

Dell Pro Max with GB10

FCM1253

Owner's Manual

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Views of Dell Pro Max with GB10 FCM1253

Front

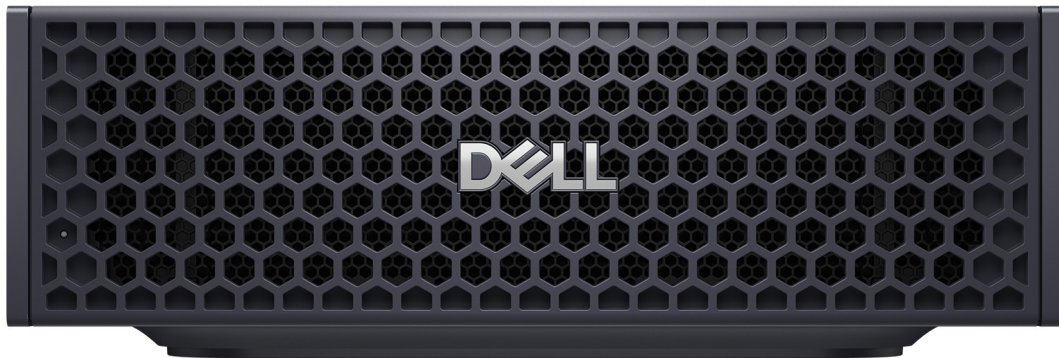


Figure 1. Front view of Dell Pro Max with GB10 FCM1253

NOTE: All the ports and connectors on the Dell Pro Max with GB10 FCM1253 are located at the back of the computer.

Back

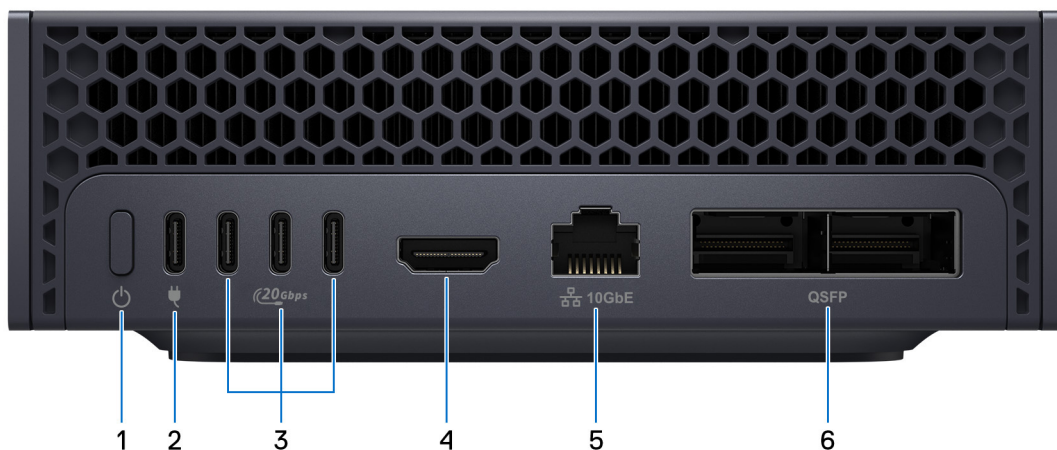


Figure 2. Back view of Dell Pro Max with GB10 FCM1253

1. Power button

Press to turn on the computer if it is turned off.

When the computer is turned on, press and hold the power button for four seconds, then release to force shut-down the computer.


2. Power-in port for Type-C adapter

Connect the Type-C power adapter to supply power to your computer.

3. Three USB 3.2 Gen 2x2 (20 Gbps) Type-C ports with DisplayPort 1.4a alt-mode, power out

Connect devices such as external storage devices, displays, and peripherals. Provides data transfer speeds up to 20 Gbps and can power external devices.

The maximum resolution that is supported by this port is up to 7680 x 4320 at 60 Hz with a Type-C to DisplayPort adapter.

 **NOTE:** Dell Technologies recommends connecting Type-C cables from right to left due to the proximity of ports, and suggests using standard cables with a width and thickness of 6.5 mm (0.25 in) for optimal connection.

4. HDMI 2.1a port

Connect to a TV, external display, or another HDMI-in enabled device.

The maximum resolution that is supported by this port is up to 7680 x 4320 at 30 Hz.

5. RJ45 ethernet port (10GbE)

Connect an ethernet (RJ45) cable from a router or a broadband modem for network or Internet access, with a transfer rate of up to 10 Gbps.

6. Two QSFP (200 Gbps) ports

Connect a QSFP cable from a switcher, router, or server for network or Internet access, with a transfer rate of up to 200 Gbps.

Set up your Dell Pro Max with GB10

There are two ways to set up your Dell Pro Max with GB10, a wireless or a wired setup.

Dell Technologies recommends the following setup procedures depending on the devices available.

Table 1. Setup requirements

Set up method	Wireless	Wireless
Device requirements	<ul style="list-style-type: none"> One device or computer with a wireless connection 	<ul style="list-style-type: none"> One display One mouse One keyboard

Wireless setup

NOTE: To perform this setup, ensure that you have another device available with a wireless connection.

Steps

1. Locate the label on the chassis.

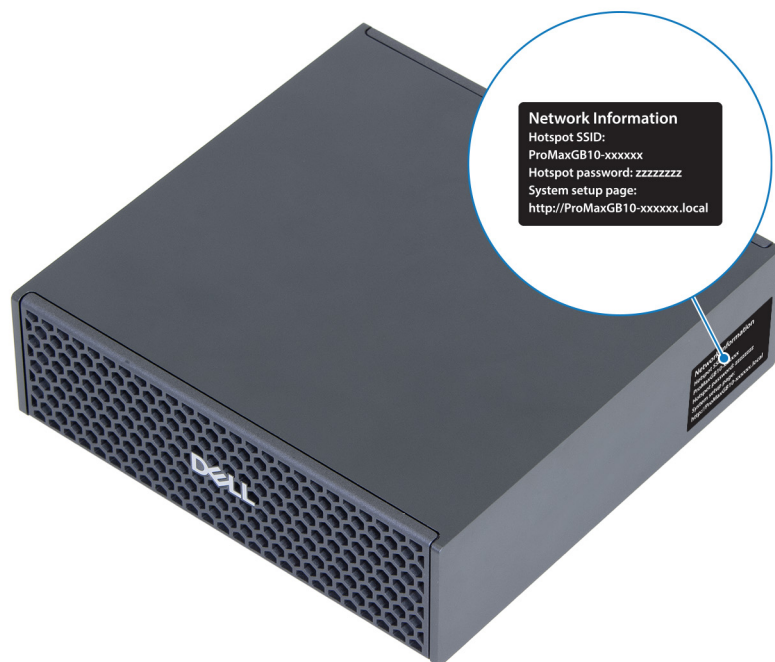


Figure 3. Label location

2. Record down or take a picture of the information on this label.

NOTE: The following information on the label is required to set up your Dell Pro Max with GB10.

- **Hotspot SSID**
- **Hotspot password**
- **System setup page**

This label can be peeled from the computer after setup is complete.

3. Connect the power adapter to the power-adaptor port on the back of the computer.



Figure 4. Connecting the power adapter

4. Connect an ethernet cable to the RJ45 port on the back of your computer and a router or modem to establish an internet connection.

NOTE: Ensure that your computer has an internet connection before completing setup.



Figure 5. Connecting your computer to the internet

5. Press the power button and wait for the computer to turn on.



Figure 6. Pressing the power button

6. Use the wireless connection on the other device to search for the **Hotspot SSID** of your Dell Pro Max with GB10.
7. Click **Connect** and enter the **Hotspot password** then click **Next**.

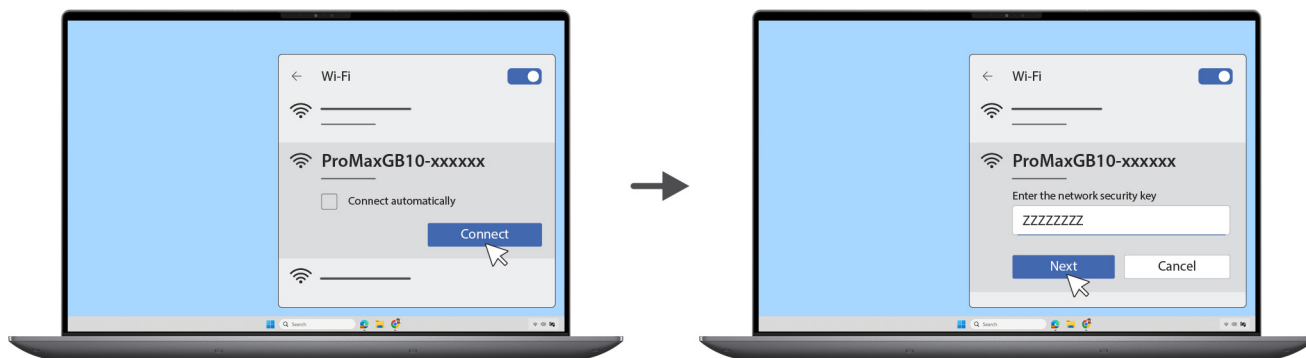


Figure 7. Entering the password and connecting to the hotspot

8. Once your device is connected to the hotspot, open a browser, enter the **System Setup page** address in the address bar, and press **Enter**.

