Illustrated Parts & Service Map
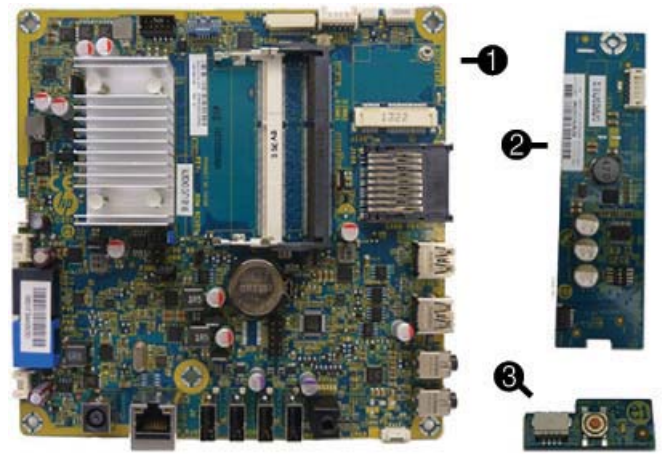
HP 205 G1 All-in-One
HP 18 All-in-One

Key Specifications

Processor	• AMD Kabini E1-2500 (HP 205 G1 models) • Intel Pentium J2900 or Celeron J1800 (HP 18 models)
RAM type	1600 MHz DDR3 SDRAM; (2) SODIMM slots
Maximum RAM	8 GB
Expansion slots	One (1) Mini PCIe half-length (used by wireless LAN module)
Graphics	Integrated AMD Graphics
Bays	(1) 3.5" hard drive (1) 5.25" slim tray optical drive
Internal storage	Up to 2 TB hard disk drive
Ports and connectors	Side: (2) USB 3.0 ports, microphone, headphone, SD media card reader Rear: (4) USB 2.0 ports, stereo audio out, RJ-45 Ethernet, power connector
Display	18.5" diagonal WLED backlit anti-glare LCD; maximum resolution of 1366x768
Operating systems	• Windows 8.1 • Ubuntu Linux

Spare Parts

Cables (not illustrated)

Power button board cable	752336-001
Backlight cable	752330-001
Webcam cable	752337-001
Optical drive cable (data and power assembly)	752339-001
Hard drive cable (data and power assembly)	752338-001
Display (LVDS) reverse cable	752340-001
Converter board cable	752341-001

Not shown

Mass Storage Devices (not illustrated)

2 TB, 7200 rpm hard drive	616608-001
750 GB, 7200 rpm hard drive	639363-001
500 GB, 7200 rpm hard drive	636929-001
DVD±RW drive	657958-001

Boards and memory

1	System boards for use in HP 205 G1 models (include AMD E1-2500 processor and replacement thermal material)	
	For use in models without Windows 8	751275-001
	For use in models with Windows Standard	751275-501
	For use in models with Windows Professional	751275-601
*	System boards for use in HP 18 models (include Intel Pentium J2900 processor and replacement thermal material)	
	For use in models without Windows 8	782107-001
	For use in models with Windows Standard	782107-501
	For use in models with Windows Professional	782107-601
*	System boards for use in HP 18 models (include Intel Pentium J1800 processor and replacement thermal material)	
	For use in models without Windows 8	782108-001
	For use in models with Windows Standard	782108-501
	For use in models with Windows Professional	782108-601
2	Converter board	751276-001
3	Power button board	752342-001
*	WLAN module (802.11 b/g/n 1x1 WiFi + BT4.0)	701399-001
*	Webcam module	752344-001
Memory Modules (PC3L-12800, 1666-MHz, DDR3)		
*	4-GB	689373-001
*	2-GB	689372-001

Not shown

Miscellaneous Parts

1	Speakers	752343-001
2	Hard drive screw bumpers	752334-001
3	Fan	752335-001
4	Front bezel	752331-001
*	Rear cover	752332-001
*	Display panel, 18.5"-inch, anti-glare, LED N-ZBD, 200 nits	752345-001
*	Stand	752333-001
*	AC adapter (65 W)	752346-001
*	Mouse, USB	719901-001
*	Keyboards, unbranded	
	French Canadian	709695-121
	International English	709695-L31
	United States	729339-001
	People's Republic of China	729339-AA1
	Latin American Spanish	537924-161

