Computer Setup User Guide

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Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

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1 Starting Computer Setup

Computer Setup is a preinstalled, ROM-based utility that can be used even when the operating system is not working or will not load.

NOTE: Some of the Computer Setup menu items listed in this guide may not be supported by your computer.

NOTE: An external keyboard or mouse connected to a USB port can be used with Computer Setup only if USB legacy support is enabled.

To start Computer Setup, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.

2 Using Computer Setup

Navigating and selecting in Computer Setup

The information and settings in Computer Setup are accessed from the File, Security, Diagnostics, and System Configuration menus.

To navigate and select in Computer Setup, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
 - To select a menu or a menu item, use the tab key and the keyboard arrow keys and then press enter, or use a pointing device to click the item.
 - To scroll up and down, click the up arrow or the down arrow in the upper-right corner of the screen, or use the up arrow key or the down arrow key.
 - To close open dialog boxes and return to the main Computer Setup screen, press esc, and then follow the on-screen instructions.
 - NOTE: You can use either a pointing device (TouchPad, pointing stick, or USB mouse) or the keyboard to navigate and make selections in Computer Setup.
- 2. Press f10 to enter BIOS Setup.
- 3. Select the File, Security, Diagnostics, or System Configuration menu.

To exit Computer Setup menus, choose one of the following methods:

• To exit Computer Setup menus without saving your changes, click the **Exit** icon in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the tab key and the arrow keys to select **File > Ignore changes and exit**, and then press enter.

– or –

 To save your changes and exit Computer Setup menus, click the Save icon in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the tab key and the arrow keys to select **File > Save changes and exit**, and then press enter.

Your changes go into effect when the computer restarts.

Restoring factory settings in Computer Setup

NOTE: Restoring defaults will not change the hard drive mode.

To return all settings in Computer Setup to the values that were set at the factory, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- 3. Use a pointing device or the arrow keys to select **File > Restore defaults**.
- 4. Follow the on-screen instructions.
- 5. To save your changes and exit, click the **Save** icon in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the arrow keys to select File > Save changes and exit, and then press enter.

Your changes go into effect when the computer restarts.

NOTE: Your password settings and security settings are not changed when you restore the factory settings.

3 Computer Setup menus

The menu tables in this section provide an overview of Computer Setup options.

NOTE: Some of the Computer Setup menu items listed in this chapter may not be supported by your computer.

File menu

Select	To do this
System Information	 View identification information for the computer and the batteries in the system.
	 View specification information for the processor, cache and memory size, system ROM, video revision, and keyboard controller version.
Set System Date and Time	Set or change the date and time on the computer.
Restore defaults	Replace the configuration settings in Computer Setup with the original factory settings. (Hard drive mode, password settings, and security settings are not changed when you restore the factory settings.)
Ignore changes and exit	Cancel any changes entered during the current session. Then exit and restart the computer.
Save changes and exit	Save any changes entered during the current session. Then exit and restart the computer. Your changes go into effect when the computer restarts.

Security menu

NOTE: Some of the menu items listed in this section may not be supported by your computer.

Select	To do this
Setup BIOS Administrator Password	Set up a BIOS administrator password.
User Management (requires a BIOS administrator password)	Create a new BIOS user account.
	• View a list of ProtectTools users.
Password Policy (requires a BIOS administrator password)	Revise password policy criteria.
HP SpareKey	Enable/disable HP SpareKey (enabled by default).
Always Prompt for HP SpareKey Enrollment	Enable/disable HP SpareKey enrollment (enabled by default).
Fingerprint Reset on Reboot (If Present)	Reset/clear the fingerprint reader ownership (select models only; disabled by default).
Allow Reset of HP ProtectTools security keys	Enable/disable reset of HP ProtectTools security keys.
Change Password	Enter, change, or delete a BIOS administrator password.
HP SpareKey Enrollment	Enroll or reset HP SpareKey, which is a set of security questions and answers used if you forget your password.
DriveLock Passwords	 Enable/disable DriveLock on any computer hard drive (enabled by default).
	• Change a DriveLock user password or master password.
	NOTE: DriveLock settings are accessible only when you enter Computer Setup by turning on (not restarting) the computer.
TPM Embedded Security	Enable/disable support for Trusted Platform Module (TPM) Embedded Security, which protects the computer from unauthorized access to owner functions available in Embedded Security for ProtectTools. For more information, refer to the ProtectTools software Help.
	NOTE: You must have a setup password to change this setting.
Automatic DriveLock	Enable/disable Automatic DriveLock support.
Disk Sanitizer	Run Disk Sanitizer to destroy all existing data on the primary hard drive or the drive in the upgrade bay.
	CAUTION: If you run Disk Sanitizer, the data on the selected drive is destroyed permanently.
System IDs	Enter a user-defined computer asset tracking number and ownership tag.

