

Interactive BIOS simulator

HP 280 G5 MT PC

Welcome to the interactive BIOS simulator for the
HP 280 G5 MT PC

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 Elite Dragonfly
Processor 1	Intel(R) Core(TM) i7-8665U CPU @ 1.90GHz
Memory Size	16384 MB
System BIOS	R93 Ver. 80.30.00 06/28/2019

SERVICE -----

Born On Date	00/00/0000
Serial Number	0009280052
SKU Number	1234567#ABA
Universally Unique Identifier (UUID)	AA88A64CF8EF420F3C78293742B8B304

Item Specific Help

Help



Product Name HP Elite Dragonfly
Memory Size 16384 MB
System BIOS R93 Ver. 80.30.00 06/28/2019
Storage Device WDC PC SN520 SDAPNUW-256G-1006-191879804678 (256 GB)

PROCESSOR 1 -----

ProcessorType Intel(R) Core(TM) i7-8665U CPU @ 1.90GHz
Cache Size (L1/L2/L3) 256 KB / 1 MB / 8 MB
Processor Speed 1782 MHz
Processor Cores 4
MicroCode Revision B8
Processor Stepping C
Memory Speed 2133 MHz
Bottom-OnBoard 1 8 GB Samsung
Bottom-Onboard 2 8 GB Samsung

Help

Item Specific Help



Item Specific Help

FIRMWARE -----

System BIOS	R93 Ver. 80.30.00 06/28/2019
ME Firmware Version	12.0.40.1433
ME Firmware Mode	Enable
Audio Controller	Realtek ALC3292
Video BIOS Version	Intel(R) GOP Driver [9.0.1085]
Reference Code Revision	7.0.68.40
Embedded Controller Firmware Version	66.20.80
USB Type-C Controller(s) Firmware Version:	CCG5 : 1.4.0

SERVICE -----

Born On Date	00/00/0000
Serial Number	0009280052
SKU Number	1234567#ABA

Help



Universally Unique Identifier (UUID)	AA88A64CF8EF420F3C78293742B8B304
Asset Tracking Number	0009280052
Feature Byte	3X476J6S6B7B7H7M7R7W7maBapaqauawbVbhcAd6dUdpdqfXguhKhWhZ jkh8.Mq
Build ID	19WWEMAT6av#SABA#DABA
Product Family	103C_5336AN HP EliteBook x360
System Board ID	861F
System Board CT Number	C8D9D2FF98C0XX
Primary Battery Serial Number	00056 2019/06/27

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





Main

HP Computer Setup

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:	R93 Ver. 80.30.00
Current BIOS Release Date:	06/28/2019
Installation Date of Current BIOS:	07/17/2019
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

➔ [IPv4 Subnet Mask](#)

➔ [IPv4 Gateway](#)

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: 3X476J6S6B7B7H7M7R7W7maBapaqauawbVbhAd6dUdpdqfXguhKhWhZjhk8.Mq



Build ID

Current Setting: 19WWEMAT6av#SABA#DABA

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



Serial Number

Current Setting: 0009280052

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



SKU Number

Current Setting: 1234567#ABA

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



Product Family

Current Setting: 103C_5336AN HP EliteBook x360

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



System Board CT Number

Current Setting: C8D9D2FF98C0XX

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



Product Name

Current Setting: HP Elite Dragonfly

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



Main

HP Computer Setup

System IDs

Item Specific Help

Help



Asset Tracking Number

Current Setting: 0009280052

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

Trusted Execution Technology (TXT)

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

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 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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Enable/Disable Software Guard Extensions (SGX)



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



Security

HP Computer Setup

Select a Drive

1

Help

Item Specific Help

- M.2 SSD 1: WDC PC SN520 SDAP-NUW-256G-1006-191879804678**
Set HDD Password



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

USB Storage Boot

Network (PXE) Boot

Power On When AC Detected

Power On When Lid is Opened

Prompt on Battery Errors

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:IPV6

Network Boot:IPV4

HP_AED: Hard Drive

 Legacy Boot Order

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

Item Specific Help



Advanced

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
OS Recovery Image Version:
OS Recovery Driver Version:

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.



