

Interactive BIOS simulator

HP ProOne 600 G5 21.5-in All-in-One

Welcome to the interactive BIOS simulator for the
HP ProOne 600 G5 21.5-in All-in-One

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 G5 21.5-in All-in-One
Processor 1	Genuine Inter(R) CPU 0000 @ 1.70GHz
Memory Size	4096 MB
System BIOS	R12 Ver. 80.10.00 11/20/2018

SERVICE -----

Born On Date	00/00/0000
Serial Number	8CG85079J1
SKU Number	3DQ54AV
Universally Unique Identifier (UUID)	4D6922EC-DB8B-79CC-F208-421513D52B3B
Asset Tracking Number	

Item Specific Help

Help



ADVANCED SYSTEM INFORMATION

Product Name HP ProOne 600 G5 21.5-in All-in-One
Memory Size 4096 MB
Storage Device ST500LX025-1U7177D-SSHD-WL1GDDEP (500 GB)

PROCESSOR 1 -----

ProcessorType Genuine Inter(R) CPU 0000 @ 1.70GHz
Cache Size (L1/L2/L3) 512 KB / 2 MB / 16 MB
Processor Speed 1600 MHz
Processor Cores 8
MicroCode Revision A0
Processor Stepping C
Memory Speed 2667 MHz
DIMM1 4 GB Samsung
DIMM3 Empty

Item Specific Help

Help



FIRMWARE -----

System BIOS	R12 Ver. 80.10.00 11/20/2018
ME Firmware Version	12.0.20.1301
ME Firmware Mode	Enable
Audio Controller	Conexant CX20632
Video BIOS Version	Intel(R) GOP Driver [9.0.1082]
Reference Code Revision	7.0.47.50
Embedded Controller Firmware Version	8.4.5
USB Type-C Controller(s) Firmware Version:	
	Onboarding PD Right : 2.0.0

Item Specific Help

Help



SERVICE -----

Born On Date	00/00/0000
Serial Number	8CG85079J1
SKU Number	3DQ54AV
Universally Unique Identifier (UUID)	4D6922EC-DB8B-79CC-F208-421513D52B3B
Asset Tracking Number	
Feature Byte	3E3X475K6J6S6b7B7H7M7R7S7WapaqaubhdUdpdq.aR
Build ID	19WWW6AT6ab#SABA#DABA
Product Family	103C_53307F HP ProOne
System Board ID	85A2
System Board CT Number	PHUTUX10GBMA4A

COMMUNICATION -----

Integrated MAC Address 1	F4-39-09-38-EC-3A
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Item Specific Help

Help

HP PC Hardware Diagnostics UEFI

Version 1.25.beta.0 - BIOS

For more information and updates, please go to www.hp.com/go/techcenter/PCDiags.

[Memory Test]
[Storage Tests]
[Hard Drive Check]
[Language]
[]

Exiting...

Are you Sure?

[]
[]



BIOS Event Log

Clear BIOS Event Log on Next Boot

Item Specific Help

Help



View BIOS Event Log

Date	Time	Description
06/21/2019	21:02	005 Real-Time Clock Power Loss

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:	R12 Ver. 80.10.00
Current BIOS Release Date:	11/20/2018
Installation Date of Current BIOS:	12/18/2018
Most Recent Update Check:	Never Checked

BIOS Rollback Policy

Allow BIOS Updates Using a Network

1

2

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. *Click on the field to see the options.*

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:



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.



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

IPv4 Configuration

→ [IPv4 Subnet Mask](#)

→ [IPv4 Gateway](#)

3

DNS Configuration

4

Data transfer timeout

100

Force HTTP no-cache **5**

Help

Item Specific Help

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



Change Date And Time

Set Date (MM/DD/YYYY)

16 / 21 / 2019

Set Time (HH:MM):

21 : 21

Item Specific Help

Help

Main



HP Computer Setup

System IDs

Item Specific Help

Help



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

Replicated Setup

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



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

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

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

Prompt for Admin password on F9 (Boot Menu)

Prompt for Admin password on F11 (System Recovery)

Prompt for Admin password on F12 (Network Boot)

Prompt 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

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

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 be prompted to choose whether to restore GPT.

