### Key Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Type</td>
<td>Intel® Core i7, i5, i3, Pentium®</td>
</tr>
<tr>
<td>RAM Type</td>
<td>Non-ECC DDR3 PC3-12800 (1600 MHz) SODIMM</td>
</tr>
<tr>
<td>Maximum RAM</td>
<td>16 GB</td>
</tr>
</tbody>
</table>
| Expansion Slots (Low profile) | • mini-PCI express  
                            | • MMX  
                            | • mSATA                                                     |
| Chipset                   | Intel®Q77 Express                                                        |
| Graphics Adapter          | Integrated Intel HD graphics                                            |
| Bays                      | (1) optical drive  
                            | (1) internal 2.5-inch hard drive  
                            | (1) Secure Digital Card Reader                               |
| I/O Interfaces            | Front: (4) USB 2.0 ports; headphone jack, microphone jack  
                            | Rear: (4) USB 3.0 ports, (2) DisplayPort  
                            | 1.1a, VGA video, PCIe mouse and keyboard, RJ-45 network interface, 3.5mm audio in/out jacks |
| Preinstalled Operating Systems | • Windows® 8  
                            | • Windows 7  
                            | • FreeDax                                                   |

### Keyboards (not illustrated)

- PS/2 (standard/Windows 8)
- USB (standard/Windows 8)
- USB, silver/black (Windows 8)
- Wireless (standard/Windows 8)
- Washable (standard/Windows 8)
- Smart card (standard/Windows 8)
- USB, lsh

### Keyboard Options

- Arabic: L.A. Spanish: 16x
- Belgian: Norwegian: 09x
- Brazilian Portuguese: People’s Republic of China: AAX
- Bulgarian: Portuguese: 13x
- Czech: Romanian: 27x
- Danish: Russian: 25x
- Finnish: Spanish: 07x
- French: Slovakian: 23x
- French Canadian: South Korea: 48x
- German: Chinese: 10x
- Greek: Arabic: 06x
- Hebrew: Swiss: 11x
- Hungarian: Taiwanese: ABA
- International: Thai: 28x
- International English: Turkish: 14x
- Italian: U.S.: 00x
- Japanese: U.K.: 03x

### Standard and Optional Boards

- System board (includes replacement thermal material)
  - for use in models without Windows 8: 657095-001
  - for use in models with Windows 8 Standard: 657095-501
  - for use in models with Windows 8 Professional: 657095-601
- System board with DisplayPort 1.2 support for use in models without Windows 8: 711787-001
- System board with DisplayPort 1.2 support for use in models with Windows 8 Standard: 711787-501
- System board with DisplayPort 1.2 support for use in models with Windows 8 Professional: 711787-601

- AMD Radeon HD 7650A (MMX): 687449-001
- Intel Centrino Advanced-N 6205 (802.11a/b/g/n Wi-Fi wireless adapter): 652165-001
- Memory modules (PC3-12800, CL11)
  - 8 GB: 689374-001
  - 4 GB: 689373-001
  - 2 GB: 689337-001
- Intel Core i7 processors (include thermal material)
  - 3770s, 3.1 GHz: 689378-001
- Intel Core i5 processors (include thermal material)
  - 3570s, 3.1 GHz: 690879-001
  - 3475s, 2.9 GHz: 690878-001
  - 3470s, 2.9 GHz: 690877-001
- Intel Core i3 processors (include thermal material)
  - 2130, 3.4 GHz: 665120-001
  - 2120, 3.3 GHz: 638629-001
- Intel Pentium processors (include thermal material)
  - G870, 3.1 GHz: 691936-001
  - G860, 3.0 GHz: 665123-001
  - G640, 2.8 GHz: 691935-001

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### Illustrated Parts & Service Map

**HP Compaq 8300 Elite Business PC**

Ultra Slim Desktop

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**HP Compaq 8300 Elite, USDT Chassis 690359-002**

