



2009 HP BUSINESS NOTEBOOK PC F10 SETUP OVERVIEW

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Background

For decades, HP has provided unique customer value through our internally developed BIOS. This has allowed HP to provide a high degree of integration between the firmware and HP Professional Innovations such as HP ProtectTools, HP Wireless Assistant and HP QuickLook. Options for many of these features are configured through F10 Setup, the BIOS configuration user interface provided with HP PCs.

In mid-2008, HP introduced an updated version of F10 Setup on new models. This enhanced F10 Setup provides users with an intuitive graphical user interface which leverages from the design used with the HP ProtectTools BIOS Configuration module.

Overview

Since 1999, HP Compaq business notebooks have utilized a text based F10 Setup which provided users with access to a broad set of functions and configuration options, but required keyboard navigation. In 2008, a new F10 Setup user interface has been developed using the Extensible Firmware Interface (EFI) framework, which provides a flexible pre operating system environment. While there are significant improvements to the user interface, features and functionality are not impacted by this change.

Supported Models

All 2009 s, b, p and w business notebook and tablet models

- 8740
- 8540
- 8440
- 6550
- 6450
- 6440
- 4720
- 4520
- 4420
- 4320
- 2740
- 2540

New Features

- Microphone disable
- Intel Anti Theft
- HP QuickWeb

Features

HP F10 Setup provides access to the impressive set of features support by HPs ROM BIOS (Read Only Memory Basic Input/Output System). The BIOS is the set of routines that enable a computer

to load the operating system and communicate with the various devices, such as storage drives, keyboard, display, slots, and ports.

HP F10 Setup features are separated in several groups or categories:

File – Provides access to general options such as view system information, set date and time, exit F10 Setup with and without saving changes to settings and System Diagnostics.

Security – Provides access to security related options such as power on and DriveLock passwords, integrated security device configuration, Disk Sanitizer, Intel Anti Theft and asset tag configuration.

System Configuration – Provides access to boot options, integrated device configuration, port options, AMT options (on select models), and F10 Setup feature access options.

HP F10 Setup for business notebooks had extensive language support. The new graphical user interface can be displayed in English, French, German, Spanish, Italian, Dutch, Danish, Japanese, Norwegian, Portuguese, Swedish or Finnish. Switching languages is simple using the Language selection options available from the System Configuration page.

For a detail list of F10 Setup options, please refer to Table 1.

Table 1. Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
FILE MENU		
System Information	Provides key system information, such as serial number, model number, CPU type, and memory configuration.	N/A
Set System Date and Time	Allows configuration of the date and time.	Set Date (MM/DD/YYYY) Set Time (HH:MM)
System Diagnostics	Provides access to diagnostic features, such as start-up test, run-in test and a hard disk test.	
<ul style="list-style-type: none"> • System Information 	Provides system information, such as serial number, model number, CPU type, and memory configuration.	Escape to Cancel
<ul style="list-style-type: none"> • Start-Up Test 	Performs diagnostics check on memory and hard disk.	Escape to Cancel
<ul style="list-style-type: none"> • Run-In Test 	Performs a continuous diagnostics check on memory and hard disk.	Escape to Cancel
<ul style="list-style-type: none"> • Hard Disk Test 	Performs hard drive diagnostics check.	Escape to Cancel
Restore Defaults	Restores F10 settings to factory defaults.	N/A
Reset BIOS security to factory default	Resets all the BIOS and Protect Tool Users, clears fingerprint tokens and reset the TPM	
Ignore Changes and Exit	Exit F10 Setup without saving any changes made during the current session.	Yes, No or Cancel
Save Changes and Exit	Exit F10 Setup and save all changes made during the current session.	Yes, No or Cancel
SECURITY MENU		
<i>Administrator Tools</i>		
Setup BIOS Administrator Password	Establish a power on password with Administrator privileges	N/A

