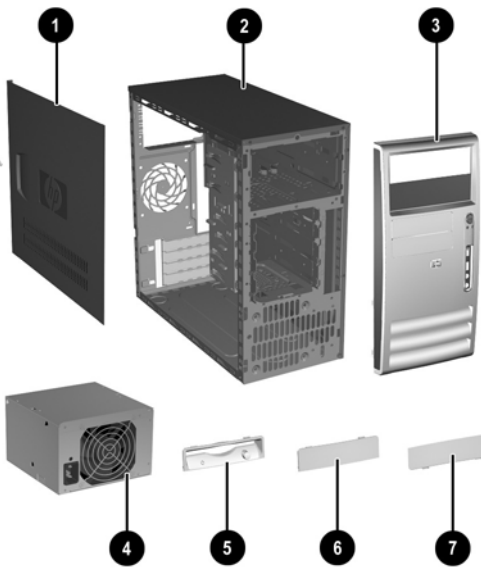


HP Compaq dc5100 Business PC Series

Illustrated Parts Map
Microtower



System Unit		
1	Access panel	376298-001* <input type="checkbox"/> 395969-001 <input checked="" type="checkbox"/>
2	Chassis	not spared
3	Front Bezel with 5.25" ODD bezel blank and lower 3.5" bezel blank <input checked="" type="checkbox"/> , painted	368085-001 <input checked="" type="checkbox"/>
4	Power supply, PFC, 300W	405872-001 <input checked="" type="checkbox"/>
5	Diskette drive bezel, painted	372448-001 <input checked="" type="checkbox"/>
+	Diskette drive bezel, not painted	395968-001 <input checked="" type="checkbox"/>
6	3.5" bezel blank, top bay, painted	335938-005* <input type="checkbox"/> 335938-001 <input checked="" type="checkbox"/>
	3.5" bezel blank, top bay, not painted	383182-001 <input checked="" type="checkbox"/>
7	3.5" bezel blank, lower (spared with 368085-001)	see 3, above
+	5.25" bezel blank, carbonite	335937-005 <input checked="" type="checkbox"/>

+Not shown

Mass Storage Devices (not illustrated)

40 GB/7200 RPM SATA hard drive	365555-001* <input type="checkbox"/> 409232-001 <input checked="" type="checkbox"/>
80 GB/7200 RPM SATA hard drive	345713-005* <input type="checkbox"/> 413319-001 <input checked="" type="checkbox"/>
160 GB/7200 RPM SATA hard drive	345712-005* <input type="checkbox"/> 391741-001 <input checked="" type="checkbox"/>
250 GB/7200 RPM SATA hard drive	393303-001* <input type="checkbox"/> 391937-001 <input checked="" type="checkbox"/>
Diskette drive with mounting screws	333505-005* <input type="checkbox"/> 392415-001 <input checked="" type="checkbox"/>
48X CD-ROM drive with mounting screws	326773-005* <input type="checkbox"/> 391730-001 <input checked="" type="checkbox"/>
52X CD-ROM drive	333969-005* <input type="checkbox"/> 413522-001 <input checked="" type="checkbox"/>
48X/32X/48X CD-RW drive	346788-005* 395272-001 <input checked="" type="checkbox"/>
48X/32X/48X+16X DVD/CD-RW drive	359493-005* 405425-001 <input checked="" type="checkbox"/>
16X DVD+/-RW drive	390882-001* 405760-001 <input checked="" type="checkbox"/>
16/40X DVD ROM drive	325313-005* <input type="checkbox"/> 405761-001 <input checked="" type="checkbox"/>

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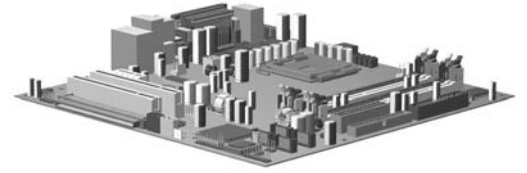
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2nd Edition, December 2005