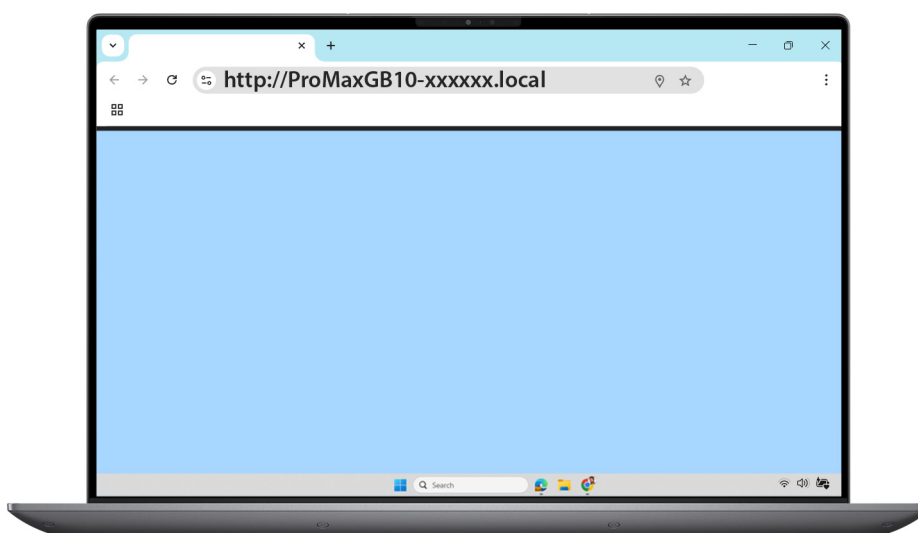


Figure 8. Entering the System setup page

9. Complete the setup of your Dell Pro Max with GB10.

Wired setup

Steps

1. Connect the power adapter to the power-adapter port on the back of the computer.



Figure 9. Connecting the power adapter

2. Connect the mouse and keyboard.



Figure 10. Connecting the mouse and keyboard

3. Connect the display.

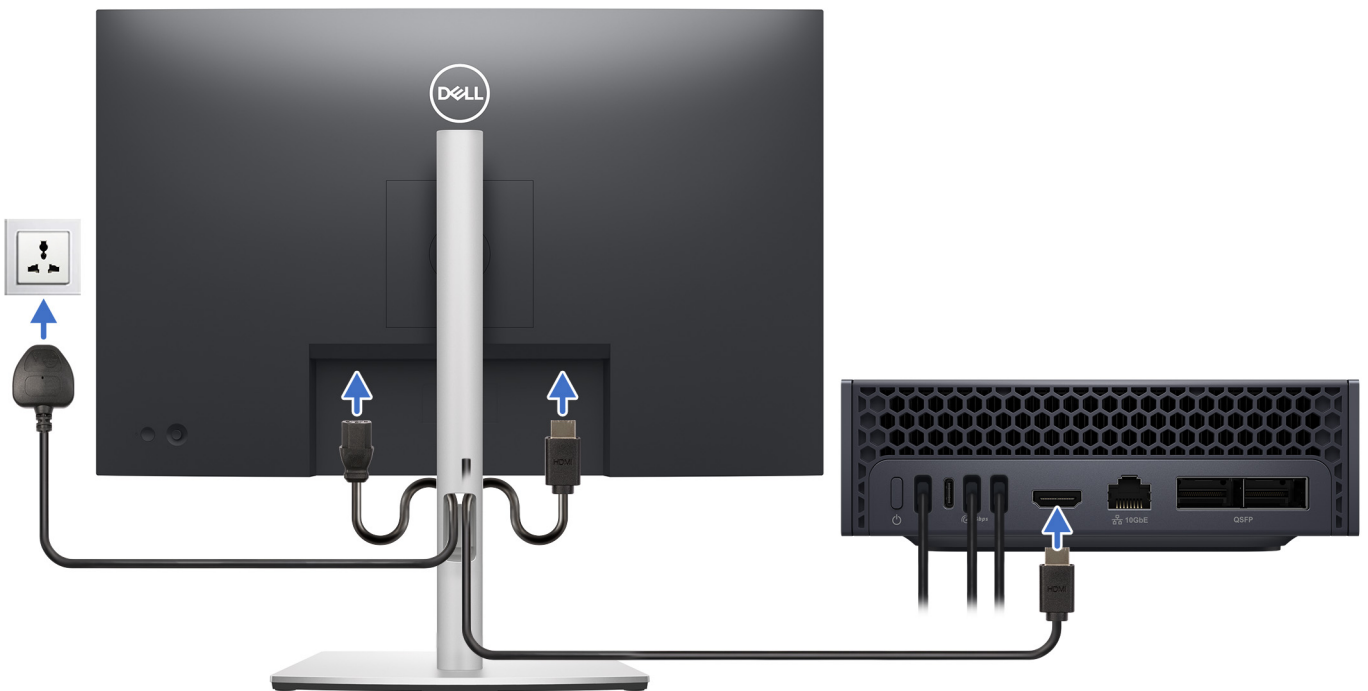


Figure 11. Connecting the display

4. Connect an ethernet cable to the RJ45 port on the back of your computer and a router or modem to establish an internet connection.

NOTE: Ensure that your computer has an internet connection before completing setup.



Figure 12. Connecting your computer to the internet

5. Press the power button and wait for the computer to turn on.



Figure 13. Pressing the power button


6. Complete the setup of your Dell Pro Max with GB10.

Specifications of Dell Pro Max with GB10 FCM1253

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro Max with GB10 FCM1253.

Table 2. Dimensions and weight

Description	Values
Height	<ul style="list-style-type: none">• Front: 45.50 mm (1.80 in.)• Rear: 45.50 mm (1.80 in.)• Peak: 51 mm (2 in.)
Width	150 mm (5.90 in.)
Depth	150 mm (5.90 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	<ul style="list-style-type: none">• Minimum: 1.22 kg (2.69 lb)• Maximum: 1.34 kg (2.96 lb)

Processor

The following table lists the details of the processors that are supported for your Dell Pro Max with GB10 FCM1253.

Table 3. Processor

Description	Option one
Processor type	NVIDIA GB10
Processor wattage	140 W
Processor total core count	20
Performance-cores	10 Cortex-X925 ARM cores
Efficient-cores	10 Cortex-A725 ARM cores
Processor cache	16 MB
Integrated graphics	NVIDIA Blackwell

GPU

The following table lists the specifications of the Graphics Processing Unit (GPU) supported by your Dell Pro Max with GB10 FCM1253.

Table 4. GPU

Description	Values
Controller	NVIDIA Blackwell
CUDA cores	Blackwell Generation
Tensor cores	5th Generation
Ray Tracing (RT) cores	4th Generation
Tensor performance	1 PFLOP
NVIDIA encoder (NVENC)	1
NVIDIA decoder (NVDEC)	1

Memory

The following table lists the memory specifications that are supported by your Dell Pro Max with GB10 FCM1253.

Table 5. Memory specifications

Description	Values
Memory slots	None, unified system memory
Memory type	LPDDR5x
Memory speed	273 GB/s (8533 MT/s)
Memory configurations supported	128 GB: LPDDR5x, up to 273 GB/s, unified system memory

Operating system

Your Dell Pro Max with GB10 FCM1253 supports the following operating systems:

- NVIDIA DGX OS

External ports and slots

The following table lists the external ports and slots on your Dell Pro Max with GB10 FCM1253.

Table 6. External ports and slots

Description	Values
Network port	<ul style="list-style-type: none">• One RJ45 (10GbE) ethernet port• Two QSFP (200 Gbps) ports
USB ports	Three USB 3.2 Gen 2x2 (20 Gbps) Type-C ports with DisplayPort 1.4a alt-mode, power out
Video port(s)	One HDMI 2.1a port

Table 6. External ports and slots (continued)

Description	Values
Power-adaptor port	One power-in port for Type-C adapter

Video port and resolution matrix

The following table lists the video port and resolution matrix on your Dell Pro Max with GB10 FCM1253.

Table 7. Video port and resolution matrix

Port type	USB 3.2 Gen 2x2 (20 Gbps) Type-C ports with DisplayPort 1.4a alt-mode, power out	HDMI 2.1a port
Maximum resolution—single display	7680 x 4320 at 60 Hz	7680 x 4320 at 30 Hz
Maximum resolution—dual MST	Not supported	Not applicable
Maximum resolution—triple MST	Not supported	Not applicable
Maximum resolution—quad MST	Not supported	Not applicable

Network controller

The following table lists the network controller specifications of your Dell Pro Max with GB10 FCM1253.

