Interactive BIOS simulator

HP ProOne 600 G4 21.5-in Touch GPU AiO

Welcome to the interactive BIOS simulator for the
HP ProOne 600 G4 21.5-in Touch GPU AiO

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

Item Specific Help

Product Name   HP ProOne 600 G4 21.5-in Touch GPU AiO
Processor 1   Intel(R) Core(TM) i5-8500T CPU @ 2.10GHz
Memory Size   16384 MB
System BIOS   Q12 Ver. 80.33.00   03/15/2018

SERVICE ---

Born On Date   00/00/0000
Serial Number   8CG8130771
SKU Number   3DQ53AV
Universally Unique Identifier (UUID)   24AD7491-FE78-B59C-E825-C4F1F8A9FC86
Asset Tracking Number   8CG8130771

Help

ADVANCED SYSTEM INFORMATION

Product Name   HP ProOne 600 G4 21.5-in Touch GPU AiO
Memory Size   16384 MB

PROCESSOR 1 ---

ProcessorType   Intel(R) Core(TM) i5-8500T CPU @ 2.10GHz
Cache Size (L1/L2/L3)   384 KB / 1536 KB / 9 MB
Processor Speed   2000 MGz
MicroCode Revision   84
Processor Stepping   A
Memory Speed   2667 MHz
DIMM1   8 GB Kingston
DIMM3   8 GB Kingston

Help

Main

Item Specific Help

FIRMWARE --

System BIOS   Q12 Ver. 80.33.00 03/15/2018
ME Firmware Version   12.0.0.1069
ME Firmware Mode   Enable
Video BIOS Version   intel(R) GOP Driver [9.0.1075]
Reference Code Revision   7.0.1C.5F
Super I/O Firmware Version   7.8.5
USB Type-C Controller(s) Firmware Version:

                                            Onboard PD Right : 5.15.0

Help

SERVICE --

Born On Date   00/00/0000
Serial Number   8CG8130771
SKU Number   3DQ53AV
Universally Unique Identifier (UUID)   24AD7491-FE78-B59C-E825-C4F1F8A9FC86
Asset Tracking Number   8CG8130771
Feature Byte   3E3P3X476J6SBb7B7H7M7R7S7W7m7saBapaqaubhdUdpdqfAgd.gB
Build ID   18WWW6AT6bc#SABA#DABA
Product Family   103C_53307F HP ProOne
System Board ID   83EA
System Board CT Number   PGWXKX50GALA3C

COMMUNICATION --

Integrated MAC Address 1   10-E7-C6-0A-C5-F9

Help

HP PC Hardware Diagnostics UEFI

Please select a Language.

English

Cestina

Dansk

Deutsch

Nederlands

Espanol

eesti keel

Suomi

Francais

Hrvatski

Magyar

HP Computer Setup

Update System BIOS

Current System BIOS Version: Q12 Ver. 80.33.00
Current BIOS Release Date: 03/15/2018
Installation Date of Current BIOS: 03/30/2018
Most Recent Update Check: Never Checked

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(1)

Lock BIOS Version **(2)**

BIOS Rollback Policy

Allow BIOS Updates Using a Network **(3)**

(4)