Help



Select a Drive

1

Help

Item Specific Help

- 1. SATA0: ST500LX025-1U717D-SSHD**
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



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

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



Advanced

HP Computer Setup

Display Language

Select Language

Select Keyboard Layout

Item Specific Help



Advanced

HP Computer Setup

Scheduled Power-On

Sunday **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.



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

SATA0: Windows Boot Manager

USB:

SATA CD:

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.



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.



Advanced

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 **2**

M.2 SSD **3**

Allow PCIe/PCI SERR# Interrupt

Power Button Override

USB Type-C Connector System Software Interface (UCSI) **4**

Item Specific Help

1. Hyperthreading

Permits the user to control the processor capability

2. M.2 WLAN/BT

Hides the slot from the OS

3. M.2 SSD

Hides the slot from the OS

4. 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

HP Computer Setup

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



Advanced

HP Computer Setup

Port Options

Serial Port A

I/O Address A

Interrupt A

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**

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. 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



Advanced

HP Computer Setup

Option ROM Launch Policy

Configure Option ROM Launch Policy

1

Item Specific Help

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



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



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.) **5**

BIOS Watchdog Timer (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 contains 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. OS & BIOS Watchdog Timer

Set OS Watching timer (Minutes).



Advanced

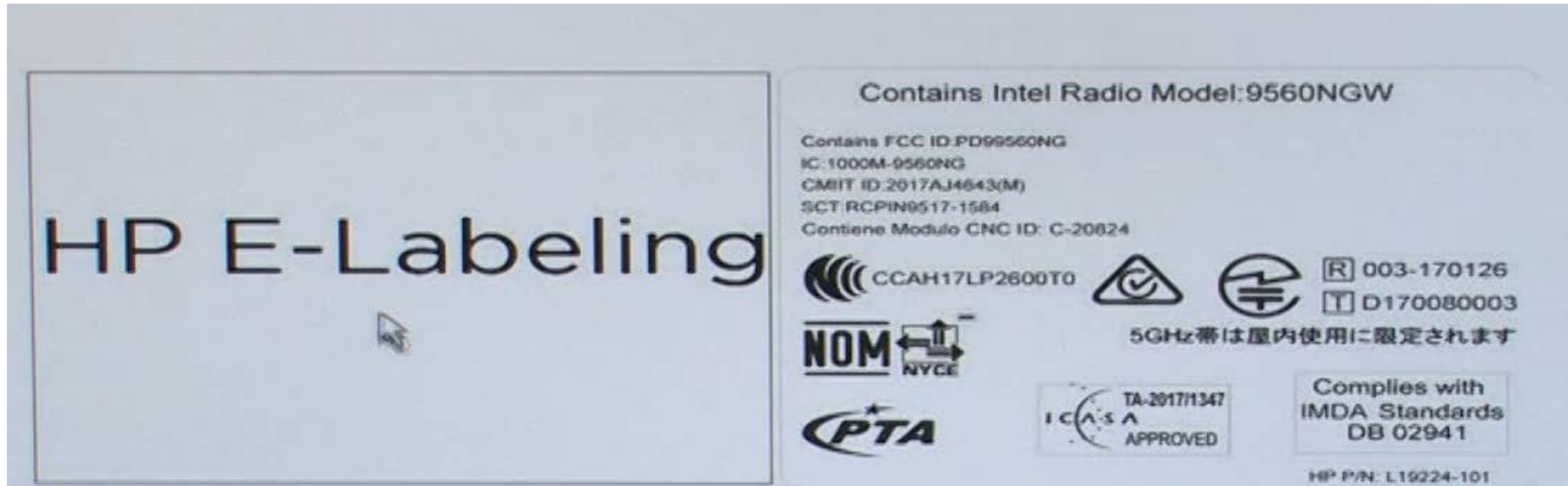
HP Computer Setup

Electronic Labels

Item Specific Help



Item Specific Help





Advanced

HP Computer Setup

Remote HP PC Hardware Diagnostics

Diagnostics Download URL

➔ [Custom Download Address](#)

Diagnostics Logs Upload URL

3

4

2

Scheduled Execution

Frequency

Execute On Next Boot

1

5

6

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

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

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