Table 8. Network controller specifications

Model	Realtek RTL8127-CG	NVIDIA ConnectX-7
Ports	One RJ45 (10GbE) ethernet port	Two QSFP (200 Gbps) ports
Transfer rate	Up to 10 Gbps	Up to 400 Gbps


Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Dell Pro Max with GB10 FCM1253.

Table 9. Wireless module specifications

Description	Values
Model number	AzureWave AW-EM637
Transfer rate	Up to 1000 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax) • Wi-Fi 7 (WiFi 802.11be)

Table 9. Wireless module specifications (continued)

Description	Values
Encryption	<ul style="list-style-type: none"> • 128-bit AES-CCMP • 256-bit AES-GCMP • 256-bit AES-GMAC
Bluetooth wireless card  NOTE: The functionality of the Bluetooth wireless card may vary based on the operating system.	Bluetooth 5.4 wireless card

Storage

This section lists the storage options on your Dell Pro Max with GB10 FCM1253.

Your Dell Pro Max with GB10 supports one M.2 2230/2242 solid-state drive.

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 TLC solid-state drive	PCIe Gen4 NVMe, up to 64 GT/s	1 TB
M.2 2230 QLC solid-state drive	PCIe Gen4 NVMe, up to 64 GT/s	2 TB
M.2 2242 TLC self-encrypting Opal 2.0 solid-state drive	PCIe Gen4 NVMe, up to 64 GT/s	<ul style="list-style-type: none"> • 1 TB • 4 TB


Power adapter

The following table lists the power adapter specifications of your Dell Pro Max with GB10 FCM1253.

Table 11. Power-adapter specifications

Description	Values
Type	280 W, USB Type-C
Power-adapter dimensions:	
Height	23 mm (0.91 in.)
Width	78 mm (3.07 in.)
Depth	162 mm (6.38 in.)
Input voltage	<ul style="list-style-type: none"> • 100 VAC–240 VAC • 200 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current (maximum)	<ul style="list-style-type: none"> • 2 A • 4 A
Output current (continuous)	<ul style="list-style-type: none"> • 48 V/5.83 A • 36 V/5.83 A • 28 V/5.89 A • 20 V/6.50 A

Table 11. Power-adaptor specifications (continued)


Description		Values
		<ul style="list-style-type: none"> • 15 V/3 A • 9 V/3 A • 5 V/3 A
Rated output voltage		<ul style="list-style-type: none"> • 48 VDC • 36 VDC • 28 VDC • 20 VDC • 15 VDC • 9 VDC • 5 VDC
Temperature range:		
	Operating	0°C to 35°C (32°F to 95°F)
	Storage	-40°C to 70°C (-40°F to 158°F)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

Environmental

The following table lists the environmental specifications of your Dell Pro Max with GB10 FCM1253.

Table 12. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	Yes
Vertical orientation packaging support	Yes
Multi-Pack packaging	Yes
Energy-Efficient Power Supply	Standard
ENV0424 compliant	Yes

 **NOTE:** Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. The anticipated required criteria for EPEAT 2018.

Regulatory compliance

The following table lists the regulatory compliance of your Dell Pro Max with GB10 FCM1253.

Table 13. Regulatory compliance


Regulatory compliance
Product Safety, EMC, and Environmental Datasheets
Dell Regulatory Compliance home page
Responsible Business Alliance policy

Operating and storage environment

This table lists the operating and storage specifications of your Dell Pro Max with GB10 FCM1253.

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 14. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 ft)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		










* Measured using a random vibration spectrum that simulates the user environment.

† Measured using a 2 ms half-sine pulse.

Working inside your computer



Safety instructions

Use the following safety guidelines to protect your computer from potential damage and to ensure your personal safety. Unless otherwise noted, each procedure in this document assumes that you have read the safety information that shipped with your computer.

-  **WARNING:** Before working inside your computer, read the safety information that is shipped with your computer. For more safety best practices, see [Dell Regulatory Compliance Home Page](#).
-  **WARNING:** Disconnect your computer from all power sources before opening the computer cover or panels. After you finish working inside the computer, replace all covers, panels, and screws before connecting your computer to an electrical outlet.
-  **WARNING:** For laptops, discharge the battery completely before removing it. Disconnect the AC power adapter from the computer and operate the computer solely on battery power—the battery is fully discharged when the computer no longer turns on when the power button is pressed.
-  **CAUTION:** To avoid damaging the computer, ensure that the work surface is flat, dry, and clean.
-  **CAUTION:** You should only perform troubleshooting and repairs as authorized or directed by the Dell technical support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty.
-  **CAUTION:** Before touching anything inside your computer, ground yourself by touching an unpainted metal surface, such as the metal at the back of the computer. While you work, periodically touch an unpainted metal surface to dissipate static electricity which could harm internal components.
-  **CAUTION:** To avoid damaging the components and cards, handle them by their edges, and avoid touching the pins and the contacts.
-  **CAUTION:** When you disconnect a cable, pull it by its connector or its pull tab, not the cable itself. Some cables have connectors with locking tabs or thumbscrews that you must disengage before disconnecting the cable. When disconnecting cables, keep them evenly aligned to avoid bending the connector pins. When connecting cables, ensure that the connector on the cable is correctly oriented and aligned with the port.
-  **CAUTION:** Press and eject any installed card from the media-card reader.

Before working inside your computer

Steps

1. Save and close all open files and exit all open applications.
2. Shut down your computer. Click the system tray on the upper right, then click  **Power** > **Power Off**.
 -  **NOTE:** If you are using a different version of the operating system, see the documentation of your operating system for shut-down instructions.
3. Turn off all the attached peripherals.
4. Disconnect your computer from the electrical outlet.
5. Disconnect all attached network devices and peripherals, such as keyboard, mouse, and monitor from your computer.

Safety precautions

This section details the primary steps to be followed before disassembling any device or component.

Observe the following safety precautions before any installation or break-fix procedures involving disassembly or reassembly:

- Turn off the computer and all attached peripherals.
- Disconnect the computer from AC power.
- Disconnect all network cables and peripherals from the computer.
- Use an ESD field service kit when working inside your computer to avoid electrostatic discharge (ESD) damage.
- Place the removed component on an anti-static mat after removing it from the computer.
- Press and hold the power button for 15 seconds to discharge the residual power in the system board.

Bonding

Bonding is a method for connecting two or more grounding conductors to the same electrical potential. This is done by using a field service electrostatic discharge (ESD) kit. When connecting a bonding wire, ensure that it is connected to bare metal and never to a painted or nonmetal surface. Ensure that the wrist strap is secure and in full contact with your skin. Remove all jewelry, watches, bracelets, or rings before grounding yourself and the equipment.

Electrostatic discharge—ESD protection

ESD is a major concern when you handle electronic components, especially sensitive components such as expansion cards, processors, memory modules, and system boards. A slight charge can damage circuits in ways that may not be obvious, such as intermittent problems or a shortened product life span. As the industry pushes for lower power requirements and increased density, ESD protection is an increasing concern.

Two recognized types of ESD damage are catastrophic and intermittent failures.

- **Catastrophic** – Catastrophic failures represent approximately 20 percent of ESD-related failures. The damage causes an immediate and complete loss of device functionality. An example of catastrophic failure is a memory module that has received a static shock and immediately generates a "No POST/No Video" symptom with a beep code that is emitted for missing or nonfunctional memory.
- **Intermittent** – Intermittent failures represent approximately 80 percent of ESD-related failures. The high rate of intermittent failures means that most of the time when damage occurs, it is not immediately recognizable. The memory module receives a static shock, but the tracing is merely weakened and does not immediately produce outward symptoms that are related to the damage. The weakened trace may take weeks or months to melt, and in the meantime may cause degradation of memory integrity, intermittent memory errors, and so on.

Intermittent failures that are also called latent or "walking wounded" are difficult to detect and troubleshoot.

Perform the following steps to prevent ESD damage:

- Use a wired ESD wrist strap that is properly grounded. Wireless anti-static straps do not provide adequate protection. Touching the chassis before handling parts does not ensure adequate ESD protection on parts with increased sensitivity to ESD damage.
- Handle all static-sensitive components in a static-safe area. If possible, use anti-static floor pads and workbench pads.
- When unpacking a static-sensitive component from its shipping carton, do not remove the component from the anti-static packing material until you are ready to install the component. Before unwrapping the anti-static packaging, use the anti-static wrist strap to discharge the static electricity from your body.


i NOTE: You can protect against ESD and discharge static electricity from your body by touching a metal-grounded object before you interact with anything electronic, for example, an unpainted metal surface on your computer's I/O panel. When connecting a peripheral (including handheld digital assistants) to your computer, you should always ground both yourself and the peripheral before connecting it to the computer. In addition, as you work inside the computer, periodically touch a metal-grounded object to remove any static charge that your body may have accumulated.

For more information about the wrist strap and ESD wrist strap tester, see [Components of an ESD Field Service Kit](#).