(5)
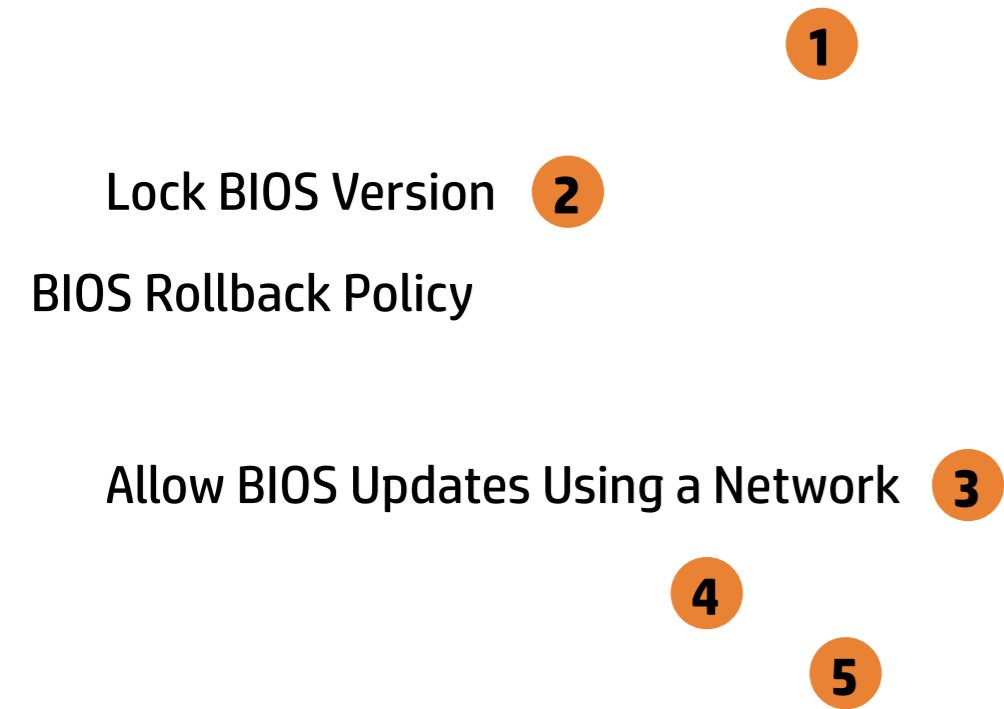
Help

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. 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 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.

Minimum BIOS Version

Current Minimum BIOS Version: 00.00.00

Minimum BIOS Version:

HP Computer Setup

BIOS Update Preferences

    Check for Update on Next Reboot **1**

BIOS Source **2**

3

Automatic BIOS Update Setting

4

BIOS Update Frequency **5**

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.

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 custom 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 System MAC Address and press ENTER to SAVE

Network Configuration Settings

Proxy Server **1**

2

3

IPv4 Configuration **4**

5

➡ IPv4 Subnet Mask **6**
➡ IPv4 Gateway **7**

DNS Configuration **8**

100

Data transfer timeout
Force HTTP no-cache **9**

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. **IPv4 Address**
   Setup for static IPv4 address.

6. **IPv4 Subnet Mask**
   Configure a valid IPv4 address for subnet mask.

7. **IPv4 Gateway**
   Configure a valid IPv4 address for gateway.

8. **DNS Configuration**
   Configure a common separated list of DNS addresses.

9. **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

HP Computer Setup

Change Date And Time

Set Date (MM/DD/YYYY)   06 / 04 / 2018
Set Time (HH:MM):   20 : 53

Item Specific Help

Help

HP Computer Setup

System IDs

Item Specific Help

Asset Tracking Number

Current Setting: 8CG8130771

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.

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

Item Specific Help

Main

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

Item Specific Help

Are you sure you want to ignore changes and exit?

Are you sure you want to save changes and exit?

Item Specific Help

Administrator Tools

1

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

Password Policies

Password Policies

Password Maximum Length

At least one symbol is required in Administrator and User passwords

At least one number is required in Administrator and User passwords

At least one upper case character is required in Administrator and User passwords

At least one lower case character is required in Administrator and User passwords

Are spaces allowed in Administrator and User passwords?

Clear Password Jumper

Promt for Admin password on F9 (Boot Menu)

Promt for Admin password on F11 (System Recovery)

Promt for Admin password on F12 (Network Boot)

Promt for Admin password on Capsule Update

BIOS Administrator visible at Power-on Authentication

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   **3**

Sure Start Security Event Boot Notification

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 m 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 thr 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 Platform Management (SPM)

HP Sure Run Current State: Inactive

SPM Current State: Not provisioned

Item Specific Help

Smart Cover

Cover Removal Sensor

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 he prompted to choose whether to restore GPT.

Help

HP Computer Setup

Select a Drive

①

Item Specific Help

1. SATA0: MTFDDAK512TBN-AR15FCHA
Set HDD Password

Help

DriveLock Security Options

Atomatic 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

Sts the driver's Master password, but it does not enable DriveLock.

3. Enable DriveLock

Sets the driver's User password and enables DriveLock.

Set DriveLock Master Password

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

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

Enter Drivelock Master Password.

Set DriveLock User Password

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

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

Enter Drivelock User Password.

Item Specific Help

Select a Drive

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.

Are you sure you want to restore settings to default?

