

Illustrated Parts & Service Map

HP EliteDesk 800 G1 - Ultra Slim Desktop



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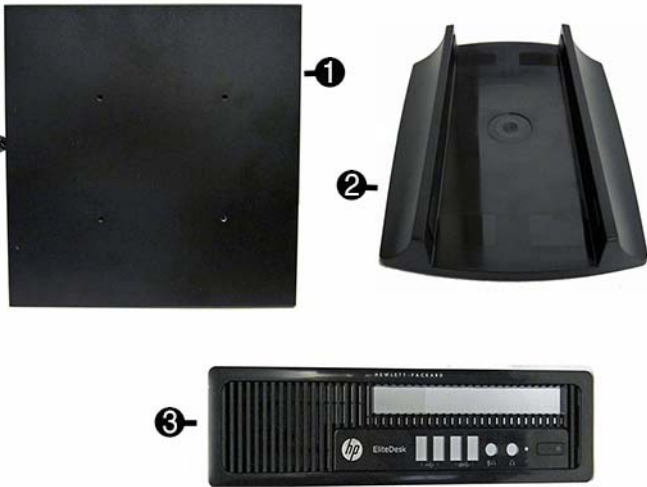
1st Edition July 2013.



Key Specifications

Processor Type	Intel® Core i7, i5
RAM Type	Non-ECC DDR3 PC3-12800 (1600 MHz) SODIMM
Maximum RAM	16 GB
Expansion Slots	<ul style="list-style-type: none"> (2) PCIe-x16 (1) PCIe-x1 (1) PCI accessory (optional)
Chipset	Intel Q87
Graphics Adapter	Integrated Intel HD graphics
Bays and Slots	<ul style="list-style-type: none"> (1) Slimline optical drive bay (1) internal 2.5-inch drive bay (1) internal mSATA connector (2) internal PCIe mini-card connector (1) internal MXM graphics connector
I/O Interfaces	Front: (2) USB 3.0 ports, (2) USB 2.0 ports, headphone jack, microphone jack Rear: (2) USB 3.0 ports, (4) USB 2.0 ports, (2) DisplayPort, VGA, PS/2 mouse and keyboard, RJ-45 network connector, 3.5mm audio in/out jacks
Preinstalled Operating Systems	<ul style="list-style-type: none"> Windows 8 Windows 7 Novell SUSE Linux Enterprise Desktop 11 FreeDOS 2.0

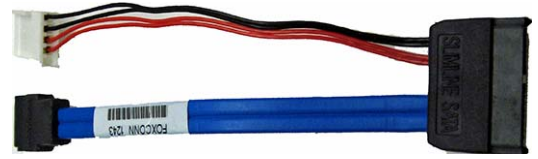
Spare Parts



System Unit

1	Access panel	732763-001
2	Stand	612496-001
3	Front bezel	732764-001
*	AC adapter, 180W, standard	613766-001
*	AC adapter, 135W, standard	648964-001
*	Bezel blank	732771-001

*Not shown



Cable and accessories

1	Optical drive cable/connector	605163-001
*	Adapter, DisplayPort to VGA	632484-001
*	Adapter, DisplayPort to DVI	662723-001
*	Adapter, DisplayPort to HDMI	617450-001
*	DisplayPort cable	487562-001

* Not shown

Keyboards (not illustrated)

PS/2	724718-xx1	
USB	724720-xx1	
Wireless	724722-xx1	
Smart card	701427-xx1	
Wireless (keyboard, mouse, dongle)	730323-xx1	
Arabic	-17x	LA Spanish
Belgian	-18x	Norwegian
Brazilian Portuguese	-20x	People's Republic of China
Bulgaria	-26x	Portuguese
Czech	-22x	Romanian
Danish	-08x	Russian
Finnish	-35x	Saudi Arabia
French	-05x	Slovakian
French Canadian	-12x	South Korea
German	-04x	Spanish
Greek	-15x	Swedish
Hebrew	-BBx	Swiss
Hungarian	-21x	Taiwanese
International	-37x	Thai
International English	-L3x	Turkish
Italian	-06x	U.S.
Japanese	-29x	U.K.