Diagnostics menu

Select	To do this
System Diagnostics menu	 F1 System Information—Displays the following information:
	 Identification information for the computer and the batteries in the system.
	 Specification information for the processor, cache and memory size, system ROM, video revision, ar keyboard controller version.
	 F2 Start-up Test—Verifies the system components needed for starting the computer.
	 F3 Run-In Test—Runs a comprehensive check on system memory.
	 F4 Hard Disk Test—Runs a comprehensive self-test or any hard drive in the system.
	 F5 Error Log—Displays a log file if any errors have occurred.

System Configuration menu

Select	To do this
Language	Change the Computer Setup language.
Boot Options	• Set a Startup Menu delay (in seconds).
	Enable/disable Custom Logo (disabled by default).
	 Enable/disable Display Diagnostic URL (enabled by default).
	Enable/disable CD-ROM boot (enabled by default).
	Enable/disable SD Card boot (enabled by default).
	Enable/disable floppy boot (enabled by default).
	 Enable/disable PXE Internal NIC boot (enabled by default).
	• Set the Express Boot Popup delay in seconds.
	• Set the boot order.
Device Configurations	 Enable/disable USB legacy support (enabled by defau When enabled, USB legacy support allows the following:
	 Use of a USB keyboard in Computer Setup even when a Windows[®] operating system is not runnir
	 Startup from bootable USB devices, including a had drive, diskette drive, or optical drive connected by USB port to the computer.
	 Select a parallel port mode: ECP (Enhanced Capabiliti Port), standard, bidirectional, or EPP (Enhanced Paral Port).
	 Enable/disable fan always on while connected to an A outlet (enabled by default).
	 Enable/disable LAN Power Save (select models only). When enabled, saves power by turning off the LAN wh not in use (enabled by default).
	 Enable/disable Data Execution Prevention. When enabled, the processor can disable some virus code execution, which helps to improve computer security.
	 SATA (Serial Advanced Technology Attachment) devi mode. The following options are available:
	 AHCI (Advanced Host Controller Interface)
	 IDE (Integrated Drive Electronics)
	 RAID (select models only)
	NOTE: Availability of the options above varies by computer model.

Select	To do this
	 Enable/disable secondary battery fast charge (enabled by default).
	Enable/disable HP QuickLook 2 (enabled by default).
	 Enable/disable Virtualization Technology (select models only; disabled by default).
	 Enable/disable TXT (Intel® Trusted Execution Technology) (select models only; disabled by default).
	 Enable/disable Dual Core CPU (select models only; enabled by default).
	 Enable/Disable Unified Extensible Firmware Interface (UEFI) mode (disabled by default).
Built-In Device Options	 Enable/disable the wireless button state (enabled by default).
	 Enable/disable embedded WWAN device radio (select models only; enabled by default).
	 Enable/disable embedded Bluetooth[®] device radio (enabled by default).
	 Enable/disable the Network Interface Controller (LAN) (enabled by default).
	 Set the wake on LAN state. Options include the following:
	• Disabled
	 Boot to Network (set by default)
	Follow Boot Order
	 Enable/disable the fingerprint device (enabled by default).
	• Enable/disable a modem device (enabled by default).
	 Enable/disable the embedded WLAN device (enabled b default).
	 Enable/disable LAN/WLAN switching (disabled by default).
	• Enable the ambient light sensor (enabled by default).
	 Enable/disable the Notebook Multibay device (enabled b default).
	 Enable/disable the integrated camera (select models only; enabled by default).
Port Options (all are enabled by default)	NOTE: All port options are enabled by default.
	Enable/disable the Smart Card slot.
	Enable/disable the ExpressCard slot.
	Enable/disable the serial port.

Select	To do this
	Enable/disable the parallel port.
	• Enable/disable the flash media reader.
	• Enable/disable the USB port.
	CAUTION: Disabling the USB port also disables MultiBay devices and ExpressCard devices on the advanced port replicator.
	• Enable/disable the 1394 port.
AMT Options	NOTE: All AMT options are disabled by default.
	Enable/disable Firmware Verbosity.
	• Enable/disable AMT Setup Prompt (CTRL-P).
	Enable/disable USB Key Provisioning Support.
	Enable/disable Unconfigure AMT on Next Boot.
	Enable/disable Terminal Emulation Mode
	Enable/disable Firmware Progress Event Support.
	• Enable/disable include TYPE-131 in SMBIOS.
Set Security Level	Change, view, or hide security levels for all BIOS menu items.
Restore Security Defaults	Restore the default security settings.

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