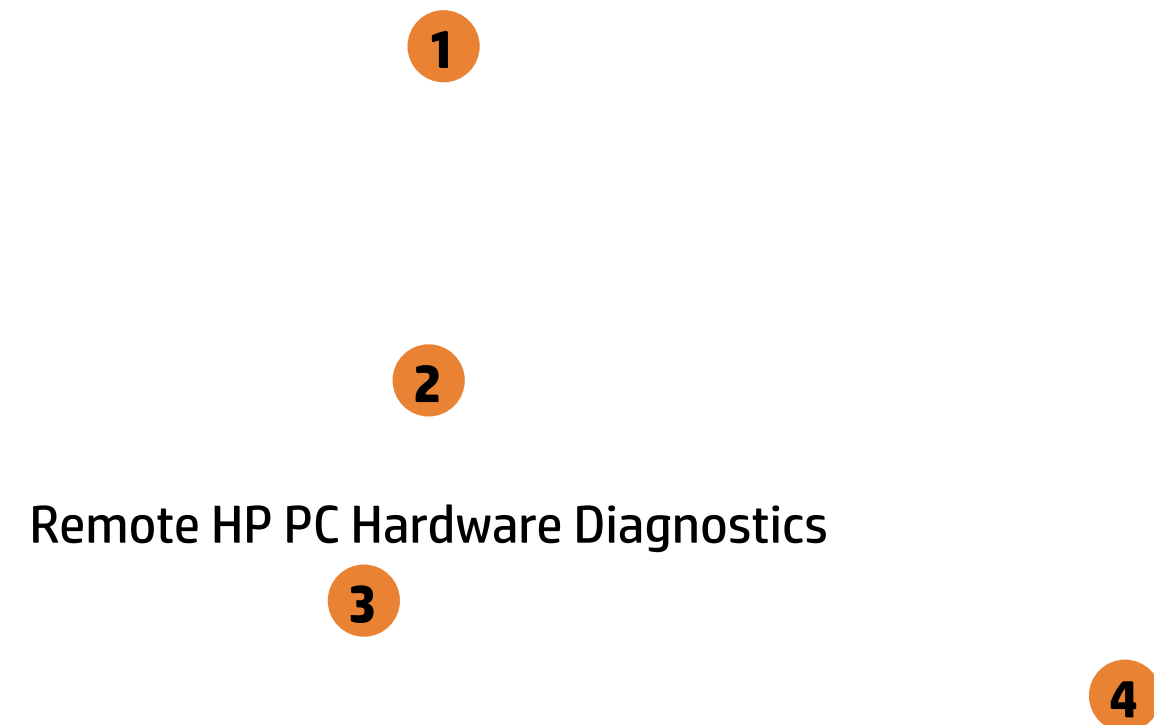
# Restore Security Settings to Factory Defaults

---

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

Help





## Item Specific Help

### 1. Port Options

Enable/Disable Port Settings

### 2. Slot Settings

Provide slot settings control on a per slot basis

### 3. Settings

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

### 4. Execute Remote HP PC Hardware Diagnostics

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



# Advanced

HP Computer Setup

Display Language

Select Language

Select Keyboard Layout

Item Specific Help

Help



Scheduled Power-On

Sunday 1

Monday 1

Tuesday 1

Wednesday 1

Thursday 1

Friday 1

Saturday 1

Hour 0  
Minute 0

Help

Item Specific Help

1. Sunday

Enable the days of the week to turn the system on. This feature wakes the system up from a powered off state.



# Advanced

Boot Options

Startup Delay (sec.)

Fast Boot

USB Storage Boot

Network (PXE) Boot

MemQual BIOS(For Test)

1

After Power Loss

Prompt on Memory Size Change

Prompt on Fixed Storage Change

Audio Alerts During Boot

NumLock on at boot

UEFI Boot Order

2

M.2 SSD0: Windows Boot Manger

USB:

SATA2: HGST HTS721010A9E630

NETWORK BOOT: IPV4 Network - Intel(R) Ethernet Connection (7) 1219-LM

NETWORK BOOT: IPV6 Network - Intel(R) Ethernet Connection (7) 1219-LM

Legacy Boot Order

Enable legacy boot, save settings & exit, then to setup

Item Specific Help

**1. MemQual BIOS (For Test)**  
MemQual BIOS Enable/Disable.

**2. Ater Power Loss**  
Determine the system’s state after power is lost to the unit.



HP Sure Recover

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

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

Help



# Advanced

HP Computer Setup

## System Options

Configure Storage Controller for RAID

POST Prompt for RAID Configuration

RST Remapping **1**

To support Intel RST Remapping, please set Option ROM Launch Policy to All UEFI or All UEFI Except Video

Turbo-Boost

Hyperthreading **2**

Multi-processor

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

Allow PCIe/PCI SERR# Interrupt

Power Button Override

### Item Specific Help

#### 1. RST Remapping

Intel RST Remapping.

