HP Compaq Business Desktop dx2100 Microtower Models

Illustrated Parts Map

Celeron and Pentium Processors

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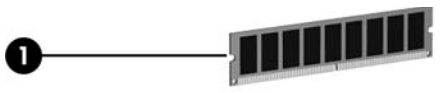
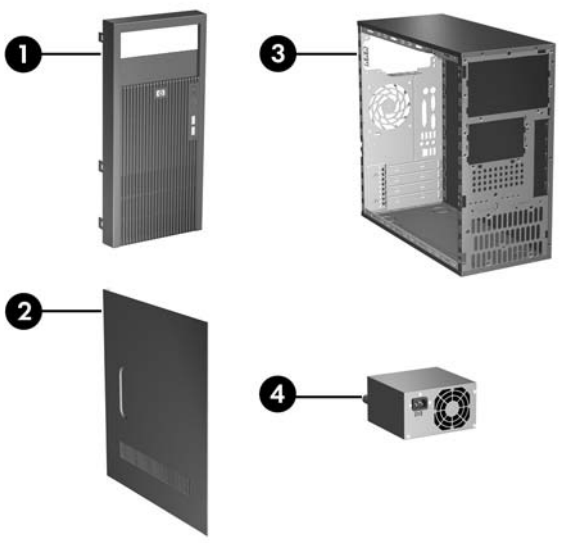


Standard and Optional Boards

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

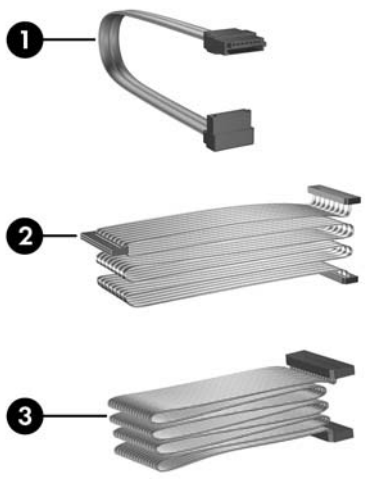
** Not shown*



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

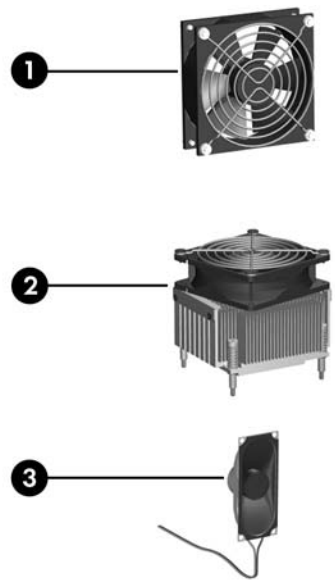
	Miscellaneous cable kit, includes:	405066-001
1	SATA HDD cable, 13” lg (381868-001)	
2	Optical disk drive cable, 2 devices (384944-003)	
3	Diskette drive data cable (385981-002)	
*	USB cable with bracket and mounting screws	405064-001
*	Power switch with switch mounting bracket	405063-001

**Not shown*

Keyboards (not illustrated)

*	U.S.	382925-001

**Not shown*



Miscellaneous Parts

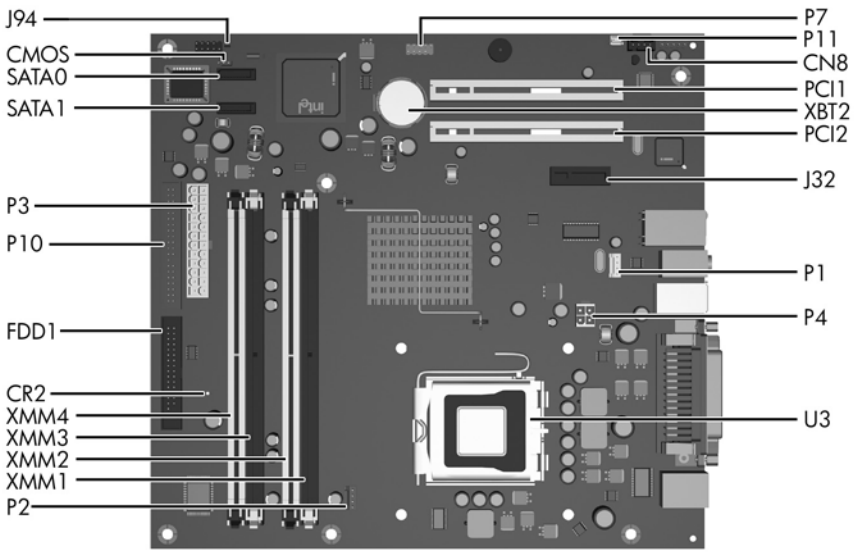
Miscellaneous parts kit, includes:		405652-001
*	3.5” drive adapter to fit 5.25” bay	
*	diskette drive front bezel	
*	Power/LED switch holder	
*	LED holder	
*	#6-32 x .312 hitop screw with serrations (4 ea) (192308-002)	
*	#6-32 x .250 hitop screw with serrations (4 ea) (192308-001)	
*	Taptite hitop 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/32/X48X 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. 5 beeps.	No memory installed or improperly installed (pre-video memory error)
Power	Green	1 blink every second for 6 seconds, then 2 second pause. 6 beeps.	Graphics card error (pre-video graphics error)
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.