

# Interactive BIOS simulator

## HP G6 ProOne AiO 400

Welcome to the interactive BIOS simulator for the  
HP G6 ProOne AiO 400

### **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 ProOne 600 G6 22 All-in-One PC
Processor 1	Genuine Intel(R) CPU 0000 @ 3.00GHz
Memory Size	32768 MB
System BIOS	S12 Ver. 80.11.01 11/29/2019

SERVICE -----

Born On Date	00/00/0000
Serial Number	8CN99900F1
SKU Number	8WM69AV
Universally Unique Identifier (UUID)	48D94EB9247899B9A6B1E7312174A67
Asset Tracking Number	

Item Specific Help

Help



Product Name	HP ProOne 600 G6 22 All-in-One PC
Memory Size	32768 MB
Storage Device	ST1000LM049-2GH172-WGS4XP0V (1000 GB) SK hynix BC511 HFM512GDJTN1-82A0A-SI97Q02891020822R (512 GB)
PROCESSOR 1 -----	
ProcessorType	Genuine Intel(R) CPU 0000 @ 3.00GHz
Cache Size (L1/L2/L3)	384 KB / 1536 KB / 12 MB
Processor Speed	3000 MHz
Processor Cores	6
MicroCode Revision	BE
Processor Stepping	0
Memory Speed	2667 MHz
Bottom-OnBoard 1	16 GB Micron
Bottom-Onboard 2	16 GB Micron

Item Specific Help

Help



Item Specific Help

FIRMWARE -----

System BIOS	S12 Ver. 80.11.01 11/29/2019
ME Firmware Version	14.0.21.7227
ME Firmware Mode	Enable
Audio Controller	Realtek ALC3252
Video BIOS Version	Intel(R) GOP Driver [9.0.1098]
Reference Code Revision	9.0.22.10
Super I/O Firmware Version	9.2.9
USB Type-C Controller(s) Firmware Version:	
	Onboard PD Right: 3.5.0

SERVICE -----

Born On Date	00/00/0000
Serial Number	8CN99900F1
SKU Number	8WM69AV

Help



Universally Unique Identifier (UUID)	48D94E9B9247899B9A6B1E7312174A67
Asset Tracking Number	
Feature Byte	3E3X476J6S6bb7N7H7M7R7T7WapaqaubhdUdpdq.MY
Build ID	20WWSBAT6aa#SABA#DABA
Product Family	103C_53307F HP ProOne
System Board ID	871B
System Board CT Number	PCAARRSSWWXXXX

COMMUNICATION -----

Integrated MAC Address 1	10-E7-C6-75-D6-E1
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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

---

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



Update System BIOS

Current System BIOS Version:	S12 Ver. 80.11.01
Current BIOS Release Date:	11/29/2019
Installation Date of Current BIOS:	12/06/2019
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.



# 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**

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 / 24 / 2019

Set Time (HH:MM):

02 : 56

Item Specific Help

Help



Main



HP Computer Setup

Item Specific Help

Help



---

Feature Byte

Current Setting: 3E3X476J6S6bb7N7H7M7R7T7WapaqaubhdUdpdq.MY



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Build ID

Current Setting: 20WWSBAT6aa#SABA#DABA

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



---

Serial Number

Current Setting: 8CN99900F1

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



---

SKU Number

Current Setting: 8WM69AV

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



---

Product Family

Current Setting: 103C\_53307F HP ProOne

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



---

System Board CT Number

Current Setting: PCAARRSSWWXXXX

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



---

**Product Name**

**Current Setting: HP ProOne 600 G6 22 All-in-One PC**

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



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

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)



# BIOS Administrator Password

---

Enter BIOS Administrator Password



# POST Power-On Password

---

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

## BIOS Data Recovery Policy

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



## 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

3

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

## Item Specific Help



# Security

HP Computer Setup

Smart Cover

Cover Removal Sensor

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

## Enhanced BIOS Authentication Mode (EBAM)

EBAM Current State: Disabled

Local Access Key: Not Present

### Item Specific Help

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The Administrator password controls access to the following features:

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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)



## Hard Drive Utilities

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.

Help



Select a Drive

1

2

### Item Specific Help

**1. SATA 0: ST1000LM049-2GH172**

Set HDD Password

**2. M.2 SSD: SK hynix BC511 HFM512GDJT-NI-82A0A-SI97Q02891020822R**

Set HDD Password

Help



## DriveLock Security Options

Automatic DriveLock **1**

**2**

**3**

### 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.

Help



## DriveLock Security Options

1

### Item Specific Help

**1. Enable DriveLock**

Sets the drive's User Password and enables DriveLock.