Table 1. (Continued) Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
SECURITY MENU		
User Management	Manage (create/delete/reset password) the BIOS and Protect Tool Users	
<ul style="list-style-type: none"> • Create New BIOS User Account 	Creates additional BIOS user accounts.	Administrator enters User ID Privilege level. Password is set to User ID by default, but can be changed by user.
Password Policy	Allows to select various rules for a BIOS password to qualify	
<ul style="list-style-type: none"> • Password Minimum Length 	Allows administrator to specify the minimum number of characters required for an F10 power on password.	4 minimum 32 maximum (8)
<ul style="list-style-type: none"> • At least one symbol required 	Allows administrator to require at least one symbol, such as \$,% ^,& or # for an F10 power on password.	Yes/ No
<ul style="list-style-type: none"> • At least one number required 	Allows administrator to require at least one number, such as 1,2,3 or 4 for an F10 power on password.	Yes/ No
<ul style="list-style-type: none"> • At least one upper case character required 	Allows administrator to require at least one upper case character, such as A,B,C or D for an F10 power on password.	Yes/ No
<ul style="list-style-type: none"> • At least one lower case character required 	Allows administrator to require at least one upper case character, such as a,b,c or d for an F10 power on password.	Yes/ No
<ul style="list-style-type: none"> • Are spaces allowed in Password? 	Allows administrator to allow spaces in an F10 power on password, such as "New York".	Yes/ No
HP SpareKey	Allows users to establish a set of failsafe questions in the event that the power on password is lost or forgotten.	Enabled/Disabled
Always Prompt for HP SpareKey Enrollment	Allows administrator to specify if the system should prompt users for HP SpareKey enrollment during POST.	Enabled/Disabled
Fingerprint Reset on Reboot (If Present)		Enabled/ Disabled

Table 1. (Continued) Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
SECURITY MENU		
<i>User Tools</i>		
Change Password	Change power on password	N/A
HP SpareKey Enrollment	Allows for user configuration of HP SpareKey.	Answer any three of ten questions for enrollment. Reset Sparekey Question & Answers
Anti Theft	Allows for configuration of Intel Anti Theft feature.	Enabled/Disabled
DriveLock Password	Allows for configuration of DriveLock Master and User passwords.	Notebook Hard Drive Cancel
Automatic DriveLock		Notebook Hard Drive Cancel
TPM Embedded Security	Manage the TPM module settings	
<ul style="list-style-type: none"> • Embedded Security Device Availability 	Exposes the integrated TPM module.	Available/Hidden
<ul style="list-style-type: none"> • Embedded Security Device State 	Enables the integrated TPM module.	Enabled/ Disabled
<ul style="list-style-type: none"> • Factory Defaults 	Set TPM Embedded Security settings to factory default	Yes/No
<ul style="list-style-type: none"> • Power-On Authentication Support 	Enables multi-factor authentication at power on.	Enabled/ Disabled
<ul style="list-style-type: none"> • Reset Authentication Credential 	Resets credentials.	Yes/ No
<ul style="list-style-type: none"> • OS Management of TPM 	Allow the operating system to manage TPM module.	Enabled/Disabled
<ul style="list-style-type: none"> • Reset of TPM from OS 	Allows reset of TPM module from within the operating system.	Enabled/ Disabled
Disk Sanitizer	Performs erasure of all data on selected hard drive. Typically used prior to repurposing or donation	Notebook Hard Drive Cancel

Table 1. (Continued) Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
SECURITY MENU		
System IDs		
• Notebook Asset Tag	Allows for custom configuration of an asset tag.	Serial Number
• Notebook Ownership Tag	Allows for custom configuration of an ownership tag.	Blank
• Notebook Ownership Tag 2	Allows for custom configuration of an ownership tag.	Blank
SYSTEM CONFIGURATION MENU		
Boot Options		
• Startup Menu Delay (Sec.)	Amount of time the Startup Menu will be displayed during POST.	0-35 econds in increments of 5
• Express Boot Popup Delay (Sec)	Amount of time the Express Boot option will be displayed	0-35 econds in increments of 5
• Custom Logo	Enables the use of a custom logo screen during POST.	Enabled/ Disabled
• Display Diagnostics URL	Display web address for diagnostics.	Enabled/Disabled
• CD-ROM boot	Allows for boot from optical media.	Enabled/Disabled
• SD Card boot	Allows for boot from SD Card.	Enabled/Disabled
• Floppy boot	Allows for boot from USB floppy.	Enabled/Disabled
• PXE Internal NIC boot	Allows for boot from LAN.	Enabled/Disabled
• UEFI Boot Mode	Enables UEFI boot mode.	Enabled/ Disabled
• Legacy Boot Order	Specify the boot order.	NB Upgrade Bay, NB Hard Drive, USB Floppy, USB CD-ROM, USB Hard Drive, NB Ethernet, SD Card, Dock Upgrade Bay
Device Configurations		
• USB Legacy Support	Enables mouse/keyboard support.	Enabled/Disabled
• Parallel port mode	Specifies parallel port mode.	ECP , Standard, Bidirectional, EPP