**Document Number 690359-002. 2nd Edition December 2012.**

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### Spare Parts

- **1** Access panel 689382-001
- **2** Stand 612496-001
- **3** Front bezel 688383-001
- **4** AC adapter, 180W, 90% efficient 682320-001
- **5** AC adapter, 180W, standard 613766-001
- **6** AC adapter, 135W, standard 682321-001
- **7** Bezel blank 593230-001

### Cable and accessory

- Optical drive cable/connector 605163-001
- Adapter, DisplayPort to VGA 603250-001
- Adapter, DisplayPort to DVI 684156-001
- Adapter, DisplayPort to HDMI 637480-001
- DisplayPort cable 687562-001

### PS/2 (standard/Windows 8)

- USB (standard/Windows 8)
- USB, silver/black (Windows 8)
- Wireless (standard/Windows 8)
- Washable (standard/Windows 8)
- Smart card (standard/Windows 8)
- USB, lsh

### Keyboards and accessories

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- Greek: Arabic: 06x
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- System board with DisplayPort 1.2 support for use in models with Windows 8 Standard: 711787-501
- System board with DisplayPort 1.2 support for use in models with Windows 8 Professional: 711787-601

**Optional boards**

- **1** AMD Radeon HD 7650A (MMX): 687449-001
- **2** Intel Centrino Advanced-N 6205 (802.11a/b/g/n Wi-Fi wireless adapter): 652165-001

**Memory modules (PC3-12800, CL11)**

- **4 GB: 689374-001**
- **4 GB: 689373-001**
- **2 GB: 689337-001**

**Intel Core i7 processors (include thermal material)**

- **3770s, 3.1 GHz: 689378-001**
- **3570s, 3.1 GHz: 690879-001**
- **3475s, 2.9 GHz: 690878-001**
- **3470s, 2.9 GHz: 690877-001**

**Intel Core i5 processors (include thermal material)**

- **3770s, 3.1 GHz: 689378-001**
- **3570s, 3.1 GHz: 690879-001**
- **3475s, 2.9 GHz: 690878-001**
- **3470s, 2.9 GHz: 690877-001**

**Intel Core i3 processors (include thermal material)**

- **2130, 3.4 GHz: 665120-001**
- **2120, 3.3 GHz: 638629-001**
- **2120, 3.3 GHz: 691936-001**
- **2120, 3.3 GHz: 691935-001**

**Intel Pentium processors (include thermal material)**

- **G870, 3.1 GHz: 691936-001**
- **G860, 3.0 GHz: 665123-001**
- **G640, 2.8 GHz: 691935-001**

* Not shown
### Miscellaneous Parts

1. Heat sink for use with the processor (includes thermal material) - 587456-001
2. Heat sink for use with models with UMA graphics (includes thermal material) - 619576-001
3. Chassis fan, rear - 691352-001
4. Card reader assembly - 608394-001
5. Internal speaker - 20mm x 28mm - 689384-001
6. Card reader assembly - 592685-001
7. Rear port cover - 691353-001
8. Front I/O panel - 587458-001
9. Optical drive rail (green plastic piece on drive) - 587459-001
10. 9 Clamp lock, includes universal cable (plate not included) - 508987-001

