

Interactive BIOS simulator

HP Elite x2 G8 Tablet

Welcome to the interactive BIOS simulator for the
HP Elite x2 G8 Tablet

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 x2 G8 Tablet
Processor 1	11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz
Memory Size	16384 MB
System BIOS	T91 Ver. 80.30.00 11/24/2020

SERVICE -----

Born On Date	00/00/0000
Serial Number	CND0492Z2S
SKU Number	GPM2001#ABA
Universally Unique Identifier (UUID)	588A5935FF211D419FDE01A4F171FFA0
UUID (standard format)	3598A58-21FF-411D-9FDE-01A4F171FFA0
Asset Tracking Number	

Item Specific Help

Help



Product Name HP Elite x2 G8 Tablet
Memory Size 16384 MB
Storage Devices KXG6AZNV256H KIOXIA-60TF73UUFLD1 (256 GB)

PROCESSOR 1 -----

ProcessorType 11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz
Cache Size (L1/L2/L3) 320 KB / 5 MB / 8 MB
Processor Speed 2400 MHz
Processor Cores 4
MicroCode Revision 6C
Processor Stepping 1
Memory Speed 4267 MHz
Bottom-OnBoard 1-1 2 GB Hynix/Hyundai
Bottom-OnBoard 1-2 2 GB Hynix/Hyundai
Bottom-OnBoard 2-1 2 GB Hynix/Hyundai
Bottom-OnBoard 2-2 2 GB Hynix/Hyundai
Bottom-OnBoard 3-1 2 GB Hynix/Hyundai
Bottom-OnBoard 3-2 2 GB Hynix/Hyundai
Bottom-OnBoard 4-1 2 GB Hynix/Hyundai
Bottom-OnBoard 4-2 2 GB Hynix/Hyundai

Help

Item Specific Help



FIRMWARE -----

System BIOS	T91 Ver. 80.30.00 11/24/2020
ME Firmware Version	15.0.10.1447
ME Firmware Mode	Enable
Audio Controller	Realtek ALC3292
Video BIOS Version	Intel(R) GOP Driver [17.0.1045]
Reference Code Revision	A.0.38.51
Embedded Controller firmware Version	42.0E.00
USB Type-C Controller(s) Firmware Version:	
	TPS65994 : 6.0.0
	TPS65992s : 3.0.0
Camera Controller Firmware	
	Front Camera : 0013
	Rear Camera : 0011
Base KBS Version	64.09

Item Specific Help

Help



SERVICE -----

Born On Date	00/00/000
Serial Number	CND0492Z2S
SKU Number	GPM2001#ABA
Base Serial Number	XXXXXX-XXX
Base SKU Number	XXXXXXXXXX
Universally Unique Identifier (UUID)	588A5935FF211D419FDE01A4F17FFA0
UUID (standard format)	35598A58-21FF-411D-9FDE-01A4F171FFA0
Asset Tracking Number	
Feature Byte	3X476J6S6b7B7H7M7R7W7m7saBapaqaubTbhcAdUdpdqf PguhKhZjkh8mEn7ng.RN
Build ID	21WWMLAT6ai#SABA#DABA
Product Family	103C_5336AN HP Elite x2
System Board ID	870D
System Board CT Number	PXXXXA81TEI15A
Primary Battery Serial Number	01145 2020/11/17

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:	T91 Ver. 80.30.00
Current BIOS Release Date:	11/24/2020
Installation Date of Current BIOS:	12/10/2020
Most Recent Update Check:	Never Checked



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

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



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

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

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

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 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



Password Policies

Password Minimum Length

8

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 password?

