

# Interactive BIOS simulator

## HP Engage One Pro AIO System

Welcome to the interactive BIOS simulator for the  
HP Engage One Pro AIO System

### **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



BASIC SYSTEM INFORMATION

Product Name	HP Engage One Pro AIO System
Processor 1	Intel(R) Pentium(R) Gold G6400E CPU @ 3.80GHz
Memory Size	16384 MB
System BIOS	S30 Ver. 80.30.00 08/06/2020

SERVICE -----

Born On Date	09/22/2020
Serial Number	8CN07600GZ
SKU Number	9UK26AV
Universally Unique Identifier (UUID)	E214D0C0E12EAD4F96E37E26D7B9C5F9
UUID (standard format)	COD014E2-2EE1-4FAD-96E3-7E26D7B9C5F9
Asset Tracking Number	

Item Specific Help

Help



Product Name HP Engage One Pro AIO System  
Memory Size 16384 MB  
Storage Devices SK hynix PC601 HFS256GD9TNG-L2A0A-NJ06Q630010107D5I (256 GB)

PROCESSOR 1 -----

ProcessorType Intel(R) Pentium(R) Gold G6400E CPU @ 3.80GHz  
Cache Size (L1/L2/L3) 128 KB / 512 KB / 4 MB  
Processor Speed 3800 MHz  
Processor Cores 2  
MicroCode Revision BE  
Processor Stepping 0  
Memory Speed 2400 MHz  
DIMM 1 8 GB Samsung  
DIMM 3 8 GB Samsung

Help

Item Specific Help



FIRMWARE -----

System BIOS	S30 Ver. 80.30.00 08/06/2020
ME Firmware Version	14.0.39.1339
ME Firmware Mode	Enable
Audio Controller	Realtek ALC3247
Video BIOS Version	Intel(R) GOP Driver [9.0.1107]
Reference Code Revision	9.0.3F.20
Super I/O Firmware Version	9.8.12
USB Type-C Controller(s) Firmware Version:	
	Head PD : 5.6.0

SERVICE -----

Born On Date	09/22/2020
Serial Number	8CN07600GZ
SKU Number	9UK26AV

Item Specific Help

Help



Universally Unique Identifier (UUID)	E214D0C0E12EAD4F96E37E26D7B9C5F9
UUID (standard format)	C0D014E2-2EE1-4FAD-96E3-7E26D7B9C5F9
Asset Tracking Number	
Feature Byte	3E3X476J6S6b7N7R7S7V7W7m8yapaq aub8bhcAdUdpdqfPhKjkh8mDmf.Af
Build ID	20WWTSAT6ay#SABA#DABA
Product Family	103C_5330US HP Engage One Pro
System Board ID	874F
System Board CT Number	10E7C6752B8EXX

COMMUNICATION -----

Integrated MAC Address 1	10-E7-C6-75-2B-8E
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Item Specific Help

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

Item Specific Help

Help



View BIOS Event Log

Date	Time	Description
------	------	-------------

-----

No event have been logged

Item Specific Help

Help



## Export to USB Key

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



Update System BIOS

Current System BIOS Version:	S30 Ver. 80.30.00
Current BIOS Release Date:	06/06/2020
Installation Date of Current BIOS:	09/19/2020
Most Recent Update Check:	Never Checked



- 1
- Lock BIOS Version 2
- Native OS Firmware Update Service
- BIOS Rollback Policy 3
- Allow BIOS Updates Using a Network 4
- 5
- 6

Help

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.



BIOS Update Preferences

Check for Update on Next Reboot **1**

BIOS Source

**2**

Automatic BIOS Update Setting

**3**

BIOS Update Frequency

**4**

Help

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

**3**

DNS Configuration

**4**

Data transfer timeout

100 **5**

Force HTTP no-cache **6**

Help

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.