1st Edition, January 2005

Document Number
376225-002



Standard and Optional Boards

1	System board with alcohol pad and thermal grease	403714-001 <input checked="" type="checkbox"/>
Memory Modules		
+	256 MB/400 MHz FSB	382504-001* <input type="checkbox"/> 393392-001 <input checked="" type="checkbox"/>
+	512 MB/400 MHz FSB	382509-001* <input type="checkbox"/> 393393-001 <input checked="" type="checkbox"/>
+	1 GB/400 MHz FSB	382505-001* <input type="checkbox"/> 393394-001 <input checked="" type="checkbox"/>
Intel Celeron D Processors with thermal grease and alcohol pad		
+	2.66 GHz/533 MHz FSB, 256 KB cache	375361-001* <input type="checkbox"/> 391940-001 <input checked="" type="checkbox"/>
+	2.8 GHz/533 MHz FSB, 256 KB cache	375362-001* <input type="checkbox"/> 391941-001 <input checked="" type="checkbox"/>
+	2.93 GHz/533 MHz FSB, 256 KB cache	382501-001* <input type="checkbox"/> 405692-001 <input checked="" type="checkbox"/>
+	3.06 GHz/533 MHz FSB, 256 KB cache	382502-001* <input type="checkbox"/> 405693-001 <input checked="" type="checkbox"/>
+	3.2 GHz/533 MHz FSB, 256 KB cache	382503-001 <input checked="" type="checkbox"/>
Intel Pentium 4 Processors with thermal grease and alcohol pad		
+	2.93 GHz/533 MHz, 1 MB Cache (517)	417904-001 <input checked="" type="checkbox"/>
+	3.06 GHz/533 MHz, 1 MB Cache (519)	407325-001 <input checked="" type="checkbox"/>
+	2.8 GHz/800 MHz, 1 MB Cache, 64 bit (521)	394643-001 <input checked="" type="checkbox"/>
+	3.0 GHz/800 MHz, 2 MB Cache, 64 bit, EIST (630)	392273-001 <input checked="" type="checkbox"/>
	3.2 GHz/800 MHz, 2 MB Cache, 64 bit, EIST (640)	384786-001 <input checked="" type="checkbox"/>
	3.4 GHz/800 MHz, 2 MB Cache, 64 bit, EIST (650)	384787-001 <input checked="" type="checkbox"/>
Other Cards		
+	PCI Modem, International, FH bracket	398661-001 <input checked="" type="checkbox"/>
+	1394 Firewire, PCI, FH	361551-001* <input type="checkbox"/> 393308-001 <input checked="" type="checkbox"/>
Graphics Solutions		
+	nVidia, Quadro NVS280, PCI, 64 MB	351384-005* <input type="checkbox"/> 398686-001 <input checked="" type="checkbox"/>
+	nVidia, Quadro NVS55, PCI, 64 MB	406412-001 <input checked="" type="checkbox"/>

+ Not shown

FH = Full height mounting bracket

Cables

1	SATA hard drive cable, 13" lg	346141-005* <input type="checkbox"/> 391738-001 <input checked="" type="checkbox"/>
2	IDE UATA dual device, Optical Disk Drive data cable, 14"	395964-001* <input type="checkbox"/> 383283-001 <input checked="" type="checkbox"/>
Cable Kit, includes:		346141-005* <input type="checkbox"/> 405066-001 <input checked="" type="checkbox"/>
3	Diskette drive cable	
4	IDE UATA data cable	
1	SATA hard drive cable, 13" lg	
+	Power/LED cable with switch and switch holder	370859-001* <input type="checkbox"/> 395965-001 <input checked="" type="checkbox"/>
+	RJ-11 telephone cable (use with 361286-021)	198220-005 <input checked="" type="checkbox"/>
+	2nd Serial port with cable	392414-001 <input checked="" type="checkbox"/>

+Not shown

Notes:

- Original Spare
- Modified Spare

REQUIREMENT:

For customers in countries/regions with RoHS legislation* (e.g. EU, China, etc.) restricting the use of hazardous substances in electrical equipment.

The use of the Original Spare part is regulated by RoHS legislation. If your unit contains a part that is labelled with the Modified Spare number, the Modified Spare must be ordered as the replacement part. If your unit contains a part that is labelled with the Original Spare number, please order the Original Spare as the replacement part. In this case either the Original Spare or the Modified Spare may be shipped which will not affect performance or functionality of the unit.

*Directive 2002/95/EC restricts the use of lead, mercury, cadmium, hexavalent chromium, PBBs and PBDEs in electronic products. Countries/regions outside the EU, e.g. China, are introducing similar legislation. References to 'RoHS legislation' means requirements of Directive 2002/95/EC or similar substance restrictive legislation enacted by any country/region outside the EU, or similar substance restrictive legislation enacted by any country/region outside the EU.

