

HP Compaq Business Desktop dx2100 Microtower Models

Illustrated Parts Map
Celeron and Pentium Processors



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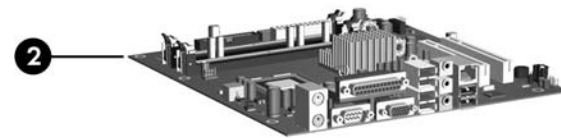
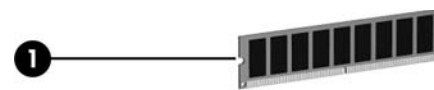
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1st Edition, December 2005

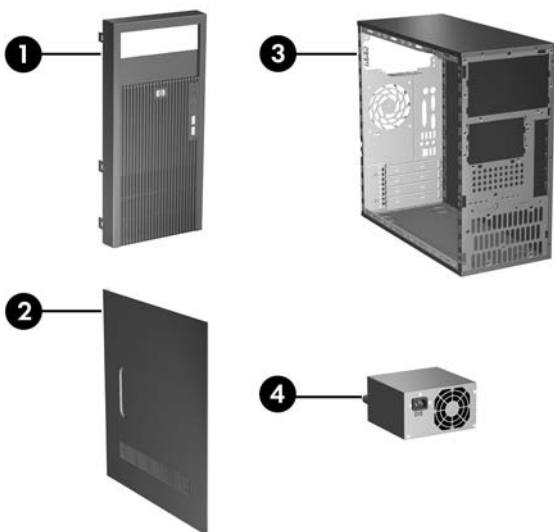
Document Part Number 404567-001



Standard and Optional Boards

| Memory modules | | |
|--|--|------------|
| 1 | 256 MB, PC2-4200, CL4 | 393392-001 |
| * | 512 MB, PC2-4200, CL4 | 393393-001 |
| * | 1 GB, PC2-4200, CL4 | 393394-001 |
| 2 | System board with alcohol pad and thermal grease | 405059-001 |
| Intel Celeron D Processors with alcohol pad and thermal grease | | |
| * | 2.66 GHz #331, 256 K cache, 533 MHz FSB | 391940-001 |
| * | 2.8 GHz #336, 256 K cache, 533 MHz FSB | 391941-001 |
| * | 2.93 GHz #341, 256 K cache, 533 MHz FSB | 405692-001 |
| * | 3.06 GHz, #346, 256 K cache, 533 MHz FSB | 405693-001 |
| * | 3.2 GHz #351, 256 K cache, 533 MHz FSB | 382503-001 |
| Intel Pentium Processors with alcohol pad and thermal grease | | |
| * | 2.8 GHz #521 1M cache, 800 MHz FSB | 394643-001 |
| * | 3.0 GHz #531 1M cache, 800 MHz FSB | 394642-001 |
| * | 3.0 GHz #630 2M cache, 800 MHz FSB | 392273-001 |
| * | 3.2 GHz #640 2M cache, 800 MHz FSB | 384786-001 |
| * | 3.4 GHz #650 2M cache, 800 MHz FSB | 384787-001 |
| Other boards | | |
| * | Nvidia Quadro NVS 280 graphics w/64 MB, PCI | 398686-001 |
| * | Wireless LAN PCI adapter, 802.11 | 391866-001 |
| * | Wireless LAN PCI adapter, 802.11, NA only | 391866-002 |
| * | NIC, PCI-e | 393626-001 |

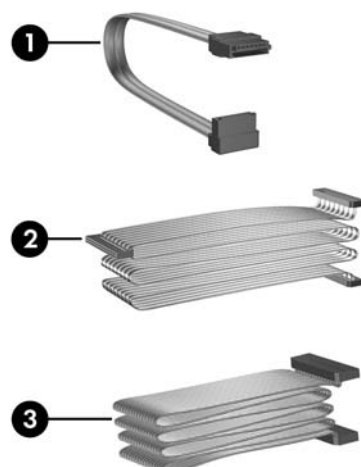
* Not shown



System Unit

| | | |
|---|---------------------------------|------------|
| 1 | Front bezel without bezel blank | 405065-001 |
| 2 | Access panel | 405062-001 |
| 3 | Chassis | not spared |
| 4 | Power supply, non-PFC | 405060-001 |

* Not shown



Cables

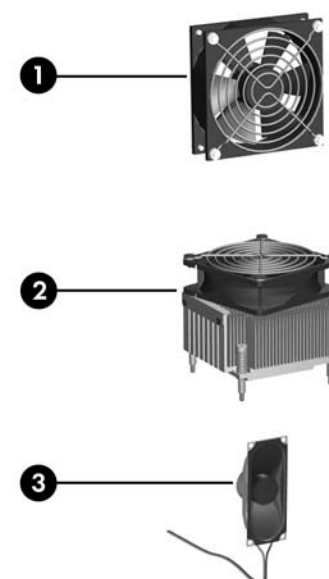
| Miscellaneous cable kit, includes: | | |
|------------------------------------|--|------------|
| 1 | SATA HDD cable, 13" lg (381868-001) | 405066-001 |
| 2 | Optical disk drive cable, 2 devices (384944-003) | |
| 3 | Diskette drive data cable (385981-002) | |
| * | USB cable with bracket and mounting screws | 405064-001 |
| * | Power switch with switch mounting bracket | 405063-001 |