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.



# 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.



# BIOS Administrator Password

---

Enter BIOS Administrator Password



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.

**3. Execute Remote HP PC Hardware Diagnostics**



# 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

CD-ROM 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

1

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

USB:

SATA 0: ST1000LM049-2GH172

SATA CD: hp HLDS DVDROM DUD1N

NETWORK BOOT: IPV4 Network - Intel(R) Ethernet Connection (11) I219-LM

NETWORK BOOT: IPV6 Network - Intel(R) Ethernet Connection (11) I219-LM  
-----

### Item Specific Help

#### 1. After Power Loss

Determine the system's state after power is lost to the unit.





## System Options

Configure Storage Controller for Intel Optane

Turbo-Boost

Hyperthreading **1**

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

M.2 WLAN/BT

M.2 SSD

## Power Button Override

USB Type-C Connector System Software Interface (UCSI) **2**

HP Application Driver

### Item Specific Help

#### 1. Hyperthreading

Permits the user to control the processor capability

#### 2. 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

Graphics

Video memory size

Integrated Camera

Touch Device

Audio Device **2**

Microphone

Internal Speakers

Increase Idle Fan Speed(%) 0

M.2 USB / Bluetooth

LAN/WLAN Auto Switching

Wake on WLAN

**1**

### Item Specific Help

#### 1. Graphics

Provide UMA Graphics and Hybrid Graphics 2 selections

#### 2. Audio Device

Hides the Audio device from OS



## Port Options

Rear USB Ports **1**

Rear USB Port 1

Rear USB Port 2

Rear USB Port 3

Rear USB Port 4

Right USB Ports **2**

Right USB Port 1

Right USB Port 2

USB Legacy Port Charging **3**

USB Type-C Downstream Charging **4**

Media Card Reader

SATA 0 **5**

SATA 1 **6**

## Restrict USB Devices

### Item Specific Help

**1. Rear USB Ports**

Hides the rear USB ports from the OS

**2. Right USB Ports**

Hides the right USB ports from the OS

**3. USB Legacy Port Charging**

Enable USB Charging port for charging capability when system Hibernate/Shutdown

**4. USB Type-C Downstream Charging**

Enable USB Charging port for charging capability when system Hibernate/Shutdown

**5. SATA 0**

Hides the SATA port from the OS

**6. SATA 1**

Hides the SATA port from the OS



## Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

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. S5 Maximum Power Savings**

Enabling this feature reduces the power of this system as much as possible in the S5 state.

Power is removed from the wake up circuitry, the expansion slots and any management features while in SB.

**4. 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.

**5. Power On from Keyboard Ports**

To wake up system from Hibernate/Shutdown via keyboard



## Remote Management Options

Intel Management Engine (ME) **1**

Intel Active Management Technology (AMT) **2**

USB Key Provisioning Support

USB Redirection Support

Unconfigure AMT on next boot **3**

SOL Terminal Emulation Mode

Show unconfigure ME Confirmation Prompt

Verbose Boot Messages

Watchdog Timer **4**

OS Watchdog Timer (min.)

BIOS Watchdog Timer (min.)

CIRA Timeout (min.) **5**

### Item Specific Help

#### 1. Intel Management Engine (ME)

Enabled by default. [Help Icon] = "This option allows for a user to disable the Intel Management Engine, which disables Intel Active Management Technology and all underlying Intel ME technologies. This option also disables ME functions that allow for ME firmware updates. It is suggested to periodically enable this option to update ME firmware, as the ME firmware may contain platform stability fixes.

#### 2. 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.

#### 3. Unconfigure AMT on next boot

Perform AMT/ME unconfigure without password operation.

#### 4. Watchdog Timer

Enable/Disable WatchDog Timer.

#### 5. CIRA Timeout (min.)

Set CIRA Timeout (Minutes).



# Advanced

## Remote HP PC Hardware Diagnostics

### Diagnostics Download URL

➔ [Custom Download Address](#)

### Diagnostics Logs Upload URL

3

4

2

### Scheduled Execution

#### Frequency

5

#### Execute On Next Boot

6

1

### 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. Frequency

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

#### 6. Execute On Next Boot

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



# 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



# 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