See next page for keyboard spares



Miscellaneous Parts

1	Speaker	326776-005* <input type="checkbox"/> 399871-001 <input checked="" type="checkbox"/>
2	Chassis fan	366641-001* <input type="checkbox"/> 392412-001 <input checked="" type="checkbox"/>
3	Heatsink with fan, alcohol pad, and thermal grease	381884-001* <input type="checkbox"/> 418806-001 <input checked="" type="checkbox"/>
4	Front I/O device with cable	377461-001* <input type="checkbox"/> 395966-001 <input checked="" type="checkbox"/>
+	Real-time clock battery	153099-001 <input checked="" type="checkbox"/>
+	Rubber foot (4 ea)	370708-001 <input checked="" type="checkbox"/>

Mouse






+	2-Button, PS/2 with scroll wheel	323614-005* <input type="checkbox"/> 390937-001 <input checked="" type="checkbox"/>
+	2-Button, USB, with scroll wheel	323615-005* <input type="checkbox"/> 390939-001 <input checked="" type="checkbox"/>
+	2-Button, USB, optical with scroll wheel	323617-005* <input type="checkbox"/> 390938-001 <input checked="" type="checkbox"/>

Miscellaneous screw kit, includes:

+	M3 x 5mm Full slot hi top, taptite (4 ea) (263585-001)	
+	#6-32 x 1/4 Hi top, taptite (4 ea) (262508-001)	
+	#6-32 x 5/16 Hi top, taptite (2 ea) (262508-002)	
+	#6-32 x 3/32 Hi top, taptite (4 ea) (262508-003)	
+	#6-32 x 3/8 Taptite with washer (1 ea) (114399-069)	
+	#6-32 x 1/4 Thumbscrew (1 ea) (124702-004)	
+	Countersunk, flat head plastite (1 ea) (247481-001)	

+Not shown



Standard Keyboard (not illustrated)

PS/2, Basic	355630-xxx*  382925-xxx 		
USB, Basic	355631-xxx*  382926-xxx 		
USB, Modular	355102-xxx* 		
Arabic	-175	Japanese	-295
Belgian	-185	Korean (Hangul)	-KD5
BHCSY	-B45	LA Spanish	-165
Brazilian Portuguese	-205	Netherlands[1]	-335
Czech	-225	Norwegian	-095
Danish	-085	PRC	-AA5
Europe[1]	-025	Polish[1]	-245
Finnish	-355	Portuguese	-135
French	-055	Russian	-255
French Arabic	-DE5	Slovakian	-235
French Canadian[2]	-125	Spanish	-075
German	-045	Swedish[5]	-101
Greek	-155	Swedish[4]	-105
Hebrew[1]	-BB1	Swiss	-115
Hebrew[2]	-BB5	Taiwanese[3]	-AB5
Hungarian	-215	Thai	-285
International[2]	-B35	Turkish	-145
Italian	-065	U.K.	-035


[1] For 355102 only
 [2] Not for 355102
 [3] Not for 355631

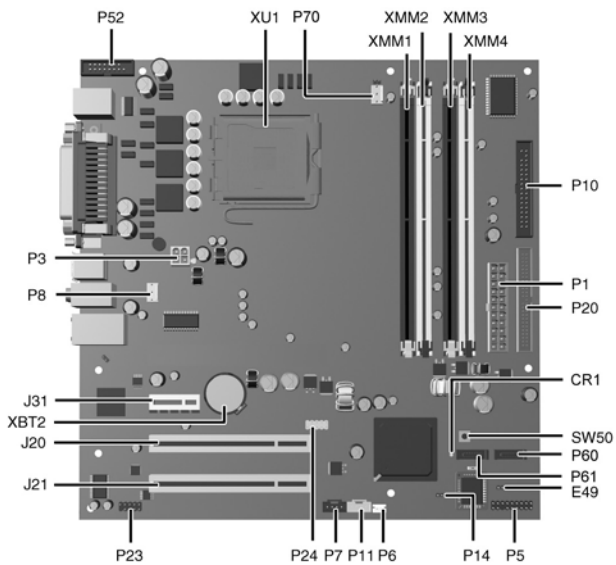
[4] Not for 355630
 [5] For 355630 only

USB Basic Keyboard (not illustrated)

Gray and carbonite	355632-xxx*  382927-xxx 		
Belgian	-185	International[2]	-B35
Danish	-085	Italian	-065
French	-055	Swedish[4]	-105
German	-045	Swiss	-115

SmartCard Keyboard (not illustrated)

Gray and carbonite	393670-001 		
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System Board Connectors and Jumpers (position of some untitled components may vary in location)