### Mass Storage Devices (not illustrated)

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>Capacity</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD-ROM drive, slim-line</td>
<td>608394-001</td>
<td></td>
</tr>
<tr>
<td>DVD/SW and CD-RW Super Multi Double-Layer Combo Drive (slim-line)</td>
<td>657958-001</td>
<td></td>
</tr>
<tr>
<td>700 GB, 7200 rpm, 2.5 inch, self-encrypting (SED), SATA hard drive</td>
<td>696422-001</td>
<td></td>
</tr>
<tr>
<td>500 GB, 7200 rpm, 2.5 inch, SATA hard drive</td>
<td>686217-001</td>
<td></td>
</tr>
<tr>
<td>220 GB, 7200 rpm, 2.5 inch, self-encrypting (SED), SATA hard drive</td>
<td>634824-001</td>
<td></td>
</tr>
<tr>
<td>220 GB, 7200 rpm, 2.5 inch, SATA hard drive</td>
<td>634824-001</td>
<td></td>
</tr>
<tr>
<td>256 GB Solid State Drive (SSD), self-encrypting (SED), 2.5-inch, SATA 6Gbps</td>
<td>880020-001</td>
<td></td>
</tr>
<tr>
<td>180 GB Solid State Drive (SSD), SATA 6 Gbps</td>
<td>856422-001</td>
<td></td>
</tr>
<tr>
<td>160 GB Solid State Drive (SSD), SATA 3.0</td>
<td>648809-001</td>
<td></td>
</tr>
<tr>
<td>120 GB Solid State Drive (SSD), 2.5-inch, SATA 2.0</td>
<td>665961-001</td>
<td></td>
</tr>
<tr>
<td>120 GB Solid State Drive (SSD), 2.5-inch, SATA 2.0</td>
<td>661841-001</td>
<td></td>
</tr>
<tr>
<td>32 GB SATA Solid State Drive (SSD)</td>
<td>868416-001</td>
<td></td>
</tr>
<tr>
<td>24 GB mSATA Solid State Drive (SSD), SATA</td>
<td>868316-001</td>
<td></td>
</tr>
<tr>
<td>16 GB Solid State Drive (SSD), SATA</td>
<td>688316-001</td>
<td></td>
</tr>
</tbody>
</table>

### 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 F10 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.
   - 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.
2. To change the Setup password, go to step 2.
3. To change the Power-On password, go to step 3.
4. To change the Setup password, go to step 2.

**Deleting a Power-On or Setup password:**
1. Turn on or restart the computer.
2. To delete the Setup password, go to step 2.
3. To delete the Power-On password, go to step 3.

**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

Reading | Option/Description
--- | ---
File | System Information - Lists the following main system specifications:
- Product name
- SKU number (some models)
- Processor type/speed/dual/dual
- Cache size (L1, L2, L3)
- Installed memory size/peak/byte
- Integrated MAC Address
- System BIOS
- Chassis serial number
- Asset tracking number
- ME firmware version
- ME management mode

About - Displays copyright notice.

Set Time and Date - Allows you to set system time and date.

Replicating Setup - Enables you to save or restore system configuration to/from a USB flash drive.

Default Setup - Allows you to set current settings as default or restore factory settings as default.

Apply Defaults and Exit - Applies the selected default settings and clears any established passwords.

Ignore Changes and Exit - Exits Computer setup without saving changes.

Change Save Changes and Exit - Saves changes to system configuration or default settings and exits Computer Setup.

Storage

Device Configuration - Lists all installed BIOS-controlled storage devices. The following options are available:
- CD-ROM
- Hard Disk
- Default Values
- Translation Mode
- SATA Defaults

Secure Options - Allows you to set:
- 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 SATA speed. By default, the speed is limited to 1.5 Gbps for maximum reliability.

DPS Self-Test - Execute self-tests on ATA hard drives capable of performing the Drive Protection System (DPS) self-tests.

Boot Options - Specify boot order for UEFI and legacy boot sources. Also specify hard drive boot order.

Shut Down to Temporarily Override Boot Order

Security

Setup Password - Set and enable the setup (Admin) password.

Power-On Password - Set and enable password on power-on.

Password Options - Allows you to enable/disable:
- Lock Legacy Resources
- Setup Browse Mode
- Password prompt on F9 & F12
- Network Server Mode

Smart Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup password.


USB Security - Set Device Available/Device Hidden for front USB ports, rear USB ports, internal USB ports, accessory USB ports.

Slot Security - Disable the PCI, PCIe, and Mini Card slots.

Network Boot - Enables/disables boot from OS (NIC models only).

System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting.

Master Boot Record Security - enables/disables MBR.

System Security - Allows you to:
- Data Execution Prevention (enable/disable)
- SVM CPU Virtualization (enable/disable)
- Virtualization Technology (VTx) (enable/disable)
- Virtualization Technology/Directory IO (VTx) (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)

DriveLock Security - Allows you to assign or modify a master or user password for hard drives.

Secure Boot Configuration (Windows 8 only)
- Legacy Support (enable/disable)
- Secure Boot (enable/disable)
- Key Management (enable/disable)
- Fast Boot (enable/disable)

Power

OS Power Management - Allows you to enable/disable runtime Power Management, Idle Power Savings, Unique Sleep State Blink Rates.