- Before transporting a static-sensitive component, place it in an anti-static container or packaging.

ESD Field Service kit

The unmonitored field service kit is the most commonly used service kit. Each Field Service kit includes three main components: anti-static mat, wrist strap, and bonding wire.

 **CAUTION:** It is critical to keep ESD-sensitive devices away from internal parts that are insulated and often highly charged, such as plastic heat sink casings.

Working environment

Before the ESD Field Service kit is deployed, conduct an evaluation of the site to ensure proper setup and readiness. For example, deploying the kit for a server environment is different than for a desktop or laptop environment. Servers are typically installed in a rack within a data center; desktops or laptops are typically placed on office desks or cubicles. Always look for a large open flat work area that is free of clutter and large enough to deploy the ESD kit with additional space to accommodate the type of computer that is being repaired. The workspace should also be free of insulators that can cause an ESD event. On the work area, insulators such as styrofoam and other plastics should always be moved at least 12 inches or 30 centimeters away from sensitive parts before physically handling any hardware components.


ESD packaging

All ESD-sensitive devices must be shipped and received in static-safe packaging. Metal, static-shielded bags are preferred. However, you should always return the damaged component using the same ESD bag and packaging that the new part arrived in. The ESD bag should be folded over and taped shut and all the same foam packing material should be used in the original box that the new part arrived in. ESD-sensitive devices should be removed from packaging only at an ESD-protected work surface, and parts should never be placed on top of the ESD bag because only the inside of the bag is shielded. Always place parts in your hand, on the anti-static mat, in the computer, or inside an ESD bag.

Components of an ESD Field Service kit

The components of an ESD Field Service kit are:

- **Anti-Static Mat** – The anti-static mat is dissipative and parts can be placed on it during service procedures. When using an anti-static mat, your wrist strap should be snug and the bonding wire should be connected to the anti-static mat and to any bare metal on the computer being worked on. Once deployed properly, service parts can be removed from the ESD bag and placed directly on the anti-static mat. ESD-sensitive items are safe in your hand, on the anti-static mat, in the computer, or inside an ESD bag.
- **Wrist Strap and Bonding Wire** – If an anti-static mat is not being used, the wrist strap and bonding wire should be connected directly between your wrist and an exposed metal part of the hardware. If you are using an anti-static mat, connect the wrist strap and bonding wire to the anti-static mat to ensure protection for any hardware placed on the mat. The physical connection of the wrist strap and bonding wire between your skin, the anti-static mat, and the hardware is known as bonding. Use only Field Service kits with a wrist strap, anti-static mat, and bonding wire. Never use wireless wrist straps. Always be cautious that the internal wires of a wrist strap are prone to damage from normal wear and tear, and must be checked regularly with a wrist strap tester in order to avoid accidental ESD hardware damage. It is recommended to test the wrist strap and bonding wire at least once per week.
- **ESD Wrist Strap Tester** – The wires inside an ESD strap are prone to damage over time. When using an unmonitored ESD kit, it is recommended to test the wrist strap regularly—ideally before each service session, and at a minimum, once per week. The most reliable method for testing is with a wrist strap tester. To perform the test, connect the bonding wire of the wrist strap to the tester while wearing the strap. Press the test button to initiate the check. A green LED indicates a successful test, while a red LED and audible alarm signal a failure.


 **NOTE:** It is recommended to always use the traditional wired ESD grounding wrist strap and protective anti-static mat when servicing Dell products. In addition, it is critical to keep sensitive parts separate from all insulator parts while servicing the computer.

Transporting sensitive components

When transporting ESD sensitive components such as replacement parts or parts to be returned to Dell, it is critical to place these parts in anti-static bags for safe transport.

Lifting equipment

Adhere to the following guidelines when lifting heavy equipment:

 **CAUTION:** Do not lift greater than 50 pounds. Always obtain additional resources or use a mechanical lifting device.

1. Get a firm balanced footing. Keep your feet apart for a stable base, and point your toes out.
2. Tighten stomach muscles. Abdominal muscles support your spine when you lift, offsetting the force of the load.
3. Lift with your legs, not your back.
4. Keep the load close. The closer it is to your spine, the less force it exerts on your back.
5. Keep your back upright, whether lifting or setting down the load. Do not add the weight of your body to the load. Avoid twisting your body and back.
6. Follow the same technique in reverse to set the load down.

After working inside your computer

About this task

 **CAUTION:** Leaving stray or loose screws inside your computer may severely damage your computer.

Steps


1. Replace all screws and ensure that no stray screws remain inside your computer.
2. Connect any external devices, peripherals, or cables you removed before working on your computer.
3. Connect your computer and all attached devices to their electrical outlets.
4. Turn on your computer.


Recommended tools

The procedures in this document may require the following tools:

- Phillips screwdriver #0
- T5 or T8 screwdriver



Screw list

 **NOTE:** When removing screws from a component, it is recommended to note the screw type and the quantity of screws, and then place them in a screw storage box. This is to ensure that the correct number of screws and correct screw type is restored when the component is replaced.

 **NOTE:** Some computers have magnetic surfaces. Ensure that the screws are not left attached to such surfaces when replacing a component.

 **NOTE:** Screw color may vary depending on the configuration ordered.

Table 15. Screw list

Component	Screw type	Quantity	Screw image
Bottom cover	M2x4.4, Torx	4	
M.2 solid state drive	M2x2	1	

Major components of Dell Pro Max with GB10 FCM1253

The following image shows the major components of Dell Pro Max with GB10 FCM1253.

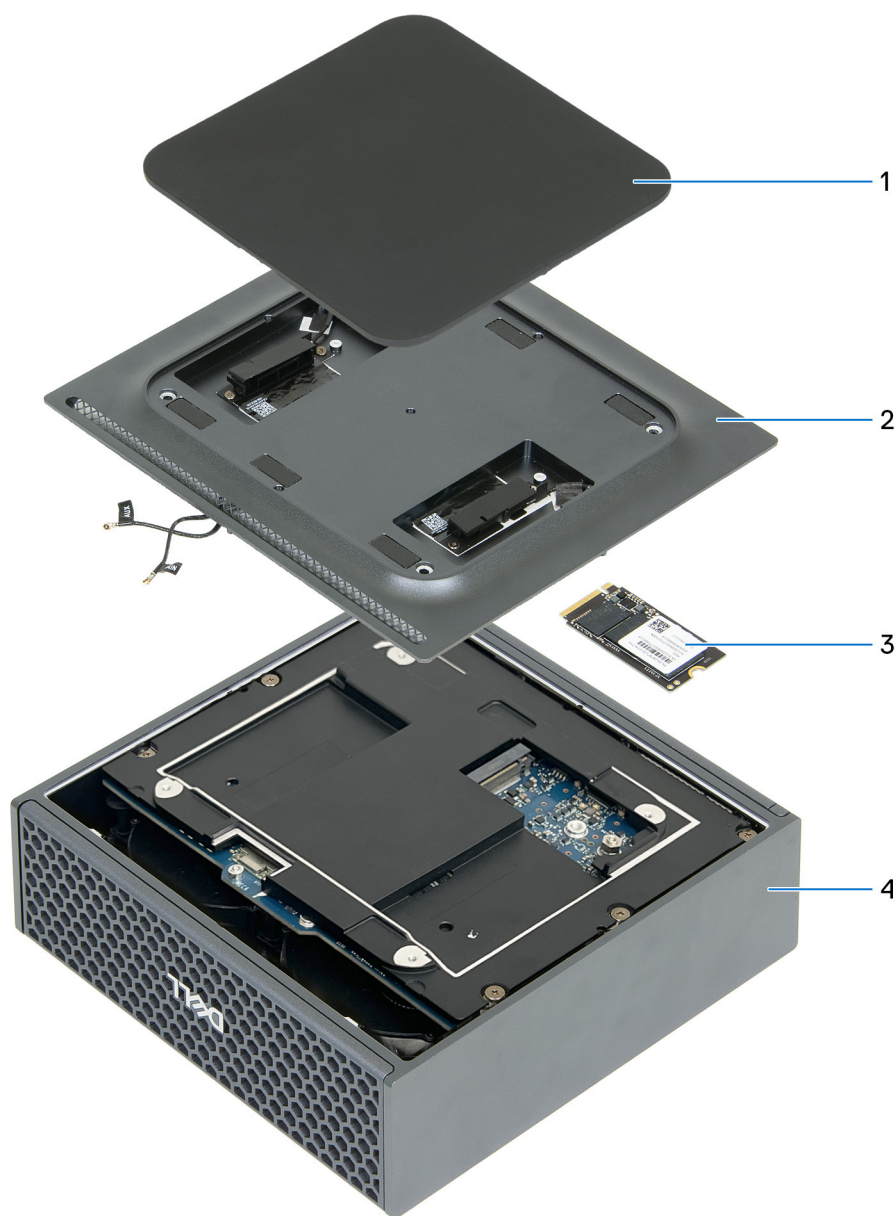


Figure 14. Major Components of Dell Pro Max with GB10

1. Rubber base plate
2. Bottom cover
3. Solid-state drive
4. Chassis

NOTE: Dell Technologies provides a list of components and their part numbers for the original system configuration purchased. These parts are available according to warranty coverages purchased by the customer. Contact your Dell sales representative for purchase options.

