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› HP 17-CN Series Laptop Motherboard Instruction Manual (Model Cel4120, M99687-001)

HP Cel4120

HP 17-CN Series Laptop Motherboard Instruction Manual

MODEL: CEL4120 (PART NUMBERS: M99687-001, M99687-601)



1. Introduction

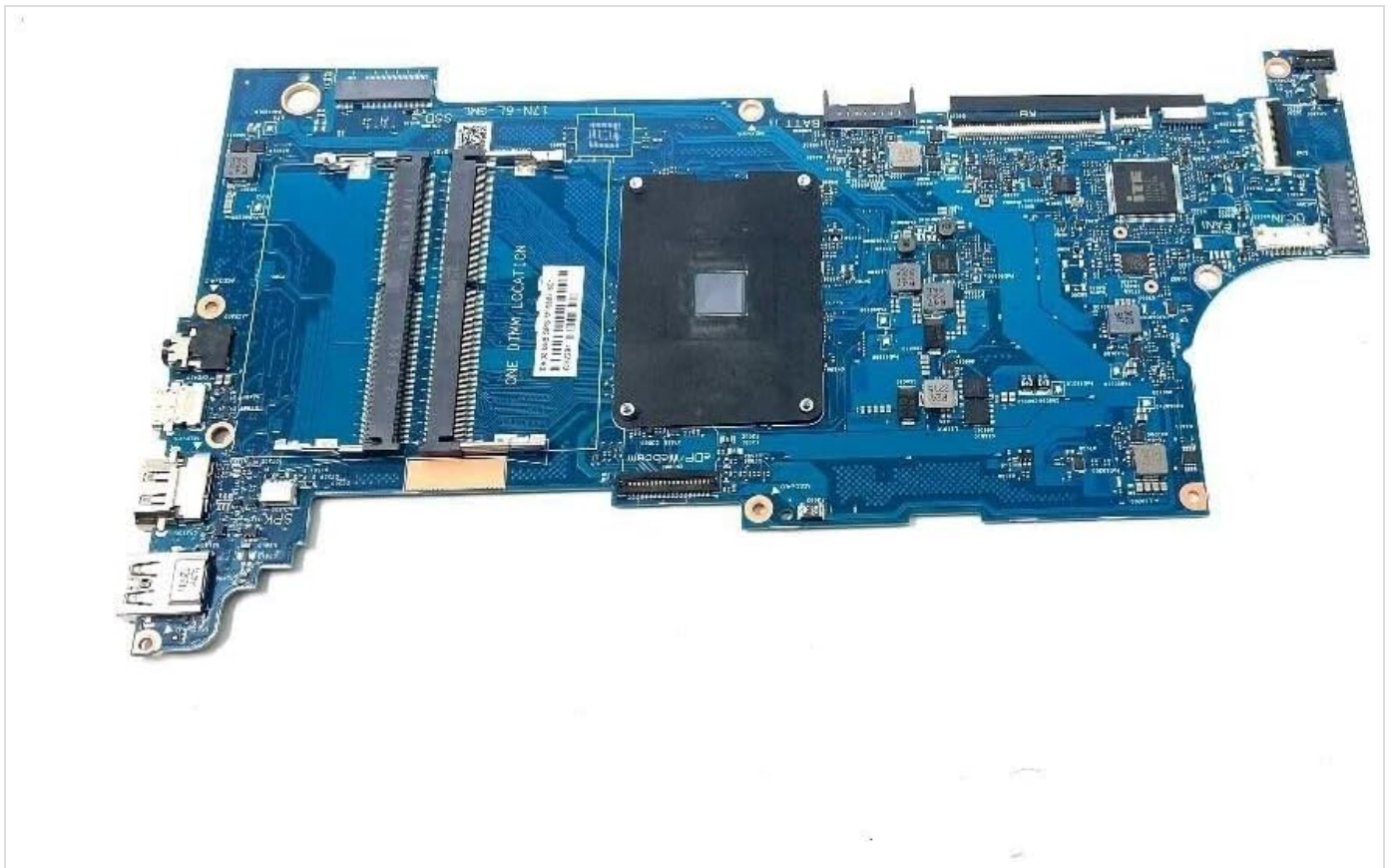
This manual provides essential information for the installation, operation, and maintenance of the HP 17-CN series laptop motherboard, model Cel4120. It is designed for users with technical proficiency in computer hardware. Please read this manual thoroughly before proceeding with any installation or maintenance procedures.

2. Safety Information

- Always disconnect the laptop from its power source and remove the battery before handling internal components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD), which can damage sensitive electronic components.
- Handle the motherboard by its edges to avoid touching components or connectors.
- Ensure proper ventilation during operation to prevent overheating.
- Keep small parts away from children.