Allow User to Modify Power-on Password

Wake on LAN Power-on Password Policy

Item Specific Help



Administrator Authentication Policies

- Prompt for Admin authentication on F9 (Boot Menu)
- Prompt for Admin authentication on F11 (System Recovery)
- Prompt for Admin authentication on F12 (Network Boot)
- Prompt for Admin authentication on Capsule Update
- BIOS Administrator visible at Power-on Authentication

Item Specific Help



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 Admin

Enhanced BIOS Authentication Mode (EBAM)

EBAM Current State: Disabled

Local Access Key: Not Present

HP Sure run

HP Sure Run Current State: Inactive

Smart Health

Smart Health Status:

Smart Health

Item Specific Help

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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

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

Item Specific Help

- 1. M.2 SSD: KXG6AZNV256G KIOX-IA-60TF73UUFLD1**
Set HDD Password

Help



DriveLock Security Options

Automatic DriveLock

A BIOS Administrator Password must be defined before you can enable Automatic DriveLock

Item Specific Help

Help



Security

HP Computer Setup

Select a Drive

Item Specific Help

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 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

Prompt on When AC Detected

Prompt 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: Windows Boot Manager

USB:

NETWORK BOOT: IPV4

NETWORK BOOT: IPV6

Item Specific Help



HP Sure Recover

- HP Sure Recover **1**
- Recover from Network **2**
- Recover after Boot Failure **3**

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 VMD **1**

Tubo-boost

Hyperthreading **2**

Virtualization Technology (VTx)

Virtualization Technology for Directed I/O (VTd)

DMA Protection

Pre-Boot DMA Protection **3**

Fast Charge

Power Button Protection **4**

USB Type-C Connector System Software Interface (UCSI) **5**

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

Special Keys mapped to Fn + keypress **6**

Swap Arrow Up/Down and Page Up/Down Function

Swap Fn and Ctrl (Keys)

Launch Hotkeys without Fn Keypress

Intel Dynamic Tuning **7**

Sanitization Mode Countdown Timer

Pre-Sanitization Mode Countdown Timer

HP Application Driver

Item Specific Help

- 1. Configure Storage Controller for VMD**
Enable this option to move the SATA/NVMe storage under Volume Management Device (VMD) controller. Then the storage is controlled by Intel Rapid Storage Technology driver and can support RAID/Optane feature.
- 2. Hyperthreading**
Permits the user to control the processor capability
- 3. Pre-boot DMA protection**
Selecting The Device Scope For Pre-Boot DMA Protection
- 4. 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.
- 5. 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.
- 6. 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
- 7. Intel Dynamic Tuning**
Previously called "Dynamic Platform and Thermal Framework (DPTF)"



Advanced

HP Computer Setup

Item Specific Help



Advanced

HP Computer Setup

Built-In Device Options

Wake On LAN

Video memory size

Audio Device **1**

Microphone

Internal Speakers

Headphone Output

Lock Wireless Button

Wireless Network Device (WLAN)

Bluetooth

HP LAN-Wireless Protection

LAN/WLAN Auto Switching

Fan Always on while on AC Power

Boost converter

Backlit keyboard timeout

Integrated Camera

Fingerprint device

Touch Device

Disable battery on next shut down

Item Specific Help

1. Audio Device

Hides the Audio device from OS.

2. Disable battery on next shut down

Set this item to 'Next shut down' to disconnect the battery.

This is to maintain battery life in situations where the system will not be used for long periods of time. Once in this state, AC power must be disconnected and reconnected to turn the system back on.



Advanced

HP Computer Setup

Port Options

- USB Legacy Port Charging **1**
- Disable Charging Port
in sleep/off if battery below (%): 10
- Thunderbolt Type-C Ports

Item Specific Help

- 1. USB Legacy Port Charging**
Enable USB Charging port for charging capability when system Hibernate/Shutdown



Advanced

HP Computer Setup

Power Management Options

Runtime Power Management **1**

Extended Idle Power States **2**

Power Control

Battery Health Manager

HP will balance your battery health and battery duration [Enabled]

Item Specific Help

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



Advanced

HP Computer Setup

MAC Address Pass Through

Host Based MAC Address

Item Specific Help



Advanced

HP Computer Setup

Thunderbolt Options

Thunderbolt Mode

Item Specific Help

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



Advanced

HP Computer Setup

Electronic Labels

Item Specific Help

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



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