

Computer Setup (F10) Utility Guide - dx2250 Microtower Model

HP Compaq Business PC



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Computer Setup (F10) Utility Guide

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About This Book

This guide provides instructions on how to use Computer Setup. This tool is used to reconfigure and modify computer default settings when new hardware is installed and for maintenance purposes.



WARNING! Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.



NOTE: Text set off in this manner provides important supplemental information.

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Computer Setup (F10) Utility

Computer Setup (F10) Utilities

Use Computer Setup (F10) Utility to do the following:

- Change factory default settings.
- Set the system date and time.
- Set, view, change, or verify the system configuration, including settings for processor, graphics, memory, audio, storage, communications, and input devices.
- Modify the boot order of bootable devices such as hard drives, diskette drives, optical drives, or USB flash media devices.
- Restrict a device from booting the unit.
- Run hard drive self-tests.
- View CPU and system temperatures.
- Enter the Asset Tag or property identification number assigned by the company to this computer.
- Establish a supervisor password that controls access to Computer Setup (F10) Utility and the settings described in this section.
- Secure integrated I/O functionality, including the serial, USB, or parallel ports, audio, or embedded NIC, so that they cannot be used until they are unsecured.
- Enable or disable removable media boot ability.
- Enable or disable legacy diskette write ability (when supported by hardware).

Using Computer Setup (F10) Utilities

Computer Setup can be accessed only by turning the computer on or restarting the system. To access the Computer Setup Utilities menu, complete the following steps:

1. Turn on or restart the computer.
2. As soon as the computer is turned on, press **F10** when the monitor light turns green to enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



NOTE: If you do not press **F10** at the appropriate time, you must restart the computer and again press **F10** when the monitor light turns green to access the utility.

3. The Computer Setup Utility screen is divided into menu headings and actions.

Eight menu headings appear on the Computer Setup Utility screen:

- System Information
- Standard CMOS Features
- Advanced BIOS Features
- Advanced Chipset Features
- Integrated Peripherals
- Power Management Setup
- PC Health Status

Five action choices are listed on the Computer Setup Utility screen:

- Load Optimized Defaults
- Set Supervisor Password
- Set User Password
- Save & Exit Setup
- Exit Without Saving

Use the arrow keys to select the appropriate heading, then press [Enter](#). Use the arrow (up and down) keys to select the option you want, then press [Enter](#). To return to the previous screen, press [Esc](#).

4. To apply and save changes, press [F10](#) or select **Save & Exit Setup** on the Computer Setup Utility screen and press [Enter](#).

If you have made changes that you do not want applied, select **Exit Without Saving** and press [Enter](#).



CAUTION: Do NOT turn the computer power OFF while the ROM is saving the Computer Setup (F10) changes because the CMOS could become corrupted. It is safe to turn off the computer only after exiting the F10 Setup screen.

Table 1 Computer Setup (F10) Utility Main Menu

Heading	Table
System Information	Table 2 Computer Setup—System Information on page 3
Standard CMOS Features	Table 3 Computer Setup—Standard CMOS Features on page 4
Advanced BIOS Features	Table 4 Computer Setup—Advanced BIOS Features on page 6
Advanced Chipset Features	Table 5 Computer Setup—Advanced Chipset Features on page 7
Integrated Peripherals	Table 6 Computer Setup—Integrated Peripherals on page 8
Power Management Setup	Table 7 Computer Setup—Power Management Setup on page 9

Table 1 Computer Setup (F10) Utility Main Menu (continued)

PC Health Status	Table 8 Computer Setup—PC Health Status on page 10
(Action Choices)	Table 9 Computer Setup—(Action Choices) on page 10

Computer Setup—System Information



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 2 Computer Setup—System Information

Option	Description
Product Name	(view only)
SKU Number	(view only)
Processor Type	(view only)
Processor Speed	(view only)
Cache Size	(view only)
Memory Size	(view only)
System ROM	(view only)
Integrated MAC	(view only)
UUID	(view only)
System Serial #	(view only)
Asset Tracking Number	(view only)
Enter Asset Tag No.	Enter asset tag number assigned by the company (maximum 18 characters).