Item Specific Help

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

Display Language

Select Language

Select Keyboard Layout

Item Specific Help

Scheduled Power-On

Sunday   **1**

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Hour	0
Minute	0

Item Specific Help

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

Boot Options

Startup Delay (sec.)

    Fast Boot

    CD-ROM Boot

    USB Storage Boot

    Network (PXE) Boot

After Power Loss   **1**

    Prompt on Memory Size Change

    Prompt on Fixed Storage Change

    Audio Alerts During Boot

    NumLock on at boot

UEFI Boot Order

      SATA0: Windows Boot Manager

      USB:

      SATA CD: hp HLDS DVDROM DUDON

      Network Boot:IPV4 Network - Intel(R) Ethernet Connection (7) I219-LM

      Network Boot:IPV6 Network - Intel(R) Ethernet Connection (7) I219-LM

Legacy Boot Order

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

Item Specific Help

1. After 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**

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 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.

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   **1**

Item Specific Help

1. Ready BIOS for Device Guard Use
When set to "Configure on Next Boot", the BIOS will change the feature listed below to their suggested Device Guard states, on the boot after saving changes and exit.
Virtualization features will be enabled.
Removable and network boot devices will be disabled (for example, USB boot, CD-ROM boot, Thunderbolt boot, etc.).
MS UEFI CA Key will be disabled.

When set to "Clear Configuration on Next Boot", the BIOS will set the listed features to their Custom Default state if custom defaults have been saved. If custom defaults have not been saved, the BIOS will restore the listed features to their factory default states.

System Options

Configure Storage Controller for Intel Optane

Turbo-Boost

Multi-processor

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

M.2 WLAN/BT **1**

M.2 SSD **2**

Allow PCIe/PCI SERR# Interrupt

Power Button Override

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

Item Specific Help

1. M.2 WLAN/BT
Hides the slot from the OS

2. M.2 SSD
Hides the slot from the OS

3. USB Type-C Connector System Software Interface (UCSI)
The UCSI option should be disabled if booting a Microsoft Windows 10version before 1709 to avoid system stability issues.

Advanced

Built-In Device Options

    Embedded LAN Controller

Wake On LAN

Video memory size

    Integrated Camera

    Touch Device

    Audio Device   **1**

Microphone

    Internal Speakers

Increase Idle Fan Speed(%)

    M.2 USB / Bluetooth

    LAN / ALAN Auto Switching

    Wake on WLAN

Item Specific Help

1. Audio Device
    Hides the Audio device from OS

Port Options

    Rear USB Ports **1**

    Rear USB Port 1 **3**

    Rear USB Port 2 **3**

    Right USB Ports **2**

    Right USB Ports 1 **3**

    Right USB Ports 2 **3**

    Right USB Ports 3 **3**

    USB Legacy Port Charging **4**

    USB Type-C Downstream Charging **4**

    Media Card Reader

    SATA 0 **5**

    SATA 1 **5**

Power Button Override

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. Rear USB Ports 1 & 2, Right USB Ports 1,2 & 3
Enables individual legacy or Type-C USB port. On Desktop platforms, ports are typically numbered bottom to top, then left to right when in horizontal orientation. On Notebook platform, Ports are typically numbered front to rear.

4. USB Legacy Port Charging and USB Type-C Downstream Charging
Enable USB Charging port for charging capability when system Hibernate/Shutdown

5. SATA 0 & 1
Hides the SATA port from the OS

Option ROM Launch Policy

Configure Option ROM Launch Policy   **1**

Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

SS 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. SS Maximum Power Savings
 Enabling this feature reduces the power of this system as much as possible in the SS state. Power is removed from the wake up circuit, the expansion slots and any management features while in SS.

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

Electronic Labels

Item Specific Help

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.) **4**

    BIOS Watchdog Timer (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.

3. Watchdog Timer
Enable/Disable WatchDog Timer.

4. OS & BIOS Watchdog Timer
Set OS Watching timer (Minutes).

Settings

Diagnostics Download URL ①

➡ Custom Download Address ②

Diagnostics Logs Upload URL

③

④

⑤

Scheduled Execution ⑥

Frequency ⑦

Execute On Next Boot ⑧

⑨

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 HP PC Hardware Diagnostics Result

Remote HP PC Hardware Diagnostics was never executed.

Remote HP PC Hardware Diagnostics Execution

Remote HP PC Hardware Diagnostics was never executed.

UEFI Drivers

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