Standard and Optional Boards

System board (includes replacement thermal material)		
*	System board for use in models without Windows 8	696970-001
*	System board for use in models with Windows 8 Standard	696970-501
*	System board for use in models with Windows 8 Professional	696970-601
*	System board for use in models with NetClone	727721-001
Optional boards		
*	AMD Radeon HD 7650A 2GB MXM Graphics	708866-001
*	HP WLAN 802.11 a/b/g/n 2x2 PCIe NIC	695915-001
Memory modules (PC3-12800, CL11, SODIMM)		
*	8 GB	689374-001
*	4 GB	689373-001
*	2 GB	689372-001
Intel Core i7 processors (include thermal material)		
*	4770s, 3.1 GHz, 8-MB L3 cache	732507-001
Intel Core i5 processors (include thermal material)		
*	4670s, 3.1 GHz, 6-MB L3 cache	732506-001
*	4570s, 2.9 GHz, 6-MB L3 cache	732505-001

* Not shown



Miscellaneous Parts

1	Heat sink for use with the processor (includes thermal material)	587456-001
*	Heat sink for use on models with discrete graphics cards (includes thermal material)	689369-001
2	Power switch assembly	732767-001
3	Internal speaker	689384-001
4	Rear port cover	588981-001
5	Chassis fan, rear	732766-001
6	Front I/O panel	732762-001
7	Chassis fan, front	732765-001
*	Solenoid lock	732772-001
*	HP Ultrastim Keyed Cable Lock	703372-001
*	Optical drive rail (green plastic piece on drive)	732761-001
*	Hood sensor	638816-001
*	USB powered speakers	636917-001
*	Mouse, PS2, optical	674315-001
*	Mouse, USB, HP Elite	674318-001
*	Mouse, washable	724795-001
*	Mouse, wireless, HP Elite	674317-001
*	Mouse, USB, optical	674316-001

*Not shown

Mass Storage Devices (not illustrated)

DVD-ROM drive	608394-001
DVD±RW drive	657958-001
Blu-ray BD-RW SuperMulti XL Drive	719157-001
750 GB, 7200 rpm hard drive, hybrid SSD	719105-001
500 GB, hard drive, hybrid SSD	724938-001
500 GB, 10000 rpm hard drive	683923-001
500 GB, 7200 rpm, self-encrypting (SED) hard drive	696442-001
500 GB, 7200 rpm, Advanced Format hard drive	686217-001
500 GB, 7200 rpm hard drive	613208-001
320 GB, 7200 rpm hard drive	639135-001
256 GB Solid State Drive (SSD), self-encrypting (SED)	680020-001
128 GB Solid State Drive (SSD)	665961-001
32 GB mSATA drive	719566-001

Common POST Error Messages

Screen Message	Probable Cause	Recommended Action
101-Option ROM Error	1. System ROM checksum error. 2. Expansion board option ROM checksum	1. Verify ROM, reflash if required 2. Remove suspected card, reboot 3. Clear CMOS memory, reboot 4. Replace system board
103-System Board Failure	DMA, timers	1. Clear CMOS memory. 2. Remove expansion boards. 3. Replace system board.
164-Memory Size Error and 201-Memory Error	Incorrect memory configuration	1. Run Setup (F10). 2. Check DIMMs for proper seating, type, and HP compatibility. 3. Remove DIMMs singularly and reboot to isolate faulty DIMM. 4. Replace system board.
214-DIMM Configuration Warning	Populated DIMM configuration is not optimized	Rearrange the DIMMs so that each channel has the same amount of memory.
301-, 304-Keyboard error	Keyboard failure.	Check keyboard connection or keys. Check connector for bent or missing pins. Replace keyboard. If 304, possible system board problem.
501-Display Adapter Failure	Graphics display controller.	1. Reseat graphics card. 2. Clear CMOS. 3. Check monitor connection. 4. Replace graphics card.
1720-SMART Hard Drive Detects Imminent Failure	Hard drive is about to fail.	1. Determine if hard drive is giving correct error message. Enter Computer Setup and run the Drive Protection System test under Storage > DPS Self-test . 2. Apply hard drive firmware patch if applicable. 3. Back up contents and replace hard drive.

Password Security

Establishing a Setup or Power-On password:

1. Turn on or restart the computer.
2. As soon as the computer turns on, press the **Esc** key while "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
3. Press the **F10** key to enter Computer Setup.
4. To establish Setup password, select **Security > Setup Password** and follow the instructions.
- or -
To establish a Power-On password, select **Security > Power-On Password** and follow the instructions on the screen
5. Before exiting, click **File > Save Changes and Exit**.