3. Product Overview

The HP 17-CN series motherboard (Cel4120) is a replacement component designed for specific HP 17-CN and 17-CP laptop models. It features an LGA 1200 CPU socket, two DDR3L RAM slots, and integrated graphics.



This image displays the HP 17-CN series laptop motherboard. Key components visible include the central CPU socket, two DDR3L RAM slots, USB ports, audio jack, and various other connectors and integrated circuits.

Key Components:

- **CPU Socket:** LGA 1200 for compatible Intel processors.
- **RAM Slots:** Two DDR3L SODIMM slots.
- **Chipset:** Intel B360.
- **Power Connector:** 24-Pin main power connector.
- **Integrated Graphics:** Onboard graphics solution.
- **Peripheral Ports:** USB, audio, and other standard laptop connectors.

4. Setup and Installation

Motherboard replacement requires careful handling and adherence to proper installation procedures. It is recommended that this procedure be performed by a qualified technician.

Installation Steps:

1. **Preparation:** Ensure the laptop is powered off, unplugged, and the battery is removed. Discharge any static electricity.
2. **Disassembly:** Carefully disassemble the laptop chassis according to the specific service manual for your HP 17-CN/17-CP model to access the existing motherboard.
3. **Remove Old Motherboard:** Disconnect all cables (display, keyboard, touchpad, speakers, Wi-Fi, etc.) and unscrew the old motherboard from the chassis. Remove the CPU, RAM, and any other transferable components.
4. **Install CPU and RAM:** Install your compatible Intel LGA 1200 processor into the CPU socket on the new motherboard. Apply thermal paste if necessary. Insert DDR3L RAM modules into the SODIMM slots until they click into place.
5. **Mount New Motherboard:** Carefully place the new motherboard into the laptop chassis, aligning it with the screw posts. Secure it with the appropriate screws.

6. **Reconnect Components:** Reconnect all cables and components (e.g., display, keyboard, storage drives, cooling fan, Wi-Fi card) to their respective connectors on the new motherboard. Ensure all connections are secure.
7. **Reassembly:** Reassemble the laptop chassis.
8. **Initial Power-On:** Connect the AC adapter and attempt to power on the laptop. Observe for POST (Power-On Self-Test) indicators.

5. Operating

Upon successful installation, the motherboard will initiate the system's boot process. Accessing the BIOS/UEFI settings may be necessary for initial configuration or troubleshooting.

BIOS/UEFI Access:

Typically, you can access the BIOS/UEFI setup utility by pressing a specific key (e.g., F2, F10, Esc, Del) repeatedly during the initial boot sequence. Refer to your specific HP laptop model's documentation for the exact key.

6. Maintenance

Proper maintenance can extend the lifespan of your motherboard and laptop.

- **Cleaning:** Periodically clean dust from the motherboard and cooling components using compressed air. Ensure the laptop is powered off and unplugged before cleaning.
- **Thermal Management:** Ensure the cooling system (fan, heatsink) is free of obstructions and functioning correctly to prevent overheating.
- **BIOS/Firmware Updates:** Check the official HP support website for BIOS/UEFI updates for your specific laptop model. Apply updates only if recommended and follow instructions carefully.

7. Troubleshooting

If you encounter issues after installation, consider the following troubleshooting steps:

- **No Power/No Boot:**
 - Verify all power connections, including the AC adapter and internal power cables.
 - Ensure the battery is properly connected or removed for testing with AC power only.
 - Check for any loose cables or components.
- **No Display:**
 - Confirm the display cable (e.g., eDP) is securely connected to both the motherboard and the display panel.
 - Test with an external monitor if possible.
- **POST Beep Codes:** Listen for any beep codes during startup. Refer to HP's documentation for your specific model to interpret these codes, which indicate hardware issues.
- **Component Reseating:** Reseat the CPU, RAM, and any expansion cards to ensure they are properly seated in their slots.
- **CMOS Reset:** A CMOS reset can resolve certain boot issues. This usually involves removing the CMOS battery for a few minutes or using a designated jumper on the motherboard.

8. Specifications

Feature	Specification
Model Name	Cel4120
Part Numbers	M99687-001, M99687-601
Compatible Devices	HP 17-CN0051DS, 17-CN, 17-CP, 17-CN0052DS, 17-CN0054DS
CPU Socket	LGA 1200
Compatible Processors	Intel Core i5-10400, Intel Core i5-11400, Intel Core i7-10700, Intel Core i7-11700, Intel Core i9-10900, Intel Core i9-11900 (and others compatible with LGA 1200)
RAM Memory Technology	DDR3L
Memory Slots Available	2
Chipset Type	Intel B360
Main Power Connector Type	24-Pin
Graphics Card Interface	Integrated

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the vendor directly. Official HP support resources for your specific laptop model can be found on the [HP Support website](#).