*Not shown

Keyboards (not illustrated)

| | | |
|---|------|------------|
| * | U.S. | 382925-001 |
|---|------|------------|

*Not shown



Miscellaneous Parts

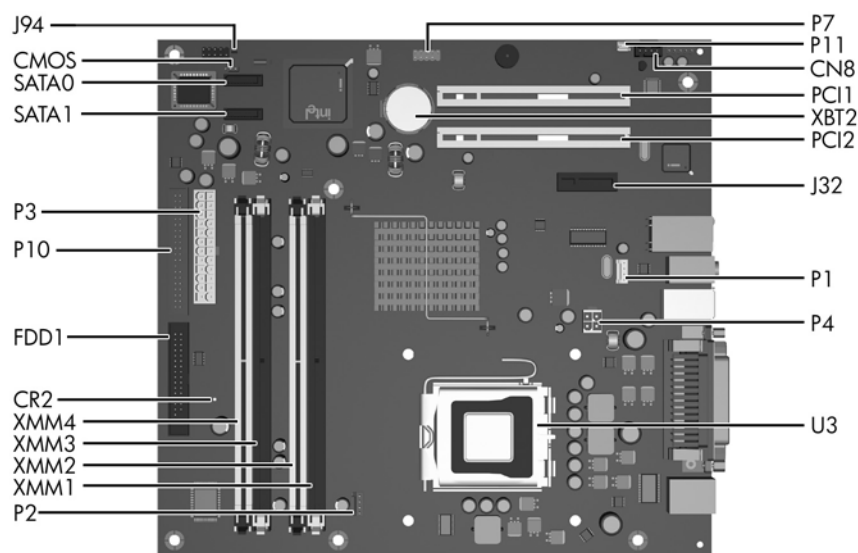
| Miscellaneous parts kit, includes: | | |
|------------------------------------|---|------------|
| * | 3.5" drive adapter to fit 5.25" bay | 405652-001 |
| * | diskette drive front bezel | |
| * | Power/LED switch holder | |
| * | LED holder | |
| * | #6-32 x .312 hitop screw with serrations (4 ea) (192308-002) | |
| * | #6-32 x .250 hitop screw with serrations (4 ea) (192308-001) | |
| * | Taptite hitop screw (114399-069) | |
| * | Taptite #6-32 hitop screw with serrations (4 ea) (192308-003) | |
| * | M3 x 5 mm Taptite hitop screw (247348-001) | |
| * | 5.25" Bezel blank | |
| 1 | Chassis fan with mounting screws | 405061-001 |
| 2 | Heatsink with alcohol pad and factory-applied thermal grease | 408575-001 |
| * | Mouse, PS2, scroll type | 390937-001 |
| * | Mouse, USB, scroll type | 390939-001 |
| * | Mouse, optical | 390938-001 |
| * | Battery, real-time clock | 153099-001 |
| 3 | Internal speaker | 405653-001 |
| * | Foot (4 ea) | 370708-001 |

*Not shown

Mass Storage Devices

| | | |
|---|---|------------|
| 1 | Diskette drive, 3.5-inch | 392415-001 |
| 2 | 48X CD-ROM drive | 397130-001 |
| * | 52X CD-ROM drive | 333969-005 |
| * | 48X/32X/48X CD-RW drive | 395272-001 |
| * | 48X/32X/48X+16X CD-RW/DVD-ROM drive | 405425-001 |
| * | 16/48X DVD ROM Drive | 405761-001 |
| * | 16X DVD +/- RW | 405760-001 |
| 3 | 40-GB\7200 RM SATA hard drive, 1.5 Gb/s | 409232-001 |
| * | 80-GB\7200 RPM SATA hard drive, 3.0 Gb/s | 391945-001 |
| * | 160-GB\7200 RPM SATA hard drive, 3.0 Gb/s | 391741-001 |
| * | 250-GB\7200 RPM SATA hard drive, 3.0 Gb/s | 391937-001 |

*Not shown



System Board Connectors and Jumpers (position of some untitled components may vary in location)

| | | | |
|------|-----------------------|--------|-------------------------|
| CMOS | Clear CMOS | P7 | Front side USB |
| CN8 | CD audio | PCI1 | PCI Expansion slot1 |
| CR2 | Health LED | PCI2 | PCI Expansion slot 2 |
| FDD1 | Diskette drive | SATA 0 | Primary SATA drive |
| J32 | PCI Express x1 | SATA 1 | Secondary SATA drive |
| J94 | Main power switch/LED | U3 | Microprocessor |
| P1 | Chassis fan | XBT 2 | Real-time-clock battery |
| P10 | Primary IDE | XMM1 | DIMM 1 |
| P11 | Speaker | XMM2 | DIMM 2 |
| P1 | CPU fan | XMM3 | DIMM 3 |
| P3 | Main power | XMM4 | DIMM 4 |
| P4 | CPU power (4-pin) | | |