Changing a Setup or Power-On password:

1. Turn on or restart the computer.
To change the Setup password, go to step 2.
To change the Power-on password, go to step 3.
2. To change the Setup password, as soon as the computer turns on:
- Press the **Esc** key while "Press the ESC key for Startup Menu" message is displayed.
- Press the **F10** key to enter Computer Setup.
3. When the key icon appears, type your current password, a slash (/) or alternate delimiter character, your new password, another slash (/) or alternate delimiter character, and your new password again as shown:
current password/new password/new password.
NOTE: Type the new password carefully since the characters do not appear on the screen.
4. Press **Enter**.

The new password will take effect the next time the computer is restarted.

Deleting a Power-On or Setup password

1. Turn on or restart the computer.
To delete the Setup password, go to step 2.
To delete the Power-On password, go to step 3.
2. To change the Setup password, as soon as the computer turns on:
- Press the **Esc** key while "Press the ESC key for Startup Menu" message is displayed.
- Press the **F10** key to enter Computer Setup.
3. When the key icon appears, type your current password followed by a slash (/) or alternate delimiter character as shown. Example: currentpassword/
4. Press **Enter**.

Clearing CMOS

1. Turn off the computer and disconnect the power cord from the power outlet.
2. Remove the access panel.
3. On the system board, press and hold the CMOS button for 5 seconds.
4. Replace the chassis access panel and reconnect the power cord.
5. Turn on the computer and allow it to start.

System Setup and Boot

Access the Setup Utility during computer boot by pressing the **F10** key. 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. NOTE: Not all settings are available for all models.