Hardware Power Management - Enable/Disable power management, 95 onboard power savings, PCI slots, network controller, USB 3.0 controller

Thermal - Control minimum fan speed.

Advanced

Power-On Options - Allows you to set:
- POST mode (QuickBoot, Clear Hard Drive, 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)

BIOS Power-On - Set the computer to turn on at a preset time.

Advanced (continued)

Bus Options - Allows you to enable/disable PCI SERR# Generation and PCI VGAs palette snooping.

Onboard Devices - Allows you to set resources for or disable on-board system devices.

Device Options - Allows you to set:
- Printer mode (Bi-Directional, EPP + ECP, Output Only)
- Num Lock State (set at power-on (on/off))
- 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)

VGA Configuration - Allows you to specify which VGA controller is the 'boot' primary. Displayed only if add-in video card installed.

AMT Configuration - Allows you to set:
- AMT (enable/disable)
- Unconfigure AMTME (enable/disable)
- Hide Unconfigure ME Configuration Prompt (enable/disable)
- Watchdog Timer (enable/disable)

Diagnostic LEDs

LED | Color | LED Activity | State/Message
--- | --- | --- | ---
Power Green | F10 | Blink every 2 seconds | Normal suspend mode
Power Red | F10 | Blink every 2 seconds followed by a 2 second pause | CPU thermal shutdown
Power Red | F10 | 3 blinks, blink every second | Processor not installed
Power Red | F10 | 4 blinks, blink every second followed by a 2 second pause | Power failure (power supply overload)
Power Red | F10 | 5 blinks, blink every second followed by a 2 second pause | Pre-video memory error
Power Red | F10 | 6 blinks, blink every second | Pre-video graphics error
Power Red | F10 | 7 blinks, blink every second followed by a 2 second pause | System board failure (ROM)
Power Red | F10 | 8 blinks, blink every second followed by a 2 second pause | Invalid ROM based on Checksum
Power Red | F10 | 9 blinks, blink every second followed by a 2 second pause | System powers on but is unable to boot
Power Red | 9 seconds | 5 blinks, blink every second followed by a 2 second pause | Bad option card
Power Red | F10 | 10 blinks, 5 blinks 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 Connectors and Jumpers (component location may vary):

<table>
<thead>
<tr>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMM1</td>
</tr>
<tr>
<td>DIMM2</td>
</tr>
<tr>
<td>SATA1</td>
</tr>
<tr>
<td>PWR</td>
</tr>
<tr>
<td>VGA</td>
</tr>
<tr>
<td>PS2</td>
</tr>
<tr>
<td>USB</td>
</tr>
<tr>
<td>RJ45/USB</td>
</tr>
<tr>
<td>DISPLAYPORT</td>
</tr>
<tr>
<td>IN/OUT</td>
</tr>
<tr>
<td>CHFAN2</td>
</tr>
<tr>
<td>SATAWR1</td>
</tr>
<tr>
<td>BAT</td>
</tr>
<tr>
<td>MXM</td>
</tr>
<tr>
<td>HSENME</td>
</tr>
</tbody>
</table>

- DIMM1: SODIMM 1
- DIMM2: SODIMM 2
- SATA1: 1st optical drive
- PWR: DC power connector
- VGA: Video connector
- PS2: PS/2 mouse/keyboard connectors
- RJ45/USB: Network connector/USB ports
- DISPLAYPORT: DisplayPort connector
- IN/OUT: Headphone/microphone
- CHFAN2: Fan connector
- SATAWR1: SATA power header
- BAT: Battery socket
- MXM: Graphics card connector
- HSENME: Hood sensor connector

- MEDIA: Media reader connector
- CMOS: CMOS button
- HEADPHONE: Headphone connector
- MIC: Microphone connector
- USB: USB connectors (4)
- MSATA: SSD drive connector
- PB: Power button
- CMOS: CMOS reset button
- SPKR: Speaker connector
- CHFAN: Front fan connector
- PROCESSOR: Processor socket