Not shown

Common POST Error Messages

Screen Message	Probable Cause	Recommended Action
101-Option ROM Error	System ROM checksum error.	1. Verify ROM, reflash if required 2. Clear CMOS memory, reboot 3. Replace system board
103-System Board Failure	DMA, timers	1. Clear CMOS memory. 2. 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, 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	1. Check DIMMs for proper seating, type, compatibility. 2. Rearrange the DIMMs so that each channel has the same amount of memory.
301-, 304-Keyboard error	Keyboard failure.	Check kybd connection or keys. Check connector for bent or missing pins. Replace kybd. If 304, possible system board problem.
501-Display Adapter Failure	Graphics display controller.	1. Reseat graphics card. 2. Clear CMOS. 3. 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. Use F2 Diagnostics to run DPS Self-test. 2. Apply hard drive firmware patch if applicable. 3. Back up contents and replace hard drive.

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	11 blinks, 1 blink every second followed by a 2 second pause	Current processor does not support a feature previously enabled.
Power	Red	12 blinks, 1 blink every second followed by a 2 second pause	MXM thermal shutdown
none	none	System does not power on and LEDs are not flashing	System unable to power on

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.
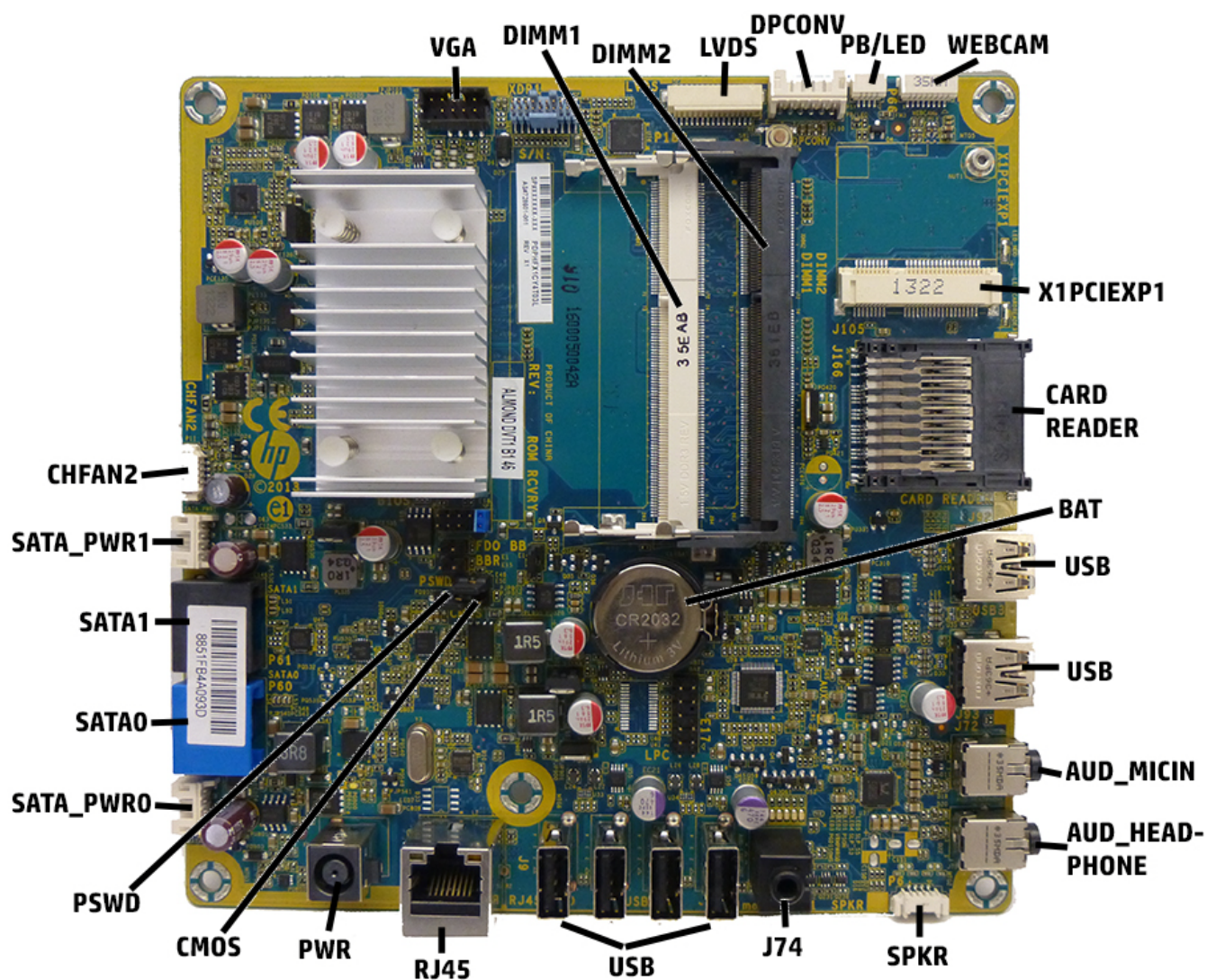5. Turn on the computer and allow it to start.

