2.2.11 Lab: Choose and Install a Motherboard

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Time Spent: 34:02

Score: 100%

Task Summary

Required Actions

✓ Install the Intel 1151 motherboard

✓ Connect the system case connectors   [Hide Details](#)

   ✓ Connect front case fan
   ✓ Connect rear case fan
   ✓ Connect the case power switch
   ✓ Connect the case power LED
   ✓ Connect the hard drive LED
   ✓ Connect the case speaker (beeper)
   ✓ Connect USB port
   ✓ Connect USB3 port
   ✓ Connect the front panel audio

✓ Connect the power supply connectors   [Hide Details](#)

   ✓ Connect the main motherboard power
   ✓ Connect the CPU power

Explanation

Complete this lab as follows:

1. Under Workbench, select **Hardware**.
2. Find and install the correct motherboard.
    a. Above the computer, select the Change View icon and then **Motherboard**.
    b. Under Inventory, expand **Motherboards**.
    c. Find the correct motherboard.
        i. Select a *motherboard*.
        ii. In the Selected Item pane, select the information icon next to the image.
        iii. Expand the window for better readability.
        iv. Read the *motherboard documentation* in the left pane to identify the supported features.
        v. Close the Item Detail window.

      vi. Repeat this process for each motherboard until you find one that meets all the scenario requirements.

    d. For this scenario, drag the **Motherboard, Socket 1151** to the motherboard plate in the computer case.

3. Use the motherboard specifications to locate the required connection ports.
    a. Select the **Motherboard, Socket 1151**, if not already the Selected Item.
    b. In the Selected Item pane, select the information icon next to the image.
    c. Expand the window for better readability.
    d. Use the images and documentation in the left pane to identify the location of the following connectors:

> The connectors are displayed with the corresponding motherboard diagram location number. Scroll to the bottom of the motherboard details to see the panel diagram to connect items linked to location 13.

Case Connector	Location #
USB 3.0 connector (blue)	9
Audio Connector	18
USB 2.0 Connector (black)	14
3-pin FAN connector (Fan front)	4
3-pin FAN connector (Fan rear)	4
Speaker	13
HDD LED (Hard Drive LED)	13
Power LED 3-1 pin (Note: Use the bottom PLED location.)	13
Power switch (PWRSW)	13

    e. Connect the system case connectors.
    a. Select the *System Case*.
    b. In the Selected Item pane, the connectors are displayed below the case image.
    c. Drag each **Connector** to the identified port location on the motherboard. If necessary, zoom in to get a closer view of the motherboard.
    d. Repeat this process until all the case connectors are connected to the motherboard.

4. Connect the power supply power cables to the motherboard.
    a. Select the **Motherboard, Socket 1151**.
    b. In the Selected Item pane, select the information icon.
    c. Expand the window for better readability.
    d. Identify the location for the following connectors. The location number is included below.

Power Supply Connectors	Location #
8-pin CPU power connector	2
20+4 Power Connector (Main motherboard power)	2

    e. Connect the power supply connectors.
    a. Select the power supply.
    b. Drag the **Connector, Power Supply, 8-pin CPU** connector to the port on the motherboard.

   c. Drag the **Connector, Power Supply, 20+4 pin** connector to the port on the motherboard.