Rubber base plate

Removing the rubber base plate

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).

About this task

The following image indicates the location of the rubber base plate and provides a visual representation of the removal procedure.

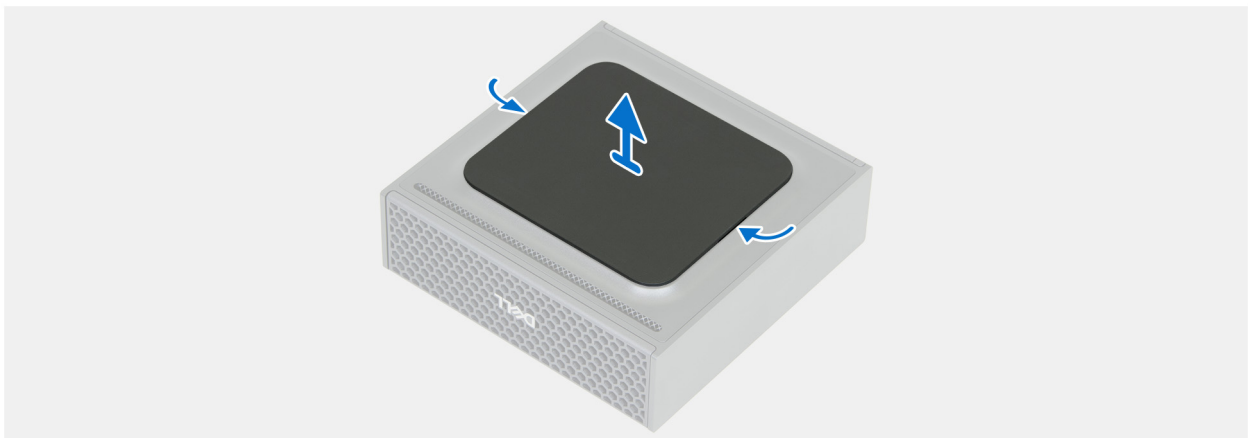


Figure 15. Removing the rubber base plate

Steps

1. Place the computer top side down on a clean and flat surface.
2. Using the left and right gaps between the rubber base plate and the bottom cover, pry and lift the rubber base off the bottom cover.

Installing the rubber base plate

Prerequisites

If you are replacing a component, remove the existing component before performing the installation process.

About this task

The following image indicates the location of the rubber base plate and provides a visual representation of the installation procedure.

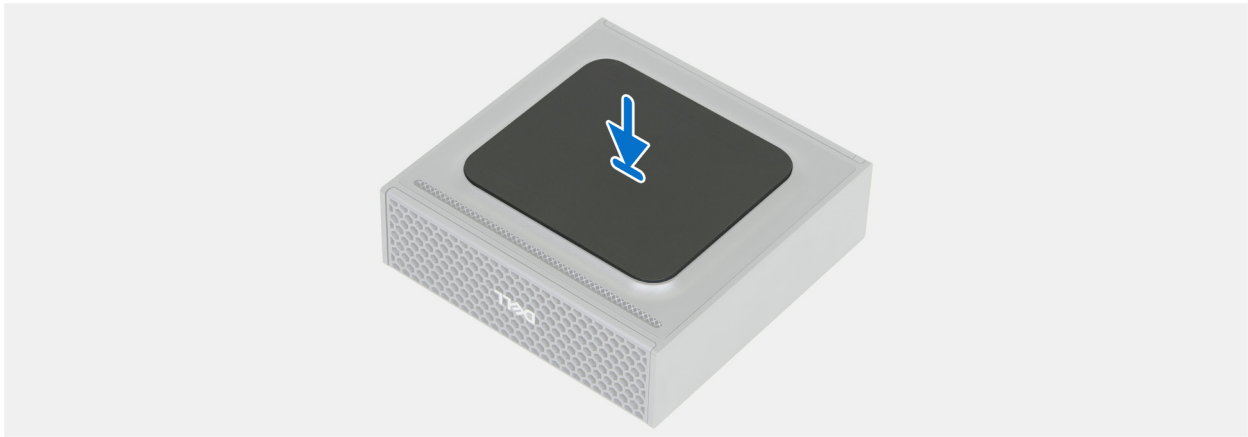



Figure 16. Installing the rubber base plate

Steps

1. Place and align the rubber base plate on the bottom cover.

 **NOTE:** The magnetic contacts on the bottom cover will secure the rubber base plate into place.

2. Place the computer upright on a clean and flat surface.

Next steps


1. Follow the procedure in [After working inside your computer.](#)


Removing and installing Field Replaceable Units (FRUs)

The replaceable components in this chapter are Field Replaceable Units (FRUs).

 **CAUTION:** The information in this removing and installing FRUs section is intended for authorized service technicians only.

 **CAUTION:** To avoid any potential damage to the component or loss of data, Dell Technologies recommends that an authorized service technician replaces the Field Replaceable Units (FRUs).

 **CAUTION:** Your warranty does not cover damages that may occur during FRU repairs that are not authorized by Dell Technologies.

 **NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

Solid-state drive


Removing the solid-state drive

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [rubber base plate](#).

About this task

 **NOTE:** Depending on the configuration ordered the following solid-state drives may be installed in this location:

- One M.2 2230 solid-state drive
- One M.2 2242 solid-state drive

The following image indicates the location of the solid-state drive and provides a visual representation of the removal procedure.