CR1	5CV Aux power LED	P20	Primary IDE
E49	Password jumper	P23	Front audio/USB
J20	PCI slot 1	P24	Front USB header
J21	PCI slot 2	P52	Flying Serial Port
J31	PCI Express x1	P60	Primary Serial ATA (SATA) connector
P1	Main power (20 pin)	P61	Second Serial ATA (SATA) connector
P3	CPU regulator power (4 pin)	P70	CPU fan
P5	Front panel	SW50	CMOS button
P6	Internal chassis speaker	XBT2	Battery
P7	CD audio in	XMM1	Memory socket
P8	Chassis fan	XMM2	Memory socket
P10	Diskette drive	XMM3	Memory socket
P11	Aux audio in	XMM4	Memory socket
P14	Boot Block	XU1	Processor socket

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)		

Computer Diagnostic LEDs (on front of computer)

LED	Color	LED/Beep Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 2 seconds	(S1) Suspend mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	Clear	Off	(S4) Hibernation
Power	Clear	Off	(S5) Computer off
Power	Red*	2 blinks and beeps 1 second apart	CPU thermal shutdown
Power	Red*	3 blinks and beeps 1 second apart	CPU not installed
Power	Red*	4 blinks and beeps 1 second apart	Power supply overload (crow bar)
Power	Red*	5 blinks and beeps 1 second apart	Bad memory
Power	Red*	6 blinks and beeps 1 second apart	Graphics adapter error
Power	Red*	7 blinks and beeps 1 second apart	System board failure (detected prior to video)
Power	Red*	8 blinks and beeps 1 second apart	Invalid ROM checksum
Power	Red*	9 blinks and beeps 1 second apart	System not fetching code
Power	Red*	10 blinks and beeps 1 second apart	System hang while loading an option ROM
Hard Drive	Green	Blinking	Hard drive activity

*Blinking codes are repeated after a 2 second pause. Beeps stop after fifth iteration, but LEDs continue until problem is resolved.

Keyboard Diagnostic LEDs (PS/2 Keyboards Only)

LED	Color	LED Activity	State/Message
Num, Caps, Scroll Lock	Green	On (Rising Tone)	ROM flashed successfully.
Num Lock	Green	On	ROMPaq diskette not present, is bad, or drive not ready.*
Caps Lock	Green	On	Enter password.
Num, Caps, Scroll Lock	Green	Blink On in sequence, one at a time - N, C, SL	Keyboard locked in network mode.


* Insert valid ROMPaq diskette in drive A. Turn power switch off, then on to reflash ROM. If ROM flash is successful, all three keyboard LEDs will light up, and you will hear a rising tone series of beeps. Remove diskette and turn power off, then on to restart the computer. For more information about flashing the ROM, refer to the Troubleshooting guide.

Clearing CMOS

The computer's configuration (CMOS) may occasionally be corrupted. If it is, it is necessary to clear the CMOS memory using switch SW50.

To clear and reset the configuration, perform the following procedure:

1. Prepare the computer for disassembly.

 **CAUTION:** The power cord must be disconnected from the power source before pushing the Clear CMOS Button (NOTE: All LEDs on the board should be OFF). Failure to do so may damage the system board.

2. Remove the access panel.
3. Press the CMOS button located on the system board, and keep it depressed for 5 seconds.
4. Replace the access panel.
5. Turn the computer on and run F10 Computer Setup (Setup utility) to reconfigure the system.

Disabling or Clearing the Power-On and Setup Passwords

1. Turn off the computer and any external devices, and disconnect the power cord from the power outlet.
2. Remove the access panel.
3. Locate the header and jumper labeled E49.
4. Remove the jumper from pins 1 and 2. Place the jumper over pin 2 only, in order to avoid losing it.
5. Replace the access panel.
6. Plug in the computer and turn on power. Allow the operating system to start.
NOTE: Placing the jumper on pin 2 clears the current passwords and disables the password features.
7. To re-enable the password features, repeat steps 1-3, then replace the jumper on pins 1 and 2.
8. Repeat steps 5-6, then establish new passwords.

Refer to the Computer Setup (F10 Setup) instructions to establish new passwords.

Computer Setup (F10) Utility Features (features may vary)

File	System Information About Set Time and Date	Replicated Setup Default Setup Apply Defaults and Exit	Ignore Changes and Exit Save Changes and Exit
Storage	Device Configuration Storage Options	DPS Self-Test Boot Order	
Security	Setup Password Power-On Password Password Options Smart Cover Embedded Security	Drivelock Security Data Execution Prevention Master Boot Record Security Save Master Boot Record Restore Master Boot Record	Device Security Network Service Boot System IDs
Power	OS Power Management	Hardware Power Management	Thermal
Advanced	Power-On Options BIOS Power On Onboard Devices	PCI Devices Bus Options	Device Options PCI VGA Configuration