Change Date And Time

Set Date (MM/DD/YYYY)

09 / 21 / 2020

Set Time (HH:MM):

19 : 13

Item Specific Help

Help

Main



HP Computer Setup

System IDs

Item Specific Help

Help





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Asset Tracking Number

Current Setting:

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

Main



HP Computer Setup

Replicated Setup

Item Specific Help

Help



## Administrator Tools

1

## Security Configuration

### Physical Presence Interface 2

### Intel Software Guard Extensions (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)

*Click on the field to see the options.*



# BIOS Administrator Password

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Enter BIOS Administrator Password



# POST Power-On Password

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Enter POST Power-On Password



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

Prompt on Network Controller Configuration Change

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 Boot Configuration

### 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



## Secure Platform Management (SPM)

NOTE: Some actions may not be selectable due to a pending password change.

### SPM

SPM Current State: Not provisioned

### HP Sure run

HP Sure Run Current State: Inactive

### HP Sure Admin

#### Enhanced BIOS Authentication Mode (EBAM)

EBAM Current State: Disabled

Local Access Key: Not Present

### Item Specific Help

#### 1. Create BIOS Administrator Password

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- 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)



# Security

HP Computer Setup

Smart Cover

Cover Removal Sensor

Item Specific Help



## Hard Drive Utilities

Save/Restore GPT of System Hard Drive

1

Boot Sector (MBR/GPT) Recovery Policy

2

Allow OPAL Hard Drive SID Authentication

Disable Drivelock on NVMe drives before using applications for hardware-based encryption

### 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 whether to restore GPT.
- 2. Boot Sector (MBR/GPT) Recovery Policy**  
*Click on the field to see the options.*

Help



Select a Drive

1

Help

### Item Specific Help

- M.2 SSD 1: SK hynix PC601 HFS256GD9T-NG-L2A0A-NJ06Q630010107D5I**  
Set HDD Password



# Security

HP Computer Setup

## DriveLock Security Options

The hard drive's security state cannot be changed.  
Cycle power to manage DriveLock on this drive.

### Item Specific Help

Help



# Security

HP Computer Setup

Select a Drive

M.2 SSD 1: SK hynix PC601 HFS256GD9TNG-L2A0A-NJ06Q630010107D5I (Drive is locked)

Item Specific Help

Help



Remote HP PC Hardware Diagnostics

1

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.

### 3. 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



# Advanced

HP Computer Setup

## Scheduled Power-On

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Hour 0

Minute 0

Item Specific Help



# Advanced

## Boot Options

### Startup Delay (sec.)

Fast Boot

USB Storage Boot

Network (PXE) Boot

### After Power Loss

Prompt on Memory Size Change

Prompt on Fixed Storage Change

Audio Alerts During Boot

NumLock on at boot

### UEFI Boot Order

-----  
M.2 SSD 1: Windows Boot Manager

USB:

NETWORK BOOT: IPV4 Network - Intel(R) Ethernet Connection (11) 1219-LM

NETWORK BOOT: IPV6 Network - Intel(R) Ethernet Connection (11) 1219-LM  
-----

## Item Specific Help



## HP Sure Recover

- HP Sure Recover **1**
- Recover from Network **2**
- Recover after Boot Failure **3**
- Prompt before Boot Failure Recovery **4**

## Recovery Agent

URL: <http://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 firmware 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 firmware 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.

#### 4. Prompt before Boot Failure Recovery

If this setting is enabled and no bootable UEFI OS is found, the user is notified of the boot failure and asked to choose whether to start or cancel HP Sure Recover.



# Advanced

## System Options

- Configure Storage Controller for RAID
- Configure Storage Controller for Intel Optane
- Hyperthreading **1**
- Virtualization technology (VTx)
- Virtualization technology for Directed I/O (VTd)
- DMA Protection

## Pre-Boot DMA Protection

- M.2 WLAN /BT **3**
- M.2 SSD 1 **4**
- M.2 SSD 2 **5**

## Power Button Override

- USB Type-C Connector System Software Interface (UCSI) **6**
- HP Application Driver

**2**

### Item Specific Help

- 1. Hyperthreading**  
Permits the user to control the processor capability.
- 2. Pre-Boot DMA Protection**  
Selecting the device scope for Pre-Boot DMA Protection.  
*Click on the field to see the options.*
- 3. M.2 WLAN/BT**  
Hides the slot from the OS.
- 4. M.2 SSD 1**  
Hides the slot from the OS.
- 5. M.2 SSD 2**  
Hides the slot from the OS.
- 6. 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.