CMOS

| Status | Jumper Setting | Notes |
|--------|----------------|------------------------|
| Normal | 2-3 | Default |
| Clear | 1-2 | leave on for 5 seconds |

System Hardware Interrupts

| IRQ | System Function | IRQ | System Function |
|-----|------------------------------|-----|--------------------------------|
| 0 | Timer Interrupt | 8 | Real-Time Clock |
| 1 | Keyboard | 9 | Unused |
| 2 | Interrupt Controller Cascade | 10 | Unused, available for PCI |
| 3 | Serial Port (COM B) | 11 | Unused, available for PCI |
| 4 | Serial Port (COM A) | 12 | Mouse |
| 5 | Unused, available for PCI | 13 | Coprocessor |
| 6 | Diskette Drive | 14 | Primary ATA (IDE) Controller |
| 7 | Parallel Port (LPT 1) | 15 | Secondary ATA (IDE) Controller |

Clearing CMOS

The computer's configuration (CMOS) may occasionally be corrupted. If it is, it is necessary to clear the CMOS memory using by performing the following procedure:

- CAUTION:** The power cord must be disconnected from the power source before changing the jumper setting. (NOTE: All LEDs on the board should be OFF). Failure to do so may damage the system board
1. Turn off the computer and any external devices, then disconnect the power cord from the power outlet.
 2. Remove the access panel.
 3. Locate jumper CMOS and move the jumper from pins 2-3 to pins 1-2.
 4. Leave the jumper on pins 1-2 for 5 seconds.
 5. Move the jumper back to pins 2-3.
 6. Replace the access panel.
 7. Connect the power cord to the power outlet.
 8. Turn on the computer, allow it to start.

Diagnostic LEDs

| LED | Color | LED Activity | State/Message |
|------------|-------|--|--|
| Power | Green | On | Computer on |
| Power | Green | 1 blink every 2 seconds | (S1) Normal Suspend Mode |
| Power | Green | 1 blink every 2 seconds | (S3) Suspend to RAM |
| Power | Clear | Off | (S5) Computer off |
| Power | Green | Glows for 3 seconds followed by a 1 second pause. | CPU thermal shutdown |
| Power | Green | 1 blink every second for 5 seconds, then 2 second pause. | No memory installed or improperly installed (pre-video memory error) |
| Power | Green | 1 blink every second for 6 seconds, then 2 second pause. | Graphics card error (pre-video graphics error) 6 beeps. |
| None | None | No LED but rapidly inclining beeps | Incorrect system password. |
| None | None | No LED but rapidly declining beeps | Correct system password. |
| Hard Drive | Green | Blinking | Hard drive activity |

Computer Setup (F10) Utility Features (not all features may be available)

| | |
|----------------------------------|---|
| System Information | Product Name Processor Type Processor speed CPU ID Cache Size Memory Size System ROM Integrated MAC Address System Serial Number Asset Tag Number |
| Standard CMOS Features | Set Date Set Time PATA Channel 0 Master, PATA Channel 0 Slave SATA Controller PATA IDE Mode SATA Port PATA Channel 0 Master, PATA Channel 1 Master FDC Controller Drive A Halt On POST Delay |
| Advanced BIOS Features | Device Boot Disabling Removable Device Priority Hard Disk Boot Priority Optical Drive Boot Priority Network Boot Priority F9 Boot Menu Display Quick Power On Self Test First, Second, and Third Boot Devices HDD SMART Drive Capability Boot Up NumLock Status Security Option Hyperthreading Technology APIC Mode MPS Version Control for OS OS Select for DRAM > 64MB BIOS Write Protection |
| Advanced Chipset Features | PCI Express Root Port Func On-Chip Frame Buffer Size (VGA Setting) DVMT Mode (VGA Setting) DVMT Memory Size (VGA Setting) Init Detect PCI Clk (VGA Setting) Auto Detect PCI Clk (VGA Setting) Spread Spectrum (VGA Setting) |
| Integrated Peripherals | USB Controller USB Legacy Support Onboard Audio Onboard LAN Onboard LAN Boot ROM Onboard Serial Port 1 Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA |
| Power Management Setup | ACPI Function ACPI Suspend type Soft OFF by Power Button Power ON after Power Fail MODEM use IRQ Resume by PME Wake on Device S5 Resume by Alarm Date (of Month) Alarm Time (hh:mm:ss) |
| PnP/PCI Configuration | Reset Configuration Data Resources Controlled By IRQ Resources Maximum Payload Size |
| PC Health Status | CPU Temperature CPU Fan Speed System Fan Speed SYS Fan Fault Detect |
| Load Optimized Defaults | |
| Set Supervisor Password | |
| Set User Password | |
| Save & Exit Setup | |
| Exit Without Saving | |

Note: See Computer Setup (F10) Utility Guide on the Documentation Library CD.

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