#### 2. Hyper threading

Permits the user to control the processor capability.

Help



# Advanced

## Built-In Device Options

HP Computer Setup

Embedded LAN Controller

Wake on LAN

Dust Filter

Dust filter Reminder (Days)

Enable Intel graphics on DisplayPort port # 1

Enable Intel graphics on Flex IO port

Audio Device **1**

Microphone

Internal Speakers

Increase Idle Fan Speed (%)

M.2 USB / Bluetooth

LAN / WLAN Auto Switching

wake on WLAN

### Item Specific Help

#### 1. Audio Device

Hides the audio device from the OS.

Help





Port Options

- Rear USB Ports **1**
- Rear USB Port 1
- Rear USB Port 2
- Rear USB Port 3
- Left USB Ports **2**
- Left USB Port 1
- Left USB Port 2
- Left USB Port 3
- Left USB Port 1, 3 Charging
- Thunderbolt Mode
- SATA 0 **3**
- Restrict USB Devices

Item Specific Help

- 1. Rear USB Ports**  
Hides the rear USB port(s) from the OS.
- 2. Left USB Ports**  
Hides the Left USB port(s) from the OS.
- 3. SATA 0**  
Hides the SATA port from the OS.



# 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

Help



## Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

44/S5 Maximum Power Savings **3**

SATA Power Management

PCI Express Power Management **4**

Power On from Keyboard Ports **5**

Unique Sleep State Blink Rates

### Item Specific Help

#### 1. Runtime Power Management

Enables Runtime Power Management.

#### 2. Extended Idle Power States

Increases the OS's Idle Power Savings.

#### 3. S4/S5 Maximum Power Savings

Enabling this feature reduces the power of this system as much as possible in the S4/S5 state. Power is removed from the wake up circuitry, the expansion slots and any management features while in S4/S5.

#### 4. PCIe Express Power Management

Enabling this option permits the PCI Express links to use Active State Power Management (ASPM) to enter low power states while not in use.

#### 5. Power On from USB Ports

To wake-up system from Hibernation/Shut-down via keyboard.



# Advanced

HP Computer Setup

## Remote Management Options

Active Management (AMT)

USB Key Provisioning Support

USB Redirection Support

Unconfigure AMT on next boot

SOL Terminal Emulation Mode

Show unconfigure ME Confirmation Prompt

Verbose Boot Messages

Watchdog Timer **2**

OS Watchdog Timer (min.)

BIOS Watchdog Timer (min.)

CIRA Timeout (min.)

**1**

**3**

**4**

**5**

## Item Specific Help

- 1. Unconfigure AMT on next boot**  
Perform AMT/ME unconfigure without password operation.
- 2. Watchdog Timer**  
Enable/Disable WatchDog Timer.
- 3. OS watchdog Timer (min.)**  
set OS Watchdog timer (Minutes).
- 4. BIO Watchdog Timer (min.)**  
Set BIOS watchdog timer (minutes).
- 5. CIRA Timeout (min.)**  
Set CIRA Timeout (Minutes).



# Advanced

HP Computer Setup

## Slot Settings

MXM 1

M.2 SSD 2

M.2 WLAN 3

OCuLink 4

## Item Specific Help

- 1. MXM**  
Hides the slop from the OS.
- 2. M.2 SSD**  
Hides the slot from the OS.
- 3. M.2 SSD**  
Hides the slot from the OS.
- 4. OCUlink**  
Hides the slot from the OS.



# Advanced

HP Computer Setup

## Remote HP PC Hardware Diagnostics

Diagnostics Download URL

2

Diagnostics Logs Upload URL

3

4

5

Scheduled Execution

Frequency

Execute On Next Boot

1

6

7

8

Help

### 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. Scheduled Execution**  
Enable/disable the scheduled 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.



# Custom Download URL

---

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

a

Help



# Custom Upload URL

---

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

a

Help





# Custom Server Username

---

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

Help



# Remote HP PC Hardware Diagnostics Results

---

Remote HP PC Hardware Diagnostics was never executed.

Help



# 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

Help



# Remote HP PC Hardware Diagnostics Execution

---

Status of last attempt to execute: Could not detect network link or network cable is unplugged.

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

Help