Computer Setup Menu

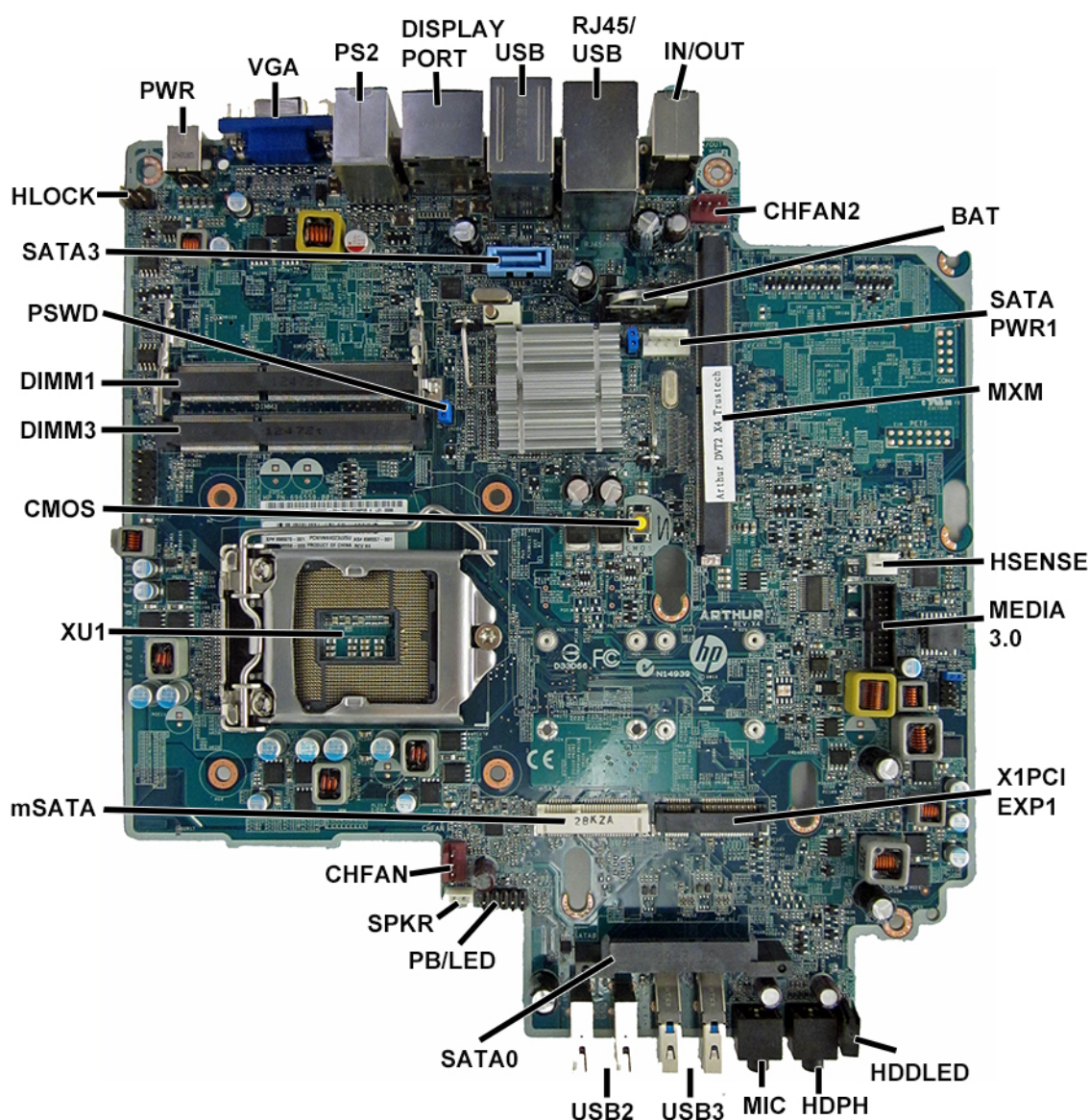
Heading	Option/Description
File	<p>System Information - Lists the following main system specifications:</p> <ul style="list-style-type: none"> Product name SKU number (some models) Processor type/speed/stepping Cache size (L1/L2/L3) Installed memory size/speed/ch Integrated MAC Address System BIOS Chassis serial number Asset tracking number ME firmware version ME management mode <p>About - Displays copyright notice.</p> <p>Set Time and Date - Allows you to set system time and date.</p> <p>Replicated Setup - Allows you to save or restore system configuration to/from a USB flash drive.</p> <p>Default Setup - Allows you to save current settings as default or restore factory settings as default.</p> <p>Apply Defaults and Exit - Applies the selected default settings and clears any established passwords.</p> <p>Ignore Changes and Exit - Exits Computer setup without saving changes.</p> <p>Save Changes and Exit - Saves changes to system configuration or default settings and exits Computer Setup.</p>
Storage	<p>Device Configuration - Lists all installed BIOS-controlled storage devices. The following options are available:</p> <ul style="list-style-type: none"> CD-ROM Hard Disk Default Values Translation Mode SSD Life Used SMART (ATA disks only) Diskette SATA Defaults <p>Storage Options - Allows you to set:</p> <ul style="list-style-type: none"> eSATA Port - Set SATA port as eSATA port for use with external drive. SATA Emulation - Choose how the SATA controller and devices are accessed by the OS. SATA Emulation choices are AHCI, RAID, or IDE. Removable Media Boot - Enables/disables ability to boot the system from removable media. Max eSATA Speed - Allows you to choose 1.5 Gbps or 3.0 Gbps as the maximum eSATA speed. By default, the speed is limited to 1.5 Gbps for maximum reliability. <p>DPS Self-Test - Execute self-tests on ATA hard drives capable of performing the Drive Protection System (DPS) self-tests.</p> <p>Boot Order - Specify boot order for UEFI and legacy boot sources. Also specify hard drive boot order.</p> <ul style="list-style-type: none"> Shortcut to Temporarily Override Boot Order
Security	<p>Setup Password - Set and enable the setup (Admin) password.</p> <p>Power-On Password - Set and enable power-on password.</p> <p>Password Options - Allows you to enable/disable:</p> <ul style="list-style-type: none"> Lock Legacy Resources Setup Browse Mode Password prompt on F9 & F12 Network Server Mode <p>Smart Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup password.</p> <p>Device Security - Set Device Available/Device Hidden for: embedded security device, system audio, network controller, USB controller, serial/parallel ports, and SATA ports.</p> <p>USB Security - Set Device Available/Device Hidden for front USB ports, rear USB ports, internal USB ports, accessory USB ports.</p> <p>Slot Security - Disable the PCI, PCIe, and Mini Card slots.</p> <p>Network Boot - Enables/disables boot from OS (NIC models only).</p> <p>System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting.</p> <p>Master Boot Record Security - enables/disables MBR.</p> <p>System Security - Allows you to set:</p> <ul style="list-style-type: none"> Data Execution Prevention (enable/disable) SVM CPU Virtualization (enable/disable) Virtualization Technology (VTx) (enable/disable) Virtualization Technology/Directed IO (VTd) (enable/disable) Trusted Execution Technology (enable/disable) Embedded Security Device (enable/disable) Reset to Factory Settings (Do not reset/Reset) Measure boot variables/devices to PCR1 (enable/disable) OS management of Embedded Security Device (enable/disable) Reset of Embedded Security Device through OS (enable/disable) No PPI provisioning (Windows 8 only; enable/disable) Allow PPI policy to be changed by OS (enable/disable) <p>DriveLock Security - Allows you to assign or modify a master or user password for hard drives.</p> <p>Secure Boot Configuration (Windows 8 only)</p> <ul style="list-style-type: none"> Legacy Support (enable/disable) Secure Boot (enable/disable) Key Management (enable/disable) Fast Boot (enable/disable)
Power	<p>OS Power Management - Allows you to enable/disable Runtime Power Management, Idle Power Savings, Unique Sleep State Blink Rates.</p> <p>Hardware Power Management - Enable/disable SATA power management, S5 maximum power savings, PCI slots, network controller, USB 3.0 controller</p> <p>Thermal - Control minimum fan speed.</p>
Advanced	<p>Power-On Options - Allows you to set:</p> <ul style="list-style-type: none"> POST mode (QuickBoot, Clear Memory, FullBoot, or FullBoot Every x Days) POST messages (enable/disable) Press the ESC key for Startup Menu (enable/disable) Option ROM Prompt (enable/disable) After Power Loss (off/on/previous state) POST Delay (none, 5, 10, 15, 20, or 60 seconds) Remote Wakeup Boot Source (remote server/local hard drive) Factory Recovery Boot Support (enable/disable) Bypass F1 Prompt on Configuration Changes (enable/disable) <p>BIOS Power-On - Set the computer to turn on at a preset time.</p>