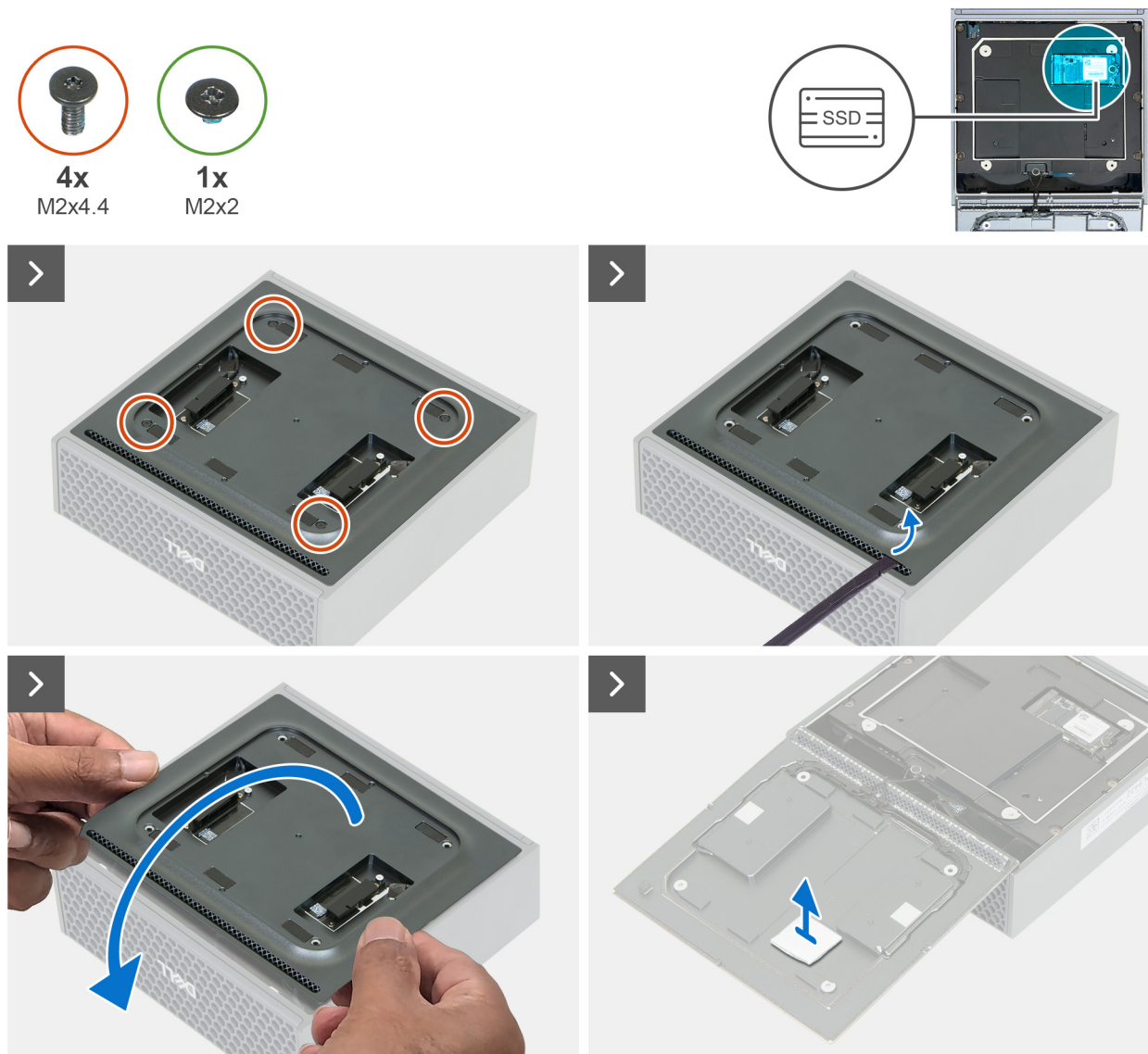


Figure 17. Removing the solid-state drive

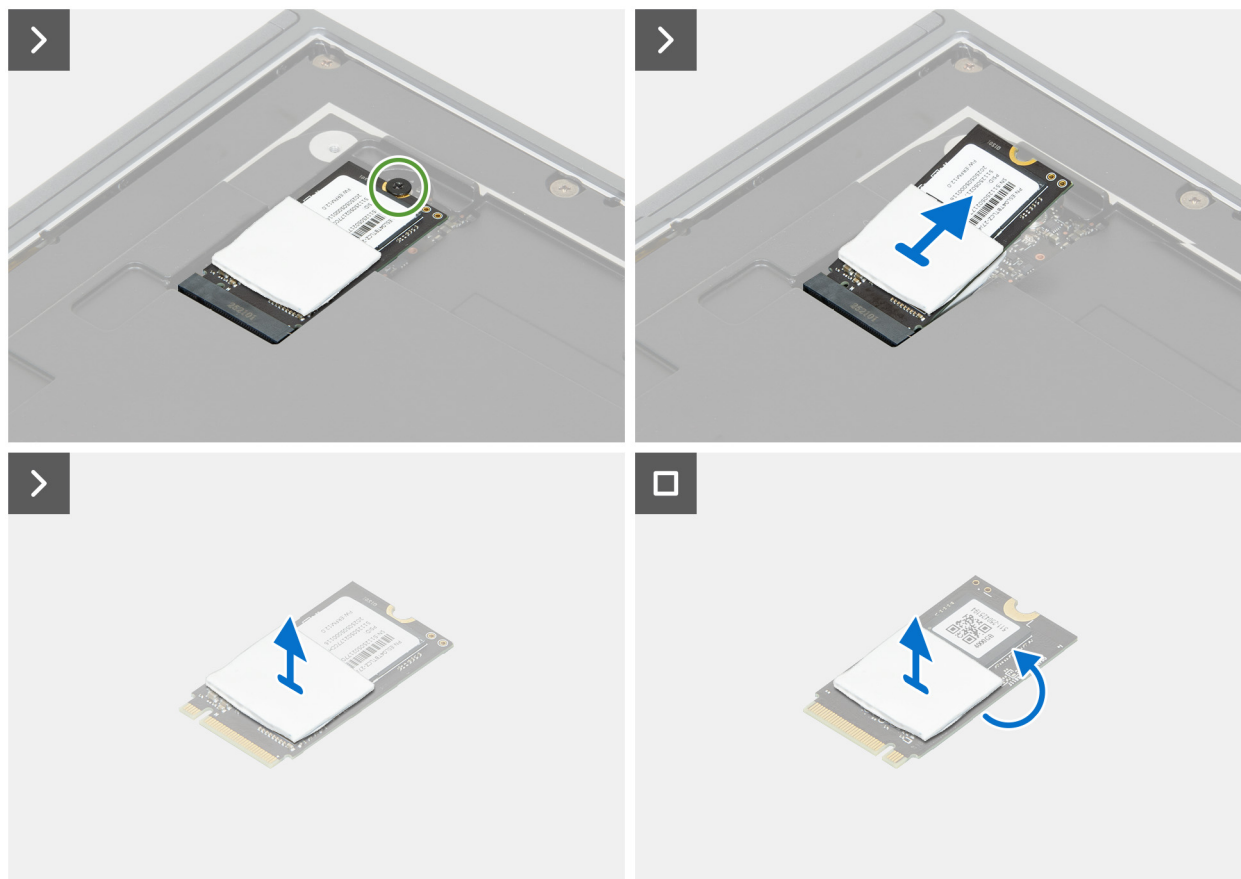


Figure 18. Removing the thermal pads off the solid-state drive

Steps

1. Remove the four screws (M2x4.4, Torx) that secure the bottom cover to the chassis.
2. Gently use a plastic scribe to pry the bottom cover off the chassis.
3. With the gap created, gently flip open the bottom cover.

CAUTION: To avoid damaging your computer, ensure that there is no tension on the antenna cables when handling the back cover.

4. Peel the thermal pad from the bottom cover, if applicable.

NOTE: The thermal pad may be adhered to the bottom cover or the top of the solid-state drive.

5. Remove the screw (M2x2) that secures the solid-state drive to the system board.
6. Slide and lift the solid-state drive from its connector on the system board.
7. Peel the thermal pad from the top of the M.2 solid-state drive, if applicable.
8. Flip over the solid-state drive.
9. Peel the thermal pad from the underside of the solid-state drive.

Installing the solid-state drive

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation process.

About this task

NOTE: You may install the following solid-state drives in this location:

- One M.2 2230 solid-state drive
- One M.2 2242 solid-state drive

The following image indicates the location of the solid-state drive and provides a visual representation of the installation procedure.

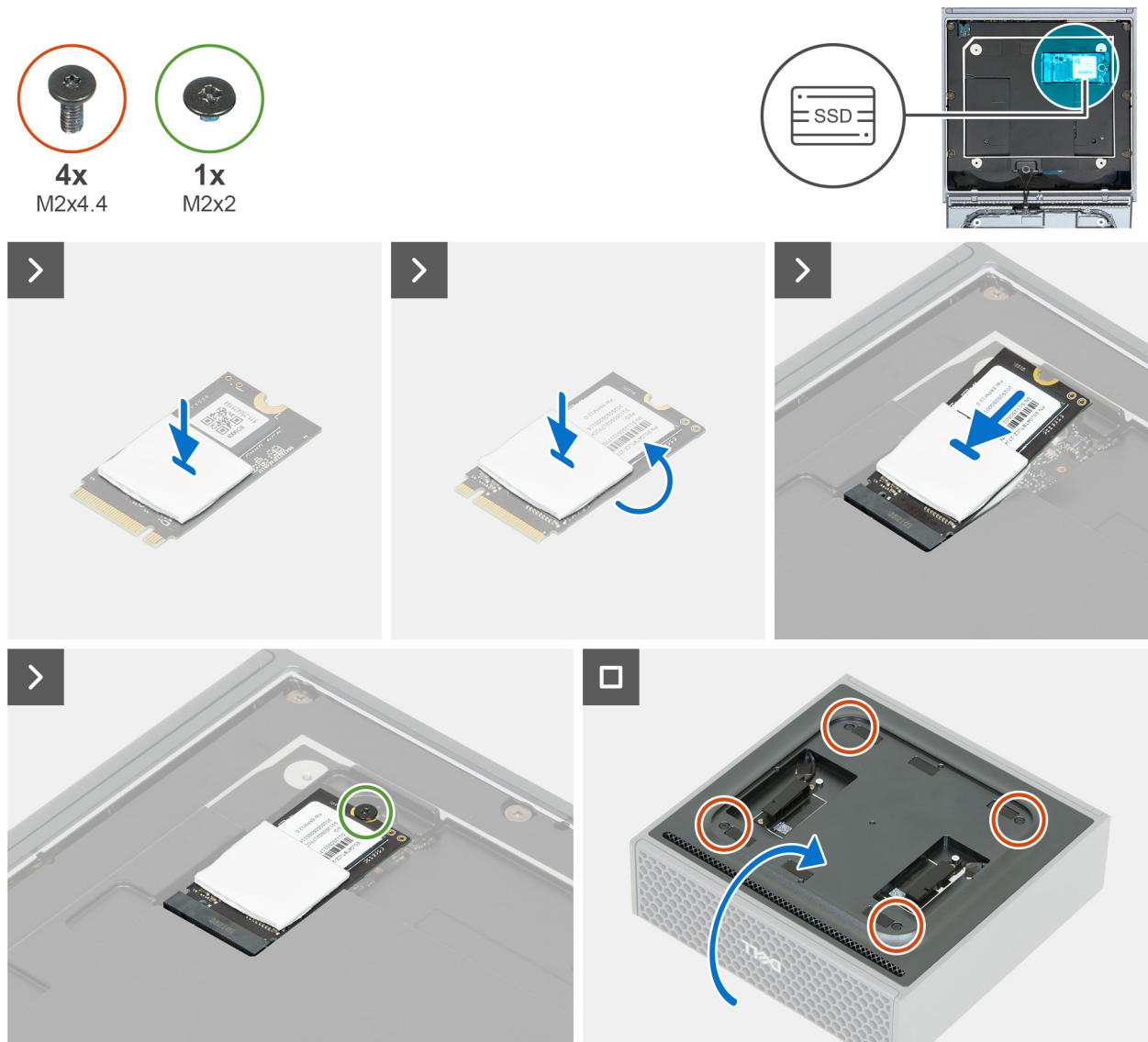


Figure 19. Installing the solid-state drive

Steps

1. Adhere the bottom thermal pad to the underside of the M.2 solid-state drive.
2. Flip over the solid-state drive.
3. Adhere the top thermal pad to the top of the solid-state drive.
4. Insert at an angle, the solid-state drive into its connector on the system board.
5. Replace the screw (M2x2) that secures the solid-state drive to the system board.
6. Gently flip the bottom cover into a closed position, then place and align the bottom cover over the chassis.