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



Advanced

System Options

Turbo-Boost

Hyperthreading **1**

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

DMA Protection

Fast Charge

Power Button Protection

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

Enable High Resolution mode when connected to a USB-C DP al mode dock

Special Keys mapped to Fn + keypress **4**

Swap Arrow Up/Down and Page Up/Down Function

Swap Fn and Ctrl (Keys)

Launch Hotkeys without Fn Keypress

Dynamic Platform and Thermal Framework (DPTF)

Power Slider Plus

HP Application Driver

2

Item Specific Help

1. Hyperthreading

Permits the user to control the processor capability

2. Power Button Protection

This feature ensures that unintentional activation of the power button while it is being transported in a bag does not cause the system to wake up.

On Battery Only: Power button is only disabled when the lid is closed, the system is in a low power state, and no power external power source is present.

Always: Power button is always disabled when the lid is closed.

Never: Power button is enabled always when this lid is closed.

3. 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.

4. Special Keys mapped to Fn + keypress

Fn+R, Fn+S, Fn+C, Fn+ W, Fn+E will worked as Break, Sys Rq, Scroll Lock, pause, insert if no legacy keys when enabled



Advanced

HP Computer Setup

Built-In Device Options

Wake On LAN

Video memory size

Audio Device

Microphone

Internal Speakers

Headphone Output

Wake on Voice (WoV)

Wireless Network Device (WLAN)

Bluetooth

Mobile Network Device (WWAN) and GPS Combo Device

HP LAN-Wireless Protection

LAN/WLAN Auto Switching

LAN/WWAN Auto Switching

Fan Always on while on AC Power

Boost Converter

Backlist keyboard timeout

Automatic Keyboard Backlit

Integrated Camera

Fingerprint Device

Touch Device

Disable battery on next shut down

Item Specific Help



Advanced

Port Options

Left USB Ports **1**

USB Legacy Port Charging **2**

Disable Charging Port
in sleep/off if battery below (%): 10

Thunderbolt Type-C Ports

Item Specific Help

1. Left USB Ports

Hides the left USB ports from the OS

2. USB Legacy Port Charging

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



Advanced

HP Computer Setup

Option ROM Launch Policy

Configure Option ROM Launch Policy

Item Specific Help



Advanced

Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

Power control

Battery Health Manager

Item Specific Help

- 1. Runtime Power Management**
Enables Runtime Power Management.
- 2. Extended Idle Power States**
Increases the OS's Idle Power Savings.



Remote Management Options

Active Management (AMT)

USB Key Provisioning Support

USB Redirection Support

Unconfigure AMT on next boot **1**

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.) **3**

Item Specific Help

- 1. Unconfigure AMT on next boot**
Perform AMT/ME unconfigure without password operation.
- 2. Watchdog Timer**
Enable/Disable WatchDog Timer.
- 3. CIRA Timeout (min.)**
Set CIRA Timeout (Minutes).



Advanced

HP Computer Setup

MAC Address Pass Through

Host Based MAC Address

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



Configure Factory/System MAC Address

Current Factory : C8-D9-D2-FF-98-C0

Current System : C8-D9-D2-FF-98-C0

Examples:

1234567890AB

12-34-56-78-90-AB

Writes blank to clear the MAC address

The Second Byte must be even digit, either 0, 2, 4, 6, 8, A, C or E

Press ESC to CANCEL

Type the System MAC Address and press ENTER to SAVE



Advanced

HP Computer Setup

Thunderbolt Options

Thunderbolt Mode **1**

Require BIOS PW to change Thunderbolt Security Level

Thunderbolt Security Level

Item Specific Help

1. Thunderbolt Mode

When Thunderbolt Mode is disabled, only DisplayPort and USB Type C devices will function on the Thunderbolt Port



Advanced

Remote HP PC Hardware Diagnostics

Diagnostics Download URL

➔ [Custom Download Address](#)

Diagnostics Logs Upload URL

3

4

2

Scheduled Execution

Frequency

1

5

Execute On Next Boot

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



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