# Advanced

## Built-In Device Options

Embedded LAN Controller

Wake On LAN

Video memory size

Touch Device

NFC

Audio Device **1**

Microphone

Internal Speakers

Increase Idle Fan Speed (%) **2**

M.2 USB/Bluetooth

LAN/WLAN Auto Switching

Wake on WLAN

### Item Specific Help

**1. Audio Device**

Hides the Audio device from OS.

**2. Increase Idle Fan Speed (%)**

Enter the percentage to increase the minimum fan speed (0 - 100).



## Port Options

- Left USB Ports **1**
- Right USB Ports **2**
- Top USB Ports **3**
- Bottom USB Ports **4**
- Always Power the Stand Ports **5**

## Rear USB Ports

- Rear USB Type-C Port
- Rear USB Port 1
- Rear USB Port 2
- Rear USB Port 3
- Rear 24V Powered USB Port
- Rear 12V Powered USB Port

### Item Specific Help

- 1. Left USB Ports**  
Hides the left USB ports from the OS
- 2. Right USB Ports**  
Hides the right USB ports from the OS
- 3. Top USB Ports**  
Hides the top USB ports from the OS
- 4. Bottom USB Ports**  
Hides the bottom USB ports from the OS
- 5. Always Power the Stand Ports**  
When enabled, power to the stand and base remains on to support wake events and USB charging. Requires S5 Maximum Power Savings to be off.



## Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

SS Maximum Power Savings

PCI Express Power Management **3**

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. PCI 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.





## Remote Management Options

Intel Active Management Technology (AMT) **1**

USB Key Provisioning Support

USB Redirection Support

Unconfigure AMT on next boot **2**

SOL Terminal Emulation Mode

Show Unconfigure ME Confirmation Prompt

Verbose Boot Messages

Watchdog Timer **3**

OS Watchdog Timer (min.)

BIOS Watchdog Timer (min.)

CIRA Timeout (min.) **4**

### Item Specific Help

#### 1. Intel Active Management Technology (AMT)

This option allows for a user to enable Intel Active Management Technology, which is tied to all ME-regulated remote management functions. Disabling AMT will still allow for ME Firmware updates, which are recommended for receiving platform stability fixes.

#### 2. Unconfigure AMT on next boot

Perform AMT/ME unconfigure without password operation.  
*Click on the field to see the options.*

#### 3. Watchdog Timer

Enable/Disable Watchdog Timer.

#### 4. CIRA Timeout (min.)

Set CIRA Timeout (minutes).  
*Click on the field to see the options.*



# Advanced

HP Computer Setup

Electronic Labels

Item Specific Help



# Advanced

## Remote HP PC Hardware Diagnostics

### Diagnostics Download URL

➔ [Custom Download Address](#)

### Diagnostics Logs Upload URL

2

3

4

### Scheduled Execution

Frequency

Execute On Next Boot

8

1

5

6

7

### Item Specific Help

- 1. Diagnostics Download URL**  
Select between HP server URL and a custom server URL.
- 2. Custom Upload Address**  
Configure a URL for diagnostics logs upload.
- 3. Username**  
Configure the username for uploading diagnostics logs to the server, if authentication is required.
- 4. Password**  
Configure the password for uploading diagnostics logs to the server, if authentication is required.
- 5. Scheduled Execution**  
Enable/disable the scheduled execution of Remote HP PC Hardware Diagnostics.
- 6. Frequency**  
Select the frequency for scheduled execution of Remote HP PC Hardware Diagnostics.
- 7. Execute On Next Boot**  
Enable/disable the execution on next boot. The flag will be disabled after the diagnostics have run.
- 8. Last Execution Result**  
Display the results of the last Remote HP PC Hardware Diagnostics execution.



# 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



# Upload Server Username

---

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



# Upload Server Password

---

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



# 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