CAUTION: To avoid damaging your computer, ensure that there is no tension on the antenna cables when handling the back cover.

7. Replace the four screws (M2x4.4, Torx) that secure the bottom cover to the chassis.

Next steps

1. Install the [rubber base plate](#).
2. Follow the procedure in [After working inside your computer](#).

Computer

Preparing the computer for return

CAUTION: The information in this removal section is intended for authorized service technicians only.

NOTE: This procedure is only applicable if you are returning the old computer.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [rubber base plate](#).
3. Remove the [solid-state drive](#).

About this task

NOTE: The computer includes all components other than the solid-state drive.

The following image indicates the location of the computer and provides a visual representation of the removal procedure.

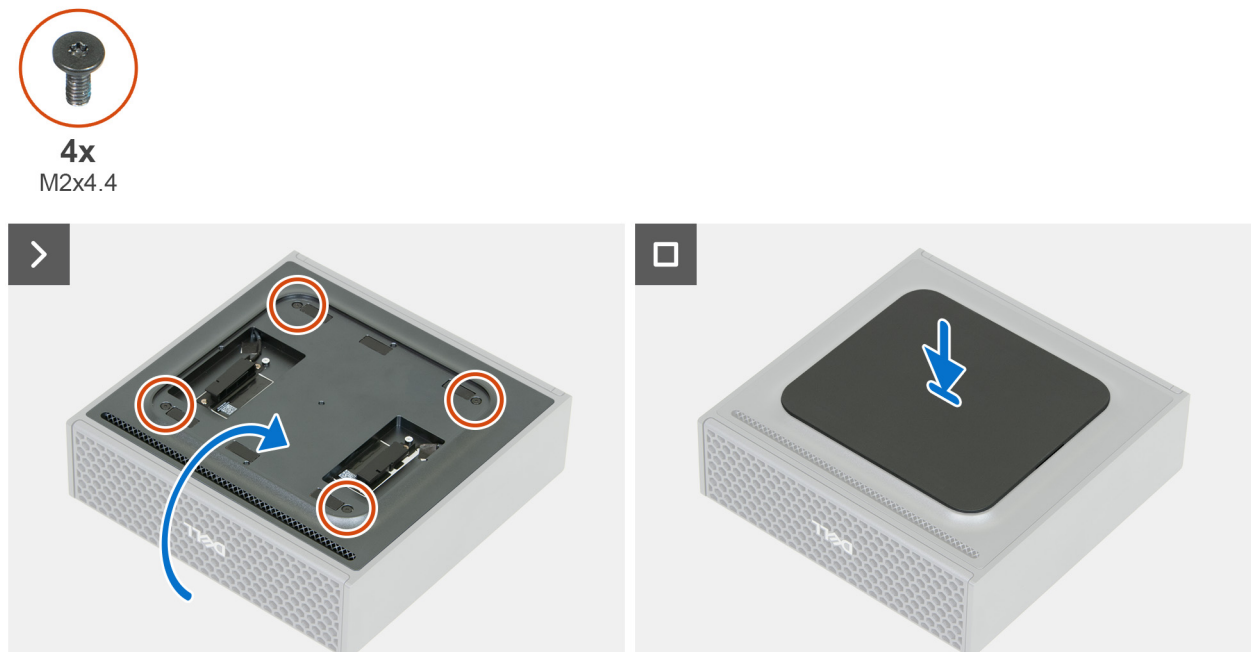



Figure 20. Preparing the computer for return

Steps


1. Gently flip the bottom cover into a closed position, then place and align the bottom cover over the chassis.

CAUTION: To avoid damaging your computer, ensure that there is no tension on the antenna cables when handling the back cover.

2. Replace the four screws (M2x4.4, Torx) that secure the bottom cover to the chassis.
3. Place and align the rubber base plate on the bottom cover.

 **NOTE:** The magnetic contacts on the bottom cover will secure the rubber base plate into place.

4. Place the computer upright on a clean and flat surface.

 **NOTE:** The computer is now ready for return.

Replacing the computer


 **CAUTION:** The information in this installation section is intended for authorized service technicians only.

 **NOTE:** This procedure is only applicable if you are replacing the computer.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation process.

About this task

 **NOTE:** The computer includes all components other than the solid-state drive.

The following image indicates the location of the computer and provides a visual representation of the installation procedure.



4x
M2x4.4

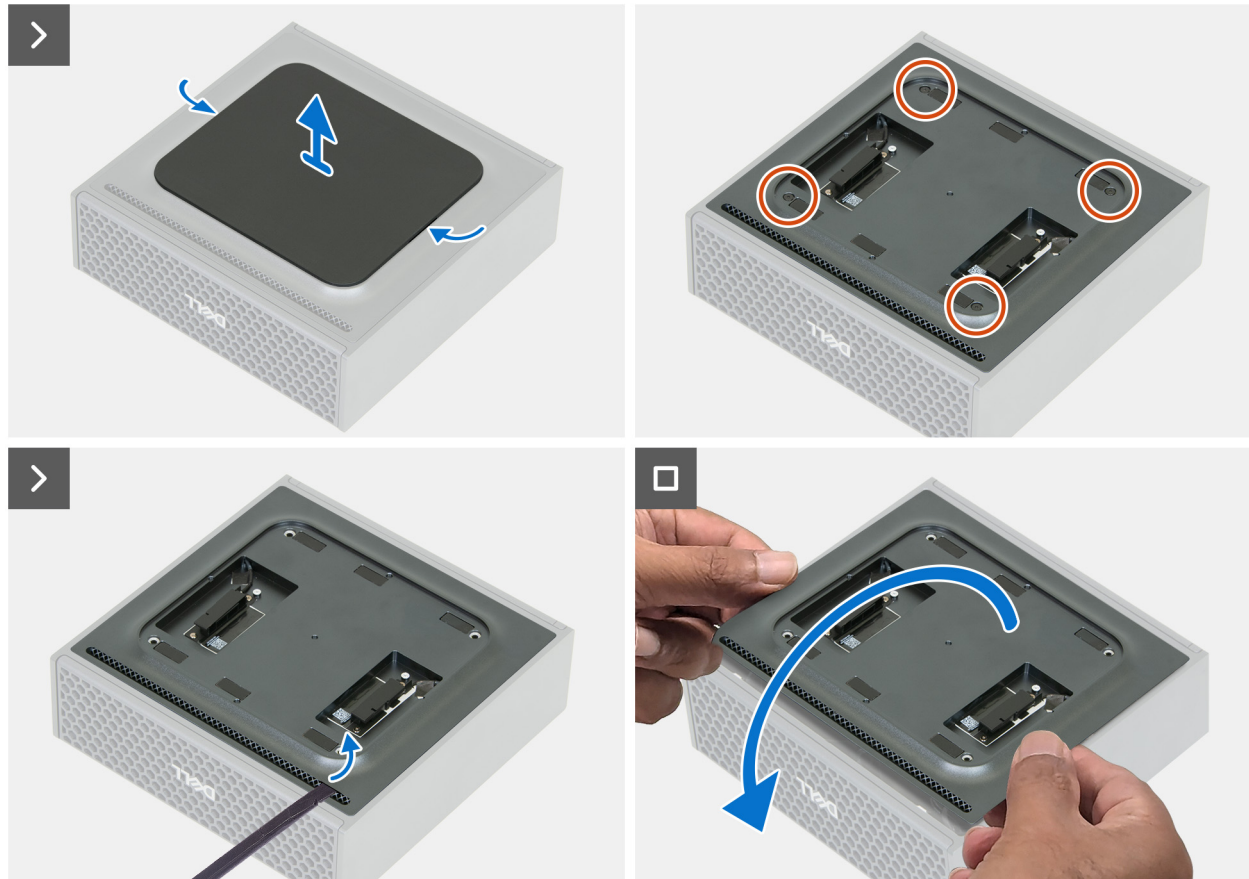


Figure 21. Replacing the computer

Steps

1. Place the new computer top side down on a clean and flat surface.
2. Pry and lift the rubber base plate off the bottom cover.
3. Remove the four screws (M2x4.4, Torx) that secure the bottom cover to the chassis.
4. Using a plastic scribe, pry up the bottom cover.
5. With the gap created, gently flip open the bottom cover.

CAUTION: To avoid damaging your computer, ensure that there is no tension on the antenna cables when handling the back cover.