Advanced (continued)	<p>Bus Options - Allows you to enable/disable PCI SERR# Generation and PCI VGA palette snooping.</p> <p>Onboard Devices - Allows you to set resources for or disable on-board system devices.</p> <p>Device Options - Allows you to set:</p> <ul style="list-style-type: none"> Printer mode (Bi-Directional, EPP + ECP, Output Only) Num Lock State at Power-on (off/on) Integrated Video (enable/disable) Integrated Graphics (Auto/Disable/Force) Internal Speaker (enable/disable) NIC PXE Option ROM Download (enable/disable) SATA RAID Option ROM Download (enable/disable) Multi-Processor (enable/disable) Hyper-threading (enable/disable) Turbo Mode (enable/disable) <p>VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed.</p> <p>AMT Configuration - Allows you to set:</p> <ul style="list-style-type: none"> AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable)
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Diagnostic LEDs

LED	Color	LED Activity	State/Message
Power	White	On	Computer on
Power	White	1 blink every 2 seconds	Normal Suspend Mode
Power	Red	1 blink every second followed by a 2 second pause	CPU thermal shutdown
Power	Red	3 blinks, 1 blink every second followed by a 2 second pause	Processor not installed
Power	Red	4 blinks, 1 blink every second followed by a 2 second pause	Power failure (power supply overload)
Power	Red	5 blinks, 1 blink every second followed by a 2 second pause	Pre-video memory error
Power	Red	6 blinks, 1 blink every second followed by a 2 second pause	Pre-video graphics error
Power	Red	7 blinks, 1 blink every second followed by a 2 second pause	System board failure (ROM)
Power	Red	8 blinks, 1 blink every second followed by a 2 second pause	Invalid ROM based on Checksum
Power	Red	9 blinks, 1 blink every second followed by a 2 second pause	System powers on but is unable to boot
Power	Red	10 blinks, 1 blink every second followed by a 2 second pause	Bad option card
Power	Red	11 blinks, 1 blink every second followed by a 2 second pause	Current processor does not support a feature previously enabled.
none	none	System does not power on and LEDs are not flashing	System unable to power on

System Board



System Board Connectors and Jumpers (component location may vary)

PWR	DC power connector	MIC	Microphone connector
VGA	Video connector	USB3	USB 3.0 ports
PS2	PS/2 mouse/kybd connectors	USB2	USB 2.0 ports
DISPLAYPORT	DisplayPort connector	SATA0	Hard drive connector
USB	USB connectors (4)	PB/LED	Power button connector
RJ45/USB	Ntwrk connector/USB ports	SPKR	Speaker connector
IN/OUT	Headphone/microphone	CHFAN	Front fan connector
CHFAN2	Fan connector	mSATA	Mini-SATA
BAT	RTC battery socket	XU1	Processor socket
SATA PWR1	Optical drive power connector	CMOS	CMOS button
MXM	Graphics card connector	DIMM3	SODIMM 3
HSENSE	Hood sensor connector	DIMM1	SODIMM 1
MEDIA 3.0	SD Media Card Reader	PSWD	Password header
X1PCIEXP1	Mini PCI Express x1	SATA3	Optical drive
HDDLED	Hard drive activity LED	HLOCK	Hood lock connector
HDPH	Headphone connector		