Computer Setup—Standard CMOS Features



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 3 Computer Setup—Standard CMOS Features

Option	Description
Date (mm:dd:yy)	Allows you to set system date.
Time (hh:mm:ss)	Allows you to set system time.
PATA Controller	Disables/enables PATA Controller.
PATA Ch 0 Master	For each, if PATA HDD is used, allows you to:
PATA Ch 0 Slave	<ul style="list-style-type: none">• run HDD self-test for selected channel:<ul style="list-style-type: none">• SMART Status Check• HDD Short Self-Test• HDD Extended Self-Test• set PATA Ch 0 Master/Slave device details on selected channel to:<ul style="list-style-type: none">• None• Auto• Manual• set access mode on selected channel to:<ul style="list-style-type: none">• CHS (Cylinder-Head-Sector)• LBA (Logical Block Addressing)• Large• Auto• view:<ul style="list-style-type: none">• Firmware Version• Capacity• Cylinder• Head• Precomp• Landing Zone• Sector
SATA Controller	Disables/enables onboard SATA controller.
SATA Mode	Allows you to set the onboard SATA mode to: <ul style="list-style-type: none">• Native IDE• Legacy IDE

Table 3 Computer Setup—Standard CMOS Features (continued)

SATA Ch 1 Master	For each, allows you to:
SATA Ch 1 Slave	<ul style="list-style-type: none">• run HDD self-test for selected channel:
SATA Ch 2 Master	<ul style="list-style-type: none">• SMART Status Check
SATA Ch 2 Slave	<ul style="list-style-type: none">• HDD Short Self-Test• HDD Extended Self-Test• set extended IDE drive on selected channel to:<ul style="list-style-type: none">• None• Auto• set access mode on selected channel to:<ul style="list-style-type: none">• Large• Auto• view:<ul style="list-style-type: none">• Firmware Version• Capacity• Cylinder• Head• Precomp• Landing Zone• Sector
Floppy Controller	Disables/enables the floppy disk controller.
Drive A	Allows you to set Drive A to: <ul style="list-style-type: none">• None• 1.44M, 3.5 in.
Halt On	Allows you to set POST error behavior to: <ul style="list-style-type: none">• All Errors• No Errors• All but Keyboard• All but Diskette• All but Diskette/Keyboard
POST Delay	Allows you to set a POST delay to: <ul style="list-style-type: none">• 0 seconds• 5 seconds• 10 seconds

- 15 seconds
- 30 seconds

Computer Setup—Advanced BIOS Features



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 4 Computer Setup—Advanced BIOS Features

Option	Description
Device Boot Disabling	Allows you to restrict a device from booting the unit. You can disable as a bootable device: <ul style="list-style-type: none"> • None • USB • Internal ODD • Internal FDD • USB + ODD + FDD
F9 Boot Menu	Disables/enables F9 Boot Menu.
Factory Recovery Boot	Disables/enables the ability to boot to the Recovery partition at startup. Enabling this feature will add the <F11>Recovery prompt to the startup window.
F11 Prompt	Disables/enables the <F11>Recovery prompt at startup. However, if this feature is disabled and the Factory Recovery Boot is enabled, pressing F11 will still boot the computer to the Recovery partition.
Hard Disk Boot Seq.	Allows you to specify the order of attached hard drive devices (such as USB HDD storage, USB2 Drive Key, or USB flash media). The first drive in the order has priority in the boot sequence and is recognized as drive C (if any devices are attached).
Optical Drive Boot Seq.	Allows you to specify the order in which attached optical drives (including USB ODD) are checked for a bootable operating system image.
Network Boot Seq.	Allows you to specify the order in which network devices (including UP NIC cards) are checked for a bootable operating system image.
First Boot Device	Allows you to specify which devices will boot first, second, third, and fourth or to disable any of the four: <ul style="list-style-type: none"> • Removable • Hard Disk • CDROM • Network • Disabled
Second Boot Device	
Third Boot Device	
Fourth Boot Device	
	<p>NOTE: MS-DOS drive lettering assignments may not apply after a non-MS-DOS operating system has started.</p>
Boot Up NumLock Status	Allows you to set the default NumLock status to off or on.

Table 4 Computer Setup—Advanced BIOS Features (continued)

Security Option	Allows you to set the security option to Setup or System so that the password is required every time the system boots or only when entering Computer Setup.
BIOS Write Protect	Disables/enables BIOS Write Protect function.
AMD NX Function	Disables/enables AMD NX Function.

Computer Setup—Advanced Chipset Features



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 5 Computer Setup—Advanced Chipset Features

Option	Description
UMA Frame Buffer	Select the UMA (Unified Memory Architecture) frame buffer size: <ul style="list-style-type: none">• 32MB• 64MB• 128MB• 256MB• Recommended (system allocates memory automatically)
Init Display First (VGA Setting)	Allows you to select the primary display device: <ul style="list-style-type: none">• PCI Slot• OnChipVGA• PCIEx
SURROUNDVIEW (VGA Setting)	Disables/enables SURROUNDVIEW (available when an ATI PCIEx video card is installed).
Auto Detect PCI Clk (VGA Setting)	Disables/enables PCI clock auto-detection.
Spread Spectrum (VGA Setting)	Disables/enables Spread Spectrum.