Next steps

1. Install the [solid-state drive](#).
2. Install the [rubber base plate](#).
3. Follow the procedure in [After working inside your computer](#).

Software

This chapter details the supported operating systems along with instructions on how to install the drivers.

Operating system


Your Dell Pro Max with GB10 FCM1253 supports the following operating systems:

- NVIDIA DGX OS

Drivers and downloads

When troubleshooting, downloading, or installing drivers, it is recommended that you read the [Dell Knowledge Base article Drivers and Downloads FAQs](#).

BIOS Setup

 **CAUTION:** Certain changes can make your computer work incorrectly. Before you change the settings in BIOS Setup, it is recommended that you note down the original settings for future reference.

 **NOTE:** Depending on the computer and the installed devices, the options that are listed in this section may differ.

Use BIOS Setup for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the capacity of the storage device.
- Change the system configuration information.
- Set or change user-selectable options such as the user password, enabling or disabling base devices, and configuring hard drive settings.

Entering BIOS Setup program

To enter the BIOS, restart your computer and press the **delete** key on your keyboard when the Dell Logo appears on the display.

Navigation keys


 **NOTE:** For most of the BIOS Setup options, changes that you make are recorded but do not take effect until you restart the computer.

Table 16. Navigation keys

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Left arrow	Moves to the left field
Right arrow	Moves to the right field
Enter	Selects a value in the selected field (if applicable) or follows the link in the field.
F1	General help
F2	Restores previous values
F3	Applies optimized defaults
F4	Save and exit
ESC	Exit without saving

One time boot menu

To enter the **one time boot menu**, restart your computer and press the **F7** key on your keyboard when the Dell Logo appears on the display.

The one-time boot menu displays the devices that you can boot from.

Setup Menu

Table 17. Setup Menu - Main

Main
BIOS Information
BIOS Vendor
Core Version
Compliance
Project Version
Build Date and Time
Access Level
System Language
System Date
System Time

Table 18. Setup Menu - Advanced

Advanced
Trusted Computing
Security Device Support
NO Security Device Found
UEFI Variables Protection
Password protection of Runtime Var
Serial Port Console Redirection
COM0
Console Redirection
Console Redirection Settings
<ul style="list-style-type: none">• Terminal Type• Flow control• VT-UTF8 Combo Key Support• Recorder Mode• Resolution 100x31• Putty KeyPad
Serial Port for Out-of-Band Management/Windows Emergency Management Services (EMS)
Console Redirection Settings
<ul style="list-style-type: none">• Terminal Type EMS• Bits per second EMS• Flow Control EMS• Data Bits EMS• Parity EMS• Stop Bits EMS
Network Stack
Configuration
IPv4 PXE Support
IPv4 HTTP Support
IPv6 PXE Support

Table 18. Setup Menu - Advanced (continued)

Advanced
<p>IPv6 HTTP Support</p> <p>PXE boot wait time</p> <p>Media detect count</p> <p>Firmware Version Information</p> <p>PD2 FW2</p> <p>UEFI FW Version</p> <p>SoC FW Version</p> <p>GOP Driver Version</p>
<p>NVMe Configuration</p> <p>NVMe item</p> <ul style="list-style-type: none"> ● Seg:Bus:Dev:Func ● Model Number ● Total Size ● Vendor ID ● Device ID ● Namespace: 1 <p>Device Self Test:</p> <ul style="list-style-type: none"> ● Self Test Option ● Self Test Action ● Run Device Self Test ● Short Device Selftest Result ● Extended Device Selftest Result
<p>Tls Auth Configuration</p> <p>Server CA Configuration</p> <ul style="list-style-type: none"> ● Enroll Cert <ul style="list-style-type: none"> ○ Enroll Cert using File ○ Cert GUID ○ Commit Changes and Exit ○ Discard Changes and Exit ● Delete Cert <p>Client Cert Configuration</p>
<p>Advanced Menu</p> <p>Platform Configuration</p> <ul style="list-style-type: none"> ● Go Back to Main Page ● Available System Memor ● iGPU Memory Carveout ● DRAM Encryption ● DRAM Voltage Level ● DRAM RAPID-K Enable ● DRAM Eyescan ● Watchdog Timer
<p>Platform Driver Override selection</p> <p>Please refresh page firstly</p> <p>PCI device filter</p> <p>Clear all mapping record!</p>

Table 18. Setup Menu - Advanced (continued)

Advanced
VLAN Configuration Enter Configuration Menu <ul style="list-style-type: none"> ● Create New VLAN <ul style="list-style-type: none"> ○ VLAN ID ○ Priority ○ Add VLAN ● Configured VLAN List <ul style="list-style-type: none"> ○ Remove VLAN
MAC IPv4 Network Configuration Configured Enable DHCP Local IP Address Local Netmask Local Gateway Local DNS Servers Save Changes and Exit
MAC IPv6 Network Configuration Enter Configuration Menu <ul style="list-style-type: none"> ● Interface Name ● Interface Type ● MAC address ● Host address ● Route Table ● Gateway addresses ● DNS addresses Interface ID <ul style="list-style-type: none"> ● DAD Transmit Count ● Policy ● Save Changes and Exit

Table 19. Setup Menu - Security

Security
Disable Block Sid and Freeze Lock Password Description Minimum length Maximum length Administrator Password User Password Media Sanitization Device Name Method Type Specification Start This Device Sanitization Secure Boot

Table 19. Setup Menu - Security (continued)

Security
System Mode
Secure Boot
Secure Boot Mode
Restore Factory Keys
Reset to Setup Mode
Expert Key Management
<ul style="list-style-type: none"> • Vendor Keys • Factory Key Provision • Restore Factory Keys • Reset to Setup Mode • Enroll Efi Image • Export Secure Boot variables • Secure Boot variable <ul style="list-style-type: none"> ○ Platform Key (PK) ○ Key Exchange Keys (KEK) ○ Authorized Signatures (db) ○ Forbidden Signatures (dbx) ○ Authorized Timestamps (dbt) ○ OSRecovery Signatures (dbr) ○ Device Signatures (devdb)
TCG Storage Security Configuration
TCG Storage Security Password Description
Password Configuration:
<ul style="list-style-type: none"> • Security Subsystem Class • Security Supported • Security Enabled • Security Locked • Security Frozen • User Pwd Status • Admin Pwd Status
Set Admin Password
Set User Password

Table 20. Setup Menu - Boot

Boot
Boot configuration
Setup Prompt Timeout
Bootup Numlock State
Quiet Boot
Option Keys Display
Boot Option Priorities
Boot Option #1
Boot Option #2
Boot Option #3
Fast Boot

Table 20. Setup Menu - Boot (continued)

Boot
Add New Boot Option
Add boot option
Path for boot option
Boot option File Path
Create
Delete Boot Option
Delete Boot Option

Table 21. Setup Menu - Save & Exit

Save & Exit
Save Options
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Changes
Discard Changes
Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
Boot override Option #1
Boot override Option #2
Boot override Option #3

Admin and user password

Administrator Password

This password is set to restrict access to the BIOS setup utility. Only users who know the administrator password can change system settings and configurations. It is typically used by IT administrators to secure the BIOS settings from unauthorized changes.

User Password

This password is used to allow or restrict access to the system at boot. If a user password is set, the system will prompt for this password during the boot process before loading the operating system. It is generally used to prevent unauthorized users from accessing the system.

Password Policies

1. At least 1 lower case character
2. At least 1 upper case character
3. At least 1 number
4. At least 1 special character

Clearing system and setup passwords

To clear the system or setup passwords, contact Dell technical support as described at [Contact Support](#).

Troubleshooting


Network power cycle

About this task

If your computer is unable to access the Internet due to network connectivity issues, reset your network devices by performing the following steps:

Steps

1. Turn off the computer.
2. Turn off the modem.

 **NOTE:** Some Internet service providers (ISPs) provide a modem and router combo device.

3. Turn off the wireless router.
4. Wait for 30 seconds.
5. Turn on the wireless router.
6. Turn on the modem.
7. Turn on the computer.

Getting help and contacting Dell

Self-help resources


You can get information and help on Dell products and services using these self-help resources:


Table 22. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	Dell Site
Contact Support	Contact Technical Support
Online help for operating system	NVIDIA Base OS NVIDIA Support
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	Your Dell computer is uniquely identified using a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at Dell Support Site . For more information about how to find the Service Tag for your computer, see Locate the Service Tag on your computer .
Dell knowledge base articles	<ol style="list-style-type: none"> 1. Go to Dell Support Site. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [Dell Support Site](#).

 **NOTE:** Availability of the services may vary depending on the country or region, and product.

 **NOTE:** If you do not have an active Internet connection, you can find contact information in your purchase invoice, packing slip, bill, or Dell product catalog.

Revision history

Tracks all updates that are made to the document. It typically includes the date of change, version number, and a brief description of the modification. This log helps maintain transparency, accountability, and a clear timeline of progress.

Table 23. Revision history

Revision	Date	Description
A00	09-30-2025	Original publish date.