System Setup and Boot

Access the Setup Utility during the computer boot sequence by pressing the **Esc** key while "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen, and then pressing the **F10** key. If you do not press **Esc** at the appropriate time, you must restart the computer and again press **Esc** when the monitor light turns green to access the utility.

Setup Utility Menu

Heading	Option/Description
File	System Information - Lists the following main system specifications: • 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
	About - Displays copyright notice.
	Set Time and Date - Allows you to set system time and date.
	Apply Defaults and Exit - Applies the selected default settings and clears any established passwords.
	Ignore Changes and Exit - Exits Computer setup without saving changes.
	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 - Let you view model, firmware version, serial number • Hard Disk - Let you view drive size, model, firmware version, serial number, connector color. Also lets you set emulation type (none or hard disk).
	Storage Options - Allows you to set SATA Emulation, IDE or AHCI.
	Boot Order - Allows you to specify boot order. • Shortcut to Temporarily Override Boot Order
Security	Setup Password - Allows you to set and enable the setup (Admin) password.
	Power-On Password - Allows you to set and enable power-on password.
	Password Options - When any password exists allows you to lock legacy resources, enable/disable Setup Browse Mode, set password prompt, enable/disable network server mode, specify password requirement for warm boot, and set stringent passwords.
	Device Security - Allows you to set Device Available/Device Hidden for: serial and parallel ports, system audio, network controller, and SATA ports.
	USB Security - Allows you to set Device Available/Device Hidden for front USB ports 3-4, rear USB ports 8-11, internal USB ports 0, 1, 2, and 5.
	Slot Security - Allows you to disable any PCI Express or minicard slot.
	Network Boot - Enables/disables boot from OS (NIC models only).
	System IDs - Allows you to set Product name, serial number, UUID, SKU number, family name, asset tag, feature byte, build ID, keyboard locale setting for system ID entry.
	System Security (some models) - Allows you to enable/disable: • Data Execution Prevention (enable/disable) • Virtualization Technology (VTx/VTd) (enable/disable) • Intel TXT (LT) (enable/disable) • Embedded Security Device Support (enable/disable) • OS management of Embedded Security Device (enable/disable) • Reset of Embedded Security Device through OS (enable/disable)
	DriveLock Security - Allows you to assign or modify a master or user password for hard drives.
Power	Hardware Power Management - Allows you to enable/disable SATA bus power management, S5 maximum power savings, and S5 Wake On LAN.
	Thermal - Allows you to view CPU and system fan speeds.
Advanced	Power-On Options - Allows you to set: • POST messages - Enable/disable • After Power Loss - Off/on/previous state • POST Delay - None, 5, 10, 15, or 20 seconds
	BIOS Power-On - Allows you to set the computer to turn on at a preset time.
	Bus Options (some models) - Allows you to enable/disable PCI SERR# Generation and PCI VGA palette snooping.
	Device Options - Allows you to set: • Num Lock State at Power-on - off/on • Integrated Video - enable/disable • Multi-Processor - enable/disable • NIC PXE Option ROM Download - enable/disable

System Board

System Board Connectors and Jumpers (component location may vary)

VGA	Display connector	SPKR	Speaker connector
DIMM1	Memory socket - Channel A	J74	Line-out jack
DIMM2	Memory socket - Channel B	USB	External USB 2.0 connectors
LVDS	Display connector	RJ45	Network jack
DPCONV	Converter board connector	PWR	Main power connector
PB/LED	Power switch connector	CMOS	CMOS button
WEBCAM	Webcam connector	PSWD	Password header
X1PCIEXP1	PCIe X1 slot (WLAN)	SATA PWR0	Hard drive power connector
CARD READER	Card reader slot	SATA0	1st hard drive data connector
BAT	RTC battery socket	SATA1	2nd hard drive data connector
USB	External USB 2.0 connectors	SATA PWR1	Optical drive power connector
AUD_MICIN	External microphone jack	CHFAN2	Fan connector
AUD_HEADPHONE	External headphone jack		