Computer Setup—Integrated Peripherals



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 6 Computer Setup—Integrated Peripherals

Option	Heading
Onboard HD Audio	Disables/enables onboard HD audio.
OnChip USB Controller	Disables/enables USB controller.
USB Legacy Support	Disables/enables USB legacy support function (USB keyboard, USB mouse, and USB flash media).
Onboard LAN	Disables/enables onboard LAN controller.
Onboard LAN Boot ROM	Disables/enables the boot ROM of the onboard LAN chip.
Onboard Serial Port	Allows you to select a setting for the onboard serial port: <ul style="list-style-type: none">• Disabled• 3F8/IRQ4• 2F8/IRQ3• 3E8/IRQ4• 2E8/IRQ3
Onboard Parallel Port	Allows you to select a setting for the onboard parallel port: <ul style="list-style-type: none">• Disabled• 378/IRQ7• 278/IRQ5• 3BC/IRQ7
Parallel Port Mode	Allows you to select parallel port mode: <ul style="list-style-type: none">• SPP• EPP• ECP• ECP+EPP• Normal

Computer Setup—Power Management Setup



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 7 Computer Setup—Power Management Setup

Option	Heading
After AC Power Loss	Allows you to select system power loss behavior: <ul style="list-style-type: none">• On• Off• Last State
External Modem S5 Wake-Up	Disables/enables wake-up modem from S5.
Wake on PCI Device from S5	Disables/enables PCI S5 on power on.
AMD Cool'n'Quiet	Disables/enables the AMD Cool'n'Quiet feature.
HPET Support	Disables/enables HPET (high precision event timer). This feature can be disabled if it causes a resource conflict in the OS.
RTC Alarm Resume	Disables/enables RTC (real-time clock) alarm.
Date (of Month)	If RTC Alarm Resume is enabled, allows you to select the day of the month for resumption of RTC alarm. (Set to 0 for every day.)
Resume Time (hh:mm:ss)	If RTC Alarm Resume is enabled, allows you to select what time the RTC alarm will resume.

Computer Setup—PC Health Status



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 8 Computer Setup—PC Health Status

Option	Description
System Fan Fail Check	Disables/enables system fan detection during POST.
Smart Fan Function	Disables/enables smart fan functionality.
Current CPU Temperature	(view only)
Current System Temperature	(view only)
Current CPU Fan Speed	(view only)
Current System Fan Speed	(view only)
Vcore	(view only)
+12V	(view only)
VCC5	(view only)
+3.3V	(view only)
VBAT (V)	(view only)
3VSB (V)	(view only)

Computer Setup—(Action Choices)



NOTE: Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 9 Computer Setup—(Action Choices)

Option	Description
Load Optimized Defaults	Allows you to reset Computer Setup to factory defaults.
Set Supervisor Password	Allows you to establish a password to control access to Computer Setup.
Set User Password	Allows you to establish a password to control access to the computer. (Supervisor password must be set before you can set a User password.)
Save & Exit Setup	Allows you to save current settings and exit Computer Setup.
Exit Without Saving	Allows you to exit Computer Setup without saving changes.

Recovering the Configuration Settings

Recovering the configuration settings established in the Computer Setup (F10) Utility requires that you first back up the settings before a recovery is needed.

The CMOS Save/Load utility can be found at <http://www.hp.com> under the Software & Driver Downloads for your specific model. Download the firmware files into a folder on a removable storage device. It is recommended that you save any modified computer configuration settings to a diskette, a USB flash media device, or a diskette-like device (a storage device set to emulate a diskette drive) and save the diskette or device for possible future use.

Backing Up the CMOS

1. Make sure the computer to be backed up is turned on. Connect the removable storage to the computer.
2. Boot to DOS.
3. Type `N:\folder\BIOS.exe SAVE:ABC001.DAT` (where N is the drive letter of the removable storage) to save the CMOS setting to the removable storage device.

Restoring the CMOS

1. Make sure the target computer is turned on. Connect the removable storage to the target computer.
2. Boot to DOS.
3. Type `N:\folder\BIOS.exe LOAD:ABC001.DAT` (where N is the drive letter of the removable storage) to load the custom CMOS setting onto the target system.

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