Table 1. (Continued) Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
SYSTEM CONFIGURATION MENU		
Device Configurations (contd.)		
• Fan Always on while on AC	Leave fan on while on AC.	Enabled/Disabled
• Data Execution Prevention	Enables DEP on Intel based systems.	Enabled/Disabled
• LAN Power Save	Enables LAN power save option	Enabled/Disabled
• SATA Device Mode	Enable SATA for internal drives.	AHCI/IDE/RAID
• HP DayStarter	Displays your calendar and battery charge while your system boots Windows.	Enabled/Disabled
• Secondary Battery Fast Charge	Switches charging to secondary battery when primary battery is 90% charged to optimize charge cycle.	Enabled/Disabled
• HP QuickLook	Info button access to HP QuickLook.	Enabled/Disabled
• Preboot Authentication on HP QuickLook Boot	Enables user authentication before accessing QuickLook.	Enabled/Disabled
• HP QuickWeb	Enables quick access to web when QuickWeb button is pressed	Enabled/Disabled
• HP QuickWeb: Write Protect	?	Enabled/ Disabled
• Virtualization Technology	Enables VT on Intel based systems.	Enabled/ Disabled
• TXT Technology	Enables TXT on Intel based systems.	Enabled/ Disabled
• Multi Core CPU	Enables dual/quad processor cores.	Enabled/Disabled
• Intel ® HT Technology	Enables HT on Intel based systems.	Enabled/Disabled
• Wake on USB	Auto start or resume from standby when USB device in connected.?	Enabled/Disabled
• Numlock on at boot	Enables numlock at boot	Enabled/ Disabled
Built-In Device Options		
• Wireless Button State	Enables wireless button	Enabled/Disabled

Table 1. (Continued) Key features for F10 Setup on select 2009 HP business notebook PCs

Feature	Function	Options (Default in Bold where applicable)
SYSTEM CONFIGURATION MENU		
Built-In Device Options (contd.)		
• Embedded WWAN Device	Enables integrated ? device.	Enabled/Disabled
• Embedded WLAN Device	Enables integrated 802.11 device.	Enabled/Disabled
• Embedded Bluetooth Device	Enables integrated bluetooth device.	Enabled/Disabled
• Network Interface Controller (LAN)	Enables integrated NIC device.	Enabled/Disabled
• LAN/WLAN Switching	Enables automatic switching.	Enabled/ Disabled
• Wake on LAN	Enables the system to wake when a magic packet is received via LAN.	Disabled/Boot to Network/Follow Boot order
• Ambient Light Sensor	Enables Ambient Light Sensor	Enabled/Disabled
• Notebook Upgrade Bay	Enables integrated Upgrade bay.	Enabled/Disabled
• Fingerprint Device	Enables fingerprint reader.	Enabled/Disabled
• Integrated Camera	Enables integrated camera.	Enabled/Disabled
• Power Monitor Circuit	Enables power monitor circuit.	Enabled/Disabled
• Audio Device	Enables audio device.	Enabled/Disabled
• Modem Device	Enables integrated modem.	Enabled/Disabled
• Microphone	Enables microphone port.	Enabled/Disabled
• Internal speakers	Enables internal speakers.	Enabled/Disabled
Port Options		
• Serial Port	Enables integrated serial port.	Enabled/Disabled
• Parallel Port	Enables integrated parallel port.	Enabled/Disabled
• Flash media reader	Enables integrated SD Card reader.	Enabled/Disabled
• USB Port	Enables integrated USB port.	Enabled/Disabled
• 1394 Port	Enables integrated 1394 port.	Enabled/Disabled
• Express Card Slot	Enables integrated express card slot.	Enabled/Disabled

Feature	Function	Options (Default in Bold where applicable)
SYSTEM CONFIGURATION MENU		
Port Options (contd.)		
• Smart Card	Enables integrated smart card slot.	Enabled/Disabled
• eSATA	Enables integrated eSATA port.	Enabled/Disabled
AMT Options		
• Firmware Verbosity	Display AMT text during POST.	Enabled/ Disabled
• AMT Setup Prompt (Ctrl-P)	Prompts for AMT setup during POST.	Enabled/ Disabled
• USB Key Provisioning	Allow AMT provisioning using USB disk on key.	Enabled/ Disabled
• Unconfigure AMT on next boot	Reset AMT configuration options on next boot.	Enabled/ Disabled
• Terminal Emulation Mode	Specify terminal emulation mode.	ANSI/VT100
• Firmware Progress Event Support		Enabled/ Disabled
• Initiate Intel CIRA	Enabled Intel's CIRA feature	Enabled/Disabled
Set Security Level	Allows administrator to restrict visibility or configurability of F10 Setup options for standard users	
Restore Security Defaults	Restores the security level of F10 Setup options to default.	
BIOS Power-On	?	

For more information

HP Technology Center <http://www.hp.com/go/techcenter>



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